Technical Data

Original Instructions

PowerFlex 755TM IP00 Open Type Kits

Catalog Numbers 20-750-*x*

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Summary of Changes

This publication contains the following new or updated information. This list includes substantive updates only and is not intended to reflect all changes.

Topic	Page
Updated the Atmospheric protection specifications to include the new "Corrosive Atmosphere" specification.	5
Added the new IP00 Open Type Kits with Corrosive Gas Protection (XT) section.	7
Updated the LCL Filter and Power Module Position Designations section for module label updates.	81
Corrected the 690V Frame 7 Module Requirements table column order.	83
Corrected the LCL filter catalog number columns in the 600V Frame 12 Module Requirements and 690V Frame 12 Module Requirements tables.	88
Corrected the Frame 13 Module Selection tables.	89
Corrected the Frame 14 Module Selection tables.	90
Corrected the Frame 15 Module Selection tables.	91
Corrected the LCL filter catalog number columns in the 600V Frame 15 Module Requirements and 690V Frame 15 Module Requirements tables.	91
Updated the LCL Filter Modules Options weights.	93
Updated the Control Pod Assemblies table with the new control pod kits.	117
Added Low Speed Derating with Reduced Carrier Frequency tables for all product ratings.	143
Added the 350 MCM maximum input power and motor cable size when dual conductors are installed per phase for frame 7 products in the Selection Considerations table.	228

Introduction

PowerFlex® 750-Series products with TotalFORCE® technology offer precise motor control along with solutions for harmonic mitigation, regeneration, and common-bus system configurations. The PowerFlex 755T products use TotalFORCE technology, our patented field-oriented control for accurate torque control. With TotalFORCE, the PowerFlex 755T products deliver fast, precise, responsive control of position, velocity, and torque.

Designed and built using a modular approach, the PowerFlex 755T products offer a full range of ratings and capabilities that are suited to your application needs. The modular construction also offers the added advantage of fast and easy parts replacement and simplified management of a common set of spares.

- PowerFlex 755TL Drive – Provides harmonic mitigation and power factor correction by using active front-end technology.
- PowerFlex 755TR Drive – Features built-in regeneration capability that helps reduce energy consumption by delivering regenerative energy from motors back to the incoming supply. Line regeneration can reduce the need for braking resistors and associated cooling equipment and helps avoid wasteful dissipation of energy. The drive also offers harmonic mitigation.
- PowerFlex 755TM Drive System – Select from a series of predesigned configurations for regenerative bus supplies and common bus inverters to optimize your system design and power consumption. Gain energy efficiency with motors that share energy between regenerating and motoring loads. A common bus drive system offers advantages such as design flexibility, energy optimization, and reduced installation costs. Systems provide harmonic mitigation and built-in regeneration capability.

This manual provides technical specifications, ratings, and selection information for the PowerFlex 755TM IP00 / Open Type kits. All kits that are listed in this publication must be installed in a user-supplied, appropriately rated enclosure. Installation guidelines and procedures for IP00 / Open Type kits are in the PowerFlex 755TM IP00 Open Type Kits Installation Instructions, publication 750-IN101.

Certifications and Environmental Specifications

Certifications Descriptions

Product certifications	Rockwell Automation maintains current product certification information on its website at: rok.auto/certifications
CE	In conformity with the following European Directives: EMC Directive (2014/30/EU) Low Voltage Directive (2014/35/EU) RoHS Directive (2011/65/EU) Standards applied: EN 61800-3 EN 61800-5-1 IEC 61800-5-2 EN 50495 EN 50581 EN ISO 13849-1 EN 62061 IEC 61508 Parts 1-7
China RoHS2	Compliant with China Restriction of Hazardous Substances Directive.
c-UL-us	UL: Listed to UL61800-5-1 up to 600V AC CSA: C22.2 No. 274-13 up to 600V AC
Functional safety	TÜV and Rheinland - Certification applies to 20-750-S, 20-750-S1, 20-750-S3 safety, and 20-750-S4 options when they are installed in the drive and are configured according to the appropriate safety manual. See Additional Resources on page 237 for list of publications. Standards applied: IEC 61508 PARTS 1…7 EN 61800-3 EN 61800-5-1 IEC 61800-5-2 EN ISO 13849-1 IEC 62061 ISO 60204-1 Machinery Directive (2006/42/EC)
KCC	Korean KC registration
Marine and Offshore Applications	The DC bus conditioner (cat. no. 20-750-MDCBUS1-COND) is suitable for use on a high-resistance ground or ungrounded distribution system in a marine application (for example, ship or marine vessel). See the PowerFlex 755T Products - ABS Certificate, publication 755T-CT002 for details.
Network communication	ODVA Declaration of Conformity to the EtherNet/IP Specification
Packaging directive	In conformity with the Packaging Directive (94/62/EC and amendments 2004/12/EC and 2005/20/EC)
REACH	Regulation (EC) No. 1907/2006 concerning the Registration, Evaluation, Authorization and Restriction of Chemicals (REACH).

Certifications Descriptions

Regulatory compliance mark (RCM)	Australian Communications and Media Authority In conformity with the following: Radiocommunications Act: 1992 Radiocommunications Standard: 2008 Radiocommunications Labeling Notice: 2008 Standards applied: EN 61800-3:2012
Seismic-qualified installations	Use the enclosure kits for seismic qualified installations with the recommended Rittal TS8 enclosures (see Kits for Seismic-qualified Installations on page 115). Enclosures must be rigidly mounted according to local standards and codes. The installation must comply with any guidance that is provided by a qualified structural engineer. See the PowerFlex 755T Products- Seismic Certificate, publication 755T-CT001 for details.
SEMI F47	Certified compliant with the SEMI F47 standard (frame 7 drives and bus supplies only). See the PowerFlex 750-Series Products with TotalFORCE Control Reference Manual, publication 750-RM100, for configuration required for compliance.

Component Certifications

An 'x' indicates that the certification applies to the IP00 kit. '—' indicates that a certification does not apply.

IP00 Kit Certifications

Component	Cat. No.	c-UL-us	CE	RCM	EAC	KCC
Power modules	20-750-MI*n-xnnnxnnn*	x	x	x	x	x
LCL filter modules	20-750-ML*n-xnnnxnnn*	x	x	x	x	x
AC precharge modules	20-750-MACP-*xx*-F*n*M	x	x	x	x	x
AC precharge circuit breakers	20-750-MACPCCB-*xx-nxn*	x	x	—	—	—
AC precharge resistor banks	20-750-MACPR-*xx*-F*nn*M	x	x	—	—	—
DC precharge modules	20-750-MDCP*n-xx*-F8M	x	x	x	x	x
DC link/fuse assemblies	20-750-MDCL*n-xx*-F*n*M	x	x	x	x	x
DC bus conditioner	20-750-MDCBUS-COND	x	x	x	x	x
DC bus conditioner (frame 7)(1)	20-750-MDCBUS-COND-F7M	x	x	x	x	x
DC bus conditioner (marine)	20-750-MDCBUS1-COND	x	x	x	x	x
Marine discharge circuit board	20-750-MBSCD-DB	x	x	x	x	x
TVSS modules	20-750-MACP-*xx*-TVSS	x	x	x	x	x
AC bus bars	20-750-MACBUS*n-xxx*	x	—	—	—	—
AC input/output bus bars (frame 7)	20-750-MACIOT-F7M	x	—	—	—	—
AC input flex bus bars (frame 7)	20-750-MACINP-F7	x	—	—	—	—
EMC AC input bus bars (frame 7)(2)	20-750-MEMC-F7M	x	—	—	—	—
AC bus bars (top cable exit/entry)	20-750-MTEBUS*n-xxx*	x	—	—	—	—
AC bus bar splice	20-750-MACSPL*n-xnx*	x	—	—	—	—
AC precharge circuit breaker bus bars	20-750-MCBBUS*n-xnx*	x	—	—	—	—
AC precharge circuit breaker bus bars (frame 7)	20-750-MPCCB-F7M	x	—	—	—	—
AC input link bus bar and fuse assemblies	20-750-MACL*n-xnx*	x	—	—	—	—
AC output circuit breaker bus bar and fuse assembly	20-750-MACB-EMC-*xx*-F7M	x	—	—	—	—
AC output flex bus bars (frame 7)	20-750-MACL2-*xx*-F7M	x	—	—	—	—
AC motor side output flex bus bars (frame 7)	20-750-MSOF-F7	x	—	—	—	—
Stab receptacles	20-750-MREC1-F8*x*	x	—	—	—	—
DC bus bars	20-750-MDCBUS*n-xnx*	x	—	—	—	—
DC bus bar splice	20-750-MDCSPL1-*nxn*	x	—	—	—	—
DC output bus bars (frame 7)	20-750-MDCOT-F7M	x	—	—	—	—
DC output flex bus bar and fuse assembly (frame 7)	20-750-MDCFB-*xx*-F7M	x	—	—	—	—
Ground bus bar splice	20-750-MGNDSPL1	x	—	—	—	—

IP00 Kit Certifications (continued)

Component	Cat. No.	c-UL-us	CE	RCM	EAC	KCC
Control bus assemblies	20-750-MCBUS1-*xx-xnx*	x	—	—	—	—
Control bus splice	20-750-MCTRLBUS-SPL	x	—	—	—	—
Control bus connectors	20-750-MCTRLBUS-CONN*n*	x	—	—	—	—
Control pod assembly	20-750-MCPOD*n*-F*n*M	x	x	x	x	x
L-bracket bus bar kit	20-750-MLBRKT-F8M	x	—	—	—	—
AC precharge control board	20-750-MACPC1-*xx*	x	x	—	—	—
AC precharge control board (frame 7)	20-750-MACPC1-*xx*-F7M	x	x	—	—	—
Fiber transceiver board	20-750-MFTB1-F8	x	x	—	—	—
Torque accuracy module	20-750-MTAM1-*xx*	x	x	x	x	x
EMC C2 filter output bus bars, frames 8…10	20-750-MEMCC2-F*n*	x	x	—	—	—
EMC C2 filter input bus bars, frames 8…10	20-750-MEMCC2-IPBB	x	x	—	—	—
EMC C2 filter, frames 8…10	20-750-MEMCC2-F8910	x	x	—	—	—
Seismic-qualified enclosure hardware, frames 8…12	20-750-MOSHPD-F*n*M	x	—	—	—	—
Module storage hardware	20-750-MINV-ATIP	—	x	—	—	—
Power / LCL module service cart	20-750-MCART1	—	x	—	—	—
DC precharge lift	20-750-MCART2	—	x	—	—	—
Power module service ramp	20-750-MRAMP1	—	x	—	—	—

(1) This kit is installed in all frame 7 power modules. See DC Bus Conditioner on page 105 for more information.
(2) Rockwell Automation is evaluating the ability to meet Category C2 compliance. Contact the factory for more information.

Environmental Specifications

Category	Specification
Environmental compliance	Rockwell Automation maintains current product environmental information on its website at: http://www.rockwellautomation.com/rockwellautomation/about-us/sustainability-ethics/product-environmental-compliance.page
Altitude • Based on load • Based on voltage	See Derating Guidelines beginning on page 142. Based on EN61800-5-1 (Electro-thermal Safety Standard for drives)

Altitude Limit Above Sea Level (1)

System and Ground Configuration	Overvoltage Category (2)	400/480V AC	600V AC	690V AC
Center Grounded (Y Neutral) w/Solid Ground	II	9000 m (3)	7500 m (3)	7500 m (3)
	III	4800 m	4800 m	4800 m
Ungrounded, Impedance Grounded, or Corner Grounded	II	4800 m	7500 m (3)	4800 m
	III	2000 m	4800 m	2000 m

(1) Excluding failure from cosmic radiation. Cosmic radiation will increase rate of IGBT malfunction at altitudes greater than 3000 m above sea level. Concrete walls and ceilings or concrete walls and large bottles of water overhead are examples of ways to shield against cosmic radiation.
(2) Overvoltage Categories:
Category II (Isolation Transformer Level) - Typically two levels of isolation or protection from outdoor power lines.
Category III (Most Common) Distribution Level Inside a Building - Typically one level of isolation or protection from outdoor power lines.
(3) See the Ambient Temperature/Load Derating Guidelines starting on page 142. Product is limited to a maximum of 4800 m thermally. For altitudes above 4800 m, contact your local Allen-Bradley distributor or Rockwell Automation sales representative.

Solid Particulate Ingress	Conformity with IEC 60721-3-3-2002 3S2. A suitable IP54, UL Type 12 Cabinet is required to meet the 3S2 requirement.
Corrosive Atmosphere • ASTM B845-97 Method K Accelerated Test (30 day exposure)	Severity Level GX per ANSI/ISA 71.03-2013, Airborne contaminants-gases. Severity level GX is defined as up to 2100 angstroms of film growth per 30 days of copper or silver reactivity. Severity Level CX per IEC 60721-3-3: 2019, Chemically Active Substances. For the product to meet the corrosive atmosphere rating, these conditions must be met: • Protective covers must remain installed in unused connectors during storage and operation. • The product or kit must be stored in the original packaging.

Environmental Specifications (continued)

Category	Specification
Environmental impact	EU Environmental Directive: Restriction of Hazardous Substances (RoHS) Directive (2011/65/EU) - CE marking is required for the EU Registration, Evaluation and Authorization of Chemicals (REACH) Regulation (1907/2006) Packaging Directive (94/62/EC as amended by 2004/12/EC and 2005/20/EC) China Restriction of Hazardous Substance (RoHS) Directive
Surrounding air temperature	

Module	Inlet Temperature(1)	Maximum Surrounding Temperature
Control pods	-20…+60 °C (-4…+140 °F)	65 °C (149 °F)
Power modules	-20…+40 °C (-4…+104 °F)	50 °C (122 °F)
	41…55 °C (106…131 °F)	65 °C (149 °F)(2)
LCL filter modules	-20…+40 °C (-4…+104 °F)	50 °C (122 °F)
	41…55 °C (106…131 °F)	65 °C (149 °F)(2)
DC precharge modules	-20…+55 °C (-4…+131 °F)	65 °C (149 °F)
	55…60 °C (131…140 °F)	65 °C (149 °F)(2)
AC precharge modules	-20…+40 °C (-4…+104 °F)	50 °C (122 °F)
	41…55 °C (106…131 °F)	65 °C (149 °F)(2)

(1) Inlet temperature represents the air immediately entering the IP00 open type module.
(2) Elevated temperature values are based on appropriate derating.See the Ambient Temperature/Load Derating Guidelines starting on page 142.

Ambient air temperature(1)	IP21, UL Type 1: IP54, UL Type 12:	-20…+40 °C (-4…+104 °F) -20…+40 °C (-4…+104 °F)	Frames 7…15, all ratings Frames 7…15, all ratings
Ambient temperature with derating(1)	50 °C (122 °F) or 55 °C (134 °F)	Frames 7…15, all ratings	See Derating Guidelines on page 142.
Storage temperature(1)	-40…+70 °C (-40…+158 °F)		
Relative humidity	5…95% noncondensing		
UV radiation	The HIM is not UV rated.		
Shock • Packaged for shipment	Meets ATSM International standards.		
Vibration • Packaged for shipment	Meets ATSM International standards.		
Required airflow • LCL filters and power modules	See page 228 and the PowerFlex 755TM IP00 Open Type Kits Installation Instructions, publication 750-IN101 for additional airflow information.		
Surrounding environment	Pollution Degree 1 and 2: Pollution Degree 3 and 4: (See page 230 for descriptions of each pollution degree rating.)	All enclosures acceptable. The system must be installed in an environment that meets Pollution Degree 2 or better, according to EN 61800-5-1.	

(1) Temperatures provided are based on PowerFlex 750-Series products with TotalFORCE control.

IP00 Open Type Kits with Corrosive Gas Protection (XT)

All PowerFlex 755TM IP00 Open Type kits with corrosive gas protection (XT) meet the corrosive atmosphere specification as defined by Rockwell Automation. See the Corrosive Atmosphere specification on page 5 for details and requirements.

The IP00 Open Type kits that are listed in this table not meet the corrosive atmosphere specification. Do not install these kits in a PowerFlex 755T product installed in a corrosive environment. The kit catalog number and series are contained on the kit package label and/or nameplate.

IP00 Open Type kits that do not provide corrosive gas protection

Catalog Number	Module	Series
20-750-MCPOD1-F*n*M, 20-750-MCPOD2-F*n*M	Control pods	All
20-750-MI1-*xnnnxnnn*, 20-750-MI2-*xnnnxnnn*, 20-750-MI3-*xnnnxnnn*, 20-750-MI4-*xnnnxnnn*	Power modules	A
20-750-ML1-*xnnnxnnn*, 20-750-ML4-*xnnnxnnn*	LCL filter modules	
20-750-MDCP1-*xx*-F8M	DC precharge modules	
20-750-MACP-*x*-F*n*M	AC precharge modules	
20-750-MACPC1-*xx* or 20-750-MACPC1-*xx*-F7M	AC precharge control board	
20-750-MFTB1-F8	Fiber transceiver board	
20-750-MDCBUS-COND	DC bus conditioner (frames 8…15)	
20-750-MDCBUS1-COND	DC bus conditioner (frames 8…12, marine)	
20-750-MDCBUS-COND-F7M	DC bus conditioner (frame 7)	
20-750-MBSCD-DB	Marine discharge board (frame 7)	
20-750-MEMCC2-F8910	EMC C2 Filter, IP00, Frame 8…10	
20-750-MVENTC1-F11M	Input bay vent kit	
20-750-MFOC-*nxn*	Fiber-optic cable	
20-750-MDCL*n*-*xx*-F8M	DC link/fuse assembly	
20-750-MTAM1-*xx*	Torque accuracy module	B and earlier

IMPORTANT For IP00 Open Type kits installed in an environment that contains volatile, conductive, or corrosive liquid, gases, and/or solids these conditions must be met:

- Kits must be installed in enclosures that provide for protection against solid and liquid ingress (IP21 / Type 1 or IP54 / Type 12)
- Kits must have corrosive gas protection (XT)
- Protective covers must be installed on unused connections

For IP00 Open Type kits with XT that are stored before installation these conditions must be met:

- Kits must remain in the original packaging until the time of installation
- Kits must be stored in an area where exposure to corrosive atmosphere and humidity is minimized
- Kits must not be stored in environments that contain conductive pollutants

See the Industry Installation Guidelines for Pulse Width Modulated (PWM) AC Drives, publication DRIVES-AT003 for more information on environmental considerations.

IP00 / Open Type Kit Selection by Equivalent Frame Size

The following tables provide selection information for major IP00 component kits that are required to build an equivalent PowerFlex 755TL drive, 755TR drive, or 755TM common bus product based on frame size and rating information. For detailed IP00 kit assembly and installation guidelines that includes product enclosure recommendations, see the PowerFlex 755TM IP00 Open Type Kits Installation Instructions, publication 750-IN101.

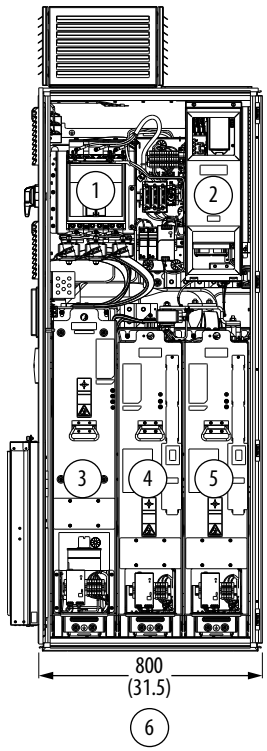
Frame 7 Equivalent PowerFlex 755TL and 755TR Drives

This section provides selection information for frame 7 equivalent PowerFlex 755TR drives.

Frame 7 PowerFlex 755TR Drives Normal Duty Ratings

Input Voltage	Amps (AC)	Power Rating
400	302…600	160…315 kW
480	302…600	250…500 Hp
600	192…395	200…400 Hp
690	171…370	160…355 kW

Frame 7 PowerFlex 755TL and 755TR Drive Major Components - Front View



Enclosure is 600 mm (23.6 in.) deep. IP54, UL Type 12 Enclosure Shown.

Item	Description
1	AC precharge section
2	Control pod
3	LCL filter

Item	Description
4	Line side converter
5	Motor side inverter
6	Power bay

Frame 7 PowerFlex 755TL and 755TR Drive IP00 Component Kits

Module or Kit Name	Catalog Number	Qty.	Description
Power Bay (Converter, 800 mm)	—	1	See Cabinet-Level Kits on page 110 for Rittal part number.
Power module (Line side converter)	20-750-MI4-*xnnnxnnn*	1	Power module that is configured as a line side converter. For power module rating and specification information, see Frame 7 Module Selection on page 82.
Power module (Motor side inverter)	20-750-MI4-*xnnnxnnn*	1	Power module that is configured as a motor side converter. For power module rating and specification information, see Frame 7 Module Selection on page 82.
LCL filter module	20-750-ML4-*xnnnxnnn*	1	LCL module rating and specification information, see Frame 7 Module Selection on page 82.
AC precharge circuit breaker	20-750-MACPCCB-1K0	1	Choose one circuit breaker. For specification and rating information, see AC Precharge Circuit Breaker on page 93.

Frame 7 PowerFlex 755TL and 755TR Drive IP00 Component Kits (continued)

Module or Kit Name	Catalog Number	Qty.	Description
AC precharge resistors	20-750-MACPR-*xx*-F7M	1	For specification and rating information, see AC Precharge Resistor Banks on page 94.
AC precharge control board	20-750-MACPC1-*xx*-F7M	1	For specification and rating information, see AC Precharge Control Boards on page 127.
Control pod	20-750-MCPOD*n*-F7M	1	For rating, environmental, and weight information, see Control Pod Assemblies on page 117.
Fiber transceiver boards	20-750-MFTB1-F8	2	See Fiber Transceiver Board on page 127.
AC input/output bus bar terminals	20-750-MACIOT-F7M	1	For ratings information, see Frame 7 Bus Bar Kits on page 109.
AC flexible bus input/breaker	20-750-MACINP-F7	1	
AC precharge, circuit breaker bus bars	20-750-MPCCB-F7M	1	
AC output bus bars and fuses	20-750-MACL2-*xx*-F7M	1	
AC motor side output flexible bus	20-750-MSOF-F7	1	
DC output bus bar terminals	20-750-MDCOT-F7M	1	
DC output flexible bus and fuses	20-750-MDCFB-*xx*-F7M	1	
Vent (800 mm wide)	20-750-MVENT*n*-F7M	1	For rating and specification information, see Ventilation Assemblies on page 116. For temperature specification, see Ventilation Kit Temperature Specifications on page 117.
LCL filter and power module mounting bracket	20-750-MMNT1-F7M	1	See Power and LCL Filter Module Floor and Support Brackets on page 116.

Frame 7 PowerFlex 755TL and 755TR Drive Options

Module or Kit Name	Description
AC common mode cores (20-750-MACCM1-F7M)(1)	For selection information, see AC Common Mode Core on page 107.
Marine discharge board (20-750-MBSCD-DB)	See DC Bus Conditioner on page 105.
Fiber-optic cable for AC precharge control board to pod	See Fiber-optic Cable Kits on page 118.
Fiber-optic cable for power module to pod	
EMC AC input bus (20-750-MEMC-F7M)(1)	See Frame 7 Bus Bar Kits on page 109.
AC output bus bar and fuse, circuit breaker EMC kit (20-750-MACB-EMC-*xx*-F7M)(1)	

(1) Rockwell Automation is evaluating the ability to meet Category C2 compliance. Contact the factory for more information.

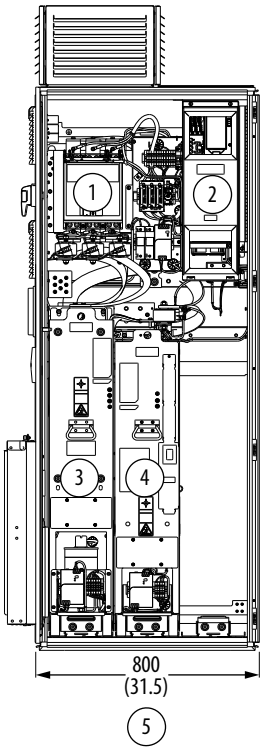
Frame 7 Equivalent PowerFlex 755TM Bus Supplies

This section provides selection information for frame 7 equivalent PowerFlex 755TM bus supplies.

Frame 7 PowerFlex 755TM Bus Supplies Normal Duty Ratings

Input Voltage	Amps (DC)	Power Rating
400	324…644	188…373 kW
480	311…617	216…426 Hp
600	197…406	171…353 Hp
690	176…380	176…380 kW

Frame 7 PowerFlex 755TM Bus Supply Major Components - Front View



Enclosure is 600 mm (23.6 in.) deep. IP54, UL Type 12 Enclosure Shown.

Item	Description
1	AC precharge section
2	Control pod
3	LCL filter

Item	Description
4	Line side converter
5	Power bay

Frame 7 PowerFlex 755TM Bus Supply IP00 Component Kits

Module or Kit Name	Catalog Number	Qty.	Description
Power Bay (Converter, 800 mm)	—	1	See Cabinet-Level Kits on page 110 for Rittal part number.
Power module (Line side converter)	20-750-MI4-*xnnnxnnn*	1	Power module that is configured as a line side converter. For power module rating and specification information, see Frame 7 Module Selection on page 82.
LCL filter module	20-750-ML4-*xnnnxnnn*	1	LCL module rating and specification information, see Frame 7 Module Selection on page 82.
AC precharge circuit breaker	20-750-MACPCCB-1K0	1	Choose one circuit breaker. For specification and rating information, see AC Precharge Circuit Breaker on page 93.
AC precharge resistors	20-750-MACPR-*xx*-F7M	1	For specification and rating information, see AC Precharge Resistor Banks on page 94.
AC precharge control board	20-750-MACPC1-*xx*-F7M	1	For specification and rating information, see AC Precharge Control Boards on page 127.

Frame 7 PowerFlex 755TM Bus Supply IP00 Component Kits (continued)

Module or Kit Name	Catalog Number	Qty.	Description
Control pod	20-750-MCPOD*n*-F7M	1	For rating, environmental, and weight information, see Control Pod Assemblies on page 117.
Fiber transceiver boards	20-750-MFTB1-F8	2	See Fiber Transceiver Board on page 127.
AC input/output bus bar terminals	20-750-MACIOT-F7M	1	For ratings information, see Frame 7 Bus Bar Kits on page 109.
AC flexible bus input/breaker	20-750-MACINP-F7	1	
AC precharge, circuit breaker bus bars	20-750-MPCCB-F7M	1	
AC output bus bars and fuses	20-750-MACL2-*xx*-F7M	1	
DC output bus bar terminals	20-750-MDCOT-F7M	1	
DC output flexible bus and fuses	20-750-MDCFB-*xx*-F7M	1	
Vent (800 mm wide)	20-750-MVENT*n*-F7M	1	For rating and specification information, see Ventilation Assemblies on page 116. For temperature specification, see Ventilation Kit Temperature Specifications on page 117.
LCL filter and power module mounting bracket	20-750-MMNT1-F7M	1	See Power and LCL Filter Module Floor and Support Brackets on page 116.

Frame 7 PowerFlex 755TM Bus Supply Options

Module or Kit Name	Description
AC common mode cores (20-750-MACCM1-F7M)(1)	For selection information, see AC Common Mode Core on page 107.
Marine discharge board (20-750-MBSCD-DB)	See DC Bus Conditioner on page 105.
Fiber-optic cable for AC precharge control board to pod	See Fiber-optic Cable Kits on page 118.
Fiber-optic cable for power module to pod	
EMC AC input bus (20-750-MEMC-F7M)(1)	See Frame 7 Bus Bar Kits on page 109.
AC output bus bar and fuse, circuit breaker EMC kit (20-750-MACB-EMC-*xx*-F7M)	

(1) Rockwell Automation is evaluating the ability to meet Category C2 compliance. Contact the factory for more information.

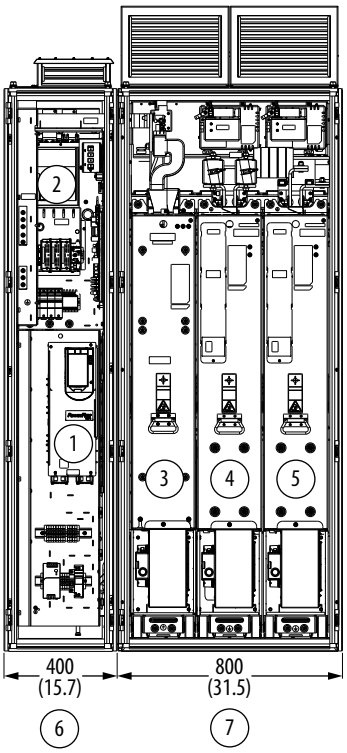
Frame 8 Equivalent PowerFlex 755TL or PowerFlex 755TR Drives

This section provides selection information for frame 8 equivalent PowerFlex 755TL or PowerFlex 755TR drives.

Frame 8 PowerFlex 755TL or 755TR Drives Normal Duty Ratings

Input Voltage	Amps (AC)	Power Rating
400	302…770	160…400 kW
480	302…740	250…650 Hp
600	242…545	250…550 Hp
690	215…505	200…500 kW

Frame 8 PowerFlex 755TL or 755TR Drive Major Components - Front View



Left-to-Right Orientation

Enclosures are 600 mm (23.6 in.) deep. IP54, UL Type 12 Enclosure Shown.

Item	Description
1	Control pod
2	AC precharge module
3	LCL filter
4	Line side converter

Item	Description
5	Motor side inverter
6	Input bay
7	Power bay

Frame 8 PowerFlex 755TL or 755TR Drive IP00 Component Kits

Module or Kit Name	Catalog Number	Qty.	Description
Input Bay (400 mm)	—	1	See Cabinet-Level Kits on page 110 for Rittal part number.
AC precharge module	20-750-MACP-*xx*-F8M	1	For rating, environmental, and weight information, see AC Precharge Modules on page 93.
AC input bus bar/insulator/ bracket	20-750-MCNCTAC-F8	1	See Frame 8…15 AC Input Bus Bars on page 106.
AC input bus bars and fuses	20-750-MACL*n*-F8M	1	For voltage rating, see Frame 8…15 AC Input Link Bus Bar and Fuse Assemblies on page 107.
Control pod[(1)]	20-750-MCPOD*n*-F8M	1	For rating, environmental, and weight information, see Control Pod Assemblies on page 117.

Frame 8 PowerFlex 755TL or 755TR Drive IP00 Component Kits (continued)

Module or Kit Name	Catalog Number	Qty.	Description
Fiber transceiver boards	20-750-MFTB1-F8	2	See Fiber Transceiver Board on page 127
Control bus assembly (400 mm)	20-750-MCBUS1-IB-F8M	1	See Control Bus Assemblies on page 110.
Vent (400 mm wide)	20-750-MVENTC2-F8M	1	For rating and specification information, see Ventilation Assemblies on page 116. For temperature specification, see Ventilation Kit Temperature Specifications on page 117.
Power Bay (Converter, 800 mm)	—	1	See Cabinet-Level Kits on page 110 for Rittal part number.
Power module (Line side converter)	20-750-MI1-*xnnnxnnn*	1	Power module that is configured as a line side converter. For power module rating and specification information, see Frame 8 Module Selection on page 83.
Power module (Motor side inverter)	20-750-MI*n*-*xnnnxnnn*	1	Power module that is configured as a motor side inverter. Base catalog numbers are listed in requirements tables under Frame 8 Module Selection on page 83. For filter options, see Power Modules Options on page 92.
LCL filter module	20-750-ML1-*xnnnxnnn*	1	LCL module rating and specification information, see Frame 8 Module Selection on page 83.
Power and LCL filter module back panel and stab receptacles	20-750-MADR1-F8M	1	For rating and specification information, see Frame 8…15 Stab Receptacle Assemblies and Stab Receptacles with Back Panel and Bus Bars on page 108 to match power module rating.
DC link/fuse assembly	20-750-MDCL2-*xx*-F8M	1	For rating information, see DC Link/Fuse Assemblies on page 104.
DC common mode cores	20-750-MDCCM1-F8M	1	For selection information, see DC Common Mode Core on page 105. DC common mode core assembled on the DC link/fuse assembly if EMC filtering is required.
AC common mode cores	20-750-MACCM1-F8M	1	For selection information, see AC Common Mode Core on page 107. AC common mode core assembled on the LCL filter module if EMC filtering is required.
Control bus assembly (800 mm)	20-750-MCBUS1-PB-F10M	1	See Control Bus Assemblies on page 110.
Control bus connector	20-750-MCTRLBUS-CONN1	3 or 4(2)	See Control Bus Connectors on page 110.
Control bus splice	20-750-MCTRLBUS-SPL	1	See Control Bus Splice on page 110.
Vent (800 mm wide)	20-750-MVENT*n*-F10M	1	For rating and specification information, see Ventilation Assemblies on page 116. For temperature specification, see Ventilation Kit Temperature Specifications on page 117.
Power and LCL filter module mounting brackets	20-750-MMNT1-F10M	1	See Power and LCL Filter Module Floor and Support Brackets on page 116.
Bus support panels, upper	20-750-MIPNL3-F8M	1	See Bus Support and Divider Panels (Right and Left Sides) on page 116.
Bus support panels, lower	20-750-MCPNL1-F8M	1	
Baffle (800 mm)	20-750-MIBAF1-F10M	1	See Baffle Assemblies on page 116.
DC bus conditioner	20-750-MDCBUS-COND, or 20-750-MDCBUS1-COND	>	Quantity based on the ground scheme. See DC Bus Conditioner on page 105.

(1) For frame 8…10 drives, choose either cat. no. 20-750-MCP0D1-F8M (PowerFlex 755TL, low harmonic) or cat. no. 20-750-MCP0D2-F8M (PowerFlex 755TR, regenerative).
(2) A control bus connector is required for each DC link/fuse assembly and a torque accuracy module, when used.

Frame 8 PowerFlex 755TL or 755TR Drive Options

Module or Kit Name	Description
Power / LCL filter module stab receptacle assembly aluminum	See Frame 8…15 Stab Receptacle Assemblies and Stab Receptacles with Back Panel and Bus Bars on page 108.
Power / LCL filter module stab receptacle assembly copper	
Power and LCL filter module back panel and stab receptacles, right-to-left orientation	
AC input bus bars splice (no fuses)	See Frame 8…15 AC Bus Bar Splices on page 107.
AC input bus bars splice, right-to-left orientation	
DC link/fuse assembly, right-to-left orientation	See DC Link/Fuse Assemblies on page 104.
AC bus bars, exit wire bay	See Frame 8…15 AC Bus Bars (Top Cable Exit/Entry Wiring Bay) on page 106.
Bus bar splice for exit wiring bay	See Frame 8…15 AC Bus Bar Splices on page 107.
Bus bar splice for exit wire bay, right-to-left orientation	
Ground bus bar splice	See Ground Bus Bar Splice on page 109.
Bus support panels, exit wire bay	See Bus Support and Divider Panels (Right and Left Sides) on page 116.
Torque accuracy module 400…690V	See Torque Accuracy Modules (TAM) on page 127.

Frame 8 PowerFlex 755TL or 755TR Drive Options

Module or Kit Name	Description
Fiber-optic cable for power module to pod	See Fiber-optic Cable Kits on page 118
Fiber-optic cable for AC precharge to pod	
EMC C2 filter	See EMC C2 Filter Kits on page 127
EMC C2 filter input bus bars	
EMC C2 filter output bus bars	
Seismic-qualified enclosure hardware	See Kits for Seismic-qualified Installations on page 115

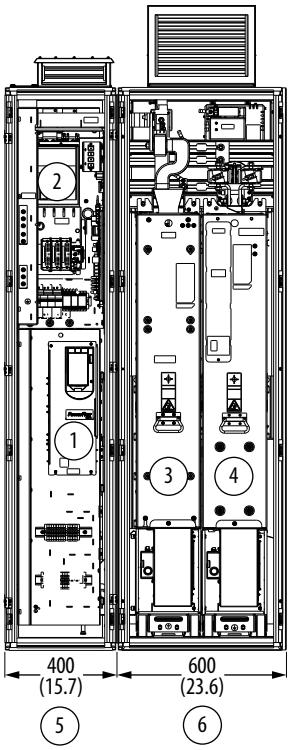
Frame 8 Equivalent PowerFlex 755TM Bus Supplies

This section provides selection information for frame 8 equivalent PowerFlex 755TM bus supplies.

Frame 8 PowerFlex 755TM Bus Supplies Normal Duty Ratings

Input Voltage	Amps (DC)	Power Rating
400	302…770	188….479 kW
480	302…740	216….529 kW
600	242…545	217….487 kW
690	215…505	221….518 kW

Frame 8 PowerFlex 755TM Bus Supply Major Components - Front View



Left-to-Right Orientation

Enclosures are 600 mm (23.6 in.) deep. IP54, UL Type 12 Enclosure Shown.

Item	Description
1	Control pod
2	AC precharge module
3	LCL filter

Item	Description
4	Line side converter
5	Input bay
6	Power bay

Frame 8 PowerFlex 755TM Bus Supply Major IP00 Component Kits

Module or Kit Name	Catalog Number	Qty.	Description
Input Bay (400 mm)	—	1	See Cabinet-Level Kits on page 110 for Rittal part number.
AC precharge module	20-750-MACP-*xx*-F8M	1	For rating, environmental, and weight information, see AC Precharge Modules on page 93.
AC input bus bar/insulator/ bracket	20-750-MCNCTAC-F8	1	See Frame 8…15 AC Input Bus Bars on page 106.
AC input bus bars and fuses	20-750-MACL*n*-F8M	1	For voltage rating, see Frame 8…15 AC Input Link Bus Bar and Fuse Assemblies on page 107.
Control pod(1)	20-750-MCPOD*n*-F8M	1	For rating, environmental, and weight information, see Control Pod Assemblies on page 117.
Fiber transceiver boards	20-750-MFTB1-F8	2	See Fiber Transceiver Board on page 127.
Control bus assembly (400 mm)	20-750-MCBUS1-IB-F8M	1	See Control Bus Assemblies on page 110.
Vent (400 mm wide)	20-750-MVENTC2-F8M	1	For rating and specification information, see Ventilation Assemblies on page 116. For temperature specification, see Ventilation Kit Temperature Specifications on page 117.
Power Bay (Converter, 600 mm)	—	1	See Cabinet-Level Kits on page 110 for Rittal part number.
Power module (Line side converter)	20-750-MI1-*xnnnxnnn*	1	Power module that is configured as a line side converter. For power module rating and specification information, see Frame 8 Module Selection on page 83.
LCL filter module	20-750-ML1-*xnnnxnnn*	1	LCL module rating and specification information, see Frame 8 Module Selection on page 83.
LCL filter and single line side converter back panel and stab receptacles (600 mm wide)	20-750-MACR1-F8M	1	For rating and specification information, see Frame 8…15 Stab Receptacle Assemblies and Stab Receptacles with Back Panel and Bus Bars on page 108 to match power module rating.
DC link/fuse assembly	20-750-MDCL1-*xx*-F8M	1	For rating information, see DC Link/Fuse Assemblies on page 104.
DC common mode cores	20-750-MDCCM1-F8M	1	For selection information, see DC Common Mode Core on page 105. DC common mode core assembled on the DC link/fuse assembly if EMC filtering is required.
AC common mode cores	20-750-MACCM1-F8M	1	For selection information, see AC Common Mode Core on page 107. AC common mode core assembled on the LCL filter module if EMC filtering is required.
DC bus bar (400 mm)	20-750-MDCBUS4-*nxn*	1	For bus material, see Frame 8…15 DC Bus Bars on page 108 table.
DC bus bar (600 mm)	20-750-MDCBUS6-*nxn*	1	
Control bus assembly (600 mm)	20-750-MCBUS1-PB-F9M	1	See Control Bus Assemblies on page 110.
Control bus connector	20-750-MCTRLBUS-CONN1	3	See Control Bus Connectors on page 110.
Control bus splice	20-750-MCTRLBUS-SPL	1	See Control Bus Splice on page 110.
Vent (600 mm)	20-750-MVENT*n*-F9M	1	For rating and specification information, see Ventilation Assemblies on page 116. For temperature specification, see Ventilation Kit Temperature Specifications on page 117.
Power and LCL filter module mounting brackets	20-750-MMNT1-F9M	1	See Power and LCL Filter Module Floor and Support Brackets on page 116.
Bus support panels, upper	20-750-MIPNL3-F8M	1	See Bus Support and Divider Panels (Right and Left Sides) on page 116.
Bus support panels, lower	20-750-MCPNL1-F8M	1	
Baffle (600 mm)	20-750-MIBAF1-F9M	1	See Baffle Assemblies on page 116.
DC bus conditioner	20-750-MDCBUS-COND, or 20-750-MDCBUS1-COND	>	Quantity based on the ground scheme. See DC Bus Conditioner on page 105.

(1) For frame 8…10 drives, choose either cat. no. 20-750-MCPOD1-F8M (PowerFlex 755TL, low harmonic) or cat. no. 20-750-MCPOD2-F8M (PowerFlex 755TR, regenerative).

Frame 8 PowerFlex 755TM Bus Supply Options

Module or Kit Name	Description
Power / LCL filter module stab receptacle assembly aluminum	See Frame 8…15 Stab Receptacle Assemblies and Stab Receptacles with Back Panel and Bus Bars on page 108.
Power / LCL filter module stab receptacle assembly copper	
LCL filter and single line side converter back panel and stab receptacles (600 mm wide), right-to-left orientation	
AC input bus bars splice (no fuses)	See Frame 8…15 AC Bus Bar Splices on page 107.
AC input bus bars splice, right-to-left orientation	
DC link/fuse assembly, right-to-left orientation	See DC Link/Fuse Assemblies on page 104.

Frame 8 PowerFlex 755TM Bus Supply Options (continued)

Module or Kit Name	Description
Fiber-optic cable for power module to pod	See Fiber-optic Cable Kits on page 118.
Fiber-optic cable for AC precharge to pod	
EMC C2 filter	See EMC C2 Filter Kits on page 127.
EMC C2 filter input bus bars	
EMC C2 filter output bus bars	
Seismic-qualified enclosure hardware	See Kits for Seismic-qualified Installations on page 115.

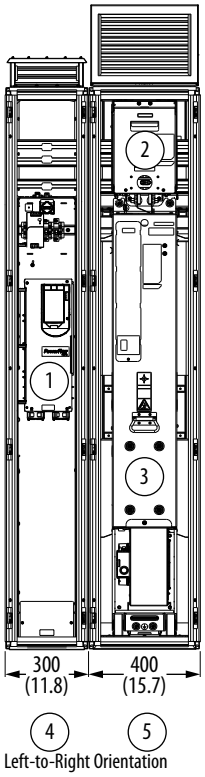
Frame 8 Equivalent PowerFlex 755TM Common Bus Inverters (CBI)

This section provides selection information for frame 8 equivalent PowerFlex 755TM common bus inverters.

Frame 8 PowerFlex 755TM Common Bus Inverters Normal Duty Ratings

Input Voltage	Amps (AC)	Power Rating
400	302…770	160…400 kW
480	302…740	250…650 Hp
600	242…545	250…550 Hp
690	215…505	200…500 kW

Frame 8 PowerFlex 755TM Common Bus Inverter Major Components - Front View



Left-to-Right Orientation

Enclosures are 600 mm (23.6 in.) deep. IP54, UL Type 12 Enclosure Shown.

Item	Description
1	Control pod
2	DC precharge module
3	Motor side inverter

Item	Description
4	Control bay
5	Power bay

Frame 8 PowerFlex 755TM Common Bus Inverter IP00 Component Kits

Module or Kit Name	Catalog Number	Qty.	Description
Control Bay (300 mm)	—	1	See Cabinet-Level Kits on page 110 for Rittal part number.
Control pod	20-750-MCPOD1-F8M	1 or 2[(1)]	For specification and rating information, see Control Pod Assemblies on page 117.
Fiber transceiver boards	20-750-MFTB1-F8	1 or 2[(2)]	See Fiber Transceiver Board on page 127.
DC bus bar (300 mm)	20-750-MDCBUS3-*n*K*n*	1	For specification and rating information, see Frame 8…15 DC Bus Bars on page 108.
Control bus assembly (300 mm)	20-750-MCBUS1-CB-F8M	1	See Control Bus Assemblies on page 110.
Vent (300 mm wide)	20-750-MVENTC2-F8M	1	For specification and rating information, see Ventilation Assemblies on page 116.
Power Bay (Inverter, 400 mm)	—	1	See Cabinet-Level Kits on page 110 for Rittal part number.
Power module (Motor side inverter)	20-750-MI1-*nxxxnxxx*	1	Power module that is configured as a motor side inverter. For specification and rating information, see Frame 8 Module Selection on page 83.
Single motor side inverter back panel and stab receptacles (400 mm wide)	20-750-MIR1-F8M	1	For specification and rating information, see Frame 8…15 Stab Receptacle Assemblies and Stab Receptacles with Back Panel and Bus Bars on page 108 to match power module rating.
DC link/fuse assembly	20-750-MDCL1-*xx*-F8M	1	For rating information, see DC Link/Fuse Assemblies on page 104. Not required if a DC precharge module is used.
DC precharge module (optional)	20-750-MDCP*n*-*xx*-F8M	1	For specification and rating information, see DC Precharge Modules on page 104.
DC common mode cores	20-750-MDCCM1-F8M	1	For selection information, see DC Common Mode Core on page 105. DC common mode core assembled on the DC link/fuse assembly if EMC filtering is required.
DC bus bar (400 mm)	20-750-MDCBUS4-*n*K*n*	1	For specification and rating information, see Frame 8…15 DC Bus Bars on page 108.
DC bus splice	20-750-MDCSPL1-*n*K*n*	1	For splice material, see Frame 8…15 DC Bus Bar Splices on page 108.
Control bus assembly (400 mm)	20-750-MCBUS1-IB-F8M	1	See Control Bus Assemblies on page 110.
Control bus connector	20-750-MCTRLBUS-CONN1	1 or 2[(3)]	See Control Bus Connectors on page 110.
Control bus splice	20-750-MCTRLBUS-SPL	1	See Control Bus Splice on page 110.
Vent (400 mm wide)	20-750-MVENT*n*-F8M	1	For specification and rating information, see Ventilation Assemblies on page 116.
Power module mounting bracket	20-750-MMNT1-F8M	1	See Power and LCL Filter Module Floor and Support Brackets on page 116.
Bus support side panels, upper and lower	20-750-MIPNL2-F8M	1	See Bus Support and Divider Panels (Right and Left Sides) on page 116.
Baffle (400 mm)	20-750-MIBAF1-F10M	1	See Baffle Assemblies on page 116.

(1) A second control pod can be installed in the control bay when two common bus inverters are installed, side-by-side.
(2) Two fiber transceiver boards are required when a torque accuracy module is used.
(3) A control bus connector is required for the DC link/fuse assembly and torque accuracy module, when used.

Frame 8 PowerFlex 755TM Common Bus Inverter Options

Module or Kit Name	Description
Power / LCL filter module stab receptacle assembly aluminum	See Frame 8…15 Stab Receptacle Assemblies and Stab Receptacles with Back Panel and Bus Bars on page 108.
Power / LCL filter module stab receptacle assembly copper	
AC bus bars, exit wire bay	See Frame 8…15 AC Bus Bars (Top Cable Exit/Entry Wiring Bay) on page 106.
Bus bar splice for exit wiring bay	See Frame 8…15 AC Bus Bar Splices on page 107.
Bus bar splice for exit wire bay, right-to-left orientation	
Ground bus bar splice	See Ground Bus Bar Splice on page 109.
Bus support panels, exit wire bay	See Bus Support and Divider Panels (Right and Left Sides) on page 116.
Torque accuracy module 400…690V	See Torque Accuracy Modules (TAM) on page 127.
Fiber-optic cable for power module to pod	See Fiber-optic Cable Kits on page 118.
Fiber-optic cable for AC precharge to pod	
Seismic-qualified enclosure hardware	See Kits for Seismic-qualified Installations on page 115.

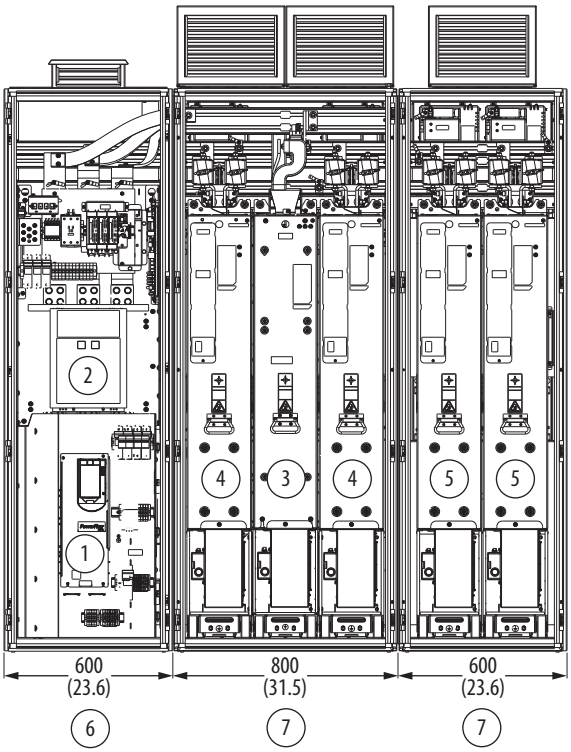
Frame 9 Equivalent PowerFlex 755TL or PowerFlex 755TR Drives

This section provides selection information for frame 9 equivalent PowerFlex 755TL or PowerFlex 755TR drives.

Frame 9 PowerFlex 755TL or TR Drives Normal Duty Ratings

Input Voltage	Amps (AC)	Power Rating
400	920…1465	500…800 kW
480	800…1365	700…1100 Hp
600	595…980	600…1000 Hp
690	565 …920	560…900 kW

Frame 9 PowerFlex 755TL or 755TR Drive Major Components - Front View



Left-to-Right Orientation

Enclosures are 600 mm (23.6 in.) deep. IP54, UL Type 12 Enclosure Shown.

Item	Description
1	Control pod
2	AC precharge module
3	LCL filter
4	Line side converter

Item	Description
5	Motor side inverter
6	Input bay
7	Power bay

Frame 9 PowerFlex 755TL or 755TR Drive IP00 Component Kits

Module or Kit Name	Catalog Number	Qty.	Description
Input Bay (600 mm)	—	1	See Cabinet-Level Kits on page 110 for Rittal part number.
AC precharge module	20-750-MACP-xx-F9M	1	For specification and rating information, see AC Precharge Modules on page 93.
Control pod[(1)]	20-750-MCPOD*n*-F8M	1	For specification and rating information, see Control Pod Assemblies on page 117.
Fiber transceiver boards	20-750-MFTB1-F8	3	See Fiber Transceiver Board on page 127.
Control bus assembly (600 mm)	20-750-MCBUS1-IB-F9M	1	See Control Bus Assemblies on page 110.

Frame 9 PowerFlex 755TL or 755TR Drive IP00 Component Kits (continued)

Module or Kit Name	Catalog Number	Qty.	Description
AC bus bar splice	20-750-MACSPL2-F9M	1	For splice material, see Frame 8…15 AC Bus Bar Splices on page 107.
Vent	20-750-MVENTC2-F8M	2	For specification and rating information, see Ventilation Assemblies on page 116.
Power Bay (Converter, 800 mm)	—	1	See Cabinet-Level Kits on page 110 for Rittal part number.
Power module (Line side converter)	20-750-MI2-*xnnnxnnn*	2	Power module that is configured as a line side converter. For specification and rating information, see Frame 9 Module Selection on page 85.
LCL filter module	20-750-ML1-*xnnnxnnn*	1	For specification and rating information, see Frame 9 Module Selection on page 85.
LCL filter, line side converter, and motor side inverter back panel and stab receptacles (800 mm)	20-750-MACR1-F9M	1	For specification and rating information, see Frame 8…15 Stab Receptacle Assemblies and Stab Receptacles with Back Panel and Bus Bars on page 108 to match power module rating.
DC link/fuse assembly	20-750-MDCL1-*xx*-F8M	2	For rating information, see DC Link/Fuse Assemblies on page 104.
DC common mode cores	20-750-MDCCM1-F8M	2	For selection information, see DC Common Mode Core on page 105. DC common mode core assembled on the DC link/fuse assembly if EMC filtering is required.
AC input bus bar and fuses	20-750-MACL*x*-F9M	1	For specification and rating information, see Frame 8…15 AC Input Link Bus Bar and Fuse Assemblies on page 107.
AC common mode cores	20-750-MACCM1-F8M	1	For selection information, see AC Common Mode Core on page 107. AC common mode core assembled on the LCL filter module if EMC filtering is required.
DC bus bar (800 mm)	20-750-MDCBUS8-*n*K*n*	1	For bus material, see Frame 8…15 DC Bus Bars on page 108.
AC bus bar (800 mm)	20-750-MACBUS8-*n*K*n*	1	For bus material, see Frame 8…15 AC Input Bus Bars on page 106.
Control bus assembly (800 mm)	20-750-MCBUS1-PB-F10M	1	See Control Bus Assemblies on page 110.
Control bus connector	20-750-MCTRLBUS-CONN1	3	See Control Bus Connectors on page 110.
Vent (800 mm)	20-750-MVENT*n*-F10M	1	For specification and rating information, see Ventilation Assemblies on page 116.
Power and LCL filter module mounting brackets	20-750-MMNT1-F10M	1	See Power and LCL Filter Module Floor and Support Brackets on page 116.
Bus support panels, upper	20-750-MIPNL1-F8M	1	See Bus Support and Divider Panels (Right and Left Sides) on page 116.
Bus support panels, lower	20-750-MCPNL1-F8M	1	
Baffle (800 mm)	20-750-MIBAF1-F10M	1	See Baffle Assemblies on page 116.
Power Bay (Inverter, 600 mm)	—	1	See Cabinet-Level Kits on page 110 for Rittal part number.
Power module (Motor side inverter)	20-750-MI*n*-*xnnnxnnn*	2	Power module that is configured as a motor side inverter. Base catalog numbers are listed in requirements tables under Frame 9 Module Selection on page 85. For specification and rating information, see Power Modules Options on page 92.
Inverter back panel and stab receptacles (600 mm)	20-750-MIR1-F9M	1	For specification and rating information, see Frame 8…15 Stab Receptacle Assemblies and Stab Receptacles with Back Panel and Bus Bars on page 108 to match power module rating.
DC link/fuse assembly	20-750-MDCL1-*xx*-F8M	2	For rating information, see DC Link/Fuse Assemblies on page 104.
DC common mode cores	20-750-MDCCM1-F8M	2	For selection information, see DC Common Mode Core on page 105. DC common mode core assembled on the DC link/fuse assembly if EMC filtering is required.
DC bus bar (600 mm)	20-750-MDCBUS6-*n*K*n*	1	For bus material, see Frame 8…15 DC Bus Bars on page 108.
Control bus assembly (600 mm)	20-750-MCBUS1-PB-F9M	1	See Control Bus Assemblies on page 110.
Control bus connector	20-750-MCTRLBUS-CONN1	2 or 3[(2)]	See Control Bus Connectors on page 110.
Vent (600 mm)	20-750-MVENT*n*-F9M	1	For specification and rating information, see Ventilation Assemblies on page 116.
Power and LCL filter module mounting brackets	20-750-MMNT1-F9M	1	See Power and LCL Filter Module Floor and Support Brackets on page 116.
Bus support panels, upper and lower	20-750-MIPNL2-F8M	1	See Bus Support and Divider Panels (Right and Left Sides) on page 116.
Baffle (600 mm)	20-750-MIBAF1-F9M	1	See Baffle Assemblies on page 116.
Additional Kits			
DC bus bar splice	20-750-MDCSPL1-3K0	1	For splice material, see Frame 8…15 DC Bus Bar Splices on page 108.
Ground bus bar splice	20-750-MGNDSPL1	1	See Ground Bus Bar Splice on page 109.
Control bus splice	20-750-MCTRLBUS-SPL	2	See Control Bus Splice on page 110.
DC bus conditioner	20-750-MDCBUS-COND, or 20-750-MDCBUS1-COND	>	Quantity based on the ground scheme. See DC Bus Conditioner on page 105.

(1) For frame 8…10 drives, choose either cat. no. 20-750-MCPOD1-F8M (PowerFlex 755TL, low harmonic) or cat. no. 20-750-MCPOD2-F8M (PowerFlex 755TR, regenerative).
(2) A control bus connector is required for each DC link/fuse assembly and a torque accuracy module, when used.

Frame 9 PowerFlex 755TL or 755TR Drive Options

Module or Kit Name	Description
Power / LCL filter module stab receptacle assembly aluminum	See Frame 8…15 Stab Receptacle Assemblies and Stab Receptacles with Back Panel and Bus Bars on page 108.
Power / LCL filter module stab receptacle assembly copper	
AC input bus bar splice, right-to-left orientation	See Frame 8…15 AC Bus Bar Splices on page 107.
AC bus bars, exit wire bay	See Frame 8…15 AC Bus Bars (Top Cable Exit/Entry Wiring Bay) on page 106.
Bus bar splice for exit wiring bay	See Frame 8…15 AC Bus Bar Splices on page 107.
Bus bar splice for exit wire bay, right-to-left orientation	
Bus support panels, exit wire bay	See Bus Support and Divider Panels (Right and Left Sides) on page 116.
Torque accuracy module 400…690V	See Torque Accuracy Modules (TAM) on page 127.
Fiber-optic cable for power module to pod	See Fiber-optic Cable Kits on page 118.
Fiber-optic cable for AC precharge to pod	
EMC C2 filter	See EMC C2 Filter Kits on page 127.
EMC C2 filter input bus bars	
EMC C2 filter output bus bars	
Seismic-qualified enclosure hardware	See Kits for Seismic-qualified Installations on page 115.

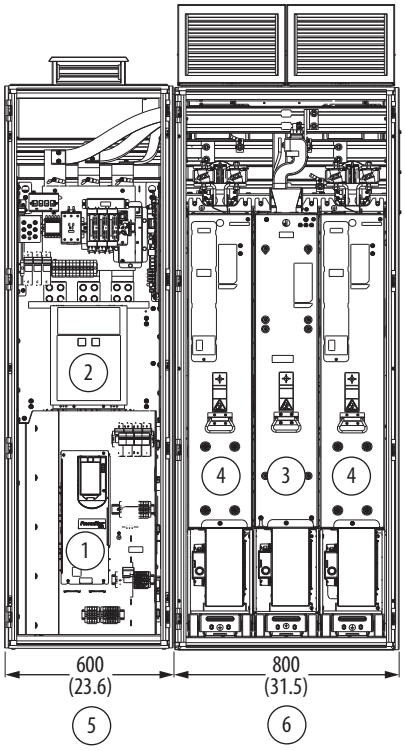
Frame 9 Equivalent PowerFlex 755TM Bus Supplies

This section provides selection information for frame 9 equivalent PowerFlex 755TM bus supplies.

Frame 9 PowerFlex 755TM Bus Supplies Normal Duty Ratings

Input Voltage	Amps (DC)	Power Rating
400	920 … 1570	572…910 kW
480	800…1404	573…977 kW
600	595…980	518…877 kW
690	565 ….920	580…944 kW

Frame 9 PowerFlex 755TM Bus Supply Major Components - Front View



Left-to-Right Orientation

Enclosures are 600 mm (23.6 in.) deep. IP54, UL Type 12 Enclosure Shown.

Item	Description
1	Control pod
2	AC precharge module
3	LCL filter

Item	Description
4	Line side converter
5	Input bay
6	Power bay

Frame 9 PowerFlex 755TM Bus Supply IP00 Component Kits

Module or Kit Name	Catalog Number	Qty.	Description
Input Bay (600 mm)	—	1	See Cabinet-Level Kits on page 110 for Rittal part number.
AC precharge module	20-750-MACP-xx-F9M	1	For specification and rating information, see AC Precharge Modules on page 93.
Control pod[(1)]	20-750-MCPOD*n*-F8M	1	For specification and rating information, see Control Pod Assemblies on page 117.
Fiber transceiver boards	20-750-MFTB1-F8	3	See Fiber Transceiver Board on page 127.
Control bus assembly (600 mm)	20-750-MCBUS1-IB-F9M	1	See Control Bus Assemblies on page 110.
AC bus bar splice	20-750-MACSPL2-F9M	1	For splice material, see Frame 8…15 AC Bus Bar Splices on page 107.
Vent, input bay	20-750-MVENTC2-F8M	2	For specification and rating information, see Ventilation Assemblies on page 116.

Frame 9 PowerFlex 755TM Bus Supply IP00 Component Kits (continued)

Module or Kit Name	Catalog Number	Qty.	Description
Power Bay (Converter, 800 mm)	—	1	See Cabinet-Level Kits on page 110 for Rittal part number.
Power module (Line side converter)	20-750-MI2-*xnnnxnnn*	2	Power module that is configured as a line side converter. For specification and rating information, see Frame 9 Module Selection on page 85.
LCL filter module	20-750-ML1-*xnnnxnnn*	1	For specification and rating information, see Frame 9 Module Selection on page 85.
LCL filter and two line side converters back panel and stab receptacles (800 mm)	20-750-MACR1-F9M	1	For specification and rating information, see Frame 8…15 Stab Receptacle Assemblies and Stab Receptacles with Back Panel and Bus Bars on page 108 to match power module rating.
DC link/fuse assembly	20-750-MDCL1-*xx*-F8M	2	For rating information, see DC Link/Fuse Assemblies on page 104.
DC common mode cores	20-750-MDCCM1-F8M	2	For selection information, see DC Common Mode Core on page 105. DC common mode core assembled on the DC link/fuse assembly if EMC filtering is required.
AC input bus bar and fuses	20-750-MACL*x*-F9M	1	For specification and rating information, see Frame 8…15 AC Input Link Bus Bar and Fuse Assemblies on page 107.
AC common mode cores	20-750-MACCM1-F8M	1	For selection information, see AC Common Mode Core on page 107. AC common mode core assembled on the LCL filter module if EMC filtering is required.
DC bus bar (600 mm)	20-750-MDCBUS6-*nK*n	1	For specification and rating information, see Frame 8…15 DC Bus Bars on page 108.
DC bus bar (800 mm)	20-750-MDCBUS8-*nK*n	1	
DC bus bar splice	20-750-MDCSPL1-3K0	1	For specification and rating information, see Frame 8…15 DC Bus Bar Splices on page 108.
AC bus bar (800 mm)	20-750-MACBUS8-*nK*n	1	For specification and rating information, see Frame 8…15 AC Input Bus Bars on page 106.
Control bus assembly (800 mm)	20-750-MCBUS1-PB-F10M	1	See Control Bus Assemblies on page 110.
Control bus connector	20-750-MCTRLBUS-CONN1	4	See Control Bus Connectors on page 110.
Control bus splice	20-750-MCTRLBUS-SPL	1	See Control Bus Splice on page 110.
Vent (800 mm)	20-750-MVENT*n*-F10M	1	For specification and rating information, see Ventilation Assemblies on page 116.
Power and LCL filter module mounting bracket	20-750-MMNT1-F10M	1	See Power and LCL Filter Module Floor and Support Brackets on page 116.
Bus support panels, upper	20-750-MIPNL1-F8M	1	See Bus Support and Divider Panels (Right and Left Sides) on page 116.
Bus support panels, lower	20-750-MCPNL1-F8M	1	
Baffle (800 mm)	20-750-MIBAF1-F10M	1	See Baffle Assemblies on page 116.

(1) For frame 8…10 drives, choose either cat. no. 20-750-MCPOD1-F8M (PowerFlex 755TL, low harmonic) or cat. no. 20-750-MCPOD2-F8M (PowerFlex 755TR, regenerative).

Frame 9 PowerFlex 755TM Bus Supply Options

Module or Kit Name	Description
Power / LCL filter module stab receptacle assembly aluminum	See Frame 8…15 Stab Receptacle Assemblies and Stab Receptacles with Back Panel and Bus Bars on page 108.
Power / LCL filter module stab receptacle assembly copper	
Fiber-optic cable for power module to pod	See Fiber-optic Cable Kits on page 118.
Fiber-optic cable for AC precharge to pod	
EMC C2 filter	See EMC C2 Filter Kits on page 127.
EMC C2 filter input bus bars	
EMC C2 filter output bus bars	
Seismic-qualified enclosure hardware	See Kits for Seismic-qualified Installations on page 115.

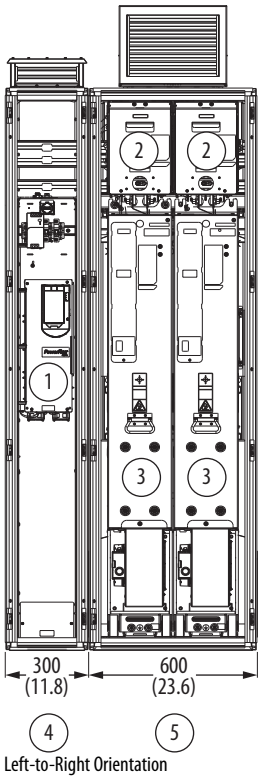
Frame 9 Equivalent PowerFlex 755TM Common Bus Inverters (CBI)

This section provides selection information for frame 9 equivalent PowerFlex 755TM common bus inverters.

Frame 9 PowerFlex 755TM Common Bus Inverters Normal Duty Ratings

Input Voltage	Amps (AC)	Power Rating
400	920…1465	500…800 kW
480	800…1365	700…1100 Hp
600	595…980	600…1000 Hp
690	565 …920	560…900 kW

Frame 9 PowerFlex 755TM Common Bus Inverter Major Components - Front View



Left-to-Right Orientation

Enclosures are 600 mm (23.6 in.) deep. IP54, UL Type 12 Enclosure Shown.

Item	Description
1	Control pod
2	DC precharge module
3	Motor side inverter

Item	Description
4	Control bay
5	Power bay

Frame 9 PowerFlex 755TM Common Bus Inverter IP00 Component Kits

Module or Kit Name	Catalog Number	Qty.	Description
Control Bay (300 mm)	—	1	See Cabinet-Level Kits on page 110 for Rittal part number.
Control pod	20-750-MCPOD1-F8M	1	For specification and rating information, see Control Pod Assemblies on page 117.
Fiber transceiver boards	20-750-MFTB1-F8	2 or 3[(1)]	See Fiber Transceiver Board on page 127.
DC bus bar (300 mm)	20-750-MDCBUS3-*nKn*	1	For specification and rating information, see Frame 8…15 DC Bus Bars on page 108.
Control bus assembly (300 mm)	20-750-MCBUS1-CB-F8M	1	See Control Bus Assemblies on page 110.
Vent (300 mm)	20-750-MVENTC2-F8M	1	For specification and rating information, see Ventilation Assemblies on page 116.

Frame 9 PowerFlex 755TM Common Bus Inverter IP00 Component Kits (continued)

Module or Kit Name	Catalog Number	Qty.	Description
Power Bay (Inverter, 600 mm)	—	1	See Cabinet-Level Kits on page 110 for Rittal part number.
Power module (motor side inverter)	20-750-MI*n*-*xnnnxnnn*	2	Power module that is configured as a motor side inverter. For specification and rating information, see Frame 9 Module Selection on page 85.
Inverter back panel and stab receptacles (600 mm)	20-750-MIR*n*-F9M	1	For specification and rating information, see Frame 8…15 Stab Receptacle Assemblies and Stab Receptacles with Back Panel and Bus Bars on page 108 to match power module rating.
DC link/fuse assembly	20-750-MDCL1-*xx*-F8M	2	For rating information, see DC Link/Fuse Assemblies on page 104. Not required if DC precharge modules are used.
DC precharge module (optional)	20-750-MDCP*n*-*xx*-F8M	2	For specification and rating information, see DC Precharge Modules on page 104.
DC common mode cores	20-750-MDCCM1-F8M	2	For selection information, see DC Common Mode Core on page 105. DC common mode core assembled on the DC link/fuse assembly if EMC filtering is required.
DC bus bar (600 mm)	20-750-MDCBUS6-*n*K*n*	1	For specification and rating information, see Frame 8…15 DC Bus Bars on page 108.
DC bus splice	20-750-MDCSPL1-3K0	1	For splice material, see Frame 8…15 DC Bus Bar Splices on page 108.
Control bus assembly (600 mm)	20-750-MCBUS1-PB-F9M	1	See Control Bus Assemblies on page 110.
Control bus connector	20-750-MCTRLBUS-CONN1	2 or 3(2)	See Control Bus Connectors on page 110.
Control bus splice	20-750-MCTRLBUS-SPL	1	See Control Bus Splice on page 110.
Vent (600 mm)	20-750-MVENT*x*-F9M	1	For specification and rating information, see Ventilation Assemblies on page 116.
Power module mounting bracket	20-750-MMNT1-F9M	1	See Power and LCL Filter Module Floor and Support Brackets on page 116.
Bus support side panels, upper and lower	20-750-MIPNL2-F8M	1	See Bus Support and Divider Panels (Right and Left Sides) on page 116.
Baffle (600 mm)	20-750-MIBAF1-F9M	1	See Baffle Assemblies on page 116.

(1) Three fiber transceiver boards are required when a torque accuracy module is used.
(2) A control bus connector is required for each DC link/fuse assembly and a torque accuracy module, when used.

Frame 9 PowerFlex 755TM Common Bus Inverter Options

Module or Kit Name	Description
Power / LCL filter module stab receptacle assembly aluminum	See Frame 8…15 Stab Receptacle Assemblies and Stab Receptacles with Back Panel and Bus Bars on page 108.
Power / LCL filter module stab receptacle assembly copper	
AC bus bars, exit wire bay	See Frame 8…15 AC Bus Bars (Top Cable Exit/Entry Wiring Bay) on page 106.
Bus bar splice for exit wiring bay	See Frame 8…15 AC Bus Bar Splices on page 107.
Bus bar splice for exit wire bay, right-to-left orientation	
Bus support panels, exit wire bay	See Bus Support and Divider Panels (Right and Left Sides) on page 116.
Torque accuracy module 400…690V	See Torque Accuracy Modules (TAM) on page 127.
Fiber-optic cable for power module to pod	See Fiber-optic Cable Kits on page 118.
Fiber-optic cable for AC precharge to pod	
Seismic-qualified enclosure hardware	See Kits for Seismic-qualified Installations on page 115.

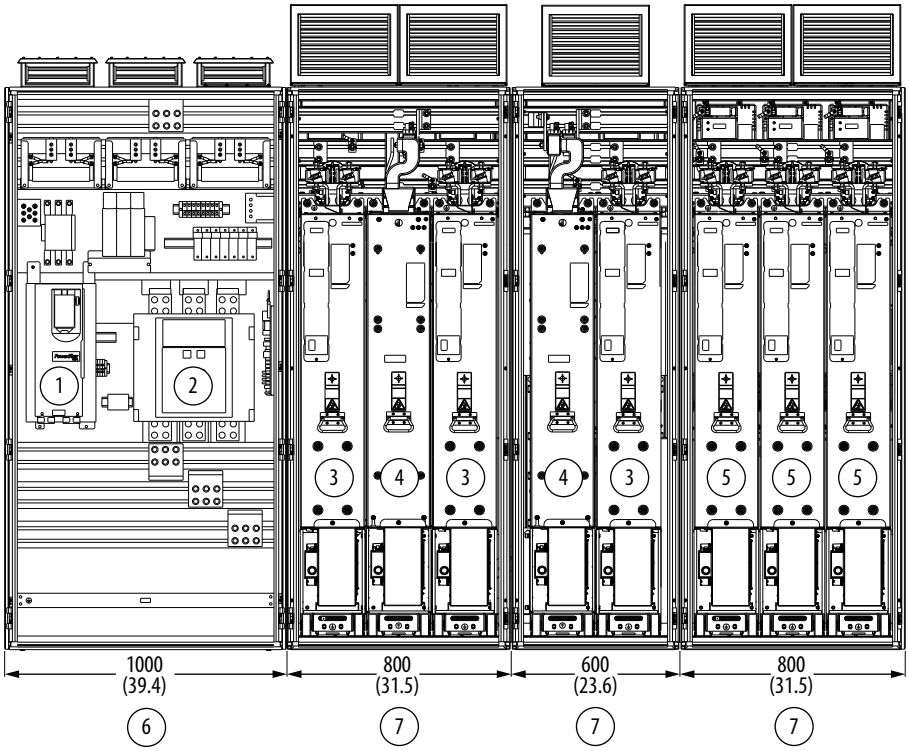
Frame 10 Equivalent PowerFlex 755TL or PowerFlex 755TR Drives

This section provides selection information for frame 10 equivalent PowerFlex 755TL or PowerFlex 755TR drives.

Frame 10 PowerFlex 755TL or TR Drives Normal Duty Ratings

Input Voltage	Amps (AC)	Power Rating
400	1590 . . . 2156	850. . . 1250 kW
480	1420 . . . 2072	1250. . . 1800 Hp
600	1045. . . 1430	1100. . . 1500 Hp
690	1030. . . 1419	1100. . . 1500 kW

Frame 10 PowerFlex 755TL or 755TR Drive Major Components - Front View



Left-to-Right Orientation

Enclosures are 600 mm (23.6 in.) deep. IP54, UL Type 12 Enclosure Shown.

Item	Description
1	Control pod
2	AC precharge section
3	Line side converter
4	LCL filter

Item	Description
5	Motor side inverter
6	Input bay
7	Power bay

Frame 10 PowerFlex 755TL or 755TR Drive IP00 Component Kits

Module or Kit Name	Catalog Number	Qty.	Description
Input Bay (1000 mm)	—	1	See Cabinet-Level Kits on page 110 for Rittal part number.
AC precharge circuit breaker	20-750-MACPCCB-*x*-2K0	1	Choose one circuit breaker. For specification and rating information, see AC Precharge Circuit Breaker on page 93.
	20-750-MACPCCB-CDE-3K0	1	
AC precharge circuit breaker bus bars	20-750-MCBBUS1-*nxn*	1	For specification and rating information, see Frame 10. . . 15 AC Precharge Circuit Breaker Bus Bars on page 107.
AC precharge control board	20-750-MACPC1-*xx*	1	For specification and rating information, see AC Precharge Control Boards on page 127.

Frame 10 PowerFlex 755TL or 755TR Drive IP00 Component Kits (continued)

Module or Kit Name	Catalog Number	Qty.	Description
AC precharge resistor bank	20-750-MACPR-*xx*-F10M	3	For specification and rating information, see AC Precharge Resistor Banks on page 94.
AC precharge TVSS module	20-750-MACP-*xx*-TVSS	1	For specification and rating information, see TVSS Modules on page 106.
AC precharge time delay relay	20-750-MACPC-TDR	1	For specification and rating information, see AC Precharge Time Delay Relay on page 94.
Circuit breaker mounting panels	20-750-MIBPNL2-F*nn*M	1	For specification and rating information, see Circuit Breaker Mounting Panels on page 116.
Control pod[(1)]	20-750-MCPOD*n*-F8M	1	For specification and rating information, see Control Pod Assemblies on page 117.
Fiber transceiver boards	20-750-MFTB1-F8	5	See Fiber Transceiver Board on page 127.
AC bus bar (1000 mm)	20-750-MACBUS10-*nKn*	2	For bus material, see Frame 8…15 AC Input Bus Bars on page 106.
Control bus assembly (1000 mm)	20-750-MCBUS1-IB-F10M	1	See Control Bus Assemblies on page 110.
Control bus connector	20-750-MCTRLBUS-CONN2	1	See Control Bus Connectors on page 110.
Vent (1000 mm)	20-750-MVENTC*n*-F11M	1	For specification and rating information, see Ventilation Assemblies on page 116.
Bus support panels, lower (1000 mm)	20-750-MIBPNL1-F10M	1	See Bus Support and Divider Panels (Right and Left Sides) on page 116.
Power Bay (Converter, 800 mm)	—	1	See Cabinet-Level Kits on page 110 for Rittal part number.
Power module (Line side converter)	20-750-MI2-*xnnnxnnn*	2	Power module that is configured as a line side converter. For specification and rating information, see Frame 10 Module Selection on page 86.
LCL filter module	20-750-ML1-*xnnnxnnn*	1	For specification and rating information, see Frame 10 Module Selection on page 86.
LCL filter and two line side converters back panel and stab receptacles (800 mm)	20-750-MACR1-F9M	1	For specification and rating information, see Frame 8…15 Stab Receptacle Assemblies and Stab Receptacles with Back Panel and Bus Bars on page 108 to match power module rating.
DC link/fuse assembly	20-750-MDCL1-*xx*-F8M	2	For rating information, see DC Link/Fuse Assemblies on page 104.
DC common mode cores	20-750-MDCCM1-F8M	2	For selection information, see DC Common Mode Core on page 105. DC common mode core assembled on the DC link/fuse assembly if EMC filtering is required.
AC input bus bars and fuses	20-750-MACL*n*-F9M	1	For specification and rating information, see Frame 8…15 AC Input Link Bus Bar and Fuse Assemblies on page 107.
AC common mode cores	20-750-MACCM1-F8M	1	For selection information, see AC Common Mode Core on page 107. AC common mode core assembled on the LCL filter module if EMC filtering is required.
DC bus bar (800 mm)	20-750-MDCBUS8-*nKn*	1	For specification and rating information, see Frame 8…15 DC Bus Bars on page 108.
AC bus bar (800 mm)	20-750-MACBUS8-*nKn*	1	For bus material, see Frame 8…15 AC Input Bus Bars on page 106.
Control bus assembly (800 mm)	20-750-MCBUS1-PB-F10M	1	See Control Bus Assemblies on page 110.
Control bus connector	20-750-MCTRLBUS-CONN1	3	See Control Bus Connectors on page 110.
Vent (800 mm)	20-750-MVENT*n*-F10M	1	For specification and rating information, see Ventilation Assemblies on page 116.
Power and LCL filter module mounting (800 mm)	20-750-MMNT1-F10M	1	See Power and LCL Filter Module Floor and Support Brackets on page 116.
Bus support panels, upper	20-750-MIPNL1-F8M	1	See Bus Support and Divider Panels (Right and Left Sides) on page 116.
Bus support panels, lower	20-750-MCPNL1-F8M	1	
Baffle (800 mm)	20-750-MIBAF1-F10M	1	See Baffle Assemblies on page 116
Power Bay (Converter, 600 mm)	—	1	See Cabinet-Level Kits on page 110 for Rittal part number.
Power module (Line side converter)	20-750-MI2-*xnnnxnnn*	1	Power module that is configured as a line side converter. For specification and rating information, see Frame 10 Module Selection on page 86.
LCL filter module	20-750-ML1-*xnnnxnnn*	1	For specification and rating information, see Frame 10 Module Selection on page 86.
LCL filter and one line side converter back panel and stab receptacles (600 mm)	20-750-MACR1-F8M	1	For specification and rating information, see Frame 8…15 Stab Receptacle Assemblies and Stab Receptacles with Back Panel and Bus Bars on page 108 to match power module rating.
DC link/fuse assembly	20-750-MDCL1-*xx*-F8M	1	For rating information, see DC Link/Fuse Assemblies on page 104.
DC common mode cores	20-750-MDCCM1-F8M	1	For selection information, see DC Common Mode Core on page 105. DC common mode core assembled on the DC link/fuse assembly if EMC filtering is required.
AC input bus bars and fuses	20-750-MACL*n*-F9M	1	For specification and rating information, see Frame 8…15 AC Input Link Bus Bar and Fuse Assemblies on page 107.
AC common mode cores	20-750-MACCM1-F8M	1	For selection information, see AC Common Mode Core on page 107. AC common mode core assembled on the LCL filter module if EMC filtering is required.
DC bus bar (600 mm)	20-750-MDCBUS6-*nKn*	1	For specification and rating information, see Frame 8…15 DC Bus Bars on page 108.

Frame 10 PowerFlex 755TL or 755TR Drive IP00 Component Kits (continued)

Module or Kit Name	Catalog Number	Qty.	Description
AC bus bar (600 mm)	20-750-MACBUS6-*nKn*	1	For bus material, see Frame 8…15 AC Input Bus Bars on page 106.
Control bus assembly (600 mm)	20-750-MCBUS1-PB-F9M	1	See Control Bus Assemblies on page 110.
Control bus connector	20-750-MCTRLBUS-CONN1	2	See Control Bus Connectors on page 110.
Vent (600 mm)	20-750-MVENT*n*-F9M	1	For specification and rating information, see Ventilation Assemblies on page 116.
Power and LCL filter module mounting (600 mm)	20-750-MMNT1-F9M	1	See Power and LCL Filter Module Floor and Support Brackets on page 116.
Bus support panels, upper and lower (inverter bay)	20-750-MIPNL2-F8M	1	See Bus Support and Divider Panels (Right and Left Sides) on page 116.
Baffle (600 mm)	20-750-MIBAF1-F9M	1	See Baffle Assemblies on page 116
Power Bay (Inverter, 800 mm)	—	1	See Cabinet-Level Kits on page 110 for Rittal part number.
Power module (Motor side inverter)	20-750-MI*n*-*xnnnxnnn*	3	Power module that is configured as a motor side inverter. Base catalog numbers are listed in requirements tables under Frame 10 Module Selection on page 86. For specification and rating information, see Power Modules Options on page 92.
Three motor side inverters back panel and stab receptacles (800 mm)	20-750-MIR*n*-F10M	1	For specification and rating information, see Frame 8…15 Stab Receptacle Assemblies and Stab Receptacles with Back Panel and Bus Bars on page 108 to match power module rating.
DC link/fuse assembly	20-750-MDCL1-*xx*-F8M	3	For rating information, see DC Link/Fuse Assemblies on page 104.
DC common mode cores	20-750-MDCCM1-F8M	3	For selection information, see DC Common Mode Core on page 105. DC common mode core assembled on the DC link/fuse assembly if EMC filtering is required.
DC bus bar (800 mm)	20-750-MDCBUS8-*nKn*	1	For specification and rating information, see Frame 8…15 DC Bus Bars on page 108.
Control bus assembly (800 mm)	20-750-MCBUS1-PB-F10M	1	See Control Bus Assemblies on page 110.
Control bus connector	20-750-MCTRLBUS-CONN1	3 or 4(2)	See Control Bus Connectors on page 110.
Vent (800 mm)	20-750-MVENT*n*-F10M	1	For specification and rating information, see Ventilation Assemblies on page 116.
Power and LCL filter module mounting (800 mm)	20-750-MMNT1-F10M	1	See Power and LCL Filter Module Floor and Support Brackets on page 116.
Bus support panels, upper	20-750-MIPNL1-F8M	1	See Bus Support and Divider Panels (Right and Left Sides) on page 116.
Bus support panels, lower	20-750-MCPNL1-F8M	1	
Baffle (800 mm)	20-750-MIBAF1-F10M	1	See Baffle Assemblies on page 116
Additional Kits			
DC bus splice	20-750-MDCSPL1-*nKn*	2	For splice material, see Frame 8…15 DC Bus Bar Splices on page 108.
AC bus splice, converter power bay	20-750-MACSPL2-*nKn*	2	For splice material, see Frame 8…15 AC Bus Bar Splices on page 107.
Ground bus bar splice	20-750-MGNDSPL1	2	See Ground Bus Bar Splice on page 109.
Control bus splice	20-750-MCTRLBUS-SPL	3	See Control Bus Splice on page 110
DC bus conditioner	20-750-MDCBUS-COND, or 20-750-MDCBUS1-COND	>	Quantity based on the ground scheme. See DC Bus Conditioner on page 105.

(1) For frame 8…10 drives, choose either cat. no. 20-750-MCPOD1-F8M (PowerFlex 755TL, low harmonic) or cat. no. 20-750-MCPOD2-F8M (PowerFlex 755TR, regenerative).
(2) A control bus connector is required for each DC link/fuse assembly and a torque accuracy module, when used.

Frame 10 PowerFlex 755TL or 755TR Drive Options

Module or Kit Name	Description
Power / LCL filter module stab receptacle assembly aluminum	See Frame 8…15 Stab Receptacle Assemblies and Stab Receptacles with Back Panel and Bus Bars on page 108.
Power / LCL filter module stab receptacle assembly copper	
AC bus bars, entry/exit wire bay	See Frame 8…15 AC Bus Bars (Top Cable Exit/Entry Wiring Bay) on page 106.
Bus bar splice for entry/exit wiring bay	See Frame 8…15 AC Bus Bar Splices on page 107.
Bus bar splice for entry/exit wire bay, right-to-left orientation	
Bus support panels, entry/exit wire bay	See Bus Support and Divider Panels (Right and Left Sides) on page 116.
Torque accuracy module 400…690V	See Torque Accuracy Modules (TAM) on page 127.

Frame 10 PowerFlex 755TL or 755TR Drive Options

Module or Kit Name	Description
Fiber-optic cable for power module to pod	See Fiber-optic Cable Kits on page 118.
Fiber-optic cable for AC precharge board to pod	
EMC C2 filter	See EMC C2 Filter Kits on page 127.
EMC C2 filter input bus bars	
EMC C2 filter output bus bars	
Seismic-qualified enclosure hardware	See Kits for Seismic-qualified Installations on page 115.

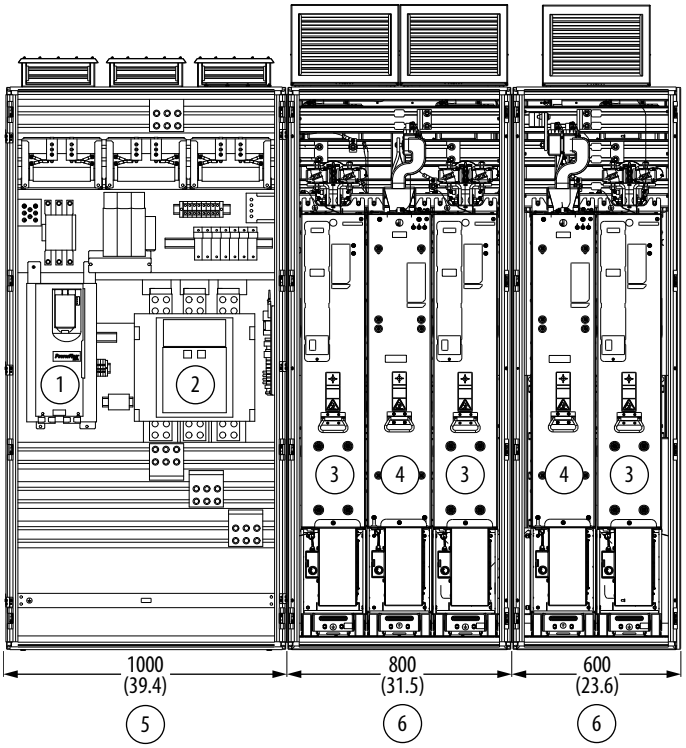
Frame 10 Equivalent PowerFlex 755TM Bus Supplies

This section provides selection information for frame 10 equivalent PowerFlex 755TM bus supplies.

Frame 10 PowerFlex 755TM Bus Supplies Normal Duty Ratings

Input Voltage	Amps (DC)	Power Rating
400	1697…2314	984…1342 kW
480	1460…2131	1016…1483 kW
600	1075…1471	935…1279 kW
690	1057…1456	1057…1456 kW

Frame 10 PowerFlex 755TM Bus Supply Major Components - Front View



Left-to-Right Orientation

Enclosures are 600 mm (23.6 in.) deep. IP54, UL Type 12 Enclosure Shown.

Item	Description
1	Control pod
2	AC precharge section
3	Line side converter

Item	Description
4	LCL filter
5	Input bay
6	Power bay

Frame 10 PowerFlex 755TM Bus Supply IP00 Component Kits

Module or Kit Name	Catalog Number	Qty.	Description
Input Bay (1000 mm)	—	1	See Cabinet-Level Kits on page 110 for Rittal part number.
AC precharge circuit breaker	20-750-MACPCCB-*x*-2K0	1	Choose one circuit breaker. For specification and rating information, see AC Precharge Circuit Breaker on page 93.
	20-750-MACPCCB-CDE-3K0	1	
AC precharge circuit breaker bus bars	20-750-MCBBUS1-*nxn*	1	For specification and rating information, see Frame 10…15 AC Precharge Circuit Breaker Bus Bars on page 107.
AC precharge control board	20-750-MACPC1-*xx*	1	For specification and rating information, see AC Precharge Control Boards on page 127.
AC precharge resistor bank	20-750-MACPR-*xx*-F10M	3	For specification and rating information, see AC Precharge Resistor Banks on page 94.
AC precharge TVSS module	20-750-MACP-*xx*-TVSS	1	For specification and rating information, see TVSS Modules on page 106.
AC precharge time delay relay	20-750-MACPC-TDR	1	For specification and rating information, see AC Precharge Time Delay Relay on page 94.
Circuit breaker mounting panels	20-750-MIBPNL2-F*nn*M	1	For specification and rating information, see Circuit Breaker Mounting Panels on page 116.
Control pod[(1)]	20-750-MCPOD*n*-F8M	1	For specification and rating information, see Control Pod Assemblies on page 117.
Fiber transceiver boards	20-750-MFTB1-F8	4	See Fiber Transceiver Board on page 127
AC bus bar (1000 mm)	20-750-MACBUS10-*nKn*	2	For bus material, see Frame 8…15 AC Input Bus Bars on page 106.
DC bus bar (1000 mm)	20-750-MDCBUS10-*xKx*	1	For specification and rating information, see Frame 8…15 DC Bus Bars on page 108.
Control bus assembly (1000 mm)	20-750-MCBUS1-IB-F10M	1	See Control Bus Assemblies on page 110
Control bus connector	20-750-MCTRLBUS-CONN2	1	See Control Bus Connectors on page 110
Vent (1000 mm)	20-750-MVENTC*n*-F11M	1	For specification and rating information, see Ventilation Assemblies on page 116.
Bus support panels, lower (1000 mm)	20-750-MIBPNL1-F10M	1	See Bus Support and Divider Panels (Right and Left Sides) on page 116
Power Bay (Converter, 800 mm)	—	1	See Cabinet-Level Kits on page 110 for Rittal part number.
Power module (Line side converter)	20-750-MI*n*-*xnnnxnnn*	2	Power module that is configured as a line side converter. For specification and rating information, see Frame 10 Module Selection on page 86.
LCL filter module	20-750-ML1-*xnnnxnnn*	1	For specification and rating information, see Frame 10 Module Selection on page 86.
LCL filter and two line side converters back panel and stab receptacles (800 mm)	20-750-MACR1-F9M	1	For specification and rating information, see Frame 8…15 Stab Receptacle Assemblies and Stab Receptacles with Back Panel and Bus Bars on page 108 to match power module rating.
DC link/fuse	20-750-MDCL1-*xx*-F8M	2	For rating information, see DC Link/Fuse Assemblies on page 104.
DC common mode cores	20-750-MDCCM1-F8M	2	For selection information, see DC Common Mode Core on page 105. DC common mode core assembled on the DC link/fuse assembly if EMC filtering is required.
AC input bus bars and fuses	20-750-MACL*n*-F9M	1	For specification and rating information, see Frame 8…15 AC Input Link Bus Bar and Fuse Assemblies on page 107.
AC common mode core	20-750-MACCM1-F8M	1	For selection information, see AC Common Mode Core on page 107. AC common mode core assembled on the LCL filter module if EMC filtering is required.
DC bus bar (800 mm)	20-750-MDCBUS8-*xKx*	1	For specification and rating information, see Frame 8…15 DC Bus Bars on page 108.
AC bus bar (800 mm)	20-750-MACBUS8-*xKx*	1	For specification and rating information, see Frame 8…15 AC Input Bus Bars on page 106.
Control bus assembly (800 mm)	20-750-MCBUS1-PB-F10M	1	See Control Bus Assemblies on page 110.
Control bus connector	20-750-MCTRLBUS-CONN1	3	See Control Bus Connectors on page 110.
Vent (800 mm)	20-750-MVENT*n*-F10M	1	For specification and rating information, see Ventilation Assemblies on page 116.
Power and LCL filter module mounting (800 mm)	20-750-MMNT1-F10M	1	See Power and LCL Filter Module Floor and Support Brackets on page 116.
Bus support panels, upper	20-750-MIPNL1-F8M	1	See Bus Support and Divider Panels (Right and Left Sides) on page 116.
Bus support panels, lower	20-750-MCPNL1-F8M	1	
Baffle (800 mm)	20-750-MIBAF1-F10M	1	See Baffle Assemblies on page 116.
Power Bay (Converter, 600 mm)	—	1	See Cabinet-Level Kits on page 110 for Rittal part number.
Power module (Line side converter)	20-750-MI*n*-*xnnnxnnn*	1	Power module that is configured as a line side converter. For specification and rating information, see Frame 10 Module Selection on page 86.
LCL filter module	20-750-ML1-*xnnnxnnn*	1	For specification and rating information, see Frame 10 Module Selection on page 86.
LCL filter and one line side converter back panel and stab receptacles (600 mm)	20-750-MACR1-F8M	1	For specification and rating information, see Frame 8…15 Stab Receptacle Assemblies and Stab Receptacles with Back Panel and Bus Bars on page 108 to match power module rating.

Frame 10 PowerFlex 755TM Bus Supply IP00 Component Kits (continued)

Module or Kit Name	Catalog Number	Qty.	Description
DC link/fuse	20-750-MDCL1-*xx*-F8M	1	For rating information, see DC Link/Fuse Assemblies on page 104.
DC common mode cores	20-750-MDCCM1-F8M	1	For selection information, see DC Common Mode Core on page 105. DC common mode core assembled on the DC link/fuse assembly if EMC filtering is required.
AC input bus bars and fuses	20-750-MACL*n*-F9M	1	For specification and rating information, see Frame 8…15 AC Input Link Bus Bar and Fuse Assemblies on page 107.
AC common mode core	20-750-MACCM1-F8M	1	For selection information, see AC Common Mode Core on page 107. AC common mode core assembled on the LCL filter module if EMC filtering is required.
DC bus bar (600 mm)	20-750-MDCBUS6-*xKx*	1	For specification and rating information, see Frame 8…15 DC Bus Bars on page 108.
AC bus bar (600 mm)	20-750-MACBUS6-*xKx*	1	For specification and rating information, see Frame 8…15 AC Input Bus Bars on page 106.
Control bus assembly (600 mm)	20-750-MCBUS1-PB-F9M	1	See Control Bus Assemblies on page 110.
Control bus connector	20-750-MCTRLBUS-CONN1	2	See Control Bus Connectors on page 110.
Vent (600 mm)	20-750-MVENT*n*-F9M	1	For specification and rating information, see Ventilation Assemblies on page 116.
Power and LCL filter module mounting (600 mm)	20-750-MMNT1-F9M	1	See Power and LCL Filter Module Floor and Support Brackets on page 116.
Bus support panels, upper	20-750-MIPNL1-F8M	1	See Bus Support and Divider Panels (Right and Left Sides) on page 116.
Bus support panels, lower	20-750-MCPNL1-F8M	1	
Baffle (600 mm)	20-750-MIBAF1-F9M	1	See Baffle Assemblies on page 116.
Additional Kits			
DC bus splice	20-750-MDCSPL1-*xKx*	3	For splice material, see Frame 8…15 DC Bus Bar Splices on page 108.
AC bus splice, converter power bay	20-750-MACSPL2-*nKn*	2	For splice material, see Frame 8…15 AC Bus Bar Splices on page 107.
Ground bus bar splice	20-750-MGNDSPL1	1	See Ground Bus Bar Splice on page 109.
Control bus splice	20-750-MCTRLBUS-SPL	2	See Control Bus Splice on page 110.
DC bus conditioner	20-750-MDCBUS-COND, or 20-750-MDCBUS1-COND	>	Quantity based on the ground scheme. See DC Bus Conditioner on page 105.

(1) For frame 8…10 drives, choose either cat. no. 20-750-MCP0D1-F8M (PowerFlex 755TL, low harmonic) or cat. no. 20-750-MCP0D2-F8M (PowerFlex 755TR, regenerative).

Frame 10 PowerFlex 755TM Bus Supply Options

Module or Kit Name	Description
Power / LCL filter module stab receptacle assembly aluminum	See Frame 8…15 Stab Receptacle Assemblies and Stab Receptacles with Back Panel and Bus Bars on page 108.
Power / LCL filter module stab receptacle assembly copper	
AC bus bars, entry wire bay	See Frame 8…15 AC Bus Bars (Top Cable Exit/Entry Wiring Bay) on page 106.
Bus bar splice for entry wiring bay	See Frame 8…15 AC Bus Bar Splices on page 107.
Bus bar splice for entry wire bay, right-to-left orientation	
Bus support panels, entry wire bay	See Bus Support and Divider Panels (Right and Left Sides) on page 116.
Fiber-optic cable for power module to pod	See Fiber-optic Cable Kits on page 118.
Fiber-optic cable for AC precharge board to pod	
EMC C2 filter	See EMC C2 Filter Kits on page 127.
EMC C2 filter input bus bars	
EMC C2 filter output bus bars	
Seismic-qualified enclosure hardware	See Kits for Seismic-qualified Installations on page 115.

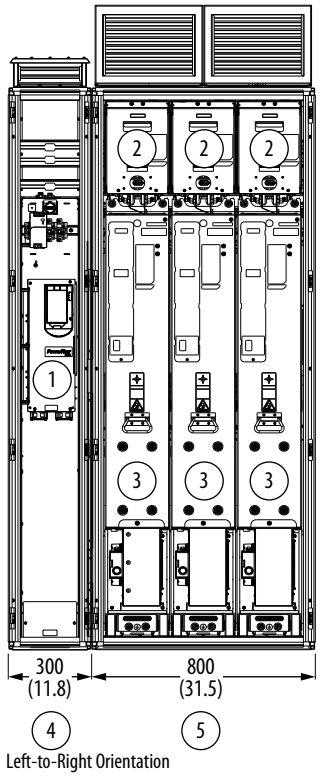
Frame 10 Equivalent PowerFlex 755TM Common Bus Inverters (CBI)

This section provides selection information for frame 10 equivalent PowerFlex 755TM common bus inverters.

Frame 10 PowerFlex 755TM Common Bus Inverters Normal Duty Ratings

Input Voltage	Amps (AC)	Power Rating
400	1590 …2156	850…1250 kW
480	1420 …2072	1250…1800 Hp
600	1045…1430	1100…1500 Hp
690	1030…1419	1100…1500 kW

Frame 10 PowerFlex 755TM Common Bus Inverter Major Components - Front View



Left-to-Right Orientation

Enclosures are 600 mm (23.6 in.) deep. IP54, UL Type 12 Enclosure Shown.

Item	Description
1	Control pod
2	DC precharge module
3	Motor side inverter

Item	Description
4	Control bay
5	Power bay

Frame 10 PowerFlex 755TM Common Bus Inverter IP00 Component Kits

Module or Kit Name	Catalog Number	Qty.	Description
Control Bay (300 mm)	—	1	See Cabinet-Level Kits on page 110 for Rittal part number.
Control pod	20-750-MCPOD1-F8M	1	For specification and rating information, see Control Pod Assemblies on page 117.
Fiber transceiver boards	20-750-MFTB1-F8	3 or 4[(1)]	See Fiber Transceiver Board on page 127.
DC bus bar (300 mm)	20-750-MDCBUS3-*xKx*	1	For specification and rating information, see Frame 8…15 DC Bus Bars on page 108.
Control bus assembly (300 mm)	20-750-MCBUS1-CB-F8M	1	See Control Bus Assemblies on page 110.
Vent, control bay (300 mm)	20-750-MVENTC2-F8M	1	For specification and rating information, see Ventilation Assemblies on page 116.

Frame 10 PowerFlex 755TM Common Bus Inverter IP00 Component Kits (continued)

Module or Kit Name	Catalog Number	Qty.	Description
Power Bay (Inverter, 800 mm)	—	1	See Cabinet-Level Kits on page 110 for Rittal part number.
Power module (Motor side inverter)	20-750-MI2-*xnnnxnnn*	3	Power module that is configured as a motor side inverter. Choose one set of three modules. For specification and rating information, see Frame 10 Module Selection on page 86.
	20-750-MI3-*xnnnxnnn*	3	
Inverter back panel and stab receptacles (800 mm)	20-750-MIR*n*-F10M	1	For specification and rating information, see Frame 8…15 Stab Receptacle Assemblies and Stab Receptacles with Back Panel and Bus Bars on page 108 to match power module rating.
DC link/fuse assembly	20-750-MDCL1-*xx*-F8M	3	For rating information, see DC Link/Fuse Assemblies on page 104. Not required if DC precharge modules are used.
DC precharge module (optional)	20-750-MDCP*n*-*xx*-F8M	3	For specification and rating information, see DC Precharge Modules on page 104.
DC common mode core	20-750-MDCCM1-F8M	3	For selection information, see DC Common Mode Core on page 105. DC common mode core assembled on the DC link/fuse assembly if EMC filtering is required.
DC bus bar (800 mm)	20-750-MDCBUS8-*xKx*	1	For specification and rating information, see Frame 8…15 DC Bus Bars on page 108.
DC bus splice	20-750-MDCSPL1-*xKx*	1	For splice material, see Frame 8…15 DC Bus Bar Splices on page 108.
Control bus assembly (800 mm)	20-750-MCBUS1-PB-F10M	1	See Control Bus Assemblies on page 110.
Control bus connector	20-750-MCTRLBUS-CONN1	3 or 4(2)	See Control Bus Connectors on page 110.
Control bus splice	20-750-MCTRLBUS-SPL	1	See Control Bus Splice on page 110.
Vent (800 mm)	20-750-MVENT*x*-F10M	1	For specification and rating information, see Ventilation Assemblies on page 116.
Power module mounting bracket	20-750-MMNT1-F10M	1	See Power and LCL Filter Module Floor and Support Brackets on page 116.
Bus support panels, upper and lower	20-750-MIPNL2-F8M	1	See Bus Support and Divider Panels (Right and Left Sides) on page 116.
Baffle (800 mm)	20-750-MIBAF1-F10M	1	See Baffle Assemblies on page 116.

(1) Four fiber transceiver boards are required when a torque accuracy module is used.
(2) A control bus connector is required for each DC link/fuse assembly and a torque accuracy module, when used.

Frame 10 PowerFlex 755TM Common Bus Inverter Options

Module or Kit Name	Description
Power / LCL filter module stab receptacle assembly aluminum	See Frame 8…15 Stab Receptacle Assemblies and Stab Receptacles with Back Panel and Bus Bars on page 108.
Power / LCL filter module stab receptacle assembly copper	
AC bus bars, exit wire bay	See Frame 8…15 AC Bus Bars (Top Cable Exit/Entry Wiring Bay) on page 106.
Bus bar splice for exit wiring bay	See Frame 8…15 AC Bus Bar Splices on page 107.
Bus bar splice for exit wire bay, right-to-left orientation	
Bus support panels, exit wire bay	See Bus Support and Divider Panels (Right and Left Sides) on page 116.
Torque accuracy module 400…690V	See Torque Accuracy Modules (TAM) on page 127.
Fiber-optic cable for power module to pod	See Fiber-optic Cable Kits on page 118.
Fiber-optic cable for AC precharge to pod	
Seismic-qualified enclosure hardware	See Kits for Seismic-qualified Installations on page 115.

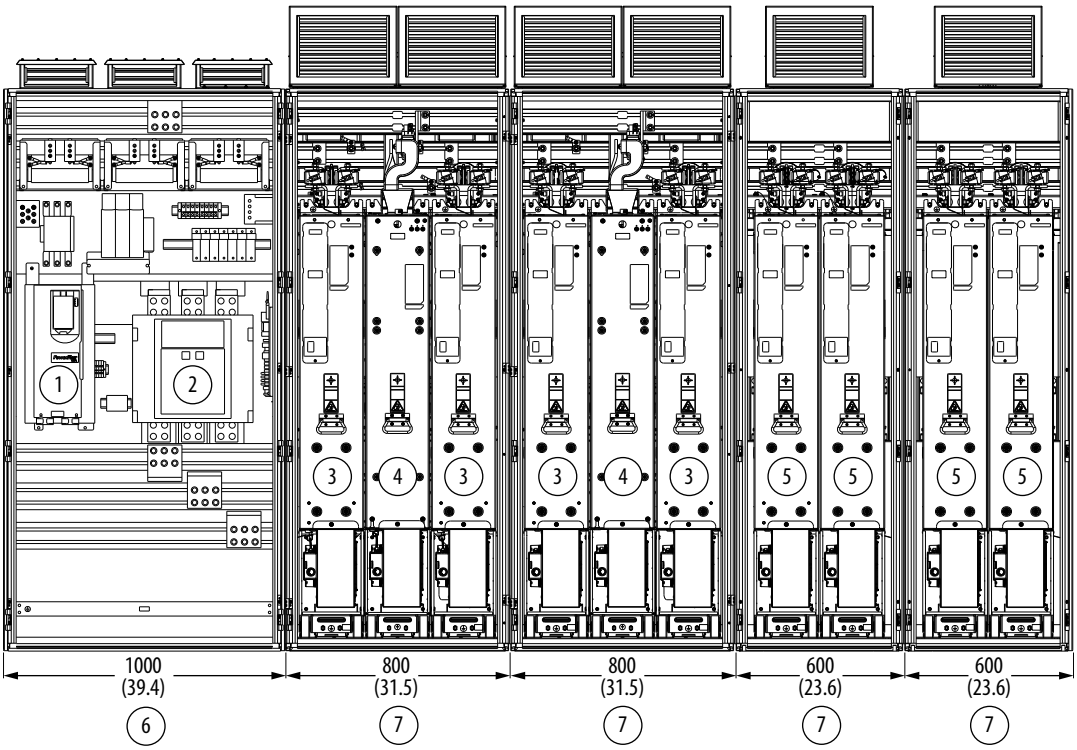
Frame 11 Equivalent PowerFlex 755TR Drives

This section provides selection information for frame 11 equivalent PowerFlex 755TR drives.

Frame 11 PowerFlex 755TR Drives Normal Duty Ratings

Input Voltage	Amps (AC)	Power Rating
400	2849	1650 kW
480	2738	2400 Hp
600	1946	2000 Hp
690	1865	1800 kW

Frame 11 PowerFlex 755TR Drive Major Components - Front View



Left-to-Right Orientation

Enclosures are 600 mm (23.6 in.) deep. IP54, UL Type 12 Enclosure Shown.

Item	Description
1	Control pod
2	AC precharge section
3	Line side converter
4	LCL filter

Item	Description
5	Motor side inverter
6	Input bay
7	Power bay

Frame 11 PowerFlex 755TR Drive IP00 Component Kits

Module or Kit Name	Catalog Number	Qty.	Description
Input Bay (1000 mm)	—	1	See Cabinet-Level Kits on page 110 for Rittal part number.
AC precharge circuit breaker	20-750-MACPCCB-*x*-2K5	1	Choose one circuit breaker. For specification and rating information, see AC Precharge Circuit Breaker on page 93.
	20-750-MACPCCB1-CD-4K0	1	
AC precharge control board	20-750-MACPC1-*xx*	1	For specification and rating information, see AC Precharge Control Boards on page 127.
AC precharge resistor bank	20-750-MACPR-*xx*-F11M	3	For specification and rating information, see AC Precharge Resistor Banks on page 94.

Frame 11 PowerFlex 755TR Drive IP00 Component Kits (continued)

Module or Kit Name	Catalog Number	Qty.	Description
AC precharge TVSS module	20-750-MACP-*xx*-TVSS	1	For specification and rating information, see TVSS Modules on page 106.
AC precharge time delay relay	20-750-MACPC-TDR	1	For specification and rating information, see AC Precharge Time Delay Relay on page 94.
Circuit breaker mounting panel	20-750-MIBPNL2-F*nn*M	1	For specification and rating information, see Circuit Breaker Mounting Panels on page 116.
Control pod	20-750-MCPOD1-F8M	1	For specification and rating information, see Control Pod Assemblies on page 117.
Fiber transceiver boards	20-750-MFTB1-F8	5	See Fiber Transceiver Board on page 127.
AC bus bar (1000 mm)	20-750-MACBUS10-*x*K*x*	2	For specification and rating information, see Frame 8…15 AC Input Bus Bars on page 106.
Control bus assembly (1000 mm)	20-750-MCBUS1-IB-F10M	1	See Control Bus Assemblies on page 110.
Control bus connector	20-750-MCTRLBUS-CONN2	1	See Control Bus Connectors on page 110.
Vent (1000 mm)	20-750-MVENT*x*-F11M	1	For specification and rating information, see Ventilation Assemblies on page 116.
Bus support panels, lower (1000 mm)	20-750-MIBPNL1-F10M	1	See Bus Support and Divider Panels (Right and Left Sides) on page 116.
Power Bay (Converter, 800 mm)	—	2	See Cabinet-Level Kits on page 110 for Rittal part number.
Power module (Line side converter)	20-750-MI2-*xnnnxnnn*	4	Power module that is configured as a line side converter. For specification and rating information, see Frame 11 Module Selection on page 87.
LCL filter module	20-750-ML1-*xnnnxnnn*	2	For specification and rating information, see Frame 11 Module Selection on page 87.
LCL filter and two line side converters back panel and stab receptacles	20-750-MACR1-F9M	2	For specification and rating information, see Frame 8…15 Stab Receptacle Assemblies and Stab Receptacles with Back Panel and Bus Bars on page 108 to match power module rating.
DC link/fuse assembly	20-750-MDCL1-*xx*-F8M	4	For rating information, see DC Link/Fuse Assemblies on page 104.
DC common mode core	20-750-MDCCM1-F8M	4	For selection information, see DC Common Mode Core on page 105. DC common mode core assembled on the DC link/fuse assembly if EMC filtering is required.
AC input bus bars and fuses	20-750-MACL*n*-F9M	2	For specification and rating information, see Frame 8…15 AC Input Link Bus Bar and Fuse Assemblies on page 107.
AC common mode core	20-750-MACCM1-F8M	2	For selection information, see AC Common Mode Core on page 107. AC common mode core assembled on the LCL filter module if EMC filtering is required.
DC bus bar (800 mm)	20-750-MDCBUS8-*x*K*x*	2	For specification and rating information, see Frame 8…15 DC Bus Bars on page 108.
AC bus bar (800 mm)	20-750-MACBUS8-*x*K*x*	2	For specification and rating information, see Frame 8…15 AC Input Bus Bars on page 106.
Control bus assembly, power bay (800 mm)	20-750-MCBUS1-PB-F10M	2	See Control Bus Assemblies on page 110.
Control bus connector	20-750-MCTRLBUS-CONN1	6	See Control Bus Connectors on page 110
Vent, power bay (800 mm)	20-750-MVENT*x*-F10M	2	For specification and rating information, see Ventilation Assemblies on page 116.
Power and LCL filter module mounting brackets (800 mm)	20-750-MMNT1-F10M	2	See Power and LCL Filter Module Floor and Support Brackets on page 116.
Bus support panels, upper	20-750-MIPNL1-F8M	2	See Bus Support and Divider Panels (Right and Left Sides) on page 116.
Bus support panels, lower	20-750-MCPNL1-F8M	2	
Power Bay (Inverter, 600 mm)	—	2	See Cabinet-Level Kits on page 110 for Rittal part number.
Power module (Motor side inverter)	20-750-MI*n*-*xnnnxnnn*	4	Power module that is configured as a motor side inverter. Base catalog numbers are listed in requirements tables under Frame 11 Module Selection on page 87. For specification and rating information, see Power Modules Options on page 92.
Two inverters back panel and stab receptacles	20-750-MIR*n*-F9M	2	For specification and rating information, see Frame 8…15 Stab Receptacle Assemblies and Stab Receptacles with Back Panel and Bus Bars on page 108 to match power module rating.
DC link/fuse assembly	20-750-MDCL1-*xx*-F8M	4	For rating information, see DC Link/Fuse Assemblies on page 104.
DC common mode core	20-750-MDCCM1-F8M	4	For selection information, see DC Common Mode Core on page 105. DC common mode core assembled on the DC link/fuse assembly if EMC filtering is required.
DC bus bar (600 mm)	20-750-MDCBUS6-*x*K*x*	2	For specification and rating information, see Frame 8…15 DC Bus Bars on page 108.
Control bus assembly, power bay (600 mm)	20-750-MCBUS1-PB-F9M	2	See Control Bus Assemblies on page 110.
Control bus connector	20-750-MCTRLBUS-CONN1	4(1)	See Control Bus Connectors on page 110.
Vent, power bay (600 mm)	20-750-MVENT*x*-F9M	2	For specification and rating information, see Ventilation Assemblies on page 116.
Power and LCL filter module mounting brackets (600 mm)	20-750-MMNT1-F9M	2	See Power and LCL Filter Module Floor and Support Brackets on page 116.

Frame 11 PowerFlex 755TR Drive IP00 Component Kits (continued)

Module or Kit Name	Catalog Number	Qty.	Description
Bus support panels, upper and lower (inverter bay)	20-750-MIPNL2-F8M	2	See Bus Support and Divider Panels (Right and Left Sides) on page 116.
Additional Kits			
DC bus splice	20-750-MDCSPL1-*xKx*	3	For splice material, see Frame 8…15 DC Bus Bar Splices on page 108.
AC bus splice, converter power bay	20-750-MDCSPL2-*xKx*	2	For splice material, see Frame 8…15 AC Bus Bar Splices on page 107.
AC bus splice, inverter power bay	20-750-MACSPL1-F11M	1	For splice material, see Frame 8…15 AC Bus Bar Splices on page 107.
Ground bus bar splice	20-750-MGNDSPL1	3	See Ground Bus Bar Splice on page 109.
Control bus splice	20-750-MCTRLBUS-SPL	4	See Control Bus Splice on page 110.
DC bus conditioner	20-750-MDCBUS-COND, or 20-750-MDCBUS1-COND	>	Quantity based on the ground scheme. See DC Bus Conditioner on page 105.

(1) A control bus connector is required for each DC link/fuse assembly and a torque accuracy module, when used.

Frame 11 PowerFlex 755TR Drive Options

Module or Kit Name	Description
Power / LCL filter module stab receptacle assembly aluminum	See Frame 8…15 Stab Receptacle Assemblies and Stab Receptacles with Back Panel and Bus Bars on page 108.
Power / LCL filter module stab receptacle assembly copper	
AC bus bars, entry/exit wire bay	See Frame 8…15 AC Bus Bars (Top Cable Exit/Entry Wiring Bay) on page 106.
Bus bar splice for entry/exit wiring bay	See Frame 8…15 AC Bus Bar Splices on page 107.
Bus bar splice for entry/exit wire bay, right-to-left orientation	
Bus support panels, entry/exit wire bay	See Bus Support and Divider Panels (Right and Left Sides) on page 116.
Torque accuracy module 400…690V	See Torque Accuracy Modules (TAM) on page 127.
Fiber-optic cable for power module to pod	See Fiber-optic Cable Kits on page 118.
Fiber-optic cable for AC precharge to pod	
Seismic-qualified enclosure hardware	See Kits for Seismic-qualified Installations on page 115.

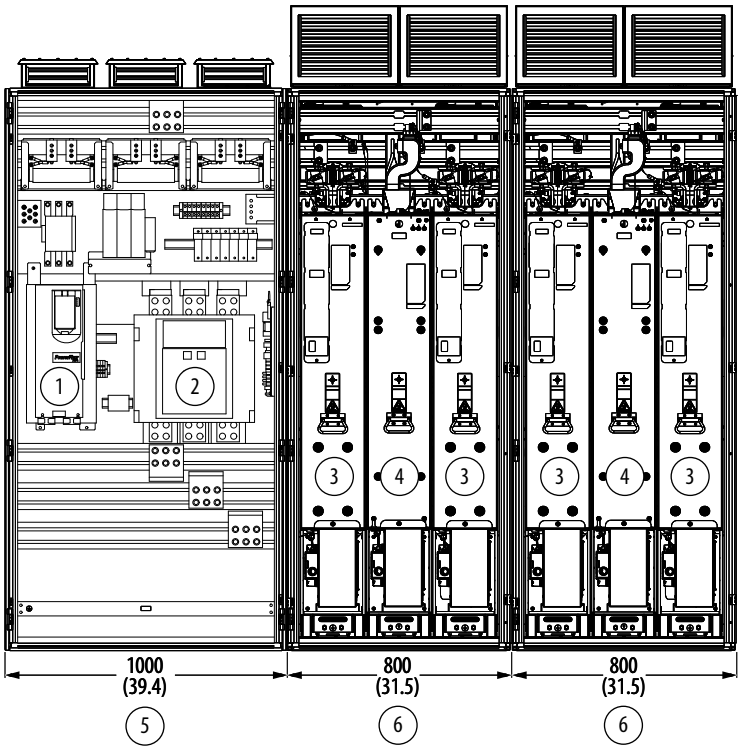
Frame 11 Equivalent PowerFlex 755TM Bus Supplies

This section provides selection information for frame 11 equivalent PowerFlex 755TM bus supplies.

Frame 11 PowerFlex 755TM Bus Supplies Normal Duty Ratings

Input Voltage	Amps (DC)	Power Rating
400	3057	1772 kW
480	2816	1959 kW
600	2001	1740 kW
690	1914	1914 kw

Frame 11 PowerFlex 755TM Bus Supply Major Components - Front View



Left-to-Right Orientation

Enclosures are 600 mm (23.6 in.) deep. IP54, UL Type 12 Enclosure Shown.

Item	Description
1	Control pod
2	AC precharge section
3	Line side converter

Item	Description
4	LCL filter
5	Input bay
6	Power bay

Frame 11 PowerFlex 755TM Bus Supply IP00 Component Kits

Module or Kit Name	Catalog Number	Qty.	Description
Input Bay (1000 mm)	—	1	See Cabinet-Level Kits on page 110 for Rittal part number.
AC precharge circuit breaker	20-750-MACPCCB-*x*-2K5	1	Choose one circuit breaker. For specification and rating information, see AC Precharge Circuit Breaker on page 93.
	20-750-MACPCCB1-CD-4K0	1	
AC precharge control board	20-750-MACPC1-*xx*	1	For specification and rating information, see AC Precharge Control Boards on page 127.
AC precharge resistor bank	20-750-MACPR-*xx*-F11M	3	For specification and rating information, see AC Precharge Resistor Banks on page 94.
AC precharge TVSS module	20-750-MACP-*xx*-TVSS	1	For specification and rating information, see TVSS Modules on page 106.

Frame 11 PowerFlex 755TM Bus Supply IP00 Component Kits (continued)

Module or Kit Name	Catalog Number	Qty.	Description
AC precharge time delay relay	20-750-MACPC-TDR	1	For specification and rating information, see AC Precharge Time Delay Relay on page 94.
Circuit breaker mounting panel	20-750-MIBPNL2-F*nn*M	1	For specification and rating information, see Circuit Breaker Mounting Panels on page 116.
Control pod	20-750-MCPOD1-F8M	1	For specification and rating information, see Control Pod Assemblies on page 117.
Fiber transceiver boards	20-750-MFTB1-F8	4	See Fiber Transceiver Board on page 127.
AC bus bar (1000 mm)	20-750-MACBUS10-*x*K*x*	2	For specification and rating information, see Frame 8…15 AC Input Bus Bars on page 106.
DC bus bar (1000 mm)	20-750-MDCBUS10-*x*K*x*	1	For specification and rating information, see Frame 8…15 DC Bus Bars on page 108.
Control bus assembly (1000 mm)	20-750-MCBUS1-IB-F10M	1	See Control Bus Assemblies on page 110.
Control bus connector	20-750-MCTRLBUS-CONN2	1	See Control Bus Connectors on page 110.
Vent (1000 mm)	20-750-MVENT*x*-F11M	1	For specification and rating information, see Ventilation Assemblies on page 116.
Bus support panels, lower (1000 mm)	20-750-MIBPNL1-F10M	1	See Bus Support and Divider Panels (Right and Left Sides) on page 116.
Power Bay (Converter, 800mm)	—	2	See Cabinet-Level Kits on page 110 for Rittal part number.
Power module (Line side converter)	20-750-MI2-*xnnnxnnn*	4	Power module that is configured as a line side converter. For specification and rating information, see Frame 11 Module Selection on page 87.
LCL filter module	20-750-ML1-*xnnnxnnn*	2	For specification and rating information, see Frame 11 Module Selection on page 87.
LCL filter and two line side converters back panel and stab receptacles (800 mm)	20-750-MACR1-F9M	2	For specification and rating information, see Frame 8…15 Stab Receptacle Assemblies and Stab Receptacles with Back Panel and Bus Bars on page 108 to match power module rating.
DC link/fuse assembly	20-750-MDCL1-*xx*-F8M	4	For rating information, see DC Link/Fuse Assemblies on page 104.
DC common mode cores	20-750-MDCCM1-F8M	4	For selection information, see DC Common Mode Core on page 105. DC common mode core assembled on the DC link/fuse assembly if EMC filtering is required.
AC input bus bars and fuses	20-750-MACL*n*-F9M	2	For specification and rating information, see Frame 8…15 AC Input Link Bus Bar and Fuse Assemblies on page 107. AC common mode core assembled with AC Link if EMC filtering is required.
AC common mode core	20-750-MACCM1-F8M	2	
DC bus bar (800 mm)	20-750-MDCBUS8-*x*K*x*	2	For specification and rating information, see Frame 8…15 DC Bus Bars on page 108.
AC bus bar (800 mm)	20-750-MACBUS8-*x*K*x*	2	For specification and rating information, see Frame 8…15 AC Input Bus Bars on page 106.
Control bus assembly	20-750-MCBUS1-PB-F10M	2	See Control Bus Assemblies on page 110.
Control bus connector	20-750-MCTRLBUS-CONN1	6	See Control Bus Connectors on page 110.
Vent (800 mm)	20-750-MVENT*x*-F10M	2	For specification and rating information, see Ventilation Assemblies on page 116.
Power and LCL filter module mounting bracket	20-750-MMNT1-F10M	2	See Power and LCL Filter Module Floor and Support Brackets on page 116.
Bus support panels, upper	20-750-MIPNL1-F8M	2	See Bus Support and Divider Panels (Right and Left Sides) on page 116.
Bus support panels, lower	20-750-MCPNL1-F8M	2	
Baffle (800 mm)	20-750-MIBAF1-F10M	2	See Baffle Assemblies on page 116.
Additional Kits			
DC bus splice	20-750-MDCSPL1-*x*K*x*	2	For splice material, see Frame 8…15 DC Bus Bar Splices on page 108.
AC bus splice, converter power bay	20-750-MACSPL2-4K7	2	For splice material, see Frame 8…15 AC Bus Bar Splices on page 107.
Ground bus bar splice	20-750-MGNDSPL1	1	See Ground Bus Bar Splice on page 109.
Control bus splice	20-750-MCTRLBUS-SPL	2	See Control Bus Splice on page 110.
DC bus conditioner	20-750-MDCBUS-COND, or 20-750-MDCBUS1-COND	>	Quantity based on the ground scheme. See DC Bus Conditioner on page 105.

Frame 11 PowerFlex 755TM Bus Supply Options

Module or Kit Name	Description
Power / LCL filter module stab receptacle assembly aluminum	See Frame 8…15 Stab Receptacle Assemblies and Stab Receptacles with Back Panel and Bus Bars on page 108.
Power / LCL filter module stab receptacle assembly copper	
AC bus bars, entry wire bay	See Frame 8…15 AC Bus Bars (Top Cable Exit/Entry Wiring Bay) on page 106.

Frame 11 PowerFlex 755TM Bus Supply Options

Module or Kit Name	Description
Bus bar splice for entry wiring bay	See Frame 8…15 AC Bus Bar Splices on page 107.
Bus bar splice for entry wire bay, right-to-left orientation	
Bus support panels, entry wire bay	See Bus Support and Divider Panels (Right and Left Sides) on page 116.
Fiber-optic cable for power module to pod	See Fiber-optic Cable Kits on page 118.
Fiber-optic cable for AC precharge to pod	
Seismic-qualified enclosure hardware	See Kits for Seismic-qualified Installations on page 115.

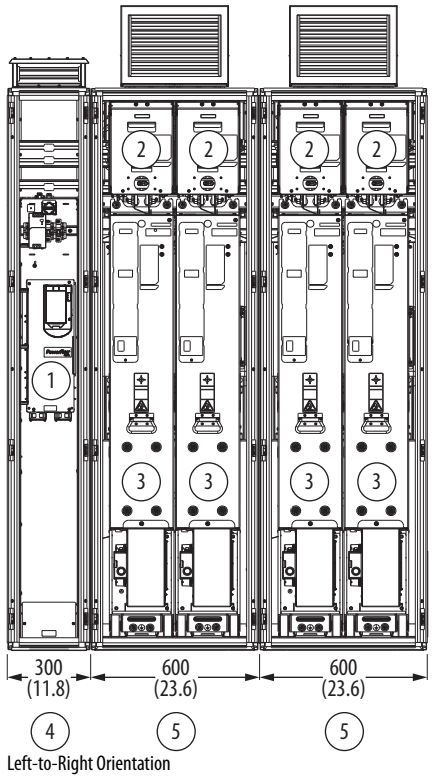
Frame 11 Equivalent PowerFlex 755TM Common Bus Inverters (CBI)

This section provides selection information for frame 11 equivalent PowerFlex 755TM common bus inverters.

Frame 11 PowerFlex 755TM Common Bus Inverters Normal Duty Ratings

Input Voltage	Amps (AC)	Power Rating
400	2849	1650 kW
480	2738	2400 Hp
600	1946	2000 Hp
690	1865	1800 kW

Frame 11 PowerFlex 755TM Common Bus Inverter Major Components - Front View



Left-to-Right Orientation

Enclosures are 600 mm (23.6 in.) deep. IP54, UL Type 12 Enclosure Shown.

Item	Description
1	Control pod
2	DC precharge module
3	Motor side inverter

Item	Description
4	Control bay
5	Power bay

Frame 11 PowerFlex 755TM Common Bus Inverter IP00 Component Kits

Module or Kit Name	Catalog Number	Qty.	Description
Control Bay (300 mm)	—	1	See Cabinet-Level Kits on page 110 for Rittal part number.
Control pod	20-750-MCPOD1-F8M	1	For specification and rating information, see Control Pod Assemblies on page 117.
Fiber transceiver boards	20-750-MFTB1-F8	3 or 4(1)	See Fiber Transceiver Board on page 127.
DC bus bar (300 mm)	20-750-MDCBUS3-*xKx*	1	For specification and rating information, see Frame 8…15 DC Bus Bars on page 108.
Control bus assembly (300 mm)	20-750-MCBUS1-CB-F8M	1	See Control Bus Assemblies on page 110.
Vent (300 mm)	20-750-MVENTC2-F8M	1	For specification and rating information, see Ventilation Assemblies on page 116.
Power Bay (Inverter, 600 mm)	—	2	See Cabinet-Level Kits on page 110 for Rittal part number.
Power module (Motor side inverter)	20-750-MI2-*xnnnxnnn*	4	Power module that is configured as a motor side inverter. Choose one set of four modules. For specification and rating information, see Frame 11 Module Selection on page 87.
	20-750-MI3-*xnnnxnnn*	4	
Inverter back panel and stab receptacles (600 mm)	20-750-MIR*n*-F9M	2	For specification and rating information, see Frame 8…15 Stab Receptacle Assemblies and Stab Receptacles with Back Panel and Bus Bars on page 108 to match power module rating.
DC link/fuse assembly	20-750-MDCL1-*xx*-F8M	4	For rating information, see DC Link/Fuse Assemblies on page 104. Not required if DC precharge modules are used.
DC precharge module (optional)	20-750-MDCP*n*-*xx*-F8M	4	For specification and rating information, see DC Precharge Modules on page 104
DC common mode core	20-750-MDCCM1-F8M	4	For selection information, see DC Common Mode Core on page 105. DC common mode core assembled on the DC link/fuse assembly if EMC filtering is required.
DC bus bar (600 mm)	20-750-MDCBUS6-*xKx*	2	For specification and rating information, see Frame 8…15 DC Bus Bars on page 108.
Control bus assembly (600 mm)	20-750-MCBUS1-PB-F9M	2	See Control Bus Assemblies on page 110.
Control bus connector	20-750-MCTRLBUS-CONN1	4 or 5(2)	See Control Bus Connectors on page 110.
Vent (600 mm)	20-750-MVENTx-F9M	2	For specification and rating information, see Ventilation Assemblies on page 116.
Power module mounting bracket	20-750-MMNT1-F9M	2	See Power and LCL Filter Module Floor and Support Brackets on page 116.
Bus support side panels, upper and lower	20-750-MIPNL2-F8M	2	See Bus Support and Divider Panels (Right and Left Sides) on page 116.
Baffle (600 mm)	20-750-MIBAF1-F9M	2	See Baffle Assemblies on page 116.
Additional Kits			
DC bus splice	20-750-MDCSPL1-4K7	2	For splice material, see Frame 8…15 DC Bus Bar Splices on page 108.
AC bus splice, inverter power bay	20-750-MACSPL1-F11M	1	For splice material, see Frame 8…15 AC Bus Bar Splices on page 107.
Ground bus bar splice	20-750-MGNDSPL1	1	See Ground Bus Bar Splice on page 109.
Control bus splice	20-750-MCTRLBUS-SPL	2	See Control Bus Splice on page 110.

(1) Four fiber transceiver boards are required when a torque accuracy module is used.
(2) A control bus connector is required for each DC link/fuse assembly and a torque accuracy module, when used.

Frame 11 PowerFlex 755TM Common Bus Inverter Options

Module or Kit Name	Description
Power / LCL filter module stab receptacle assembly aluminum	See Frame 8…15 Stab Receptacle Assemblies and Stab Receptacles with Back Panel and Bus Bars on page 108.
Power / LCL filter module stab receptacle assembly copper	
AC bus bars, exit wire bay	See Frame 8…15 AC Bus Bars (Top Cable Exit/Entry Wiring Bay) on page 106.
Bus bar splice for exit wiring bay	See Frame 8…15 AC Bus Bar Splices on page 107.
Bus bar splice for exit wire bay, right-to-left orientation	
Bus support panels, exit wire bay	See Bus Support and Divider Panels (Right and Left Sides) on page 116.
Torque accuracy module 400…690V	See Torque Accuracy Modules (TAM) on page 127.
Fiber-optic cable for power module to pod	See Fiber-optic Cable Kits on page 118.
Fiber-optic cable for AC precharge to pod	
Seismic-qualified enclosure hardware	See Kits for Seismic-qualified Installations on page 115.

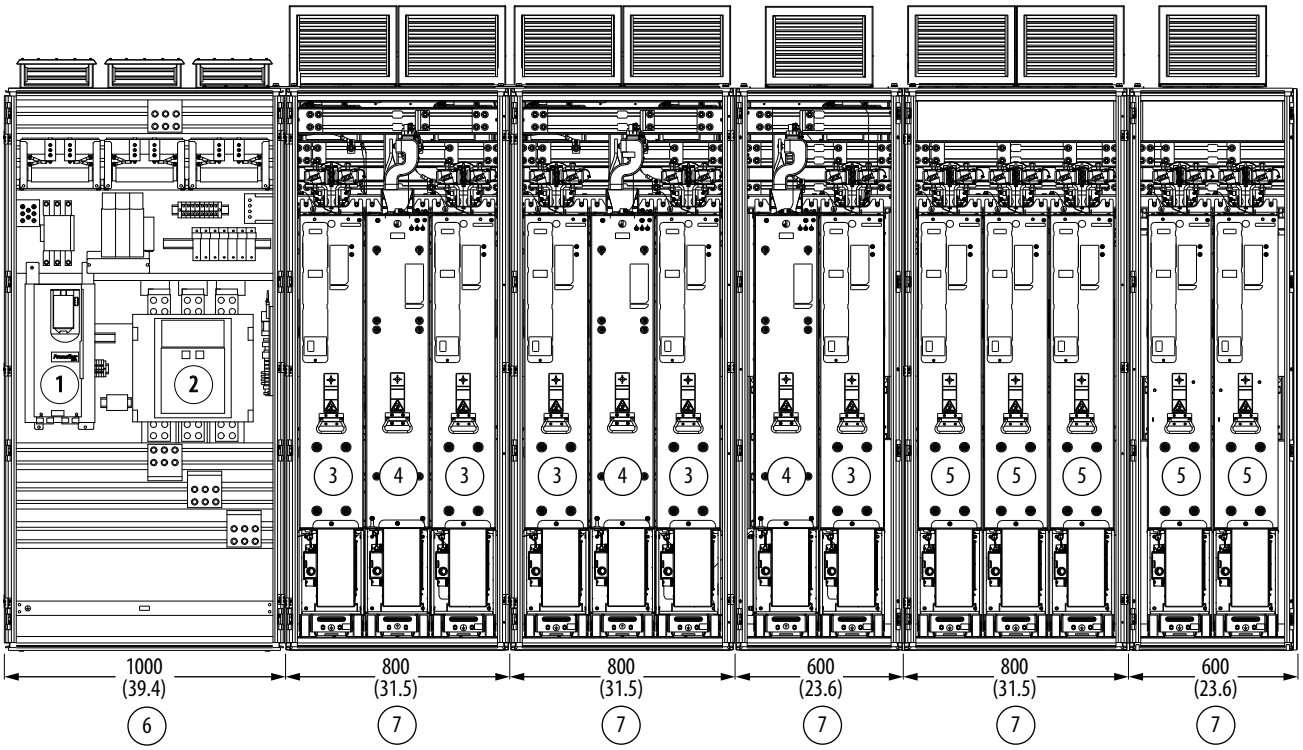
Frame 12 Equivalent PowerFlex 755TR Drives

This section provides selection information for frame 12 equivalent PowerFlex 755TR drives.

Frame 12 PowerFlex 755 TR Drives Normal Duty Ratings

Input Voltage	Amps (AC)	Power Rating
400	3542	2000 kW
480	3404	3000 Hp
600	2420	2500 Hp
690	2318	2300 kW

Frame 12 PowerFlex 755TR Drive Major Components - Front View



Left-to-Right Orientation

Enclosures are 600 mm (23.6 in.) deep. IP54, UL Type 12 Enclosure Shown.

Item	Description
1	Control pod
2	AC precharge section
3	Line side converter
4	LCL filter

Item	Description
5	Motor side inverter
6	Input bay
7	Power bay

Frame 12 PowerFlex 755TR Drive IP00 Component Kits

Module or Kit Name	Catalog Number	Qty.	Description
Input Bay (1000 mm)	—	1	See Cabinet-Level Kits on page 110 for Rittal part number.
AC precharge circuit breaker	20-750-MACPCCB-F-3K0	1	Choose one circuit breaker. For specification and rating information, see AC Precharge Circuit Breaker on page 93.
	20-750-MACPCCB1-CD-5K0	1	
	20-750-MACPCCB-CDE-3K0	1	
AC precharge control board	20-750-MACPC1-*xx*	1	For specification and rating information, see AC Precharge Control Boards on page 127.

Frame 12 PowerFlex 755TR Drive IP00 Component Kits (continued)

Module or Kit Name	Catalog Number	Qty.	Description
AC precharge resistor bank	20-750-MACPR-*xx*-F12M	3	For specification and rating information, see AC Precharge Resistor Banks on page 94.
AC precharge TVSS module	20-750-MACP-*xx*-TVSS	1	For specification and rating information, see TVSS Modules on page 106.
AC precharge time delay relay	20-750-MACPC-TDR	1	For specification and rating information, see AC Precharge Time Delay Relay on page 94.
Circuit breaker mounting panels	20-750-MIBPNL2-F*nn*M	1	For specification and rating information, see Circuit Breaker Mounting Panels on page 116.
Control pod	20-750-MCPOD1-F8M	1	For specification and rating information, see Control Pod Assemblies on page 117.
Fiber transceiver boards	20-750-MFTB1-F8	7	See Fiber Transceiver Board on page 127.
AC bus bar (1000 mm)	20-750-MACBUS10-*x*K*x*	2	For specification and rating information, see Frame 8…15 AC Input Bus Bars on page 106.
DC bus bar (1000 mm)	20-750-MDCBUS10-*x*K*x*	1	For specification and rating information, see Frame 8…15 DC Bus Bars on page 108.
Control bus assembly (1000 mm)	20-750-MCBUS1-IB-F10M	1	See Control Bus Assemblies on page 110.
Control bus connector	20-750-MCTRLBUS-CONN2	1	See Control Bus Connectors on page 110.
Vent, input bay (1000 mm)	20-750-MVENTC*n*-F11M	1	For specification and rating information, see Ventilation Assemblies on page 116.
Bus support panels, lower (1000 mm)	20-750-MIBPNL1-F10M	1	See Bus Support and Divider Panels (Right and Left Sides) on page 116.
Power Bay (Converter, 800 mm)	—	2	See Cabinet-Level Kits on page 110 for Rittal part number.
Power module (Line side converter)	20-750-MI2-*xnnnxnnn*	4	Power module that is configured as a line side converter. For specification and rating information, see Frame 12 Module Selection on page 88.
LCL filter module	20-750-ML1-*xnnnxnnn*	2	For specification and rating information, see Frame 12 Module Selection on page 88.
LCL filter and two line side converters back panel and stab receptacles (800 mm)	20-750-MACR1-F9M	2	For specification and rating information, see Frame 8…15 Stab Receptacle Assemblies and Stab Receptacles with Back Panel and Bus Bars on page 108 to match power module rating.
DC link/fuse assembly	20-750-MDCL1-*xx*-F8M	4	For rating information, see DC Link/Fuse Assemblies on page 104.
DC common mode core	20-750-MDCCM1-F8M	4	For selection information, see DC Common Mode Core on page 105. DC common mode core assembled on the DC link/fuse assembly if EMC filtering is required.
AC input bus bars and fuses	20-750-MACL*n*-F9M	2	For specification and rating information, see Frame 8…15 AC Input Link Bus Bar and Fuse Assemblies on page 107. AC common mode core assembled with AC Link if EMC filtering is required.
AC common mode core	20-750-MACCM1-F8M	2	
DC bus bar (800 mm)	20-750-MDCBUS8-*x*K*x*	2	For specification and rating information, see Frame 8…15 DC Bus Bars on page 108.
AC bus bar (800 mm)	20-750-MACBUS8-*x*K*x*	2	For specification and rating information, see Frame 8…15 AC Input Bus Bars on page 106
Control bus assembly (800 mm)	20-750-MCBUS1-PB-F10M	2	See Control Bus Assemblies on page 110.
Vent (800 mm)	20-750-MVENT*n*-F10M	2	For specification and rating information, see Ventilation Assemblies on page 116.
Power and LCL filter module mounting brackets (800 mm)	20-750-MMNT1-F10M	2	See Power and LCL Filter Module Floor and Support Brackets on page 116.
Bus support panels, upper	20-750-MIPNL1-F8M	2	See Bus Support and Divider Panels (Right and Left Sides) on page 116.
Bus support panels, lower	20-750-MCPNL1-F8M	2	
Baffle (800 mm)	20-750-MIBAF1-F10M	2	See Baffle Assemblies on page 116.
Control bus connector	20-750-MCTRLBUS-CONN1	6	See Control Bus Connectors on page 110.
Power Bay (Converter, 600 mm)	—	1	See Cabinet-Level Kits on page 110 for Rittal part number.
Power module (Line side converter)	20-750-MI2-*xnnnxnnn*	1	Power module that is configured as a line side converter. For specification and rating information, see Frame 12 Module Selection on page 88.
LCL filter module	20-750-ML1-*xnnnxnnn*	1	For specification and rating information, see Frame 12 Module Selection on page 88.
LCL filter and one line side converter back panel and stab receptacles (600 mm)	20-750-MACR1-F8M	1	For specification and rating information, see Frame 8…15 Stab Receptacle Assemblies and Stab Receptacles with Back Panel and Bus Bars on page 108 to match power module rating.
DC link/fuse assembly	20-750-MDCL1-*xx*-F8M	1	For rating information, see DC Link/Fuse Assemblies on page 104.
DC common mode core	20-750-MDCCM1-F8M	1	For selection information, see DC Common Mode Core on page 105. DC common mode core assembled on the DC link/fuse assembly if EMC filtering is required.
AC input bus bars and fuses	20-750-MACL*n*-F9M	1	For specification and rating information, see Frame 8…15 AC Input Link Bus Bar and Fuse Assemblies on page 107. AC common mode core assembled with AC Link if EMC filtering is required.
AC common mode core	20-750-MACCM1-F8M	1	
DC bus bar (600 mm)	20-750-MDCBUS6-*x*K*x*	1	For specification and rating information, see Frame 8…15 DC Bus Bars on page 108.
AC bus bar (600 mm)	20-750-MACBUS6-*x*K*x*	1	For specification and rating information, see Frame 8…15 AC Input Bus Bars on page 106.

Frame 12 PowerFlex 755TR Drive IP00 Component Kits (continued)

Module or Kit Name	Catalog Number	Qty.	Description
Control bus assembly (600 mm)	20-750-MCBUS1-PB-F9M	1	See Control Bus Assemblies on page 110.
Vent (600 mm)	20-750-MVENT*n*-F9M	1	For specification and rating information, see Ventilation Assemblies on page 116.
Power and LCL filter module mounting brackets (600 mm)	20-750-MMNT1-F9M	1	See Power and LCL Filter Module Floor and Support Brackets on page 116.
Bus support panels, upper and lower (inverter bay)	20-750-MIPNL2-F8M	1	See Bus Support and Divider Panels (Right and Left Sides) on page 116.
Baffle (600 mm)	20-750-MIBAF1-F9M	1	See Baffle Assemblies on page 116.
Control bus connector	20-750-MCTRLBUS-CONN1	2	See Control Bus Connectors on page 110.
Power Bay (Inverter, 800 mm)	—	1	See Cabinet-Level Kits on page 110 for Rittal part number.
Power module (Motor side inverter)	20-750-MI*n-xnnnxnnn*	3	Power module that is configured as a motor side inverter. Base catalog numbers are listed in requirements tables under Frame 12 Module Selection on page 88. For specification and rating information, see Power Modules Options on page 92.
Three inverters back panel and stab receptacles (800 mm)	20-750-MIR*n*-F10M	1	For specification and rating information, see Frame 8…15 Stab Receptacle Assemblies and Stab Receptacles with Back Panel and Bus Bars on page 108 to match power module rating.
DC link/fuse assembly	20-750-MDCL1-*xx*-F8M	3	For rating information, see DC Link/Fuse Assemblies on page 104.
DC common mode core	20-750-MDCCM1-F8M	3	For selection information, see DC Common Mode Core on page 105. DC common mode core assembled on the DC link/fuse assembly if EMC filtering is required.
DC bus bar (800 mm)	20-750-MDCBUS8-*xKx*	1	For specification and rating information, see Frame 8…15 DC Bus Bars on page 108.
Control bus assembly (800 mm)	20-750-MCBUS1-PB-F10M	1	See Control Bus Assemblies on page 110.
Vent (800 mm)	20-750-MVENT*n*-F10M	1	For specification and rating information, see Ventilation Assemblies on page 116.
Power and LCL filter module mounting brackets (800 mm)	20-750-MMNT1-F10M	1	See Power and LCL Filter Module Floor and Support Brackets on page 116.
Bus support panels, upper	20-750-MIPNL1-F8M	1	See Bus Support and Divider Panels (Right and Left Sides) on page 116.
Bus support panels, lower	20-750-MCPNL1-F8M	1	
Baffle (800 mm)	20-750-MIBAF1-F10M	1	See Baffle Assemblies on page 116.
Control bus connector	20-750-MCTRLBUS-CONN1	3	See Control Bus Connectors on page 110.
Power Bay (Inverter, 600 mm)	—	1	See Cabinet-Level Kits on page 110 for Rittal part number.
Power module (Motor side inverter)	20-750-MI*n-xnnnxnnn*	2	Power module that is configured as a motor side inverter. Base catalog numbers are listed in requirements tables under Frame 12 Module Selection on page 88. For specification and rating information, see Power Modules Options on page 92.
Two inverters back panel and stab receptacles (600 mm)	20-750-MIR*n*-F9M	1	For specification and rating information, see Frame 8…15 Stab Receptacle Assemblies and Stab Receptacles with Back Panel and Bus Bars on page 108 to match power module rating.
DC link/fuse assembly	20-750-MDCL1-*xx*-F8M	2	For rating information, see DC Link/Fuse Assemblies on page 104.
DC common mode core	20-750-MDCCM1-F8M	2	For selection information, see DC Common Mode Core on page 105. DC common mode core assembled on the DC link/fuse assembly if EMC filtering is required.
DC bus bar (600 mm)	20-750-MDCBUS6-*xKx*	1	For specification and rating information, see Frame 8…15 DC Bus Bars on page 108.
Control bus assembly (600 mm)	20-750-MCBUS1-PB-F9M	1	See Control Bus Assemblies on page 110.
Vent (600 mm)	20-750-MVENT*n*-F9M	1	For specification and rating information, see Ventilation Assemblies on page 116.
Power and LCL filter module mounting brackets (600 mm)	20-750-MMNT1-F9M	1	See Power and LCL Filter Module Floor and Support Brackets on page 116.
Bus support panels, upper and lower (inverter bay)	20-750-MIPNL2-F8M	1	See Bus Support and Divider Panels (Right and Left Sides) on page 116.
Baffle (600 mm)	20-750-MIBAF1-F9M	1	See Baffle Assemblies on page 116.
Control bus connector	20-750-MCTRLBUS-CONN1	2 or 3[(1)]	See Control Bus Connectors on page 110.
Additional Kits			
DC bus splice	20-750-MDCSPL1-4K7	4	For splice material, see Frame 8…15 DC Bus Bar Splices on page 108.
AC bus splice, converter power bay	20-750-MACSPL2-4K7	3	For splice material, see Frame 8…15 AC Bus Bar Splices on page 107.
AC bus splice, inverter power bay	20-750-MACSPL1-F11M	1	

Frame 12 PowerFlex 755TR Drive IP00 Component Kits (continued)

Module or Kit Name	Catalog Number	Qty.	Description
Ground bus bar splice	20-750-MGNDSPL1	4	See Ground Bus Bar Splice on page 109.
Control bus splice	20-750-MCTRLBUS-SPL	5	See Control Bus Splice on page 110.
DC bus conditioner	20-750-MDCBUS-COND, or 20-750-MDCBUS1-COND	>	Quantity based on the ground scheme. See DC Bus Conditioner on page 105.

(1) A control bus connector is required for each DC link/fuse assembly and a torque accuracy module, when used.

Frame 12 PowerFlex 755TR Drive Options

Module or Kit Name	Description
Power / LCL filter module stab receptacle assembly aluminum	See Frame 8…15 Stab Receptacle Assemblies and Stab Receptacles with Back Panel and Bus Bars on page 108.
Power / LCL filter module stab receptacle assembly copper	
Splice for exit wiring bay	See Frame 8…15 AC Bus Bar Splices on page 107.
Side panels for exit wiring bay	See Bus Support and Divider Panels (Right and Left Sides) on page 116.
Torque accuracy module 400…690V	See Torque Accuracy Modules (TAM) on page 127.
Fiber-optic cable for power module to pod	See Fiber-optic Cable Kits on page 118.
Fiber-optic cable for AC precharge to pod	
Seismic-qualified enclosure hardware	See Kits for Seismic-qualified Installations on page 115.

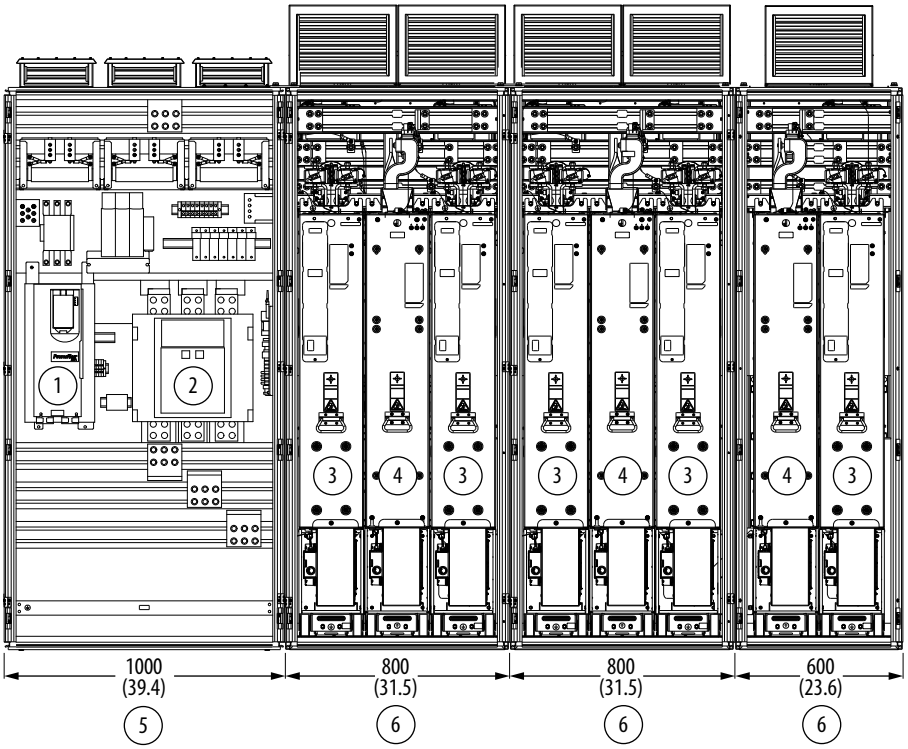
Frame 12 Equivalent PowerFlex 755TM Bus Supplies

This section provides selection information for frame 12 equivalent PowerFlex 755TM bus supplies.

Frame 12 PowerFlex 755TM Bus Supplies Normal Duty Ratings

Input Voltage	Amps (DC)	Power Rating
400	3801	2204 kW
480	3501	2436 kW
600	2489	2164 kW
690	2379	2379 kW

Frame 12 PowerFlex 755TM Bus Supply Major Components - Front View



Left-to-Right Orientation

Enclosures are 600 mm (23.6 in.) deep. IP54, UL Type 12 Enclosure Shown.

Item	Description
1	Control pod
2	AC precharge module
3	Line side converter

Item	Description
4	LCL filter
5	Input bay
6	Power bay

Frame 12 PowerFlex 755TM Bus Supply IP00 Component Kits

Module or Kit Name	Catalog Number	Qty.	Description
Input Bay (1000 mm)	—	1	See Cabinet-Level Kits on page 110 for Rittal part number.
AC precharge circuit breaker	20-750-MACPCCB-F-3K0	1	Choose one circuit breaker. For specification and rating information, see AC Precharge Circuit Breaker on page 93.
	20-750-MACPCCB1-CD-5K0	1	
	20-750-MACPCCB-CDE-3K0	1	
AC precharge control board	20-750-MACPC1-*xx*	1	For specification and rating information, see AC Precharge Control Boards on page 127.
AC precharge resistor bank	20-750-MACPR-*xx*-F12M	3	For specification and rating information, see AC Precharge Resistor Banks on page 94.

Frame 12 PowerFlex 755TM Bus Supply IP00 Component Kits (continued)

Module or Kit Name	Catalog Number	Qty.	Description
AC precharge TVSS module	20-750-MACP-*xx*-TVSS	1	For specification and rating information, see TVSS Modules on page 106.
AC precharge time delay relay	20-750-MACPC-TDR	1	For specification and rating information, see AC Precharge Time Delay Relay on page 94.
Circuit breaker mounting panels	20-750-MIBPNL2-F*nn*M	1	For specification and rating information, see Circuit Breaker Mounting Panels on page 116.
Control pod	20-750-MCPOD1-F8M	1	For specification and rating information, see Control Pod Assemblies on page 117.
Fiber transceiver boards	20-750-MFTB1-F8	5	See Fiber Transceiver Board on page 127.
AC bus bar (1000 mm)	20-750-MACBUS10-*xKx*	2	For specification and rating information, see Frame 8…15 AC Input Bus Bars on page 106.
DC bus bar (1000 mm)	20-750-MDCBUS10-*xKx*	1	For specification and rating information, see Frame 8…15 DC Bus Bars on page 108.
Control bus assembly (1000 mm)	20-750-MCBUS1-IB-F10M	1	See Control Bus Assemblies on page 110.
Control bus connector	20-750-MCTRLBUS-CONN2	1	See Control Bus Connectors on page 110.
Vent, input bay (1000 mm)	20-750-MVENTC*n*-F11M	1	For specification and rating information, see Ventilation Assemblies on page 116.
Bus support panels, lower (1000 mm)	20-750-MIBPNL1-F10M	1	See Bus Support and Divider Panels (Right and Left Sides) on page 116.
Power Bay (Converter, 800 mm)	—	2	See Cabinet-Level Kits on page 110 for Rittal part number.
Power module (Line side converter)	20-750-MI2-*xnnnxnnn*	4	Power module that is configured as a line side converter. For specification and rating information, see Frame 12 Module Selection on page 88.
LCL filter module	20-750-ML1-*xnnnxnnn*	2	For specification and rating information, see Frame 12 Module Selection on page 88.
LCL filter and two line side converters back panel and stab receptacles (800 mm)	20-750-MACR1-F9M	2	For specification and rating information, see Frame 8…15 Stab Receptacle Assemblies and Stab Receptacles with Back Panel and Bus Bars on page 108 to match power module rating.
DC link/fuse assembly	20-750-MDCL1-*xx*-F8M	4	For rating information, see DC Link/Fuse Assemblies on page 104.
DC common mode core	20-750-MDCCM1-F8M	4	For selection information, see DC Common Mode Core on page 105. DC common mode core assembled on the DC link/fuse assembly if EMC filtering is required.
AC input bus bars and fuses	20-750-MACL*n*-F9M	2	For specification and rating information, see Frame 8…15 AC Input Link Bus Bar and Fuse Assemblies on page 107. AC common mode core assembled with AC Link if EMC filtering is required.
AC common mode core	20-750-MACCM1-F8M	2	
DC bus bar (800 mm)	20-750-MDCBUS8-*xKx*	2	For specification and rating information, see Frame 8…15 DC Bus Bars on page 108.
AC bus bar (800 mm)	20-750-MACBUS8-*xKx*	2	For specification and rating information, see Frame 8…15 AC Input Bus Bars on page 106.
Control bus assembly (800 mm)	20-750-MCBUS1-PB-F10M	2	See Control Bus Assemblies on page 110.
Control bus connector	20-750-MCTRLBUS-CONN1	6	See Control Bus Connectors on page 110.
Vent (800 mm)	20-750-MVENT*n*-F10M	2	For specification and rating information, see Ventilation Assemblies on page 116.
Bus support panels, upper	20-750-MIPNL1-F8M	2	See Bus Support and Divider Panels (Right and Left Sides) on page 116.
Bus support panels, lower	20-750-MCPNL1-F8M	2	
Power and LCL filter module mounting brackets (800 mm)	20-750-MMNT1-F10M	2	See Power and LCL Filter Module Floor and Support Brackets on page 116.
Baffle (800 mm)	20-750-MIBAF1-F10M	2	See Baffle Assemblies on page 116.
Power Bay (Converter, 600 mm)	—	1	See Cabinet-Level Kits on page 110 for Rittal part number.
Power module (Line side converter)	20-750-MI2-*xnnnxnnn*	1	Power module that is configured as a line side converter. For specification and rating information, see Frame 12 Module Selection on page 88.
LCL filter module	20-750-ML1-*xnnnxnnn*	1	For specification and rating information, see Frame 12 Module Selection on page 88.
LCL filter and one line side converter back panel and stab receptacles (600 mm)	20-750-MACR1-F8M	1	For specification and rating information, see Frame 8…15 Stab Receptacle Assemblies and Stab Receptacles with Back Panel and Bus Bars on page 108 to match power module rating.
DC link/fuse assembly	20-750-MDCL1-*xx*-F8M	1	For rating information, see DC Link/Fuse Assemblies on page 104.
DC common mode core	20-750-MDCCM1-F8M	1	For selection information, see DC Common Mode Core on page 105. DC common mode core assembled on the DC link/fuse assembly if EMC filtering is required.
AC input bus bars and fuses	20-750-MACL*n*-F9M	1	For specification and rating information, see Frame 8…15 AC Input Link Bus Bar and Fuse Assemblies on page 107. AC common mode core assembled with AC Link if EMC filtering is required.
AC common mode core	20-750-MACCM1-F8M	1	
DC bus bar (600 mm)	20-750-MDCBUS6-*xKx*	1	For specification and rating information, see Frame 8…15 DC Bus Bars on page 108.
AC bus bar (600 mm)	20-750-MACBUS6-*xKx*	1	For specification and rating information, see Frame 8…15 AC Input Bus Bars on page 106.
Control bus assembly (600 mm)	20-750-MCBUS1-PB-F9M	1	See Control Bus Assemblies on page 110.

Frame 12 PowerFlex 755TM Bus Supply IP00 Component Kits (continued)

Module or Kit Name	Catalog Number	Qty.	Description
Control bus connector	20-750-MCTRLBUS-CONN1	2	See Control Bus Connectors on page 110.
Vent (600 mm)	20-750-MVENT*n*-F9M	1	For specification and rating information, see Ventilation Assemblies on page 116
Bus support panels, upper	20-750-MIPNL1-F8M	1	See Bus Support and Divider Panels (Right and Left Sides) on page 116.
Bus support panels, lower	20-750-MCPNL1-F8M	1	
Power and LCL filter module mounting brackets (600 mm)	20-750-MMNT1-F9M	1	See Power and LCL Filter Module Floor and Support Brackets on page 116.
Baffle (600 mm)	20-750-MIBAF1-F9M	1	See Baffle Assemblies on page 116.
Additional Kits			
DC bus splice	20-750-MDCSPL1-4K7	3	For splice material, see Frame 8…15 DC Bus Bar Splices on page 108.
AC bus splice, converter power bay	20-750-MACSPL2-4K7	3	For splice material, see Frame 8…15 AC Bus Bar Splices on page 107.
Ground bus bar splice	20-750-MGNDSPL1	2	See Ground Bus Bar Splice on page 109.
Control bus splice	20-750-MCTRLBUS-SPL	3	See Control Bus Splice on page 110.
DC bus conditioner	20-750-MDCBUS-COND, or 20-750-MDCBUS1-COND	>	Quantity based on the ground scheme. See DC Bus Conditioner on page 105.

Frame 12 PowerFlex 755TM Bus Supply Options

Module or Kit Name	Description
Power / LCL filter module stab receptacle assembly aluminum	See Frame 8…15 Stab Receptacle Assemblies and Stab Receptacles with Back Panel and Bus Bars on page 108.
Power / LCL filter module stab receptacle assembly copper	
Splice for exit wiring bay	See Frame 8…15 AC Bus Bar Splices on page 107.
Side panels for exit wiring bay	See Bus Support and Divider Panels (Right and Left Sides) on page 116.
Fiber-optic cable for power module to pod	See Fiber-optic Cable Kits on page 118.
Fiber-optic cable for AC precharge to pod	
Seismic-qualified enclosure hardware	See Kits for Seismic-qualified Installations on page 115.

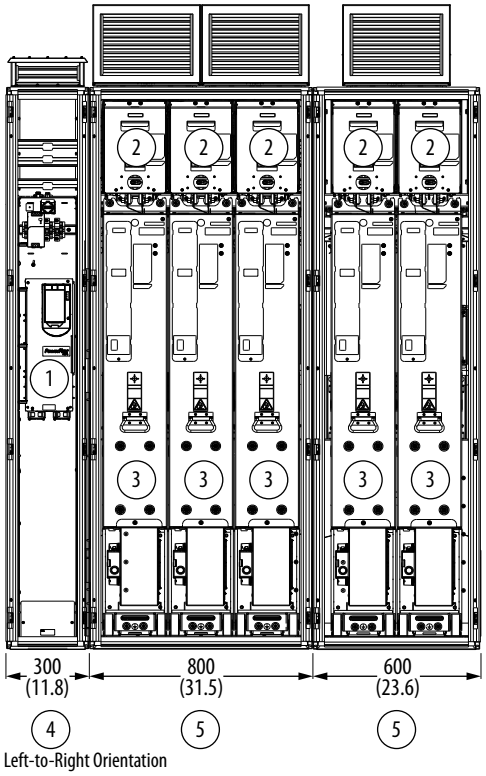
Frame 12 Equivalent PowerFlex 755TM Common Bus Inverters (CBI)

This section provides selection information for frame 12 equivalent PowerFlex 755TM common bus inverters.

Frame 12 PowerFlex 755TM Common Bus Inverters Normal Duty Ratings

Input Voltage	Amps (AC)	Power Rating
400	3542	2000 kW
480	3404	3000 Hp
600	2420	2500 Hp
690	2318	2300 kW

Frame 12 PowerFlex 755TM Common Bus Inverter Major Components



Left-to-Right Orientation

Enclosures are 600 mm (23.6 in.) deep. IP54, UL Type 12 Enclosure Shown.

Item	Description
1	Control pod
2	DC precharge module
3	Motor side inverter

Item	Description
4	Control bay
5	Power bay

Frame 12 PowerFlex 755TM Common Bus Inverter IP00 Component Kits

Module or Kit Name	Catalog Number	Qty.	Description
Control Bay (300 mm)	—	1	See Cabinet-Level Kits on page 110 for Rittal part number.
Control pod	20-750-MCPOD1-F8M	1	For specification and rating information, see Control Pod Assemblies on page 117.
Fiber transceiver boards	20-750-MFTB1-F8	4 or 5[(1)]	See Fiber Transceiver Board on page 127
DC bus bar (300 mm)	20-750-MDCBUS3-*xKx*	1	For specification and rating information, see Frame 8…15 DC Bus Bars on page 108.
Control bus assembly (300 mm)	20-750-MCBUS1-CB-F8M	1	See Control Bus Assemblies on page 110
Vent (300 mm)	20-750-MVENTC2-F8M	1	For specification and rating information, see Ventilation Assemblies on page 116.

Frame 12 PowerFlex 755TM Common Bus Inverter IP00 Component Kits (continued)

Module or Kit Name	Catalog Number	Qty.	Description
Power Bay (Inverter, 800 mm)	—	1	See Cabinet-Level Kits on page 110 for Rittal part number.
Power module (Motor side inverter)	20-750-MI2-*xnnnxnnn*	3	Power module that is configured as a motor side inverter. Choose one set of five modules. For specification and rating information, see Frame 11 Module Selection on page 87.
	20-750-MI3-*xnnnxnnn*	3	
Inverter back panel and stab receptacles (800 mm)	20-750-MIR*n*-F10M	1	For specification and rating information, see Frame 8…15 Stab Receptacle Assemblies and Stab Receptacles with Back Panel and Bus Bars on page 108 to match power module rating.
DC link/fuse assembly	20-750-MDCL1-*xx*-F8M	3	For rating information, see DC Link/Fuse Assemblies on page 104. Not required if DC precharge modules are used.
DC precharge module (optional)	20-750-MDCP*n*-*xx*-F8M	3	For specification and rating information, see DC Precharge Modules on page 104.
DC common mode core	20-750-MDCCM1-F8M	3	For selection information, see DC Common Mode Core on page 105. DC common mode core assembled on the DC link/fuse assembly if EMC filtering is required.
DC bus bar (800 mm)	20-750-MDCBUS8-*xKx*	1	For specification and rating information, see Frame 8…15 DC Bus Bars on page 108.
Control bus assembly (800 mm)	20-750-MCBUS1-PB-F10M	1	See Control Bus Assemblies on page 110.
Control bus connector	20-750-MCTRLBUS-CONN1	3	See Control Bus Connectors on page 110.
Vent, power bay (800 mm)	20-750-MVENTx-F10M	1	For specification and rating information, see Ventilation Assemblies on page 116.
Power module mounting bracket (800 mm)	20-750-MMNT1-F10M	1	See Power and LCL Filter Module Floor and Support Brackets on page 116.
Bus support side panels, upper and lower	20-750-MIPNL2-F8M	1	See Bus Support and Divider Panels (Right and Left Sides) on page 116.
Baffle (800 mm)	20-750-MIBAF1-F10M	1	See Baffle Assemblies on page 116.
Power Bay (Inverter, 600 mm)	—	1	See Cabinet-Level Kits on page 110 for Rittal part number.
Power module (Motor side inverter)	20-750-MI2-*xnnnxnnn*	2	Power module that is configured as a motor side inverter. Choose one set of five modules. For specification and rating information, see Frame 11 Module Selection on page 87.
	20-750-MI3-*xnnnxnnn*	2	
Inverter back panel and stab receptacles (600 mm)	20-750-MIR*n*-F9M	1	For specification and rating information, see Frame 8…15 Stab Receptacle Assemblies and Stab Receptacles with Back Panel and Bus Bars on page 108 to match power module rating.
DC link/fuse assembly	20-750-MDCL1-*xx*-F8M	2	For rating information, see DC Link/Fuse Assemblies on page 104. Not required if DC precharge modules are used.
DC precharge module (optional)	20-750-MDCP*n*-*xx*-F8M	2	For specification and rating information, see DC Precharge Modules on page 104.
DC common mode core	20-750-MDCCM1-F8M	2	For selection information, see DC Common Mode Core on page 105. DC common mode core assembled on the DC link/fuse assembly if EMC filtering is required.
DC bus bar (600 mm)	20-750-MDCBUS6-*xKx*	1	For specification and rating information, see Frame 8…15 DC Bus Bars on page 108.
Control bus assembly (600 mm)	20-750-MCBUS1-PB-F9M	1	See Control Bus Assemblies on page 110.
Control bus connector	20-750-MCTRLBUS-CONN1	2 or 3[(2)]	See Control Bus Connectors on page 110.
Vent, power bay (600 mm)	20-750-MVENTx-F9M	1	For specification and rating information, see Ventilation Assemblies on page 116.
Power module mounting bracket (600 mm)	20-750-MMNT1-F9M	1	See Power and LCL Filter Module Floor and Support Brackets on page 116.
Bus support side panels, upper and lower	20-750-MIPNL2-F8M	1	See Bus Support and Divider Panels (Right and Left Sides) on page 116.
Baffle (600 mm)	20-750-MIBAF1-F9M	1	See Baffle Assemblies on page 116.
Additional Kits			
DC bus splice	20-750-MDCSPL1-4K7	2	For splice material, see Frame 8…15 DC Bus Bar Splices on page 108.
AC bus splice, inverter power bay	20-750-MACSPL1-F11M	1	For splice material, see Frame 8…15 AC Bus Bar Splices on page 107.
Ground bus bar splice	20-750-MGNDSPL1	1	See Ground Bus Bar Splice on page 109.
Control bus splice	20-750-MCTRLBUS-SPL	2	See Control Bus Splice on page 110.

(1) Five fiber transceiver boards are required when a torque accuracy module is used.
(2) A control bus connector is required for each DC link/fuse assembly and a torque accuracy module, when used.

Frame 12 PowerFlex 755TM Common Bus Inverter Options

Module or Kit Name	Description
Power / LCL filter module stab receptacle assembly aluminum	See Frame 8…15 Stab Receptacle Assemblies and Stab Receptacles with Back Panel and Bus Bars on page 108.
Power / LCL filter module stab receptacle assembly copper	
Splice for exit wiring bay	See Frame 8…15 AC Bus Bar Splices on page 107.
Side panels for exit wiring bay	See Bus Support and Divider Panels (Right and Left Sides) on page 116.
Torque accuracy module 400…690V	See Torque Accuracy Modules (TAM) on page 127.
Fiber-optic cable for power module to pod	See Fiber-optic Cable Kits on page 118.
Fiber-optic cable for AC precharge to pod	
Seismic-qualified enclosure hardware	See Kits for Seismic-qualified Installations on page 115.

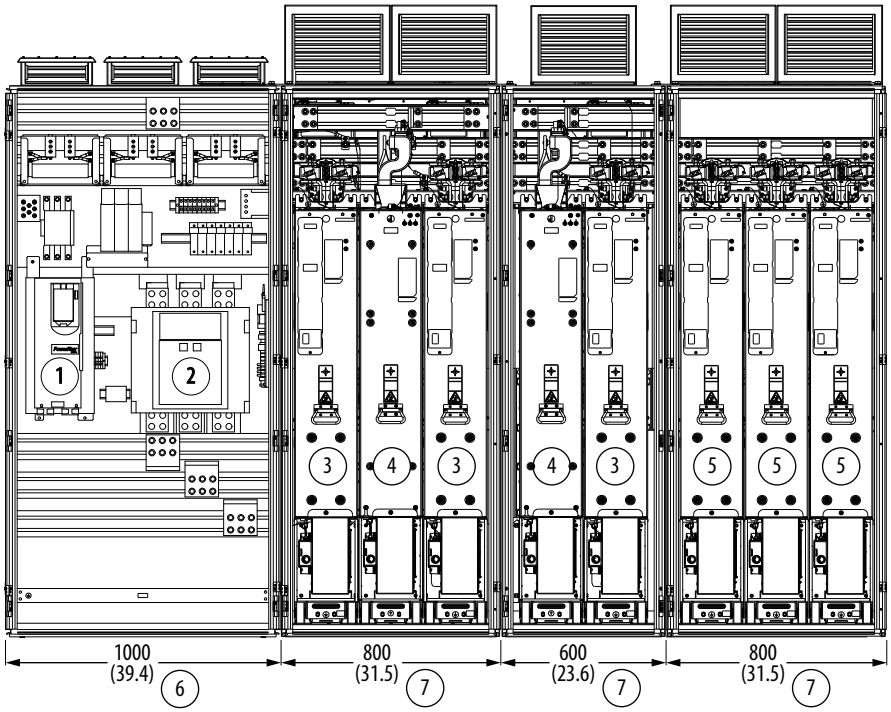
Frame 13 Equivalent PowerFlex 755TR Drives

This section provides selection information for frame 13 equivalent PowerFlex 755TR drives.

Frame 13 PowerFlex 755TR Drives Normal Duty Ratings

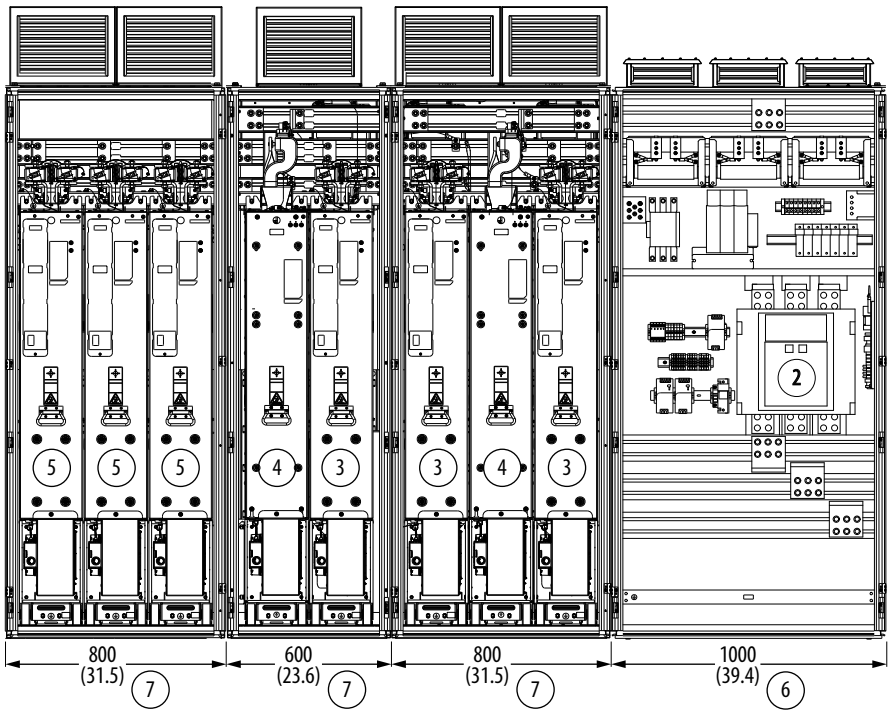
Input Voltage	Amps (AC)	Power Rating
400	4235	2200 kW
480	4070	3600 Hp
600	2998	3100 Hp
690	2778	2750 kW

Frame 13 PowerFlex 755TR Drives Major Components - Front Views



Left-to-Right Orientation

Enclosures are 600 mm (23.6 in.) deep.
IP54, UL Type 12 Enclosure Shown.

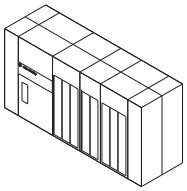


Right-to-Left Orientation

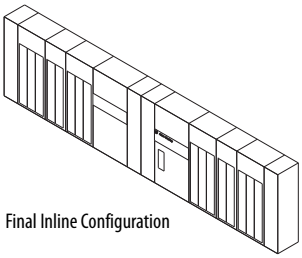
Item	Description
1	Control pod
2	AC precharge section
3	Line side converter
4	LCL filter

Item	Description
5	Motor side inverter
6	Input bay
7	Power bay

Entry and exit wire bays are omitted from this illustration.



Final Back-to-Back Configuration



Final Inline Configuration

Frame 13 PowerFlex 755TR Drive IP00 Component Kits

Module or Kit Name	Catalog Number	Qty.	Description
Input Bay (1000 mm)	—	2	See Cabinet-Level Kits on page 110 for Rittal part number.
AC precharge circuit breaker	20-750-MACPCCB-*x*-2K0	2	Choose one set of circuit breakers. For specification and rating information, see AC Precharge Circuit Breaker on page 93.
	20-750-MACPCCB-CDE-3K0	2	
AC precharge circuit breaker bus bars	20-750-MCBBUS1-*nxn*	2	For specification and rating information, see Frame 10…15 AC Precharge Circuit Breaker Bus Bars on page 107.
AC precharge control board	20-750-MACPC1-*xx*	2	For specification and rating information, see AC Precharge Control Boards on page 127.
AC precharge resistor bank	20-750-MACPR-*xx*-F10M	6	For specification and rating information, see AC Precharge Resistor Banks on page 94.
AC precharge TVSS module	20-750-MACP-*xx*-TVSS	2	For specification and rating information, see TVSS Modules on page 106.
AC precharge time delay relay	20-750-MACPC-TDR	2	For specification and rating information, see AC Precharge Time Delay Relay on page 94.
Circuit breaker mounting panels	20-750-MIBPNL2-F*nn*M	2	For specification and rating information, see Circuit Breaker Mounting Panels on page 116.
Control pod	20-750-MCPOD*n*-F8M	1	For specification and rating information, see Control Pod Assemblies on page 117.
Fiber transceiver boards	20-750-MFTB1-F8	10	See Fiber Transceiver Board on page 127.
AC bus bar (1000 mm)	20-750-MACBUS10-*nKn*	4	For bus material, see Frame 8…15 AC Input Bus Bars on page 106.
DC bus bar (1000 mm)	20-750-MDCBUS10-*xKx*	2	For specification and rating information, see Frame 8…15 DC Bus Bars on page 108.
Control bus assembly (1000 mm)	20-750-MCBUS1-IB-F10M	2	See Control Bus Assemblies on page 110.
Control bus connector	20-750-MCTRLBUS-CONN2	2	See Control Bus Connectors on page 110.
Vent (1000 mm)	20-750-MVENTC*n*-F11M	2	For specification and rating information, see Ventilation Assemblies on page 116.
Bus support panels, lower (1000 mm)	20-750-MIBPNL1-F10M	2	See Bus Support and Divider Panels (Right and Left Sides) on page 116.
Power Bay (Converter, 800 mm)	—	2	See Cabinet-Level Kits on page 110 for Rittal part number.
Power module (Line side converter)	20-750-MI2-*xnnnxnnn*	4	Power module that is configured as a line side converter. For specification and rating information, see Frame 10 Module Selection on page 86.
LCL filter module	20-750-ML1-*xnnnxnnn*	2	For specification and rating information, see Frame 10 Module Selection on page 86.
LCL filter and two line side converters back panel and stab receptacles (800 mm)	20-750-MACR1-F9M	2	For specification and rating information, see Frame 8…15 Stab Receptacle Assemblies and Stab Receptacles with Back Panel and Bus Bars on page 108 to match power module rating.
DC link/fuse assembly	20-750-MDCL1-*xx*-F8M	4	For rating information, see DC Link/Fuse Assemblies on page 104.
DC common mode cores	20-750-MDCCM1-F8M	4	For selection information, see DC Common Mode Core on page 105. DC common mode core assembled on the DC link/fuse assembly if EMC filtering is required.
AC input bus bars and fuses	20-750-MACL*n*-F9M	2	For specification and rating information, see Frame 8…15 AC Input Link Bus Bar and Fuse Assemblies on page 107.
AC common mode cores	20-750-MACCM1-F8M	2	For selection information, see AC Common Mode Core on page 107. AC common mode core assembled on the LCL filter module if EMC filtering is required.
DC bus bar (800 mm)	20-750-MDCBUS8-*nKn*	2	For specification and rating information, see Frame 8…15 DC Bus Bars on page 108.
AC bus bar (800 mm)	20-750-MACBUS8-*nKn*	2	For bus material, see Frame 8…15 AC Input Bus Bars on page 106.
Control bus assembly (800 mm)	20-750-MCBUS1-PB-F10M	2	See Control Bus Assemblies on page 110.
Control bus connector	20-750-MCTRLBUS-CONN1	6	See Control Bus Connectors on page 110.
Vent (800 mm)	20-750-MVENT*n*-F10M	2	For specification and rating information, see Ventilation Assemblies on page 116.
Power and LCL filter module mounting (800 mm)	20-750-MMNT1-F10M	2	See Power and LCL Filter Module Floor and Support Brackets on page 116.
Bus support panels, upper	20-750-MIPNL1-F8M	2	See Bus Support and Divider Panels (Right and Left Sides) on page 116.
Bus support panels, lower	20-750-MCPNL1-F8M	2	
Baffle (800 mm)	20-750-MIBAF1-F10M	2	See Baffle Assemblies on page 116.
Power Bay (Converter, 600 mm)	—	2	See Cabinet-Level Kits on page 110 for Rittal part number.
Power module (Line side converter)	20-750-MI2-*xnnnxnnn*	2	Power module that is configured as a line side converter. For specification and rating information, see Frame 10 Module Selection on page 86.
LCL filter module	20-750-ML1-*xnnnxnnn*	2	For specification and rating information, see Frame 10 Module Selection on page 86.
LCL filter and one line side converter back panel and stab receptacles (600 mm)	20-750-MACR1-F8M	2	For specification and rating information, see Frame 8…15 Stab Receptacle Assemblies and Stab Receptacles with Back Panel and Bus Bars on page 108 to match power module rating.
DC link/fuse assembly	20-750-MDCL1-*xx*-F8M	2	For rating information, see DC Link/Fuse Assemblies on page 104.
DC common mode cores	20-750-MDCCM1-F8M	2	For selection information, see DC Common Mode Core on page 105. DC common mode core assembled on the DC link/fuse assembly if EMC filtering is required.

Frame 13 PowerFlex 755TR Drive IP00 Component Kits (continued)

Module or Kit Name	Catalog Number	Qty.	Description
AC input bus bars and fuses	20-750-MACL*n*-F9M	2	For specification and rating information, see Frame 8…15 AC Input Link Bus Bar and Fuse Assemblies on page 107.
AC common mode cores	20-750-MACCM1-F8M	2	For selection information, see AC Common Mode Core on page 107. AC common mode core assembled on the LCL filter module if EMC filtering is required.
DC bus bar (600 mm)	20-750-MDCBUS6-*n*K*n*	2	For specification and rating information, see Frame 8…15 DC Bus Bars on page 108.
AC bus bar (600 mm)	20-750-MACBUS6-*n*K*n*	2	For bus material, see Frame 8…15 AC Input Bus Bars on page 106.
Control bus assembly (600 mm)	20-750-MCBUS1-PB-F9M	2	See Control Bus Assemblies on page 110.
Control bus connector	20-750-MCTRLBUS-CONN1	4	See Control Bus Connectors on page 110.
Vent (600 mm)	20-750-MVENT*n*-F9M	2	For specification and rating information, see Ventilation Assemblies on page 116.
Power and LCL filter module mounting (600 mm)	20-750-MMNT1-F9M	2	See Power and LCL Filter Module Floor and Support Brackets on page 116.
Bus support panels, upper and lower (inverter bay)	20-750-MIPNL2-F8M	2	See Bus Support and Divider Panels (Right and Left Sides) on page 116.
Baffle (600 mm)	20-750-MIBAF1-F9M	2	See Baffle Assemblies on page 116
Power Bay (Inverter, 800 mm)	—	2	See Cabinet-Level Kits on page 110 for Rittal part number.
Power module (Motor side inverter)	20-750-MI*n*-*xnnnxnnn*	6	Power module that is configured as a motor side inverter. Base catalog numbers are listed in requirements tables under Frame 10 Module Selection on page 86. For specification and rating information, see Power Modules Options on page 92.
Three motor side inverters back panel and stab receptacles (800 mm)	20-750-MIR*n*-F10M	2	For specification and rating information, see Frame 8…15 Stab Receptacle Assemblies and Stab Receptacles with Back Panel and Bus Bars on page 108 to match power module rating.
DC link/fuse assembly	20-750-MDCL1-*xx*-F8M	6	For rating information, see DC Link/Fuse Assemblies on page 104.
DC common mode cores	20-750-MDCCM1-F8M	6	For selection information, see DC Common Mode Core on page 105. DC common mode core assembled on the DC link/fuse assembly if EMC filtering is required.
DC bus bar (800 mm)	20-750-MDCBUS8-*n*K*n*	2	For specification and rating information, see Frame 8…15 DC Bus Bars on page 108.
Control bus assembly (800 mm)	20-750-MCBUS1-PB-F10M	2	See Control Bus Assemblies on page 110.
Control bus connector	20-750-MCTRLBUS-CONN1	6	See Control Bus Connectors on page 110.
Vent (800 mm)	20-750-MVENT*n*-F10M	2	For specification and rating information, see Ventilation Assemblies on page 116.
Power and LCL filter module mounting (800 mm)	20-750-MMNT1-F10M	2	See Power and LCL Filter Module Floor and Support Brackets on page 116.
Bus support panels, upper	20-750-MIPNL1-F8M	2	See Bus Support and Divider Panels (Right and Left Sides) on page 116.
Bus support panels, lower	20-750-MCPNL1-F8M	2	
Baffle (800 mm)	20-750-MIBAF1-F10M	2	See Baffle Assemblies on page 116.
Wire Entry/Exit Bay (400 mm) (Inline Configuration Only)	—	4	See Cabinet-Level Kits on page 110 for Rittal part number.
AC bus bars (400 mm)	20-750-MTEBUS2-3K0	4	For specification and rating information, Frame 8…15 AC Input Bus Bars on page 106.
Bus support panels, upper and lower (wire bay)	20-750-MWBPNL1-F8M	4	See Bus Support and Divider Panels (Right and Left Sides) on page 116.
Wire Entry Bay (400 mm) (Back-to-Back Configuration Only)	20-750-DCVBB-400-FBR, or 20-750-DCVBB-400C-FBR	1	Choose one of the entry wire bay kits. See Cabinet-Level Kits on page 110.
DC Voltage Balance Bay (400 mm) (Back-to-Back Configuration Only)	20-750-DCVBB-400, or 20-750-DCVBB-400C	1	Choose one of the DC voltage balance bay kits. See Cabinet-Level Kits on page 110.
Additional Kits			
DC bus splice	20-750-MDCSPL1-*n*K*n*	6	For splice material, see Frame 8…15 DC Bus Bar Splices on page 108.
AC bus splice, converter power bay and wire entry bay	20-750-MACSPL2-*n*K*n*	6	For splice material, see Frame 8…15 AC Bus Bar Splices on page 107.
AC bus splice, wire exit bay	20-750-MTESPL*n*-F1*n*M	2	
Ground bus bar splice	20-750-MGNDSPL1	8	See Ground Bus Bar Splice on page 109.
Control bus splice	20-750-MCTRLBUS-SPL	10	See Control Bus Splice on page 110.
DC bus conditioner	20-750-MDCBUS-COND, or 20-750-MDCBUS1-COND	>	Quantity based on the ground scheme. See DC Bus Conditioner on page 105.

Frame 13 PowerFlex 755TR Drive Options

Module or Kit Name	Description
Power / LCL filter module stab receptacle assembly aluminum	See Frame 8…15 Stab Receptacle Assemblies and Stab Receptacles with Back Panel and Bus Bars on page 108.
Power / LCL filter module stab receptacle assembly copper	
AC bus bars, entry/exit wire bay	See Frame 8…15 AC Bus Bars (Top Cable Exit/Entry Wiring Bay) on page 106.
Bus bar splice for entry/exit wiring bay	See Frame 8…15 AC Bus Bar Splices on page 107.
Bus bar splice for entry/exit wire bay, right-to-left orientation	
Bus support panels, entry/exit wire bay	See Bus Support and Divider Panels (Right and Left Sides) on page 116.
Torque accuracy module 400…690V	See Torque Accuracy Modules (TAM) on page 127.
Fiber-optic cable for power module to pod	See Fiber-optic Cable Kits on page 118.
Fiber-optic cable for AC precharge to pod	

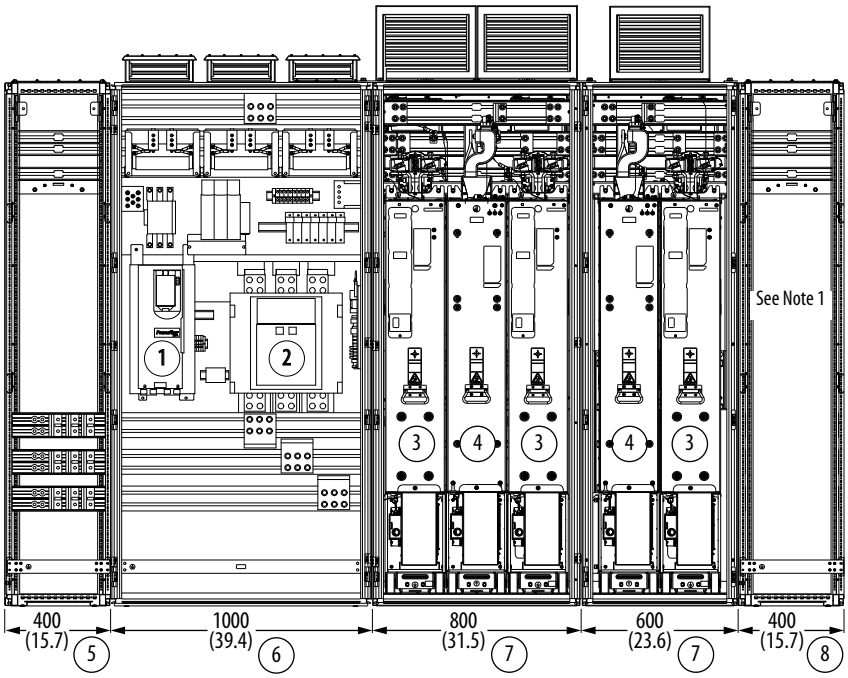
Frame 13 Equivalent PowerFlex 755TM Bus Supplies

This section provides selection information for frame 13 equivalent PowerFlex 755TM bus supplies.

Frame 13 PowerFlex 755TM Bus Supplies Normal Duty Ratings

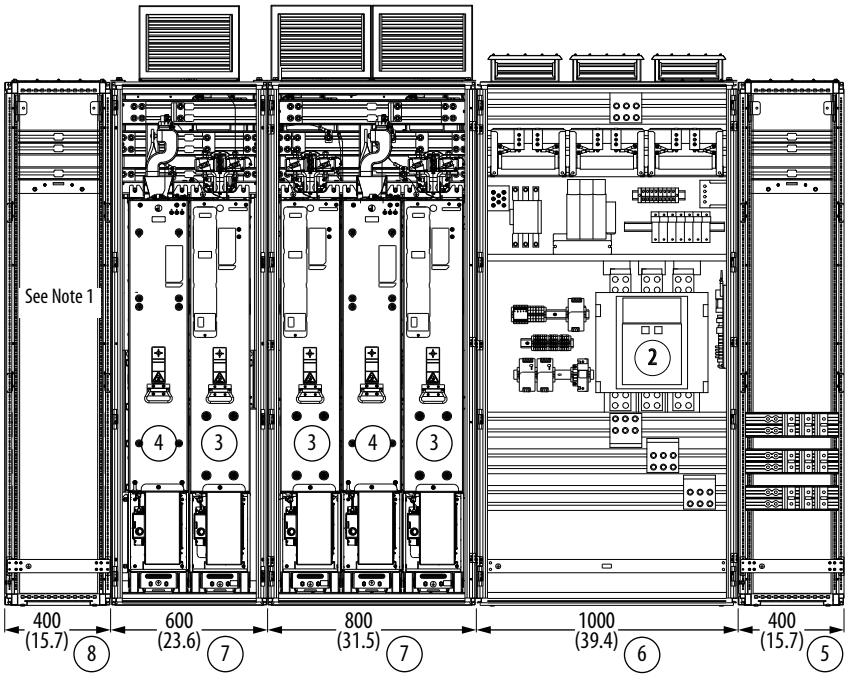
Input Voltage	Amps (DC)	Power Rating
400	4546	2634 kW
480	4186	2912 kW
600	3080	2678 kW
690	2849	2849 kW

Frame 13 PowerFlex 755TM Bus Supply Major Components - Front Views



Left-to-Right Orientation

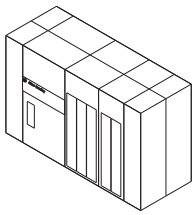
Enclosures are 600 mm (23.6 in.) deep.
IP54, UL Type 12 Enclosure Shown.



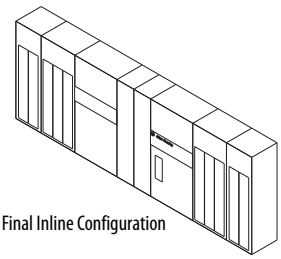
Right-to-Left Orientation

Note 1: 400 mm (15.7 in.) voltage balance bay only used with back-to-back configuration.

Item	Description	Item	Description
1	Control pod	5	Entry wire bay
2	AC precharge section	6	Input bay
3	Line side converter	7	Power bay
4	LCL filter	8	Voltage balance bay



Final Back-to-Back Configuration



Final Inline Configuration

Frame 13 PowerFlex 755TM Bus Supply IP00 Component Kits

Module or Kit Name	Catalog Number	Qty.	Description
Input Bay (1000 mm)	—	2	See Cabinet-Level Kits on page 110 for Rittal part number.
AC precharge circuit breaker	20-750-MACPCCB-*x*-2K0	2	Choose one set of circuit breakers. For specification and rating information, see AC Precharge Circuit Breaker on page 93.
	20-750-MACPCCB-CDE-3K0	2	
AC precharge circuit breaker bus bars	20-750-MCBBUS1-*nxn*	2	For specification and rating information, see Frame 10…15 AC Precharge Circuit Breaker Bus Bars on page 107.
AC precharge control board	20-750-MACPC1-*xx*	2	For specification and rating information, see AC Precharge Control Boards on page 127.
AC precharge resistor bank	20-750-MACPR-*xx*-F10M	2	For specification and rating information, see AC Precharge Resistor Banks on page 94.
AC precharge TVSS module	20-750-MACP-*xx*-TVSS	2	For specification and rating information, see TVSS Modules on page 106.
AC precharge time delay relay	20-750-MACPC-TDR	2	For specification and rating information, see AC Precharge Time Delay Relay on page 94.
Circuit breaker mounting panels	20-750-MIBPNL2-F*nn*M	2	For specification and rating information, see Circuit Breaker Mounting Panels on page 116.
Control pod	20-750-MCPOD*n*-F8M	1	For specification and rating information, see Control Pod Assemblies on page 117.
Fiber transceiver boards	20-750-MFTB1-F8	8	See Fiber Transceiver Board on page 127.
AC bus bar (1000 mm)	20-750-MACBUS10-*nKn*	4	For bus material, see Frame 8…15 AC Input Bus Bars on page 106.
DC bus bar (1000 mm)	20-750-MDCBUS10-*xKx*	2	For specification and rating information, see Frame 8…15 DC Bus Bars on page 108.
Control bus assembly (1000 mm)	20-750-MCBUS1-IB-F10M	2	See Control Bus Assemblies on page 110.
Control bus connector	20-750-MCTRLBUS-CONN2	2	See Control Bus Connectors on page 110.
Vent (1000 mm)	20-750-MVENTC*n*-F11M	2	For specification and rating information, see Ventilation Assemblies on page 116.
Bus support panels, lower (1000 mm)	20-750-MIBPNL1-F10M	2	See Bus Support and Divider Panels (Right and Left Sides) on page 116.
Power Bay (Converter, 800 mm)	—	2	See Cabinet-Level Kits on page 110 for Rittal part number.
Power module (Line side converter)	20-750-MI*n*-*xnnnxnnn*	4	Power module that is configured as a line side converter. For specification and rating information, see Frame 10 Module Selection on page 86.
LCL filter module	20-750-ML1-*xnnnxnnn*	2	For specification and rating information, see Frame 10 Module Selection on page 86.
LCL filter and two line side converters back panel and stab receptacles (800 mm)	20-750-MACR1-F9M	2	For specification and rating information, see Frame 8…15 Stab Receptacle Assemblies and Stab Receptacles with Back Panel and Bus Bars on page 108 to match power module rating.
DC link/fuse	20-750-MDCL1-*xx*-F8M	4	For rating information, see DC Link/Fuse Assemblies on page 104.
DC common mode cores	20-750-MDCCM1-F8M	4	For selection information, see DC Common Mode Core on page 105. DC common mode core assembled on the DC link/fuse assembly if EMC filtering is required.
AC input bus bars and fuses	20-750-MACL*n*-F9M	2	For specification and rating information, see Frame 8…15 AC Input Link Bus Bar and Fuse Assemblies on page 107.
AC common mode core	20-750-MACCM1-F8M	2	For selection information, see AC Common Mode Core on page 107. AC common mode core assembled on the LCL filter module if EMC filtering is required.
DC bus bar (800 mm)	20-750-MDCBUS8-*xKx*	2	For specification and rating information, see Frame 8…15 DC Bus Bars on page 108.
AC bus bar (800 mm)	20-750-MACBUS8-*xKx*	2	For specification and rating information, see Frame 8…15 AC Input Bus Bars on page 106.
Control bus assembly (800 mm)	20-750-MCBUS1-PB-F10M	2	See Control Bus Assemblies on page 110.
Control bus connector	20-750-MCTRLBUS-CONN1	6	See Control Bus Connectors on page 110.
Vent (800 mm)	20-750-MVENT*n*-F10M	2	For specification and rating information, see Ventilation Assemblies on page 116.
Power and LCL filter module mounting (800 mm)	20-750-MMNT1-F10M	2	See Power and LCL Filter Module Floor and Support Brackets on page 116.
Bus support panels, upper	20-750-MIPNL1-F8M	2	See Bus Support and Divider Panels (Right and Left Sides) on page 116.
Bus support panels, lower	20-750-MCPNL1-F8M	2	
Baffle (800 mm)	20-750-MIBAF1-F10M	2	See Baffle Assemblies on page 116.
Power Bay (Converter, 600 mm)	—	2	See Cabinet-Level Kits on page 110 for Rittal part number.
Power module (Line side converter)	20-750-MI*n*-*xnnnxnnn*	2	Power module that is configured as a line side converter. For specification and rating information, see Frame 10 Module Selection on page 86.
LCL filter module	20-750-ML1-*xnnnxnnn*	2	For specification and rating information, see Frame 10 Module Selection on page 86.
LCL filter and one line side converter back panel and stab receptacles (600 mm)	20-750-MACR1-F8M	2	For specification and rating information, see Frame 8…15 Stab Receptacle Assemblies and Stab Receptacles with Back Panel and Bus Bars on page 108 to match power module rating.

Frame 13 PowerFlex 755TM Bus Supply IP00 Component Kits (continued)

Module or Kit Name	Catalog Number	Qty.	Description
DC link/fuse	20-750-MDCL1-*xx*-F8M	2	For rating information, see DC Link/Fuse Assemblies on page 104.
DC common mode cores	20-750-MDCCM1-F8M	2	For selection information, see DC Common Mode Core on page 105. DC common mode core assembled on the DC link/fuse assembly if EMC filtering is required.
AC input bus bars and fuses	20-750-MACL*n*-F9M	2	For specification and rating information, see Frame 8…15 AC Input Link Bus Bar and Fuse Assemblies on page 107.
AC common mode core	20-750-MACCM1-F8M	2	For selection information, see AC Common Mode Core on page 107. AC common mode core assembled on the LCL filter module if EMC filtering is required.
DC bus bar (600 mm)	20-750-MDCBUS6-*xKx*	2	For specification and rating information, see Frame 8…15 DC Bus Bars on page 108.
AC bus bar (600 mm)	20-750-MACBUS6-*xKx*	2	For specification and rating information, see Frame 8…15 AC Input Bus Bars on page 106.
Control bus assembly (600 mm)	20-750-MCBUS1-PB-F9M	2	See Control Bus Assemblies on page 110.
Control bus connector	20-750-MCTRLBUS-CONN1	4	See Control Bus Connectors on page 110.
Vent (600 mm)	20-750-MVENT*n*-F9M	2	For specification and rating information, see Ventilation Assemblies on page 116.
Power and LCL filter module mounting (600 mm)	20-750-MMNT1-F9M	2	See Power and LCL Filter Module Floor and Support Brackets on page 116.
Bus support panels, upper	20-750-MIPNL1-F8M	2	See Bus Support and Divider Panels (Right and Left Sides) on page 116.
Bus support panels, lower	20-750-MCPNL1-F8M	2	
Baffle (600 mm)	20-750-MIBAF1-F9M	2	See Baffle Assemblies on page 116.
Wire Entry/Exit Bay (400 mm) (Inline Configuration Only)	—	2	See Cabinet-Level Kits on page 110 for Rittal part number.
AC bus bars (400 mm)	20-750-MTEBUS2-3K0	2	For specification and rating information, see Frame 8…15 AC Input Bus Bars on page 106.
DC bus bars (400 mm)	20-750-MDCBUS4-nKn	2	For specification and rating information, see Frame 8...15 DC Bus Bars on page...
Bus support panels, upper and lower (wire bay)	20-750-MWBPNL1-F8M	2	See Bus Support and Divider Panels (Right and Left Sides) on page 116.
Wire Entry Bay (400 mm) (Back-to-Back Configuration Only)	20-750-DCVBB-400-FBR, or 20-750-DCVBB-400C-FBR	1	Choose one of the entry wire bay kits. See Cabinet-Level Kits on page 110.
DC Voltage Balance Bay (400 mm) (Back-to-Back Configuration Only)	20-750-DCVBB-BS	1	See Cabinet-Level Kits on page 110.
Additional Kits			
DC bus splice (inline configuration)	20-750-MDCSPL1-*nKn*	7	For splice material, see Frame 8…15 DC Bus Bar Splices on page 108.
DC bus splice (back-to-back configuration)		8	
AC bus splice, converter power bay and entry wire bay	20-750-MACSPL2-*nKn*	6	For splice material, see Frame 8…15 AC Bus Bar Splices on page 107.
Ground bus bar splice	20-750-MGNDSPL1	6	See Ground Bus Bar Splice on page 109.
Control bus splice (Inline configuration)	20-750-MCTRLBUS-SPL	6	See Control Bus Splice on page 110.
Control bus splice (back-to-back configuration)		8	
DC bus conditioner	20-750-MDCBUS-COND	>	Quantity based on the ground scheme. See DC Bus Conditioner on page 105.

Frame 13 PowerFlex 755TM Bus Supply Options

Module or Kit Name	Description
Power / LCL filter module stab receptacle assembly aluminum	See Frame 8…15 Stab Receptacle Assemblies and Stab Receptacles with Back Panel and Bus Bars on page 108.
Power / LCL filter module stab receptacle assembly copper	
AC bus bars, entry wire bay	See Frame 8…15 AC Bus Bars (Top Cable Exit/Entry Wiring Bay) on page 106.
Bus bar splice for entry wiring bay	See Frame 8…15 AC Bus Bar Splices on page 107.
Bus bar splice for entry wire bay, right-to-left orientation	
Bus support panels, entry wire bay	See Bus Support and Divider Panels (Right and Left Sides) on page 116.

Frame 13 PowerFlex 755TM Bus Supply Options

Module or Kit Name	Description
Torque accuracy module 400. . . 690V	See Torque Accuracy Modules (TAM) on page 127.
Fiber-optic cable for power module to pod	See Fiber-optic Cable Kits on page 118.
Fiber-optic cable for AC precharge to pod	

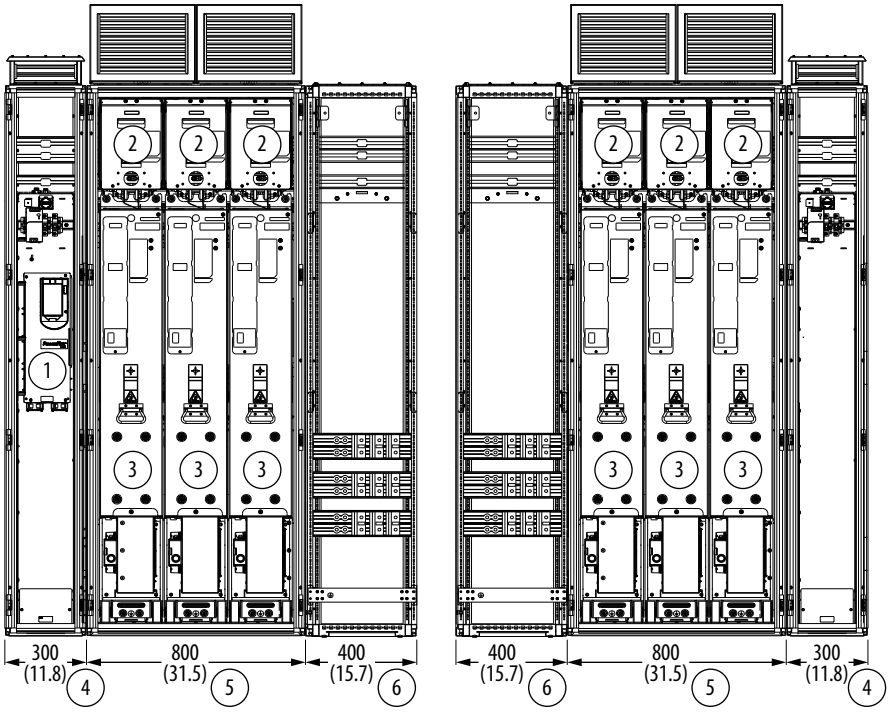
Frame 13 Equivalent PowerFlex 755TM Common Bus Inverters (CBI)

This section provides selection information for frame 13 equivalent PowerFlex 755TM common bus inverters.

Frame 13 PowerFlex 755TM Common Bus Inverters Normal Duty Ratings

Input Voltage	Amps (AC)	Power Rating
400	4235	2200 kW
480	4070	3600 Hp
600	2998	3100 Hp
690	2778	2750 kW

Frame 13 PowerFlex 755TM Common Bus Inverter Major Components



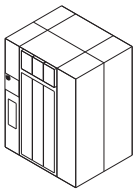
Left-to-Right Orientation

Right-to-Left Orientation

Enclosures are 600 mm (23.6 in.) deep. IP54, UL Type 12 Enclosure Shown.

Item	Description
1	Control pod
2	DC precharge module
3	Motor side inverter

Item	Description
4	Control bay
5	Power bay
6	Voltage balance bay



Final Back-to-Back Configuration

Frame 13 PowerFlex 755TM Common Bus Inverter IP00 Component Kits

Module or Kit Name	Catalog Number	Qty.	Description
Control Bay (300 mm)	—	2	See Cabinet-Level Kits on page 110 for Rittal part number.
Control pod	20-750-MCP0D1-F8M	1	For specification and rating information, see Control Pod Assemblies on page 117.
Fiber transceiver boards	20-750-MFTB1-F8	6 or 7[(1)]	See Fiber Transceiver Board on page 127.
DC bus bar (300 mm)	20-750-MDCBUS3-*xKx*	2	For specification and rating information, see Frame 8…15 DC Bus Bars on page 108.
Control bus assembly (300 mm)	20-750-MCBUS1-CB-F8M	2	See Control Bus Assemblies on page 110.
Vent, control bay (300 mm)	20-750-MVENTC2-F8M	2	For specification and rating information, see Ventilation Assemblies on page 116.
Power Bay (Inverter, 800 mm)	—	2	See Cabinet-Level Kits on page 110 for Rittal part number.
Power module (Motor side inverter)	20-750-MI2-*xnnnxnnn*	6	Power module that is configured as a motor side inverter. Choose one set of three modules. For specification and rating information, see Frame 10 Module Selection on page 86.
	20-750-MI3-*xnnnxnnn*	6	
Inverter back panel and stab receptacles (800 mm)	20-750-MIR*n*-F10M	2	For specification and rating information, see Frame 8…15 Stab Receptacle Assemblies and Stab Receptacles with Back Panel and Bus Bars on page 108 to match power module rating.
DC link/fuse assembly	20-750-MDCL1-*xx*-F8M	6	For rating information, see DC Link/Fuse Assemblies on page 104. Not required if DC precharge modules are used.
DC precharge module (optional)	20-750-MDCP*n*-*xx*-F8M	6	For specification and rating information, see DC Precharge Modules on page 104.
DC common mode core	20-750-MDCCM1-F8M	6	For selection information, see DC Common Mode Core on page 105. DC common mode core assembled on the DC link/fuse assembly if EMC filtering is required.
DC bus bar (800 mm)	20-750-MDCBUS8-*xKx*	2	For specification and rating information, see Frame 8…15 DC Bus Bars on page 108.
DC bus splice	20-750-MDCSPL1-*xKx*	2	For splice material, see Frame 8…15 DC Bus Bar Splices on page 108.
Control bus assembly (800 mm)	20-750-MCBUS1-PB-F10M	2	See Control Bus Assemblies on page 110.
Control bus connector	20-750-MCTRLBUS-CONN1	6 or 7[(2)]	See Control Bus Connectors on page 110.
Control bus splice	20-750-MCTRLBUS-SPL	2	See Control Bus Splice on page 110.
Vent (800 mm)	20-750-MVENT*x*-F10M	2	For specification and rating information, see Ventilation Assemblies on page 116.
Power module mounting bracket	20-750-MMNT1-F10M	2	See Power and LCL Filter Module Floor and Support Brackets on page 116.
Bus support panels, upper and lower	20-750-MIPNL2-F8M	2	See Bus Support and Divider Panels (Right and Left Sides) on page 116.
Baffle (800 mm)	20-750-MIBAF1-F10M	2	See Baffle Assemblies on page 116.
DC Voltage Balance Bay (400 mm) (Back-to-Back Configuration Only)	20-750-DCVBB-400, or 20-750-DCVBB-400C	1	Choose one of the DC voltage balance bay kits. See Cabinet-Level Kits on page 110.
Additional Kits			
DC bus splice	20-750-MDCSPL1-*nKn*	4	For splice material, see Frame 8…15 DC Bus Bar Splices on page 108.
AC bus splice, wire exit bay	20-750-MTESPL*n*-F1*n*M	2	For splice material, see Frame 8…15 AC Bus Bar Splices on page 107.
Ground bus bar splice	20-750-MGNDSPL1	4	See Ground Bus Bar Splice on page 109.
Control bus splice	20-750-MCTRLBUS-SPL	4	See Control Bus Splice on page 110

(1) Seven fiber transceiver boards are required when a torque accuracy module is used.
(2) A control bus connector is required for each DC link/fuse assembly and a torque accuracy module, when used.

Frame 13 PowerFlex 755TM Common Bus Inverter Options

Module or Kit Name	Description
Power / LCL filter module stab receptacle assembly aluminum	See Frame 8…15 Stab Receptacle Assemblies and Stab Receptacles with Back Panel and Bus Bars on page 108.
Power / LCL filter module stab receptacle assembly copper	
AC bus bars, exit wire bay	See Frame 8…15 AC Bus Bars (Top Cable Exit/Entry Wiring Bay) on page 106.
Bus bar splice for exit wiring bay	See Frame 8…15 AC Bus Bar Splices on page 107.
Bus bar splice for exit wire bay, right-to-left orientation	
Bus support panels, exit wire bay	See Bus Support and Divider Panels (Right and Left Sides) on page 116.

Frame 13 PowerFlex 755TM Common Bus Inverter Options

Module or Kit Name	Description
Torque accuracy module 400…690V	See Torque Accuracy Modules (TAM) on page 127.
Fiber-optic cable for power module to pod	See Fiber-optic Cable Kits on page 118.
Fiber-optic cable for AC precharge to pod	

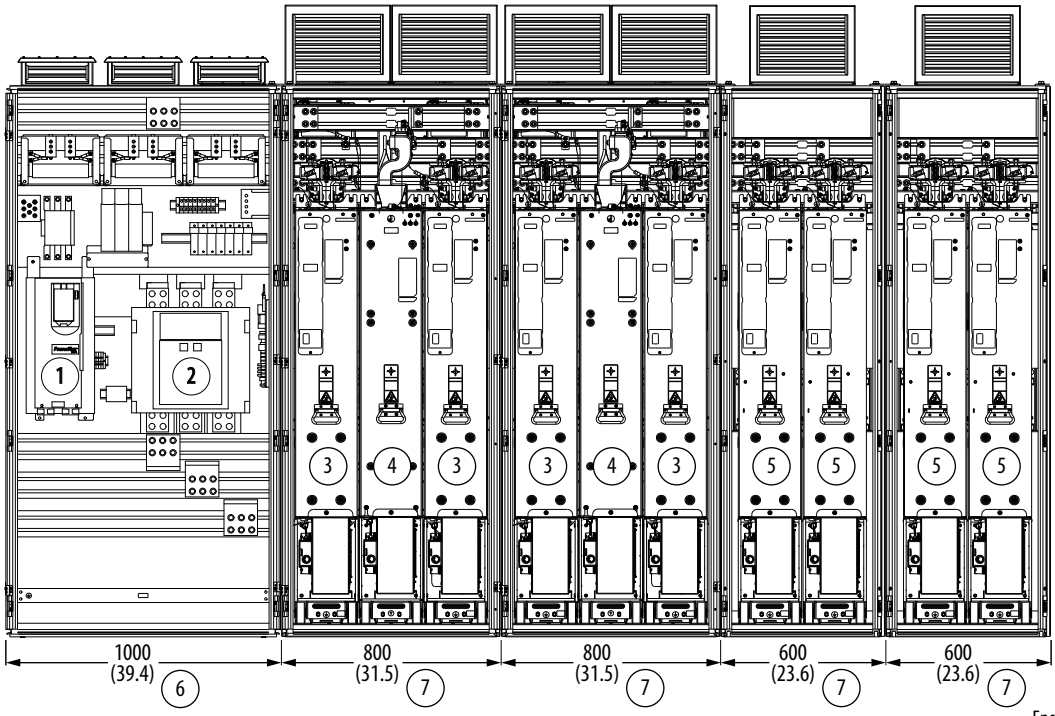
Frame 14 Equivalent PowerFlex 755TR Drives

This section provides selection information for frame 14 equivalent PowerFlex 755TR drives.

Frame 14 PowerFlex 755TR Drives Normal Duty Ratings

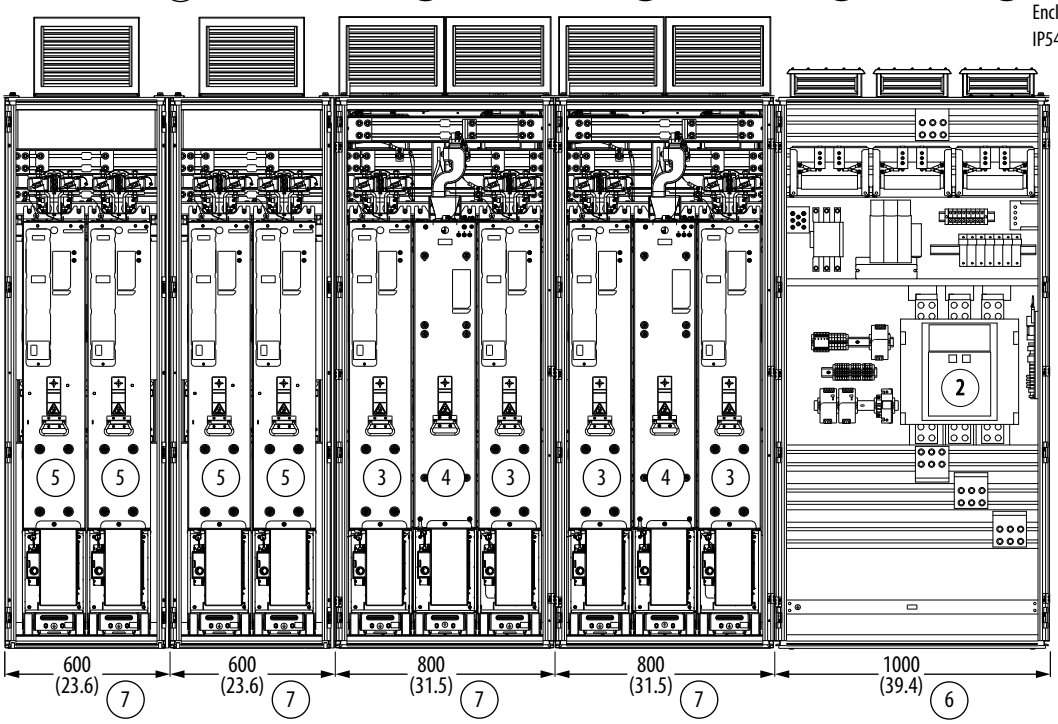
Input Voltage	Amps (AC)	Power Rating
400	5621	2920 kW
480	5402	4800 Hp
600	3979	4100 Hp
690	3687	3650 kW

Frame 14 PowerFlex 755TR Drive Major Components - Front Views



Left-to-Right Orientation

Enclosures are 600 mm (23.6 in.) deep.
IP54, UL Type 12 Enclosure Shown.

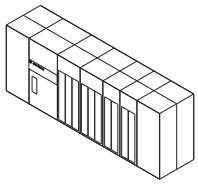


Right-to-Left Orientation

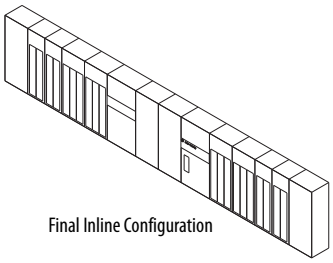
Item	Description
1	Control pod
2	AC precharge section
3	Line side converter
4	LCL filter

Item	Description
5	Motor side inverter
6	Input bay
7	Power bay

Entry and exit wire bays are omitted from this illustration.



Final Back-to-Back Configuration



Final Inline Configuration

Frame 14 PowerFlex 755TR Drive IP00 Component Kits

Module or Kit Name	Catalog Number	Qty.	Description
Input Bay (1000 mm)	—	1	See Cabinet-Level Kits on page 110 for Rittal part number.
AC precharge circuit breaker	20-750-MACPCCB-*x*-2K5	2	Choose one set of circuit breakers. For specification and rating information, see AC Precharge Circuit Breaker on page 93.
	20-750-MACPCCB1-CD-4K0	2	
AC precharge control board	20-750-MACPC1-*xx*	2	For specification and rating information, see AC Precharge Control Boards on page 127.
AC precharge resistor bank	20-750-MACPR-*xx*-F11M	6	For specification and rating information, see AC Precharge Resistor Banks on page 94.
AC precharge TVSS module	20-750-MACP-*xx*-TVSS	2	For specification and rating information, see TVSS Modules on page 106.
AC precharge time delay relay	20-750-MACPC-TDR	2	For specification and rating information, see AC Precharge Time Delay Relay on page 94.
Circuit breaker mounting panel	20-750-MIBPNL2-F*nn*M	2	For specification and rating information, see Circuit Breaker Mounting Panels on page 116.
Control pod	20-750-MCPOD1-F8M	1	For specification and rating information, see Control Pod Assemblies on page 117.
Fiber transceiver boards	20-750-MFTB1-F8	10	See Fiber Transceiver Board on page 127.
AC bus bar (1000 mm)	20-750-MACBUS10-*x*K*x*	4	For specification and rating information, see Frame 8…15 AC Input Bus Bars on page 106.
Control bus assembly (1000 mm)	20-750-MCBUS1-IB-F10M	2	See Control Bus Assemblies on page 110.
Control bus connector	20-750-MCTRLBUS-CONN2	2	See Control Bus Connectors on page 110.
Vent (1000 mm)	20-750-MVENT*x*-F11M	2	For specification and rating information, see Ventilation Assemblies on page 116.
Bus support panels, lower (1000 mm)	20-750-MIBPNL1-F10M	2	See Bus Support and Divider Panels (Right and Left Sides) on page 116.
Power Bay (Converter, 800 mm)	—	4	See Cabinet-Level Kits on page 110 for Rittal part number.
Power module (Line side converter)	20-750-MI2-*xnnnxnnn*	8	Power module that is configured as a line side converter. For specification and rating information, see Frame 11 Module Selection on page 87.
LCL filter module	20-750-ML1-*xnnnxnnn*	4	For specification and rating information, see Frame 11 Module Selection on page 87.
LCL filter and two line side converters back panel and stab receptacles	20-750-MACR1-F9M	4	For specification and rating information, see Frame 8…15 Stab Receptacle Assemblies and Stab Receptacles with Back Panel and Bus Bars on page 108 to match power module rating.
DC link/fuse assembly	20-750-MDCL1-*xx*-F8M	8	For rating information, see DC Link/Fuse Assemblies on page 104.
DC common mode core	20-750-MDCCM1-F8M	8	For selection information, see DC Common Mode Core on page 105. DC common mode core assembled on the DC link/fuse assembly if EMC filtering is required.
AC input bus bars and fuses	20-750-MACL*n*-F9M	4	For specification and rating information, see Frame 8…15 AC Input Link Bus Bar and Fuse Assemblies on page 107.
AC common mode core	20-750-MACCM1-F8M	4	For selection information, see AC Common Mode Core on page 107. AC common mode core assembled on the LCL filter module if EMC filtering is required.
DC bus bar (800 mm)	20-750-MDCBUS8-*x*K*x*	4	For specification and rating information, see Frame 8…15 DC Bus Bars on page 108.
AC bus bar (800 mm)	20-750-MACBUS8-*x*K*x*	4	For specification and rating information, see Frame 8…15 AC Input Bus Bars on page 106.
Control bus assembly, power bay (800 mm)	20-750-MCBUS1-PB-F10M	4	See Control Bus Assemblies on page 110.
Control bus connector	20-750-MCTRLBUS-CONN1	12	See Control Bus Connectors on page 110
Vent, power bay (800 mm)	20-750-MVENT*x*-F10M	4	For specification and rating information, see Ventilation Assemblies on page 116.
Power and LCL filter module mounting brackets (800 mm)	20-750-MMNT1-F10M	4	See Power and LCL Filter Module Floor and Support Brackets on page 116.
Bus support panels, upper	20-750-MIPNL1-F8M	4	See Bus Support and Divider Panels (Right and Left Sides) on page 116.
Bus support panels, lower	20-750-MCPNL1-F8M	4	
Power Bay (Inverter, 600 mm)	—	4	See Cabinet-Level Kits on page 110 for Rittal part number.
Power module (Motor side inverter)	20-750-MI*n*-*xnnnxnnn*	8	Power module that is configured as a motor side inverter. Base catalog numbers are listed in requirements tables under Frame 11 Module Selection on page 87. For specification and rating information, see Power Modules Options on page 92.
Two inverters back panel and stab receptacles	20-750-MIR*n*-F9M	4	For specification and rating information, see Frame 8…15 Stab Receptacle Assemblies and Stab Receptacles with Back Panel and Bus Bars on page 108 to match power module rating.
DC link/fuse assembly	20-750-MDCL1-*xx*-F8M	8	For rating information, see DC Link/Fuse Assemblies on page 104.
DC common mode core	20-750-MDCCM1-F8M	8	For selection information, see DC Common Mode Core on page 105. DC common mode core assembled on the DC link/fuse assembly if EMC filtering is required.
DC bus bar (600 mm)	20-750-MDCBUS6-*x*K*x*	4	For specification and rating information, see Frame 8…15 DC Bus Bars on page 108.

Frame 14 PowerFlex 755TR Drive IP00 Component Kits (continued)

Module or Kit Name	Catalog Number	Qty.	Description
Control bus assembly, power bay (600 mm)	20-750-MCBUS1-PB-F9M	4	See Control Bus Assemblies on page 110.
Control bus connector	20-750-MCTRLBUS-CONN1	8	See Control Bus Connectors on page 110.
Vent, power bay (600 mm)	20-750-MVENT*x*-F9M	4	For specification and rating information, see Ventilation Assemblies on page 116.
Power and LCL filter module mounting brackets (600 mm)	20-750-MMNT1-F9M	4	See Power and LCL Filter Module Floor and Support Brackets on page 116.
Bus support panels, upper and lower (inverter bay)	20-750-MIPNL2-F8M	4	See Bus Support and Divider Panels (Right and Left Sides) on page 116.
Wire Entry/Exit Bay (800 mm) (Inline Configuration Only)	—	4	See Cabinet-Level Kits on page 110 for Rittal part number.
AC bus bars (800 mm)	20-750-MTEBUS1-4K7	4	For specification and rating information, Frame 8…15 AC Input Bus Bars on page 106.
Bus support panels, upper and lower (wire bay)	20-750-MWBPNL1-F8M	4	See Bus Support and Divider Panels (Right and Left Sides) on page 116.
Wire Entry Bay (800 mm) (Back-to-Back Configuration Only)	20-750-DCVBB-800-FBR	1	See Cabinet-Level Kits on page 110.
DC Voltage Balance Bay (800 mm) (Back-to-Back Configuration Only)	20-750-DCVBB-800	1	See Cabinet-Level Kits on page 110.
Additional Kits			
DC bus splice	20-750-MDCSPL1-*nKn*	8	For splice material, see Frame 8…15 DC Bus Bar Splices on page 108.
AC bus splice, converter power bay and wire entry bay	20-750-MACSPL2-4K7	6	For splice material, see Frame 8…15 AC Bus Bar Splices on page 107.
AC bus splice, inverter power bay	20-750-MACSPL1-F11M	2	
AC bus splice, wire exit bay	20-750-MTESPL*n*-F1*n*M	2	
Ground bus bar splice	20-750-MGNDSPL1	10	See Ground Bus Bar Splice on page 109.
Control bus splice	20-750-MCTRLBUS-SPL	12	See Control Bus Splice on page 110.
DC bus conditioner	20-750-MDCBUS-COND	>	Quantity based on the ground scheme. See DC Bus Conditioner on page 105.

Frame 14 PowerFlex 755TR Drive Options

Module or Kit Name	Description
Power / LCL filter module stab receptacle assembly aluminum	See Frame 8…15 Stab Receptacle Assemblies and Stab Receptacles with Back Panel and Bus Bars on page 108.
Power / LCL filter module stab receptacle assembly copper	
AC bus bars, entry/exit wire bay	See Frame 8…15 AC Bus Bars (Top Cable Exit/Entry Wiring Bay) on page 106.
Bus bar splice for entry/exit wiring bay	See Frame 8…15 AC Bus Bar Splices on page 107.
Bus bar splice for entry/exit wire bay, right-to-left orientation	
Bus support panels, entry/exit wire bay	See Bus Support and Divider Panels (Right and Left Sides) on page 116.
Torque accuracy module 400…690V	See Torque Accuracy Modules (TAM) on page 127.
Fiber-optic cable for power module to pod	See Fiber-optic Cable Kits on page 118.
Fiber-optic cable for AC precharge to pod	

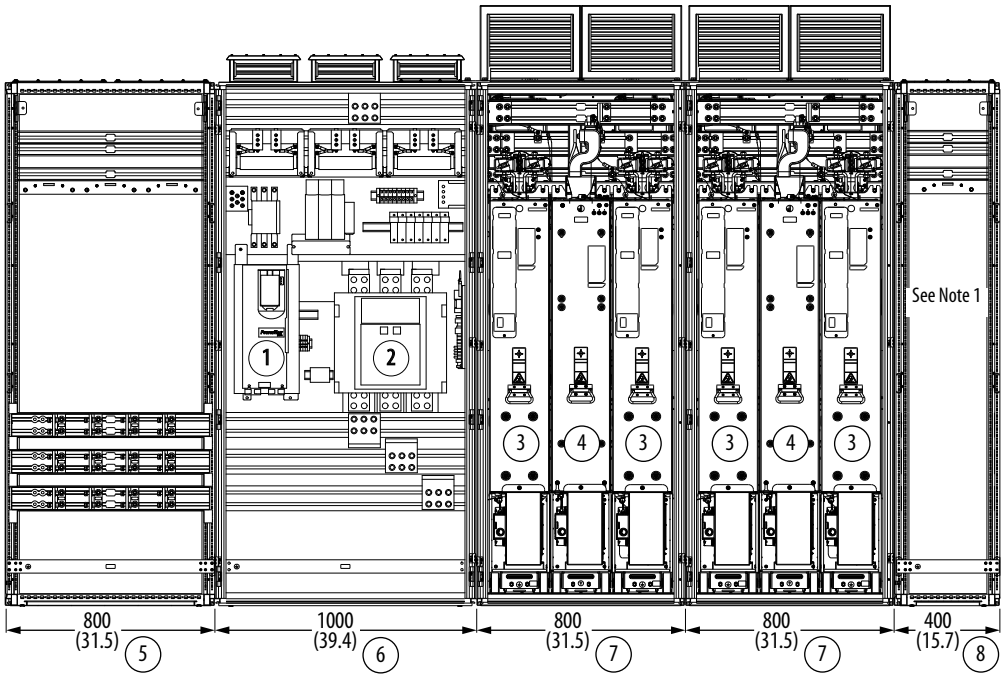
Frame 14 Equivalent PowerFlex 755TM Bus Supplies

This section provides selection information for frame 14 equivalent PowerFlex 755TM bus supplies.

Frame 14 PowerFlex 755TM Bus Supplies Normal Duty Ratings

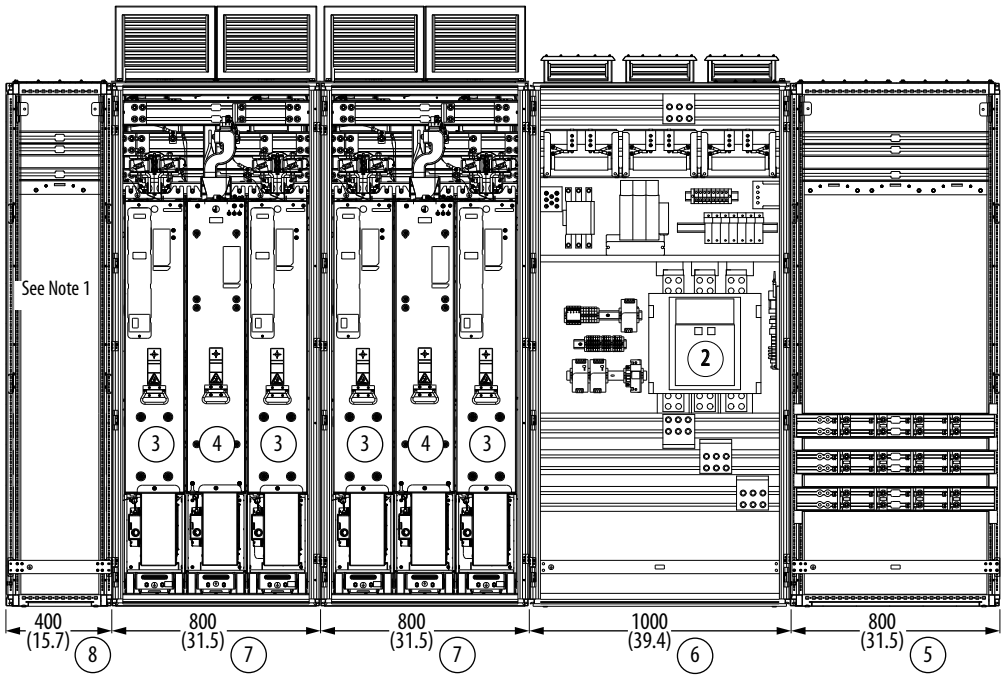
Input Voltage	Amps (DC)	Power Rating
400	6030	3496 kW
480	5555	3865 kW
600	4088	3555 kW
690	3781	3781 kW

Frame 14 PowerFlex 755TM Bus Supply Major Components - Front Views



Left-to-Right Orientation

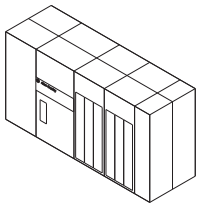
Enclosures are 600 mm (23.6 in.) deep.
IP54, UL Type 12 Enclosure Shown.



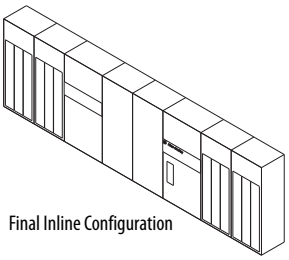
Right-to-Left Orientation

Note 1: 400 mm (15.7 in.) voltage balance bay only used with back-to-back configuration.

Item	Description	Item	Description
1	Control pod	5	Entry wire bay
2	AC precharge section	6	Input bay
3	LCL filter	7	Power bay
4	Line side converter	8	Voltage balance bay



Final Back-to-Back Configuration



Final Inline Configuration

Frame 14 PowerFlex 755TM Bus Supply IP00 Component Kits

Module or Kit Name	Catalog Number	Qty.	Description
Input Bay (1000 mm)	—	2	See Cabinet-Level Kits on page 110 for Rittal part number.
AC precharge circuit breaker	20-750-MACPCCB-*x*-2K5	2	Choose one set of circuit breakers. For specification and rating information, see AC Precharge Circuit Breaker on page 93.
	20-750-MACPCCB1-CD-4K0	2	
AC precharge control board	20-750-MACPC1-*xx*	2	For specification and rating information, see AC Precharge Control Boards on page 127.
AC precharge resistor bank	20-750-MACPR-*xx*-F11M	6	For specification and rating information, see AC Precharge Resistor Banks on page 94.
AC precharge TVSS module	20-750-MACP-*xx*-TVSS	2	For specification and rating information, see TVSS Modules on page 106.
AC precharge time delay relay	20-750-MACPC-TDR	2	For specification and rating information, see AC Precharge Time Delay Relay on page 94.
Circuit breaker mounting panel	20-750-MIBPNL2-F*nn*M	2	For specification and rating information, see Circuit Breaker Mounting Panels on page 116.
Control pod	20-750-MCPOD1-F8M	1	For specification and rating information, see Control Pod Assemblies on page 117.
Fiber transceiver boards	20-750-MFTB1-F8	8	See Fiber Transceiver Board on page 127.
AC bus bar (1000 mm)	20-750-MACBUS10-*x*K*x*	4	For specification and rating information, see Frame 8…15 AC Input Bus Bars on page 106.
DC bus bar (1000 mm)	20-750-MDCBUS10-*x*K*x*	2	For specification and rating information, see Frame 8…15 DC Bus Bars on page 108.
Control bus assembly (1000 mm)	20-750-MCBUS1-IB-F10M	2	See Control Bus Assemblies on page 110.
Control bus connector	20-750-MCTRLBUS-CONN2	2	See Control Bus Connectors on page 110.
Vent (1000 mm)	20-750-MVENT*x*-F11M	2	For specification and rating information, see Ventilation Assemblies on page 116.
Bus support panels, lower (1000 mm)	20-750-MIBPNL1-F10M	2	See Bus Support and Divider Panels (Right and Left Sides) on page 116.
Power Bay (Converter, 800mm)	—	4	See Cabinet-Level Kits on page 110 for Rittal part number.
Power module (Line side converter)	20-750-MI2-*xnnnxnnn*	8	Power module that is configured as a line side converter. For specification and rating information, see Frame 11 Module Selection on page 87.
LCL filter module	20-750-ML1-*xnnnxnnn*	4	For specification and rating information, see Frame 11 Module Selection on page 87.
LCL filter and two line side converters back panel and stab receptacles (800 mm)	20-750-MACR1-F9M	4	For specification and rating information, see Frame 8…15 Stab Receptacle Assemblies and Stab Receptacles with Back Panel and Bus Bars on page 108 to match power module rating.
DC link/fuse assembly	20-750-MDCL1-*xx*-F8M	8	For rating information, see DC Link/Fuse Assemblies on page 104.
DC common mode cores	20-750-MDCCM1-F8M	8	For selection information, see DC Common Mode Core on page 105. DC common mode core assembled on the DC link/fuse assembly if EMC filtering is required.
AC input bus bars and fuses	20-750-MACL*n*-F9M	4	For specification and rating information, see Frame 8…15 AC Input Link Bus Bar and Fuse Assemblies on page 107. AC common mode core assembled with AC Link if EMC filtering is required.
AC common mode core	20-750-MACCM1-F8M	4	
DC bus bar (800 mm)	20-750-MDCBUS8-*x*K*x*	4	For specification and rating information, see Frame 8…15 DC Bus Bars on page 108.
AC bus bar (800 mm)	20-750-MACBUS8-*x*K*x*	4	For specification and rating information, see Frame 8…15 AC Input Bus Bars on page 106.
Control bus assembly	20-750-MCBUS1-PB-F10M	4	See Control Bus Assemblies on page 110.
Control bus connector	20-750-MCTRLBUS-CONN1	12	See Control Bus Connectors on page 110.
Vent (800 mm)	20-750-MVENT*x*-F10M	4	For specification and rating information, see Ventilation Assemblies on page 116.
Power and LCL filter module mounting bracket	20-750-MMNT1-F10M	4	See Power and LCL Filter Module Floor and Support Brackets on page 116.
Bus support panels, upper	20-750-MIPNL1-F8M	4	See Bus Support and Divider Panels (Right and Left Sides) on page 116.
Bus support panels, lower	20-750-MCPNL1-F8M	4	
Baffle (800 mm)	20-750-MIBAF1-F10M	4	See Baffle Assemblies on page 116.
Wire Entry/Exit Bay (800 mm) (Inline Configuration Only)	—	2	See Cabinet-Level Kits on page 110 for Rittal part number.
AC bus bars (800 mm)	20-750-MTEBUS1-4K7	2	For specification and rating information, see Frame 8…15 AC Input Bus Bars on page 106.
DC bus bars (800 mm)	20-750-MDCBUS8-nKn	2	For specification and rating information, see Frame 8...15 DC Bus Bars on page...
Bus support panels, upper and lower (wire bay)	20-750-MWBPNL1-F8M	2	See Bus Support and Divider Panels (Right and Left Sides) on page 116.
Wire Entry Bay (800 mm) (Back-to-Back Configuration Only)	20-750-DCVBB-800-FBR	1	See Cabinet-Level Kits on page 110.

Frame 14 PowerFlex 755TM Bus Supply IP00 Component Kits (continued)

Module or Kit Name	Catalog Number	Qty.	Description
DC Voltage Balance Bay (400 mm) (Back-to-Back Configuration Only)	20-750-DCVBB-BS	1	See Cabinet-Level Kits on page 110.
Additional Kits			
DC bus splice (inline configuration)	20-750-MDCSPL1-*nKn*	7	For splice material, see Frame 8…15 DC Bus Bar Splices on page 108.
DC bus splice (back-to-back configuration)		8	
AC bus splice, converter power bay and entry wire bay	20-750-MACSPL2-4K7	6	For splice material, see Frame 8…15 AC Bus Bar Splices on page 107.
Ground bus bar splice	20-750-MGNDSPL1	6	See Ground Bus Bar Splice on page 109.
Control bus splice (Inline configuration)	20-750-MCTRLBUS-SPL	6	See Control Bus Splice on page 110
Control bus splice (back-to-back configuration)		8	
DC bus conditioner	20-750-MDCBUS-COND	>	Quantity based on the ground scheme. See DC Bus Conditioner on page 105.

Frame 14 PowerFlex 755TM Bus Supply Options

Module or Kit Name	Description
Power / LCL filter module stab receptacle assembly aluminum	See Frame 8…15 Stab Receptacle Assemblies and Stab Receptacles with Back Panel and Bus Bars on page 108.
Power / LCL filter module stab receptacle assembly copper	
AC bus bars, entry wire bay	See Frame 8…15 AC Bus Bars (Top Cable Exit/Entry Wiring Bay) on page 106.
Bus bar splice for entry wiring bay	See Frame 8…15 AC Bus Bar Splices on page 107.
Bus bar splice for entry wire bay, right-to-left orientation	
Bus support panels, entry wire bay	See Bus Support and Divider Panels (Right and Left Sides) on page 116.
Torque accuracy module 400…690V	See Torque Accuracy Modules (TAM) on page 127.
Fiber-optic cable for power module to pod	See Fiber-optic Cable Kits on page 118.
Fiber-optic cable for AC precharge to pod	

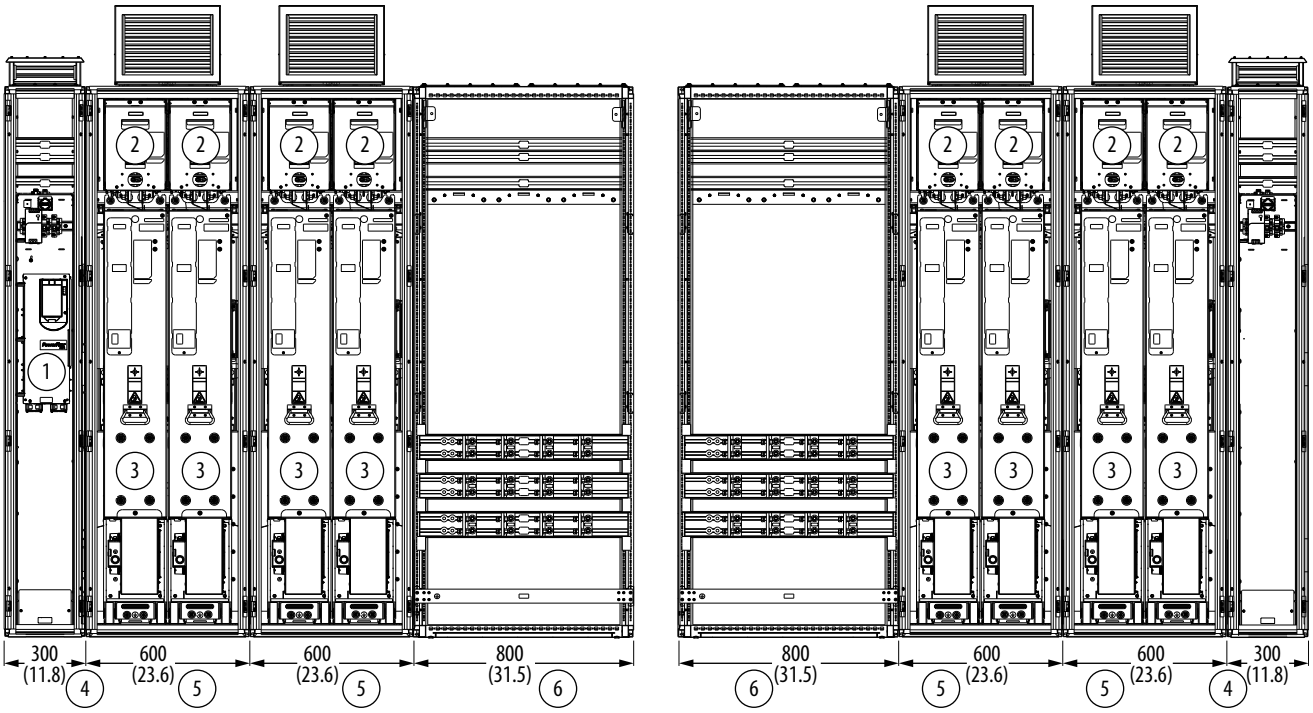
Frame 14 Equivalent PowerFlex 755TM Common Bus Inverters (CBI)

This section provides selection information for frame 14 equivalent PowerFlex 755TM common bus inverters.

Frame 14 PowerFlex 755TM Common Bus Inverters Normal Duty Ratings

Input Voltage	Amps (AC)	Power Rating
400	5621	2920 kW
480	5402	4800 Hp
600	3979	4100 Hp
690	3687	3650 kW

Frame 14 PowerFlex 755TM Common Bus Inverter Major Components - Front Views



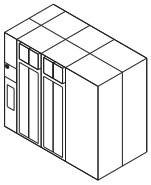
Left-to-Right Orientation

Right-to-Left Orientation

Enclosures are 600 mm (23.6 in.) deep. IP54, UL Type 12 Enclosure Shown.

Item	Description
1	Control pod
2	DC precharge module
3	Motor side inverter

Item	Description
4	Control bay
5	Power bay
6	Voltage balance bay



Final Back-to-Back Configuration

Frame 14 PowerFlex 755TM Common Bus Inverter IP00 Component Kits

Module or Kit Name	Catalog Number	Qty.	Description
Control Bay (300 mm)	—	2	See Cabinet-Level Kits on page 110 for Rittal part number.
Control pod	20-750-MCP0D1-F8M	1	For specification and rating information, see Control Pod Assemblies on page 117.
Fiber transceiver boards	20-750-MFTB1-F8	6 or 7[1]	See Fiber Transceiver Board on page 127.
DC bus bar (300 mm)	20-750-MDCBUS3-*xKx*	2	For specification and rating information, see Frame 8…15 DC Bus Bars on page 108.
Control bus assembly (300 mm)	20-750-MCBUS1-CB-F8M	2	See Control Bus Assemblies on page 110.

Frame 14 PowerFlex 755TM Common Bus Inverter IP00 Component Kits (continued)

Module or Kit Name	Catalog Number	Qty.	Description
Vent (300 mm)	20-750-MVENTC2-F8M	2	For specification and rating information, see Ventilation Assemblies on page 116.
Power Bay (Inverter, 600 mm)	—	4	See Cabinet-Level Kits on page 110 for Rittal part number.
Power module (Motor side inverter)	20-750-MI2-*xnnnxnnn*	8	Power module that is configured as a motor side inverter. Choose one set of four modules. For specification and rating information, see Frame 11 Module Selection on page 87.
	20-750-MI3-*xnnnxnnn*	8	
Inverter back panel and stab receptacles (600 mm)	20-750-MIR*n*-F9M	4	For specification and rating information, see Frame 8…15 Stab Receptacle Assemblies and Stab Receptacles with Back Panel and Bus Bars on page 108 to match power module rating.
DC link/fuse assembly	20-750-MDCL1-*xx*-F8M	8	For rating information, see DC Link/Fuse Assemblies on page 104. Not required if DC precharge modules are used.
DC precharge module (optional)	20-750-MDCP*n*-*xx*-F8M	8	For specification and rating information, see DC Precharge Modules on page 104
DC common mode core	20-750-MDCCM1-F8M	8	For selection information, see DC Common Mode Core on page 105. DC common mode core assembled on the DC link/fuse assembly if EMC filtering is required.
DC bus bar (600 mm)	20-750-MDCBUS6-*xKx*	4	For specification and rating information, see Frame 8…15 DC Bus Bars on page 108.
Control bus assembly (600 mm)	20-750-MCBUS1-PB-F9M	4	See Control Bus Assemblies on page 110.
Control bus connector	20-750-MCTRLBUS-CONN1	8 or 9(2)	See Control Bus Connectors on page 110.
Vent (600 mm)	20-750-MVENTx-F9M	4	For specification and rating information, see Ventilation Assemblies on page 116.
Power module mounting bracket	20-750-MMNT1-F9M	4	See Power and LCL Filter Module Floor and Support Brackets on page 116.
Bus support side panels, upper and lower	20-750-MIPNL2-F8M	4	See Bus Support and Divider Panels (Right and Left Sides) on page 116.
Baffle (600 mm)	20-750-MIBAF1-F9M	4	See Baffle Assemblies on page 116.
DC Voltage Balance Bay (800 mm) (Back-to-Back Configuration Only)	20-750-DCVBB-800	1	See Cabinet-Level Kits on page 110.
Additional Kits			
DC bus splice	20-750-MDCSPL1-4K7	6	For splice material, see Frame 8…15 DC Bus Bar Splices on page 108.
AC bus splice, inverter power bay	20-750-MACSPL1-F11M	2	For splice material, see Frame 8…15 AC Bus Bar Splices on page 107.
Ground bus bar splice	20-750-MGNDSPL1	5	See Ground Bus Bar Splice on page 109.
Control bus splice	20-750-MCTRLBUS-SPL	6	See Control Bus Splice on page 110.

(1) Seven fiber transceiver boards are required when a torque accuracy module is used.
(2) A control bus connector is required for each DC link/fuse assembly and a torque accuracy module, when used.

Frame 14 PowerFlex 755TM Common Bus Inverter Options

Module or Kit Name	Description
Power / LCL filter module stab receptacle assembly aluminum	See Frame 8…15 Stab Receptacle Assemblies and Stab Receptacles with Back Panel and Bus Bars on page 108.
Power / LCL filter module stab receptacle assembly copper	
AC bus bars, exit wire bay	See Frame 8…15 AC Bus Bars (Top Cable Exit/Entry Wiring Bay) on page 106.
Bus bar splice for exit wiring bay	See Frame 8…15 AC Bus Bar Splices on page 107.
Bus bar splice for exit wire bay, right-to-left orientation	
Bus support panels, exit wire bay	See Bus Support and Divider Panels (Right and Left Sides) on page 116.
Torque accuracy module 400…690V	See Torque Accuracy Modules (TAM) on page 127.
Fiber-optic cable for power module to pod	See Fiber-optic Cable Kits on page 118.
Fiber-optic cable for AC precharge to pod	

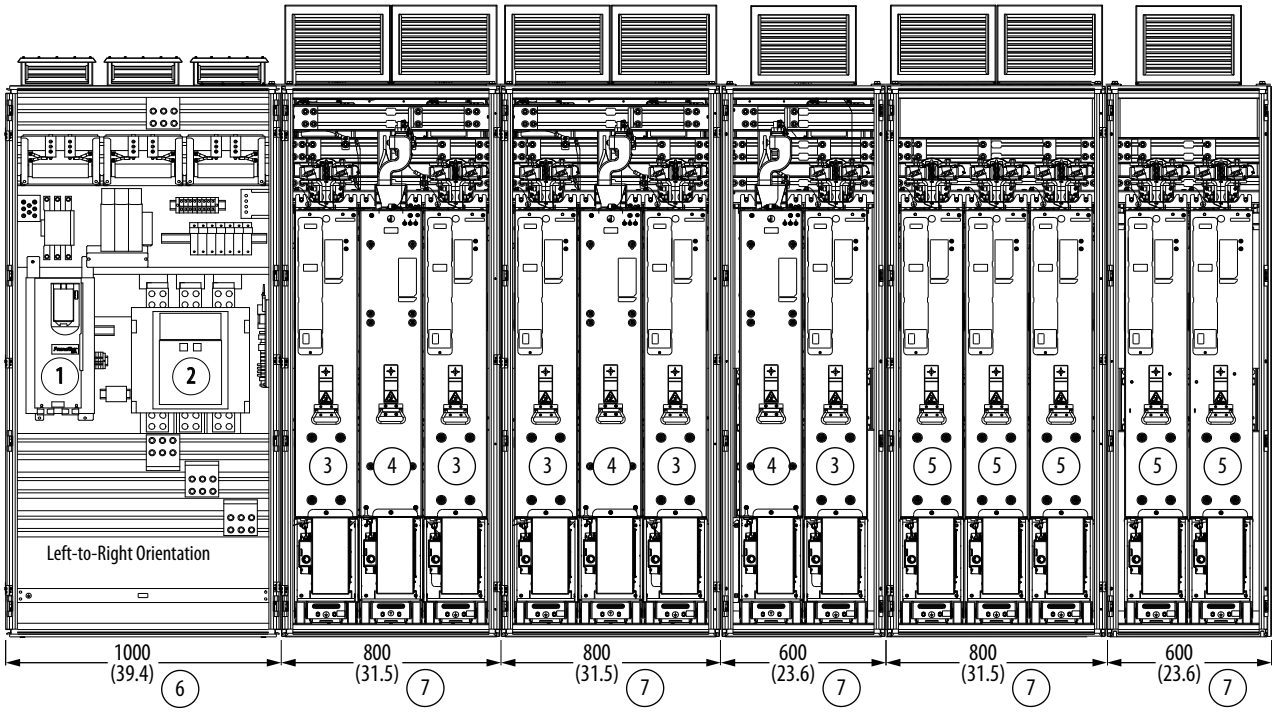
Frame 15 Equivalent PowerFlex 755TR Drives

This section provides selection information for frame 15 equivalent PowerFlex 755TR drives.

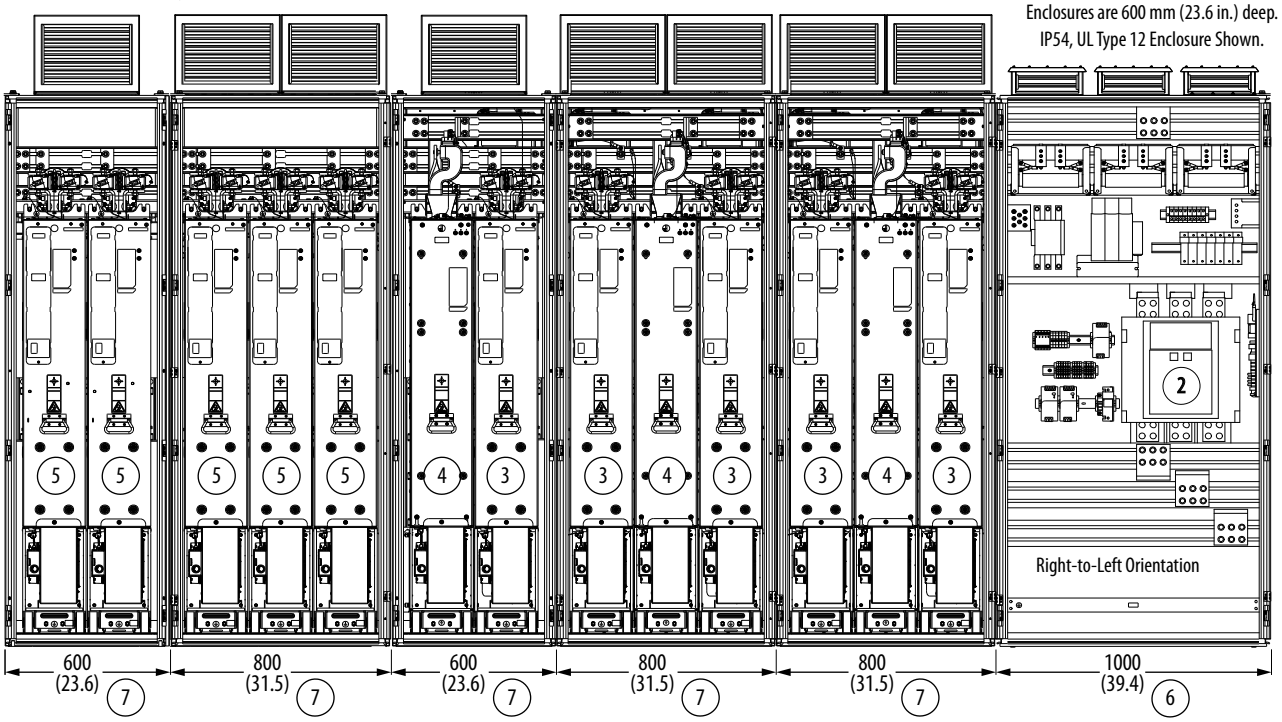
Frame 15 PowerFlex 755 TR Drives Normal Duty Ratings

Input Voltage	Amps (AC)	Power Rating
400	7007	3640 kW
480	6734	6000 Hp
600	4960	5100 Hp
690	4596	4550 kW

Frame 15 PowerFlex 755TR Drive Major Components - Front Views



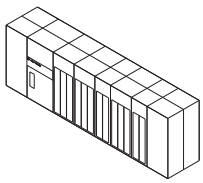
Enclosures are 600 mm (23.6 in.) deep.
IP54, UL Type 12 Enclosure Shown.



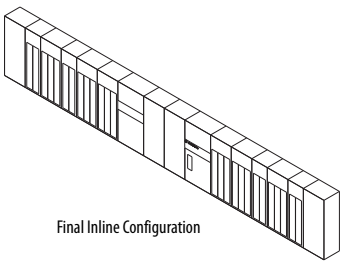
Item	Description
1	Control pod
2	AC precharge section
3	Line side converter
4	LCL filter

Item	Description
5	Motor side inverter
6	Input bay
7	Power bay

Entry and exit wire bays are omitted from this illustration.



Final Back-to-Back Configuration



Final Inline Configuration

Frame 15 PowerFlex 755TR Drive IP00 Component Kits

Module or Kit Name	Catalog Number	Qty.	Description
Input Bay (1000 mm)	—	2	See Cabinet-Level Kits on page 110 for Rittal part number.
AC precharge circuit breaker	20-750-MACPCCB-F-3K0	2	Choose one set of circuit breakers. For specification and rating information, see AC Precharge Circuit Breaker on page 93.
	20-750-MACPCCB1-CD-5K0	2	
	20-750-MACPCCB-CDE-3K0	2	
AC precharge control board	20-750-MACPC1-*xx*	2	For specification and rating information, see AC Precharge Control Boards on page 127.
AC precharge resistor bank	20-750-MACPR-*xx*-F12M	6	For specification and rating information, see AC Precharge Resistor Banks on page 94.
AC precharge TVSS module	20-750-MACP-*xx*-TVSS	2	For specification and rating information, see TVSS Modules on page 106.
AC precharge time delay relay	20-750-MACPC-TDR	2	For specification and rating information, see AC Precharge Time Delay Relay on page 94.
Circuit breaker mounting panels	20-750-MIBPNL2-F*nn*M	2	For specification and rating information, see Circuit Breaker Mounting Panels on page 116.
Control pod	20-750-MCPOD1-F8M	2	For specification and rating information, see Control Pod Assemblies on page 117.
Fiber transceiver boards	20-750-MFTB1-F8	11	See Fiber Transceiver Board on page 127.
AC bus bar (1000 mm)	20-750-MACBUS10-*xKx*	4	For specification and rating information, see Frame 8…15 AC Input Bus Bars on page 106.
DC bus bar (1000 mm)	20-750-MDCBUS10-*xKx*	2	For specification and rating information, see Frame 8…15 DC Bus Bars on page 108.
Control bus assembly (1000 mm)	20-750-MCBUS1-IB-F10M	2	See Control Bus Assemblies on page 110.
Control bus connector	20-750-MCTRLBUS-CONN2	2	See Control Bus Connectors on page 110.
Vent, input bay (1000 mm)	20-750-MVENTC*n*-F11M	2	For specification and rating information, see Ventilation Assemblies on page 116.
Bus support panels, lower (1000 mm)	20-750-MIBPNL1-F10M	2	See Bus Support and Divider Panels (Right and Left Sides) on page 116.
Power Bay (Converter, 800 mm)	—	4	See Cabinet-Level Kits on page 110 for Rittal part number.
Power module (Line side converter)	20-750-MI2-*xnnnxnnn*	8	Power module that is configured as a line side converter. For specification and rating information, see Frame 12 Module Selection on page 88.
LCL filter module	20-750-ML1-*xnnnxnnn*	4	For specification and rating information, see Frame 12 Module Selection on page 88.
LCL filter and two line side converters back panel and stab receptacles (800 mm)	20-750-MACR1-F9M	4	For specification and rating information, see Frame 8…15 Stab Receptacle Assemblies and Stab Receptacles with Back Panel and Bus Bars on page 108 to match power module rating.
DC link/fuse assembly	20-750-MDCL1-*xx*-F8M	8	For rating information, see DC Link/Fuse Assemblies on page 104.
DC common mode core	20-750-MDCCM1-F8M	8	For selection information, see DC Common Mode Core on page 105. DC common mode core assembled on the DC link/fuse assembly if EMC filtering is required.
AC input bus bars and fuses	20-750-MACL*n*-F9M	4	For specification and rating information, see Frame 8…15 AC Input Link Bus Bar and Fuse Assemblies on page 107. AC common mode core assembled with AC Link if EMC filtering is required.
AC common mode core	20-750-MACCM1-F8M	4	
DC bus bar (800 mm)	20-750-MDCBUS8-*xKx*	4	For specification and rating information, see Frame 8…15 DC Bus Bars on page 108.
AC bus bar (800 mm)	20-750-MACBUS8-*xKx*	4	For specification and rating information, see Frame 8…15 AC Input Bus Bars on page 106
Control bus assembly (800 mm)	20-750-MCBUS1-PB-F10M	4	See Control Bus Assemblies on page 110.
Vent (800 mm)	20-750-MVENT*n*-F10M	4	For specification and rating information, see Ventilation Assemblies on page 116.
Power and LCL filter module mounting brackets (800 mm)	20-750-MMNT1-F10M	4	See Power and LCL Filter Module Floor and Support Brackets on page 116.
Bus support panels, upper	20-750-MIPNL1-F8M	4	See Bus Support and Divider Panels (Right and Left Sides) on page 116.
Bus support panels, lower	20-750-MCPNL1-F8M	4	
Baffle (800 mm)	20-750-MIBAF1-F10M	4	See Baffle Assemblies on page 116.
Control bus connector	20-750-MCTRLBUS-CONN1	8	See Control Bus Connectors on page 110.
Power Bay (Converter, 600 mm)	—	2	See Cabinet-Level Kits on page 110 for Rittal part number.
Power module (Line side converter)	20-750-MI2-*xnnnxnnn*	2	Power module that is configured as a line side converter. For specification and rating information, see Frame 12 Module Selection on page 88.
LCL filter module	20-750-ML1-*xnnnxnnn*	2	For specification and rating information, see Frame 12 Module Selection on page 88.
LCL filter and one line side converter back panel and stab receptacles (600 mm)	20-750-MACR1-F8M	2	For specification and rating information, see Frame 8…15 Stab Receptacle Assemblies and Stab Receptacles with Back Panel and Bus Bars on page 108 to match power module rating.
DC link/fuse assembly	20-750-MDCL1-*xx*-F8M	2	For rating information, see DC Link/Fuse Assemblies on page 104.

Frame 15 PowerFlex 755TR Drive IP00 Component Kits (continued)

Module or Kit Name	Catalog Number	Qty.	Description
DC common mode core	20-750-MDCCM1-F8M	2	For selection information, see DC Common Mode Core on page 105. DC common mode core assembled on the DC link/fuse assembly if EMC filtering is required.
AC input bus bars and fuses	20-750-MACL*n*-F9M	2	For specification and rating information, see Frame 8…15 AC Input Link Bus Bar and Fuse Assemblies on page 107. AC common mode core assembled with AC Link if EMC filtering is required.
AC common mode core	20-750-MACCM1-F8M	2	
DC bus bar (600 mm)	20-750-MDCBUS6-*xKx*	2	For specification and rating information, see Frame 8…15 DC Bus Bars on page 108.
AC bus bar (600 mm)	20-750-MACBUS6-*xKx*	2	For specification and rating information, see Frame 8…15 AC Input Bus Bars on page 106.
Control bus assembly (600 mm)	20-750-MCBUS1-PB-F9M	2	See Control Bus Assemblies on page 110.
Vent (600 mm)	20-750-MVENT*n*-F9M	2	For specification and rating information, see Ventilation Assemblies on page 116.
Power and LCL filter module mounting brackets (600 mm)	20-750-MMNT1-F9M	2	See Power and LCL Filter Module Floor and Support Brackets on page 116.
Bus support panels, upper and lower (inverter bay)	20-750-MIPNL2-F8M	2	See Bus Support and Divider Panels (Right and Left Sides) on page 116.
Baffle (600 mm)	20-750-MIBAF1-F9M	2	See Baffle Assemblies on page 116.
Control bus connector	20-750-MCTRLBUS-CONN1	4	See Control Bus Connectors on page 110.
Power Bay (Inverter, 800 mm)	—	2	See Cabinet-Level Kits on page 110 for Rittal part number.
Power module (Motor side inverter)	20-750-MI*n-xnnnxnnn*	6	Power module that is configured as a motor side inverter. Base catalog numbers are listed in requirements tables under Frame 12 Module Selection on page 88. For specification and rating information, see Power Modules Options on page 92.
Three inverters back panel and stab receptacles (800 mm)	20-750-MIR*n*-F10M	2	For specification and rating information, see Frame 8…15 Stab Receptacle Assemblies and Stab Receptacles with Back Panel and Bus Bars on page 108 to match power module rating.
DC link/fuse assembly	20-750-MDCL1-*xx*-F8M	6	For rating information, see DC Link/Fuse Assemblies on page 104.
DC common mode core	20-750-MDCCM1-F8M	6	For selection information, see DC Common Mode Core on page 105. DC common mode core assembled on the DC link/fuse assembly if EMC filtering is required.
DC bus bar (800 mm)	20-750-MDCBUS8-*xKx*	2	For specification and rating information, see Frame 8…15 DC Bus Bars on page 108.
Control bus assembly (800 mm)	20-750-MCBUS1-PB-F10M	2	See Control Bus Assemblies on page 110.
Vent (800 mm)	20-750-MVENT*n*-F10M	2	For specification and rating information, see Ventilation Assemblies on page 116.
Power and LCL filter module mounting brackets (800 mm)	20-750-MMNT1-F10M	2	See Power and LCL Filter Module Floor and Support Brackets on page 116.
Bus support panels, upper	20-750-MIPNL1-F8M	2	See Bus Support and Divider Panels (Right and Left Sides) on page 116.
Bus support panels, lower	20-750-MCPNL1-F8M	2	
Baffle (800 mm)	20-750-MIBAF1-F10M	2	See Baffle Assemblies on page 116.
Control bus connector	20-750-MCTRLBUS-CONN1	6	See Control Bus Connectors on page 110.
Power Bay (Inverter, 600 mm)	—	2	See Cabinet-Level Kits on page 110 for Rittal part number.
Power module (Motor side inverter)	20-750-MI*n-xnnnxnnn*	4	Power module that is configured as a motor side inverter. Base catalog numbers are listed in requirements tables under Frame 12 Module Selection on page 88. For specification and rating information, see Power Modules Options on page 92.
Two inverters back panel and stab receptacles (600 mm)	20-750-MIR*n*-F9M	2	For specification and rating information, see Frame 8…15 Stab Receptacle Assemblies and Stab Receptacles with Back Panel and Bus Bars on page 108 to match power module rating.
DC link/fuse assembly	20-750-MDCL1-*xx*-F8M	4	For rating information, see DC Link/Fuse Assemblies on page 104.
DC common mode core	20-750-MDCCM1-F8M	4	For selection information, see DC Common Mode Core on page 105. DC common mode core assembled on the DC link/fuse assembly if EMC filtering is required.
DC bus bar (600 mm)	20-750-MDCBUS6-*xKx*	2	For specification and rating information, see Frame 8…15 DC Bus Bars on page 108.
Control bus assembly (600 mm)	20-750-MCBUS1-PB-F9M	2	See Control Bus Assemblies on page 110.
Vent (600 mm)	20-750-MVENT*n*-F9M	2	For specification and rating information, see Ventilation Assemblies on page 116.
Power and LCL filter module mounting brackets (600 mm)	20-750-MMNT1-F9M	2	See Power and LCL Filter Module Floor and Support Brackets on page 116.
Bus support panels, upper and lower (inverter bay)	20-750-MIPNL2-F8M	2	See Bus Support and Divider Panels (Right and Left Sides) on page 116.
Baffle (600 mm)	20-750-MIBAF1-F9M	2	See Baffle Assemblies on page 116.
Control bus connector	20-750-MCTRLBUS-CONN1	4	See Control Bus Connectors on page 110.

Frame 15 PowerFlex 755TR Drive IP00 Component Kits (continued)

Module or Kit Name	Catalog Number	Qty.	Description
Wire Entry/Exit Bay (800 mm) (Inline Configuration Only)	—	4	See Cabinet-Level Kits on page 110 for Rittal part number.
AC bus bars (800 mm)	20-750-MTEBUS1-4K7	4	For specification and rating information, Frame 8…15 AC Input Bus Bars on page 106.
Bus support panels, upper and lower (wire bay)	20-750-MWBPNL1-F8M	4	See Bus Support and Divider Panels (Right and Left Sides) on page 116.
Wire Entry Bay (800 mm) (Back-to-Back Configuration Only)	20-750-DCVBB-800-FBR	1	See Cabinet-Level Kits on page 110.
DC Voltage Balance Bay (800 mm) (Back-to-Back Configuration Only)	20-750-DCVBB-800	1	See Cabinet-Level Kits on page 110.
Additional Kits			
DC bus splice	20-750-MDCSPL1-*nKn*	10	For splice material, see Frame 8…15 DC Bus Bar Splices on page 108.
AC bus splice, converter power bay and wire entry bay	20-750-MACSPL2-4K7	8	For splice material, see Frame 8…15 AC Bus Bar Splices on page 107.
AC bus splice, inverter power bay	20-750-MACSPL1-F11M	2	
AC bus splice, wire exit bay	20-750-MTESPL*n*-F1*n*M	2	
Ground bus bar splice	20-750-MGNDSPL1	12	See Ground Bus Bar Splice on page 109.
Control bus splice	20-750-MCTRLBUS-SPL	14	See Control Bus Splice on page 110.
DC bus conditioner	20-750-MDCBUS-COND	>	Quantity based on the ground scheme. See DC Bus Conditioner on page 105.

Frame 15 PowerFlex 755TR Drive Options

Module or Kit Name	Description
Power / LCL filter module stab receptacle assembly aluminum	See Frame 8…15 Stab Receptacle Assemblies and Stab Receptacles with Back Panel and Bus Bars on page 108.
Power / LCL filter module stab receptacle assembly copper	
Splice for exit wiring bay	See Frame 8…15 AC Bus Bar Splices on page 107.
Side panels for exit wiring bay	See Bus Support and Divider Panels (Right and Left Sides) on page 116.
Torque accuracy module 400…690V	See Torque Accuracy Modules (TAM) on page 127.
Fiber-optic cable for power module to pod	See Fiber-optic Cable Kits on page 118.
Fiber-optic cable for AC precharge to pod	

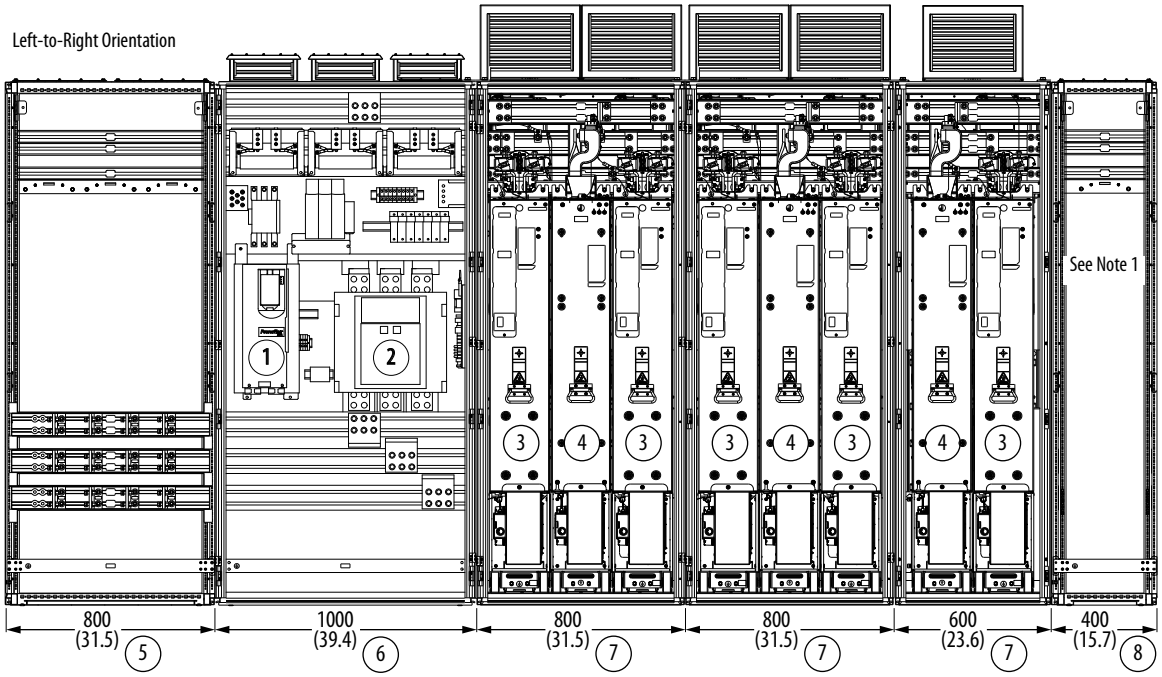
Frame 15 Equivalent PowerFlex 755TM Bus Supplies

This section provides selection information for frame 15 equivalent PowerFlex 755TM bus supplies.

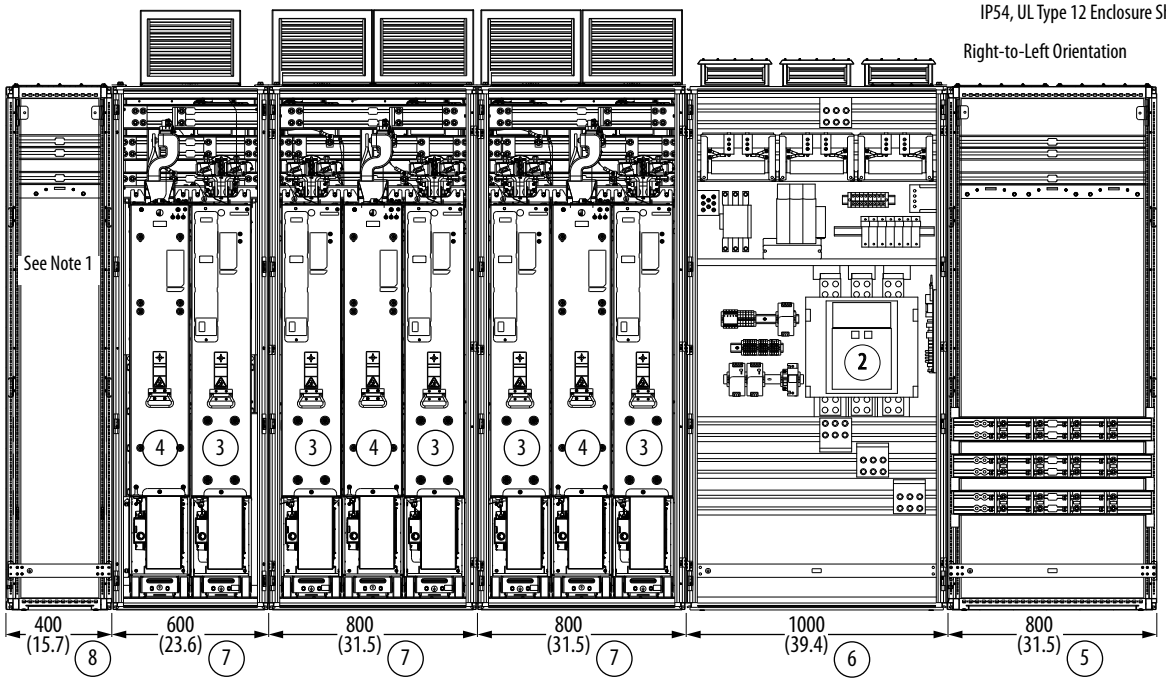
Frame 15 PowerFlex 755TM Bus Supplies Normal Duty Ratings

Input Voltage	Amps (DC)	Power Rating
400	7517	4358 kW
480	6925	4818 kW
600	5096	4432 kW
690	4714	4714 kW

Frame 15 PowerFlex 755TM Bus Supply Major Components - Front Views

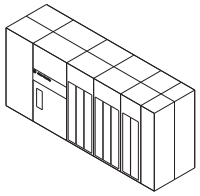


Enclosures are 600 mm (23.6 in.) deep.
IP54, UL Type 12 Enclosure Shown.

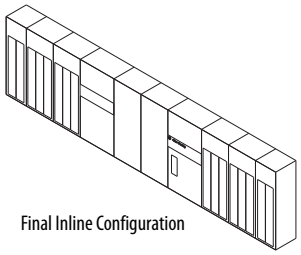


Note 1: 400 mm (15.7 in.) voltage balance bay only used with back-to-back configuration.

Item	Description	Item	Description
1	Control pod	5	Entry wire bay
2	AC precharge section	6	Input bay
3	Line side converter	7	Power bay
4	LCL filter	8	Voltage balance bay



Final Back-to-Back Configuration



Final Inline Configuration

Frame 15 PowerFlex 755TM Bus Supply IP00 Component Kits

Module or Kit Name	Catalog Number	Qty.	Description
Input Bay (1000 mm)	—	2	See Cabinet-Level Kits on page 110 for Rittal part number.
AC precharge circuit breaker	20-750-MACPCCB-F-3K0	2	Choose one set of circuit breakers. For specification and rating information, see AC Precharge Circuit Breaker on page 93.
	20-750-MACPCCB1-CD-5K0	2	
	20-750-MACPCCB-CDE-3K0	2	
AC precharge control board	20-750-MACPC1-*xx*	2	For specification and rating information, see AC Precharge Control Boards on page 127.
AC precharge resistor bank	20-750-MACPR-*xx*-F12M	6	For specification and rating information, see AC Precharge Resistor Banks on page 94.
AC precharge TVSS module	20-750-MACP-*xx*-TVSS	2	For specification and rating information, see TVSS Modules on page 106.
AC precharge time delay relay	20-750-MACPC-TDR	2	For specification and rating information, see AC Precharge Time Delay Relay on page 94.
Circuit breaker mounting panels	20-750-MIBPNL2-F*nn*M	2	For specification and rating information, see Circuit Breaker Mounting Panels on page 116.
Control pod	20-750-MCPOD1-F8M	2	For specification and rating information, see Control Pod Assemblies on page 117.
Fiber transceiver boards	20-750-MFTB1-F8	7	See Fiber Transceiver Board on page 127.
AC bus bar (1000 mm)	20-750-MACBUS10-*xKx*	4	For specification and rating information, see Frame 8…15 AC Input Bus Bars on page 106.
DC bus bar (1000 mm)	20-750-MDCBUS10-*xKx*	2	For specification and rating information, see Frame 8…15 DC Bus Bars on page 108.
Control bus assembly (1000 mm)	20-750-MCBUS1-IB-F10M	2	See Control Bus Assemblies on page 110.
Control bus connector	20-750-MCTRLBUS-CONN2	2	See Control Bus Connectors on page 110.
Vent, input bay (1000 mm)	20-750-MVENTC*n*-F11M	2	For specification and rating information, see Ventilation Assemblies on page 116.
Bus support panels, lower (1000 mm)	20-750-MIBPNL1-F10M	2	See Bus Support and Divider Panels (Right and Left Sides) on page 116.
Power Bay (Converter, 800 mm)	—	4	See Cabinet-Level Kits on page 110 for Rittal part number.
Power module (Line side converter)	20-750-MI2-*xnnnxnnn*	8	Power module that is configured as a line side converter. For specification and rating information, see Frame 12 Module Selection on page 88.
LCL filter module	20-750-ML1-*xnnnxnnn*	4	For specification and rating information, see Frame 12 Module Selection on page 88.
LCL filter and two line side converters back panel and stab receptacles (800 mm)	20-750-MACR1-F9M	4	For specification and rating information, see Frame 8…15 Stab Receptacle Assemblies and Stab Receptacles with Back Panel and Bus Bars on page 108 to match power module rating.
DC link/fuse assembly	20-750-MDCL1-*xx*-F8M	8	For rating information, see DC Link/Fuse Assemblies on page 104.
DC common mode core	20-750-MDCCM1-F8M	8	For selection information, see DC Common Mode Core on page 105. DC common mode core assembled on the DC link/fuse assembly if EMC filtering is required.
AC input bus bars and fuses	20-750-MACL*n*-F9M	4	For specification and rating information, see Frame 8…15 AC Input Link Bus Bar and Fuse Assemblies on page 107. AC common mode core assembled with AC Link if EMC filtering is required.
AC common mode core	20-750-MACCM1-F8M	4	
DC bus bar (800 mm)	20-750-MDCBUS8-*xKx*	4	For specification and rating information, see Frame 8…15 DC Bus Bars on page 108.
AC bus bar (800 mm)	20-750-MACBUS8-*xKx*	4	For specification and rating information, see Frame 8…15 AC Input Bus Bars on page 106.
Control bus assembly (800 mm)	20-750-MCBUS1-PB-F10M	4	See Control Bus Assemblies on page 110.
Control bus connector	20-750-MCTRLBUS-CONN1	12	See Control Bus Connectors on page 110.
Vent (800 mm)	20-750-MVENT*n*-F10M	4	For specification and rating information, see Ventilation Assemblies on page 116.
Bus support panels, upper	20-750-MIPNL1-F8M	4	See Bus Support and Divider Panels (Right and Left Sides) on page 116.
Bus support panels, lower	20-750-MCPNL1-F8M	4	
Power and LCL filter module mounting brackets (800 mm)	20-750-MMNT1-F10M	4	See Power and LCL Filter Module Floor and Support Brackets on page 116.
Baffle (800 mm)	20-750-MIBAF1-F10M	4	See Baffle Assemblies on page 116.
Power Bay (Converter, 600 mm)	—	2	See Cabinet-Level Kits on page 110 for Rittal part number.
Power module (Line side converter)	20-750-MI2-*xnnnxnnn*	2	Power module that is configured as a line side converter. For specification and rating information, see Frame 12 Module Selection on page 88.
LCL filter module	20-750-ML1-*xnnnxnnn*	2	For specification and rating information, see Frame 12 Module Selection on page 88.
LCL filter and one line side converter back panel and stab receptacles (600 mm)	20-750-MACR1-F8M	2	For specification and rating information, see Frame 8…15 Stab Receptacle Assemblies and Stab Receptacles with Back Panel and Bus Bars on page 108 to match power module rating.
DC link/fuse assembly	20-750-MDCL1-*xx*-F8M	2	For rating information, see DC Link/Fuse Assemblies on page 104.

Frame 15 PowerFlex 755TM Bus Supply IP00 Component Kits (continued)

Module or Kit Name	Catalog Number	Qty.	Description
DC common mode core	20-750-MDCCM1-F8M	2	For selection information, see DC Common Mode Core on page 105. DC common mode core assembled on the DC link/fuse assembly if EMC filtering is required.
AC input bus bars and fuses	20-750-MACL*n*-F9M	2	For specification and rating information, see Frame 8…15 AC Input Link Bus Bar and Fuse Assemblies on page 107. AC common mode core assembled with AC Link if EMC filtering is required.
AC common mode core	20-750-MACCM1-F8M	2	
DC bus bar (600 mm)	20-750-MDCBUS6-*xKx*	2	For specification and rating information, see Frame 8…15 DC Bus Bars on page 108.
AC bus bar (600 mm)	20-750-MACBUS6-*xKx*	2	For specification and rating information, see Frame 8…15 AC Input Bus Bars on page 106.
Control bus assembly (600 mm)	20-750-MCBUS1-PB-F9M	2	See Control Bus Assemblies on page 110.
Control bus connector	20-750-MCTRLBUS-CONN1	4	See Control Bus Connectors on page 110.
Vent (600 mm)	20-750-MVENT*n*-F9M	2	For specification and rating information, see Ventilation Assemblies on page 116
Bus support panels, upper	20-750-MIPNL1-F8M	2	See Bus Support and Divider Panels (Right and Left Sides) on page 116.
Bus support panels, lower	20-750-MCPNL1-F8M	2	
Power and LCL filter module mounting brackets (600 mm)	20-750-MMNT1-F9M	2	See Power and LCL Filter Module Floor and Support Brackets on page 116.
Baffle (600 mm)	20-750-MIBAF1-F9M	2	See Baffle Assemblies on page 116.
Wire Entry/Exit Bay (800 mm) (Inline Configuration Only)	—	2	See Cabinet-Level Kits on page 110 for Rittal part number.
AC bus bars (800 mm)	20-750-MTEBUS1-4K7	2	For specification and rating information, see Frame 8…15 AC Input Bus Bars on page 106.
DC bus bars (800 mm)	20-750-MDCBUS8-nKn	2	For specification and rating information, see Frame 8...15 DC Bus Bars on page...
Bus support panels, upper and lower (wire bay)	20-750-MWBPNL1-F8M	2	See Bus Support and Divider Panels (Right and Left Sides) on page 116.
Wire Entry Bay (800 mm) (Back-to-Back Configuration Only)	20-750-DCVBB-800-FBR	1	See Cabinet-Level Kits on page 110.
DC Voltage Balance Bay (400 mm) (Back-to-Back Configuration Only)	20-750-DCVBB-BS	1	See Cabinet-Level Kits on page 110.
Additional Kits			
DC bus splice (inline configuration)	20-750-MDCSPL1-*nKn*	9	For splice material, see Frame 8…15 DC Bus Bar Splices on page 108.
DC bus splice (back-to-back configuration)		10	
AC bus splice, converter power bay and entry wire bay	20-750-MACSPL2-4K7	8	For splice material, see Frame 8…15 AC Bus Bar Splices on page 107.
Ground bus bar splice	20-750-MGNDSPL1	10	See Ground Bus Bar Splice on page 109.
Control bus splice (Inline configuration)	20-750-MCTRLBUS-SPL	8	See Control Bus Splice on page 110.
Control bus splice (back-to-back configuration)		10	
DC bus conditioner	20-750-MDCBUS-COND	>	Quantity based on the ground scheme. See DC Bus Conditioner on page 105.

Frame 15 PowerFlex 755TM Bus Supply Options

Module or Kit Name	Description
Power / LCL filter module stab receptacle assembly aluminum	See Frame 8…15 Stab Receptacle Assemblies and Stab Receptacles with Back Panel and Bus Bars on page 108.
Power / LCL filter module stab receptacle assembly copper	
Splice for exit wiring bay	See Frame 8…15 AC Bus Bar Splices on page 107.
Side panels for exit wiring bay	See Bus Support and Divider Panels (Right and Left Sides) on page 116.
Torque accuracy module 400…690V	See Torque Accuracy Modules (TAM) on page 127.
Fiber-optic cable for power module to pod	See Fiber-optic Cable Kits on page 118.
Fiber-optic cable for AC precharge to pod	

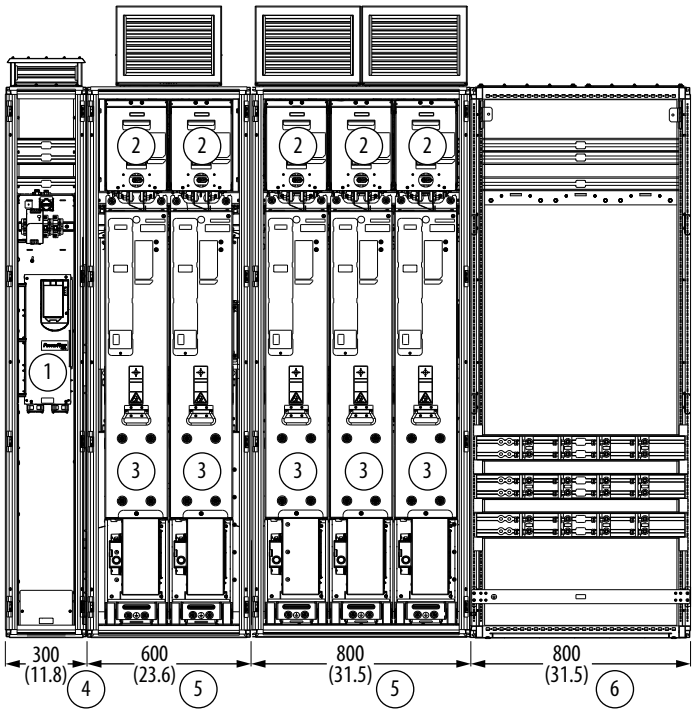
Frame 15 Equivalent PowerFlex 755TM Common Bus Inverters (CBI)

This section provides selection information for frame 15 equivalent PowerFlex 755TM common bus inverters.

Frame 15 PowerFlex 755TM Common Bus Inverters Normal Duty Ratings

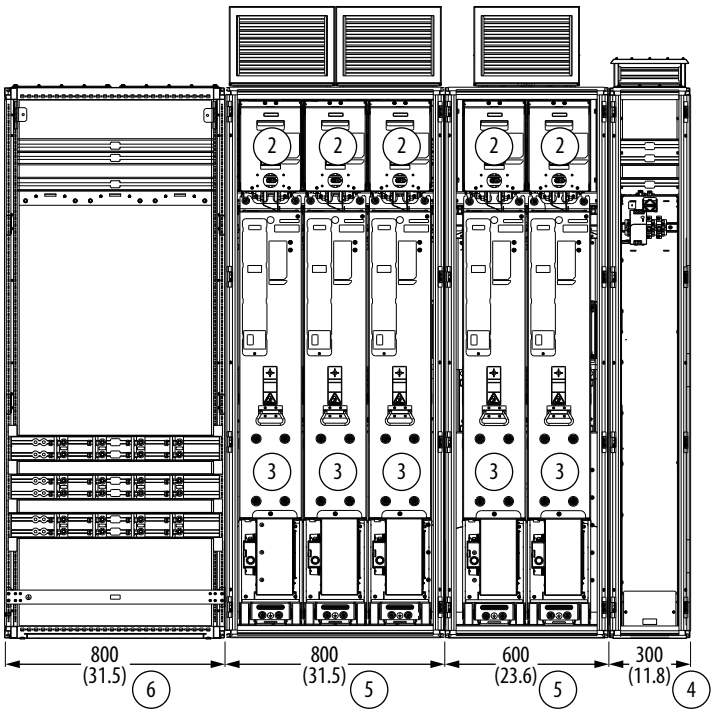
Input Voltage	Amps (AC)	Power Rating
400	7007	3640 kW
480	6734	6000 Hp
600	4960	5100 Hp
690	4596	4550 kW

Frame 15 PowerFlex 755TM Common Bus Inverter Major Components - Front Views



Left-to-Right Orientation

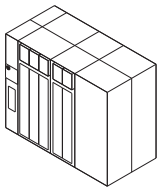
Enclosures are 600 mm (23.6 in.) deep.
IP54, UL Type 12 Enclosure Shown.



Right-to-Left Orientation

Item	Description
1	Control pod
2	DC precharge module
3	Motor side inverter

Item	Description
4	Control bay
5	Power bay
6	Voltage balance bay



Final Back-to-Back Configuration

Frame 15 PowerFlex 755TM Common Bus Inverter IP00 Component Kits

Module or Kit Name	Catalog Number	Qty.	Description
Control Bay (300 mm)	—	2	See Cabinet-Level Kits on page 110 for Rittal part number.
Control pod	20-750-MCPOD1-F8M	2	For specification and rating information, see Control Pod Assemblies on page 117.
Fiber transceiver boards	20-750-MFTB1-F8	4 or 5[1]	See Fiber Transceiver Board on page 127.
DC bus bar (300 mm)	20-750-MDCBUS3-*xKx*	2	For specification and rating information, see Frame 8…15 DC Bus Bars on page 108.
Control bus assembly (300 mm)	20-750-MCBUS1-CB-F8M	2	See Control Bus Assemblies on page 110.
Vent (300 mm)	20-750-MVENTC2-F8M	2	For specification and rating information, see Ventilation Assemblies on page 116.
Power Bay (Inverter, 800 mm)	—	2	See Cabinet-Level Kits on page 110 for Rittal part number.
Power module (Motor side inverter)	20-750-MI2-*xnnnxnnn*	6	Power module that is configured as a motor side inverter. Choose one set of six modules. For specification and rating information, see Frame 11 Module Selection on page 87.
	20-750-MI3-*xnnnxnnn*	6	
Inverter back panel and stab receptacles (800 mm)	20-750-MIR*n*-F10M	2	For specification and rating information, see Frame 8…15 Stab Receptacle Assemblies and Stab Receptacles with Back Panel and Bus Bars on page 108 to match power module rating.
DC link/fuse assembly	20-750-MDCL1-*xx*-F8M	6	For rating information, see DC Link/Fuse Assemblies on page 104. Not required if DC precharge modules are used.
DC precharge module (optional)	20-750-MDCP*n*-*xx*-F8M	6	For specification and rating information, see DC Precharge Modules on page 104.
DC common mode core	20-750-MDCCM1-F8M	6	For selection information, see DC Common Mode Core on page 105. DC common mode core assembled on the DC link/fuse assembly if EMC filtering is required.
DC bus bar (800 mm)	20-750-MDCBUS8-*xKx*	2	For specification and rating information, see Frame 8…15 DC Bus Bars on page 108.
Control bus assembly (800 mm)	20-750-MCBUS1-PB-F10M	2	See Control Bus Assemblies on page 110.
Control bus connector	20-750-MCTRLBUS-CONN1	6	See Control Bus Connectors on page 110.
Vent, power bay (800 mm)	20-750-MVENTx-F10M	2	For specification and rating information, see Ventilation Assemblies on page 116.
Power module mounting bracket (800 mm)	20-750-MMNT1-F10M	2	See Power and LCL Filter Module Floor and Support Brackets on page 116.
Bus support side panels, upper and lower	20-750-MIPNL2-F8M	2	See Bus Support and Divider Panels (Right and Left Sides) on page 116.
Baffle (800 mm)	20-750-MIBAF1-F10M	2	See Baffle Assemblies on page 116.
Power Bay (Inverter, 600 mm)	—	2	See Cabinet-Level Kits on page 110 for Rittal part number.
Power module (Motor side inverter)	20-750-MI2-*xnnnxnnn*	4	Power module that is configured as a motor side inverter. Choose one set of four modules. For specification and rating information, see Frame 11 Module Selection on page 87.
	20-750-MI3-*xnnnxnnn*	4	
Inverter back panel and stab receptacles (600 mm)	20-750-MIR*n*-F9M	2	For specification and rating information, see Frame 8…15 Stab Receptacle Assemblies and Stab Receptacles with Back Panel and Bus Bars on page 108 to match power module rating.
DC link/fuse assembly	20-750-MDCL1-*xx*-F8M	4	For rating information, see DC Link/Fuse Assemblies on page 104. Not required if DC precharge modules are used.
DC precharge module (optional)	20-750-MDCP*n*-*xx*-F8M	4	For specification and rating information, see DC Precharge Modules on page 104.
DC common mode core	20-750-MDCCM1-F8M	4	For selection information, see DC Common Mode Core on page 105. DC common mode core assembled on the DC link/fuse assembly if EMC filtering is required.
DC bus bar (600 mm)	20-750-MDCBUS6-*xKx*	2	For specification and rating information, see Frame 8…15 DC Bus Bars on page 108.
Control bus assembly (600 mm)	20-750-MCBUS1-PB-F9M	2	See Control Bus Assemblies on page 110.
Control bus connector	20-750-MCTRLBUS-CONN1	2 or 3[2]	See Control Bus Connectors on page 110.
Vent, power bay (600 mm)	20-750-MVENTx-F9M	2	For specification and rating information, see Ventilation Assemblies on page 116.
Power module mounting bracket (600 mm)	20-750-MMNT1-F9M	2	See Power and LCL Filter Module Floor and Support Brackets on page 116.
Bus support side panels, upper and lower	20-750-MIPNL2-F8M	2	See Bus Support and Divider Panels (Right and Left Sides) on page 116.
Baffle (600 mm)	20-750-MIBAF1-F9M	2	See Baffle Assemblies on page 116.
DC Voltage Balance Bay (800 mm) (Back-to-Back Configuration Only)	20-750-DCVBB-800	1	See Cabinet-Level Kits on page 110.
Additional Kits			
DC bus splice	20-750-MDCSPL1-4K7	6	For splice material, see Frame 8…15 DC Bus Bar Splices on page 108.

Frame 15 PowerFlex 755TM Common Bus Inverter IP00 Component Kits (continued)

Module or Kit Name	Catalog Number	Qty.	Description
AC bus splice, inverter power bay	20-750-MACSPL1-F11M	2	For splice material, see Frame 8…15 AC Bus Bar Splices on page 107.
Ground bus bar splice	20-750-MGNDSPL1	6	See Ground Bus Bar Splice on page 109.
Control bus splice	20-750-MCTRLBUS-SPL	6	See Control Bus Splice on page 110.

(1) Five fiber transceiver boards are required when a torque accuracy module is used.
(2) A control bus connector is required for each DC link/fuse assembly and a torque accuracy module, when used.

Frame 15 PowerFlex 755TM Common Bus Inverter Options

Module or Kit Name	Description
Power / LCL filter module stab receptacle assembly aluminum	See Frame 8…15 Stab Receptacle Assemblies and Stab Receptacles with Back Panel and Bus Bars on page 108
Power / LCL filter module stab receptacle assembly copper	
Splice for exit wiring bay	See Frame 8…15 AC Bus Bar Splices on page 107
Side panels for exit wiring bay	See Bus Support and Divider Panels (Right and Left Sides) on page 116
Torque accuracy module 400…690V	See Torque Accuracy Modules (TAM) on page 127
Fiber-optic cable for power module to pod	See Fiber-optic Cable Kits on page 118
Fiber-optic cable for AC precharge to pod	

LCL Filter and Power Module Position Designations

LCL filter and power modules must be positioned in a specific order within the power bays. See the IP00 / Open Type Kit Selection by Equivalent Frame Size on page 7 for required modules and positions for a specific frame size, voltage class, and power rating.

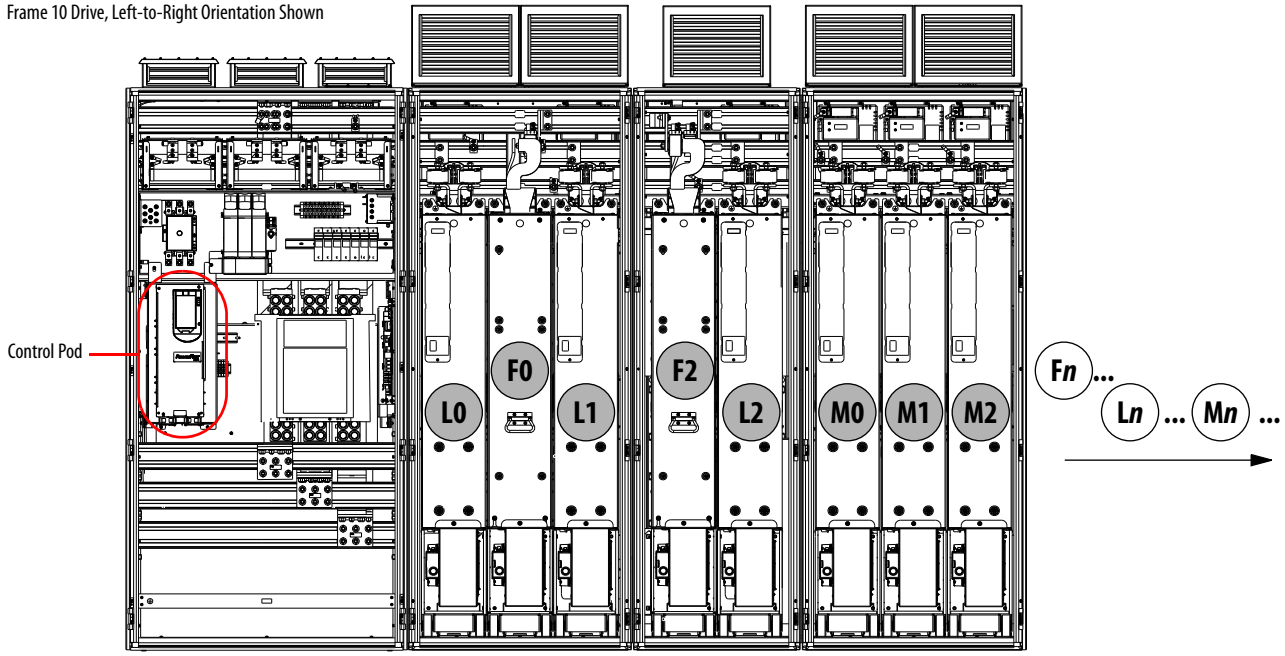
LCL filter and power modules are assigned a position designation to help make point-to-point fiber-optic connections and troubleshooting easier. The position designations are designed to match parameter display names. For example, the voltage rating of the line side converter power module designated "L0" can be found in parameter 14:100 [L0 Rated Volts].

Line side converter power modules are designated "L." Motor side inverter power modules are designated "M." Power modules are numbered 0...9 based on the installation position relative to the control pod when it is installed in a control bay or input bay, as shown in this example. The power module closest to the control pod is numbered "0." For example, in this illustration the line side converter power module closest to the control pod is designated "L0."

LCL filter modules are designated "F." LCL filter modules are numbered based on the position of the lowest numbered line side converter power module to which the LCL filter module fiber-optic cable is connected. For example, in this illustration the first LCL filter module fiber-optic cable is connected to both power modules L0 and L1. Therefore, the first LCL filter module is designated "F0."

Module designation labels are provided with all control pod kits. Depending on the date of the control pod purchase, the labels for LCL filter module are either LCLn or Fn. See the LCL Filter Module Labels for Frame Size table on page 82 for a list of LCL filter module labels.

LCL Filter and Power Module Position Designations Example



Designation	Module	Designation	Module	Designation	Module
F*n*	LCL filter module	L*n*	Line side converter power module	M*n*	Motor side inverter power module

LCL Filter Module Position Designation Labels

This table provides the possible position designation labels for LCL filter module.

LCL Filter Module Labels for Frame Size

Frame Size								
7	**8**	**9**	**10**	**11**	**12**	**13**	**14**	**15**
LCL0 or F0	LCL0 or F0	LCL0 or F0	LCL0 or F0	LCL0 or F0	LCL0 or F0	LCL0 or F0	LCL0 or F0	LCL0 or F0
—	—	—	LCL1 or F2	LCL1 or F2	LCL1 or F2	LCL1 or F2	LCL1 or F2	LCL1 or F2
—	—	—	—	—	LCL2 or F4	LCL2 or F3	LCL2 or F4	LCL2 or F4
—	—	—	—	—	—	LCL3 or F5	LCL3 or F6	LCL3 or F5
—	—	—	—	—	—	—	—	LCL4 or F7
—	—	—	—	—	—	—	—	LCL5 or F9

LCL Filter and Power Module Selection

The following tables list the combination and quantity of required LCL filter and power modules for each frame size and product rating. These tables use the "F*n*" designation for LCL filter modules.

Frame 7 Module Selection

For required airflow rates, see Required Enclosure Airflow Rates on page 228.

400V Frame 7 Module Requirements

Module ->	**LCL Filter (Drive and Bus Supply)**		**Line Side Converter (Bus Supply)**				**Motor Side Inverter (Drive)**		
Position ->	**F0**		**L0**				**M0**		
Drive kW Ratings *(LD/ND/HD)*	*Qty.*	**Cat. No.** *20-750-*	*Qty.*	**Cat. No.** *20-750-*	**Input Amps Ratings** *(LD/ND/HD)*	**Output Amps Ratings** *at* **580V DC** *(LD/ND/HD)*	*Qty.*	**Cat. No.** *20-750-*	**Output Amps Ratings** *(LD/ND/HD)*
200/160/132	1	ML4-C585D617	1	MI4-C302D302	343/282/243	394/324/279	1	MI4-C302D302	367/302/260
250/200/160	1	ML4-C585D617	1	MI4-C367D361	430/343/282	494/394/324	1	MI4-C367D361	460/367/302
315/250/200	1	ML4-C585D617	1	MI4-C460D430	505/430/343	579/494/394	1	MI4-C460D430	540/460/367
315/315/250	1	ML4-C585D617	1	MI4-C540D505	547/505/430	628/579/494	1	MI4-C540D505	585/540/460
315/315/250	1	ML4-C585D617	1	MI4-C585D617	577/561/467	662/628/579	1	MI4-C585D617	617/600/500

480V Frame 7 Module Requirements

Module ->	**LCL Filter (Drive and Bus Supply)**		**Line Side Converter (Bus Supply)**				**Motor Side Inverter (Drive)**		
Position ->	**F0**		**L0**				**M0**		
Drive Hp Ratings *(LD/ND/HD)*	*Qty.*	**Cat. No.** *20-750-*	*Qty.*	**Cat. No.** *20-750-*	**Input Amps Ratings** *(LD/ND/HD)*	**Output Amps Ratings** *at* **696V DC** *(LD/ND/HD)*	*Qty.*	**Cat. No.** *20-750-*	**Output Amps Ratings** *(LD/ND/HD)*
300/250/200	1	ML4-C585D617	1	MI4-C302D302	323/271/222	371/311/255	1	MI4-C302D302	361/302/248
350/300/250	1	ML4-C585D617	1	MI4-C367D361	385/323/271	442/371/311	1	MI4-C367D361	430/361/302
400/350/300	1	ML4-C585D617	1	MI4-C460D430	435/385/323	499/442/371	1	MI4-C460D430	485/430/361
450/400/350	1	ML4-C585D617	1	MI4-C540D505	488/452/385	560/519/442	1	MI4-C540D505	544/505/430
500/500/400	1	ML4-C585D617	1	MI4-C585D617	553/538/448	634/617/514	1	MI4-C585D617	617/600/500

600V Frame 7 Module Requirements

Module ->	LCL Filter (Drive and Bus Supply)		Line Side Converter (Bus Supply)				Motor Side Inverter (Drive)		
Position ->	F0		L0				M0		
Drive Hp Ratings *(LD/ND/HD)*	*Qty.*	**Cat. No.** *20-750-*	*Qty.*	**Cat. No.** *20-750-*	**Input Amps Ratings** *(LD/ND/HD)*	**Output Amps Ratings** *at* **870V DC** *(LD/ND/HD)*	*Qty.*	**Cat. No.** *20-750-*	**Output Amps Ratings** *(LD/ND/HD)*
250/200/150	1	ML4-E395F370	1	MI4-E192F171	217/172/129	249/197/148	1	MI4-E192F171	242/192/144
300/250/200	1	ML4-E395F370	1	MI4-E242F215	264/217/172	303/249/197	1	MI4-E242F215	295/242/192
350/300/250	1	ML4-E395F370	1	MI4-E295F265	318/264/217	365/303/249	1	MI4-E295F265	355/295/242
400/350/300	1	ML4-E395F370	1	MI4-E355F330	354/318/264	406/365/303	1	MI4-E355F330	395/355/295
450/400/350	1	ML4-E395F370	1	MI4-E395F370	390/354/318	447/406/365	1	MI4-E395F370	435/395/355

690V Frame 7 Module Requirements

Module ->	LCL Filter (Drive and Bus Supply)		Line Side Converter (Bus Supply)				Motor Side Inverter (Drive)		
Position ->	F0		L0				M0		
Drive kW Ratings *(LD/ND/HD)*	*Qty.*	**Cat. No.** *20-750-*	*Qty.*	**Cat. No.** *20-750-*	**Input Amps Ratings** *(LD/ND/HD)*	**Output Amps Ratings** *at* **1000V DC** *(LD/ND/HD)*	*Qty.*	**Cat. No.** *20-750-*	**Output Amps Ratings** *(LD/ND/HD)*
200/160/132	1	ML4-E395F370	1	MI4-E192F171	192/153/127	221/176/146	1	MI4-E192F171	215/171/142
250/200/160	1	ML4-E395F370	1	MI4-E242F215	237/192/153	272/221/176	1	MI4-E242F215	265/215/171
315/250/200	1	ML4-E395F370	1	MI4-E295F265	295/237/192	339/272/221	1	MI4-E295F265	330/265/215
355/315/250	1	ML4-E395F370	1	MI4-E355F330	331/295/237	380/339/272	1	MI4-E355F330	370/330/265
400/355/315	1	ML4-E395F370	1	MI4-E395F370	371/331/295	426/380/339	1	MI4-E395F370	415/370/330

Frame 8 Module Selection

For required airflow rates, see Required Enclosure Airflow Rates on page 228. For AC precharge module selection, see AC Precharge Modules on page 93.

400V Frame 8 Module Requirements

Module ->	LCL Filter (Drive and Bus Supply)		Line Side Converter (Bus Supply)				Motor Side Inverter (CBI)[1]			
Position ->	F0		L0				M0			
Drive kW Ratings *(LD/ND/HD)*	*Qty.*	**Cat. No.** *20-750-*	*Qty.*	**Cat. No.** *20-750-*	**Input Amps Ratings** *(LD/ND/HD)*	**Output Amps Ratings** *at* **580V DC** *(LD/ND/HD)*	*Qty.*	**Cat. No.** *20-750-*	**Input Amps Ratings** *at* **540V DC** *(LD/ND/HD)*	**Output Amps Ratings** *(LD/ND/HD)*
200/160/132	1	ML1-C540D505	1	MI1-C302D302	343/282/243	394/324/279	1	MI*n*-C302D302	423/348/300	367/302/260
250/200/160	1	ML1-C540D505	1	MI1-C367D361	430/343/282	494/394/324	1	MI*n*-C367D361	530/423/348	460/367/302
315/250/200	1	ML1-C540D505	1	MI1-C460D430	505/430/343	579/494/394	1	MI*n*-C460D430	622/530/423	540/460/367
315/315/250	1	ML1-C540D505	1	MI1-C540D505	547/505/430	628/579/494	1	MI*n*-C540D505	674/622/530	585/540/460
355/315/250	1	ML1-C770D740	1	MI1-C585D545	582/547/430	667/628/494	1	MI*n*-C585D545	717/674/530	650/585/472
400/355/315	1	ML1-C770D740	1	MI1-C650D617	701/608/505	805/698/579	1	MI*n*-C650D617	864/749/622	750/650/540
400/400/315	1	ML1-C770D740	1	MI1-C750D710	720/701/547	826/805/628	1	MI*n*-C750D710	887/864/674	796/750/585
450/400/355	1	ML1-C770D740	1	MI1-C770D740	778/720/600	893/826/698	1	MI*n*-C770D740	959/887/740	832/770/650

(1) Motor side inverters have filter options: MI1 = no filter, MI2 = with paralleling inductor, MI3 = with reflective wave filter.

480V Frame 8 Module Requirements

Module ->	LCL Filter (Drive and Bus Supply)		Line Side Converter (Bus Supply)				Motor Side Inverter (CBI)(1)			
Position ->	F0		L0				M0			
Drive Hp Ratings *(LD/ND/HD)*	*Qty.*	**Cat. No.** *20-750-*	*Qty.*	**Cat. No.** *20-750-*	**Input Amps Ratings** *(LD/ND/HD)*	**Output Amps Ratings** *at* **696V DC** *(LD/ND/HD)*	*Qty.*	**Cat. No.** *20-750-*	**Input Amps Ratings** *at* **650V DC** *(LD/ND/HD)*	**Output Amps Ratings** *(LD/ND/HD)*
300/250/200	1	ML1-C540D505	1	MI1-C302D302	323/271/222	371/311/255	1	MI*n*-C302D302	399/333/274	361/302/248
350/300/250	1	ML1-C540D505	1	MI1-C367D361	385/323/271	442/371/311	1	MI*n*-C367D361	475/399/333	430/361/302
400/350/300	1	ML1-C540D505	1	MI1-C460D430	435/385/323	499/442/371	1	MI*n*-C460D430	535/475/399	485/430/361
450/400/350	1	ML1-C540D505	1	MI1-C540D505	488/452/385	560/519/442	1	MI*n*-C540D505	602/558/475	545/505/430
500/450/350	1	ML1-C770D740	1	MI1-C585D545	529/488/385	607/560/442	1	MI*n*-C585D545	651/602/475	617/545/454
600/500/400	1	ML1-C770D740	1	MI1-C650D617	636/553/435	730/635/499	1	MI*n*-C650D617	784/681/535	710/617/485
650/600/450	1	ML1-C770D740	1	MI1-C750D710	663/636/488	761/730/560	1	MI*n*-C750D710	817/784/602	765/710/545
700/650/500	1	MI3-C770D740	1	MI1-C770D740	717/663/553	823/761/635	1	MI*n*-C770D740	883/817/681	800/740/617

(1) Motor side inverters have filter options: MI1 = no filter, MI2 = with paralleling inductor, MI3 = with reflective wave filter.

600V Frame 8 Module Requirements

Module ->	LCL Filter (Drive and Bus Supply)		Line Side Converter (Bus Supply)				Motor Side Inverter (CBI)(1)			
Position ->	F0		L0				M0			
Drive Hp Ratings *(LD/ND/HD)*	*Qty.*	**Cat. No.** *20-750-*	*Qty.*	**Cat. No.** *20-750-*	**Input Amps Ratings** *(LD/ND/HD)*	**Output Amps Ratings** *at* **580V DC** *(LD/ND/HD)*	*Qty.*	**Cat. No.** *20-750-*	**Input Amps Ratings** *at* **540V DC** *(LD/ND/HD)*	**Output Amps Ratings** *(LD/ND/HD)*
300/250/200	1	ML1-E395F370	1	MI1-E242F215	264/217/172	303/249/197	1	MI*n*-E242F215	326/267/212	295/242/192
350/300/250	1	ML1-E395F370	1	MI1-E295F265	318/264/217	365/303/249	1	MI*n*-E295F265	392/326/267	355/295/242
400/350/300	1	ML1-E395F370	1	MI1-E355F330	354/318/264	406/365/303	1	MI*n*-E355F330	436/392/326	395/355/295
450/400/350	1	ML1-E395F370	1	MI1-E395F370	390/354/318	447/406/365	1	MI*n*-E395F370	480/436/392	435/395/355
500/450/400	1	ML1-E545F505	1	MI1-E435F415	457/390/354	524/447/406	1	MI*n*-E435F415	563/480/436	510/435/395
600/550/450	1	ML1-E545F505	1	MI1-E545F505	520/488/403	596/560/463	1	MI*n*-E545F505	640/602/497	580/545/450

(1) Motor side inverters have filter options: MI1 = no filter, MI2 = with paralleling inductor, MI3 = with reflective wave filter.

690V Frame 8 Module Requirements

Module ->	LCL Filter (Drive and Bus Supply)		Line Side Converter (Bus Supply)				Motor Side Inverter (CBI)(1)			
Position ->	F0		L0				M0			
Drive kW Ratings *(LD/ND/HD)*	*Qty.*	**Cat. No.** *20-750-*	*Qty.*	**Cat. No.** *20-750-*	**Input Amps Ratings** *(LD/ND/HD)*	**Output Amps Ratings** *at* **696V DC** *(LD/ND/HD)*	*Qty.*	**Cat. No.** *20-750-*	**Input Amps Ratings** *at* **650V DC** *(LD/ND/HD)*	**Output Amps Ratings** *(LD/ND/HD)*
250/200/160	1	ML1-E395F370	1	MI1-E242F215	237/192/153	272/221/176	1	MI*n*-E242F215	292/237/188	265/215/171
315/250/200	1	ML1-E395F370	1	MI1-E295F265	295/237/192	339/272/221	1	MI*n*-E295F265	364/292/237	330/265/215
355/315/250	1	ML1-E395F370	1	MI1-E355F330	331/295/237	380/339/272	1	MI*n*-E355F330	408/364/292	370/330/265
400/355/315	1	ML1-E395F370	1	MI1-E395F370	371/331/295	426/380/339	1	MI*n*-E395F370	457/408/364	415/370/330
450/400/355	1	ML1-E545F505	1	MI1-E435F415	411/371/331	472/426/380	1	MI*n*-E435F415	507/457/408	460/415/370
560/500/400	1	ML1-E545F505	1	MI1-E545F505	505/452/371	580/518/426	1	MI*n*-E545F505	623/556/457	565/505/415

(1) Motor side inverters have filter options: MI1 = no filter, MI2 = with paralleling inductor, MI3 = with reflective wave filter.

Frame 9 Module Selection

For required airflow rates, see Required Enclosure Airflow Rates on page 228. For AC precharge module selection, see AC Precharge Modules on page 93.

400V Frame 9 Module Requirements

Module ->	**LCL Filter (Drive and Bus Supply)**		**Line Side Converter (Bus Supply)**				**Motor Side Inverter (CBI)**[1]			
Position ->	**F0**		**L0 and L1**				**M0 and M1**			
Drive kW Ratings *(LD/ND/HD)*	*Qty.*	**Cat. No.** *20-750-*	*Qty.*	**Cat. No.** *20-750-*	**Input Amps Ratings** *(LD/ND/HD)*	**Output Amps Ratings** *at* **580V DC** *(LD/ND/HD)*	*Qty.*	**Cat. No.** *20-750-*	**Input Amps Ratings** *at* **540V DC** *(LD/ND/HD)*	**Output Amps Ratings** *(LD/ND/HD)*
560/500/400	1	ML1-C1K1D1K0	2	MI2-C460D430	972/860/720	1116/987/826	2	MI*n*-C460D430	1198/1060/887	1040/920/770
630/560/500	1	ML1-C1K1D1K0	2	MI2-C540D505	1019/972/860	1170/1116/987	2	MI*n*-C540D505	1256/1198/1060	1090/1040/920
710/630/500	1	ML1-C1K4D1K3	2	MI2-C585D545	1105/1039/972	1268/1193/1116	2	MI*n*-C585D545	1361/1281/1198	1182/1112/1040
800/710/560	1	ML1-C1K4D1K3	2	MI2-C650D617	1370/1099/1019	1572/1261/1170	2	MI*n*-C650D617	1688/1354/1256	1465/1175/1090
850/800/630	1	ML1-C1K4D1K3	2	MI2-C770D740	1478/1368/1099	1696/1570/1261	2	MI*n*-C770D740	1821/1685/1354	1581/1465/1175

(1) Motor side inverters have filter options: MI1 = no filter, MI2 = with paralleling inductor, MI3 = with reflective wave filter.

480V Frame 9 Module Requirements

Module ->	**LCL Filter (Drive and Bus Supply)**		**Line Side Converter (Bus Supply)**				**Motor Side Inverter (CBI)**[1]			
Position ->	**F0**		**L0 and L1**				**M0 and M1**			
Drive Hp Ratings *(LD/ND/HD)*	*Qty.*	**Cat. No.** *20-750-*	*Qty.*	**Cat. No.** *20-750-*	**Input Amps Ratings** *(LD/ND/HD)*	**Output Amps Ratings** *at* **696V DC** *(LD/ND/HD)*	*Qty.*	**Cat. No.** *20-750-*	**Input Amps Ratings** *at* **650V DC** *(LD/ND/HD)*	**Output Amps Ratings** *(LD/ND/HD)*
800/700/600	1	ML1-C1K1D1K0	2	MI2-C460D430	860/717/663	987/823/761	2	MI*n*-C460D430	1060/883/817	960/800/740
900/800/700	1	ML1-C1K1D1K0	2	MI2-C540D505	936/860/717	1075/987/823	2	MI*n*-C540D505	1154/1060/883	1045/960/800
1000/900/750	1	ML1-C1K4D1K3	2	MI2-C585D545	1004/936/860	1153/1075/987	2	MI*n*-C585D545	1238/1154/1060	1135/1045/960
1100/1000/800	1	ML1-C1K4D1K3	2	MI2-C650D617	1223/1017/936	1404/1167/1075	2	MI*n*-C650D617	1507/1253/1154	1365/1135/1045
1250/1100/900	1	ML1-C1K4D1K3	2	MI2-C770D740	1362/1223/1017	1563/1404/1167	2	MI*n*-C770D740	1678/1507/1253	1520/1365/1135

(1) Motor side inverters have filter options: MI1 = no filter, MI2 = with paralleling inductor, MI3 = with reflective wave filter.

600V Frame 9 Module Requirements

Module ->	**LCL Filter (Drive and Bus Supply)**		**Line Side Converter (Bus Supply)**				**Motor Side Inverter (CBI)**[1]			
Position ->	**F0**		**L0 and L1**				**M0 and M1**			
Drive Hp Ratings *(LD/ND/HD)*	*Qty.*	**Cat. No.** *20-750-*	*Qty.*	**Cat. No.** *20-750-*	**Input Amps Ratings** *(LD/ND/HD)*	**Output Amps Ratings** *at* **870V DC** *(LD/ND/HD)*	*Qty.*	**Cat. No.** *20-750-*	**Input Amps Ratings** *at* **810V DC** *(LD/ND/HD)*	**Output Amps Ratings** *(LD/ND/HD)*
700/600/550	1	ML1-E760F735	2	MI2-E295F265	618/520/488	710/596/560	2	MI*n*-E295F265	762/640/602	690/580/545
800/700/600	1	ML1-E760F735	2	MI2-E355F330	681/618/520	782/710/612	2	MI*n*-355F330	839/762/640	760/690/595
900/800/700	1	ML1-E760F735	2	MI2-E395F370	739/681/618	848/782/710	2	MI*n*-E395F370	911/839/762	825/760/690
1000/900/800	1	ML1-E980F920	2	MI2-E435F415	878/739/681	1008/848/782	2	MI*n*-E435F415	1082/911/839	980/825/760
1100/1000/900	1	ML1-E980F920	2	MI2-E545F505	987/878/739	1133/1008/848	2	MI*n*-E545F505	1217/1082/911	1102/980/825

(1) Motor side inverters have filter options: MI1 = no filter, MI2 = with paralleling inductor, MI3 = with reflective wave filter.

690V Frame 9 Module Requirements

Module ->	LCL Filter (Drive and Bus Supply)		Line Side Converter (Bus Supply)				Motor Side Inverter (CBI)(1)			
Position ->	F0		L0 and L1				M0 and M1			
Drive kW Ratings *(LD/ND/HD)*	*Qty.*	**Cat. No.** *20-750-*	*Qty.*	**Cat. No.** *20-750-*	**Input Amps Ratings** *(LD/ND/HD)*	**Output Amps Ratings** *at* **1000V DC** *(LD/ND/HD)*	*Qty.*	**Cat. No.** *20-750-*	**Input Amps Ratings** *at* **932V DC** *(LD/ND/HD)*	**Output Amps Ratings** *(LD/ND/HD)*
630/560/500	1	ML1-E760F735	2	MI2-E295F265	581/505/452	580/580/518	2	MI*n*-E295F265	716/623/556	650/565/505
710/630/560	1	ML1-E760F735	2	MI2-355F330	657/581/505	754/667/580	2	MI*n*-355F330	810/716/623	735/650/565
800/710/630	1	ML1-E760F735	2	MI2-E395F370	733/657/581	842/754/667	2	MI*n*-E395F370	904/810/716	820/735/650
900/800/710	1	ML1-E980F920	2	MI2-E435F415	823/733/657	944/842/754	2	MI*n*-E435F415	1014/904/810	920/820/735
1000/900/800	1	ML1-E980F920	2	MI2-E545F505	960/823/733	1102/944/842	2	MI*n*-E545F505	1183/1014/904	1074/920/820

(1) Motor side inverters have filter options: MI1 = no filter, MI2 = with paralleling inductor, MI3 = with reflective wave filter.

Frame 10 Module Selection

For required airflow rates, see Required Enclosure Airflow Rates on page 228.

400V Frame 10 Module Requirements

Module ->	LCL Filter (Drive and Bus Supply)				Line Side Converter (Bus Supply)				Motor Side Inverter (CBI)(1)			
Position ->	F0		F2		L0…L2				M0…M2			
Drive kW Ratings *(LD/ND/HD)*	*Qty.*	**Cat. No.** *20-750-*	*Qty.*	**Cat. No.** *20-750-*	*Qty.*	**Cat. No.** *20-750-*	**Input Amps Ratings** *(LD/ND/HD)*	**Output Amps Ratings** *at* **580V DC** *(LD/ND/HD)*	*Qty.*	**Cat. No.** *20-750-*	**Input Amps Ratings** *at* **650V DC** *(LD/ND/HD)*	**Output Amps Ratings** *(LD/ND/HD)*
1000/850/710	1	ML1-C1K4D1K3	1	ML1-C770D740	3	MI2-C650D617	1603/1478/1370	1840/1697/1572	3	MI*n*-C650D617	1976/1821/1688	1715/1590/1465
1250/1000/800	1	ML1-C1K4D1K3	1	ML1-C770D740	3	MI2-C750D710	2010/1603/1384	2307/1840/1588	3	MI*n*-C750D710	2477/1976/1705	2150/1715/1480
1400/1250/1000	1	ML1-C1K4D1K3	1	ML1-C770D740	3	MI2-C770D740	2178/2016/1603	2500/2314/1840	3	MI*n*-C770D740	2684/2484/1976	2330/2156/1715

(1) Motor side inverters have filter options: MI1 = no filter, MI2 = with paralleling inductor, MI3 = with reflective wave filter.

480V Frame 10 Module Requirements

Module ->	LCL Filter (Drive and Bus Supply)				Line Side Converter (Bus Supply)				Motor Side Inverter (CBI)(1)			
Position ->	F0		F2		L0…L2				M0…M2			
Drive Hp Ratings *(LD/ND/HD)*	*Qty.*	**Cat. No.** *20-750-*	*Qty.*	**Cat. No.** *20-750-*	*Qty.*	**Cat. No.** *20-750-*	**Input Amps Ratings** *(LD/ND/HD)*	**Output Amps Ratings** *at* **696V DC** *(LD/ND/HD)*	*Qty.*	**Cat. No.** *20-750-*	**Input Amps Ratings** *at* **650V DC** *(LD/ND/HD)*	**Output Amps Ratings** *(LD/ND/HD)*
1500/1250/1000	1	ML1-C1K4D1K3	1	ML1-C770D740	3	MI2-C650D617	1483/1272/1223	1702/1460/1404	3	MI*n*-C650D617	1827/1568/1507	1655/1420/1365
1800/1500/1100	1	ML1-C1K4D1K3	1	ML1-C770D740	3	MI2-C750D710	1855/1483/1272	2129/1702/1460	3	MI*n*-C750D710	2285/1827/1568	2070/1655/1420
2000/1800/1500	1	ML1-C1K4D1K3	1	ML1-C770D740	3	MI2-C770D740	2007/1857/1483	2304/2131/1702	3	MI*n*-C770D740	2473/2288/1827	2240/2072/1655

(1) Motor side inverters have filter options: MI1 = no filter, MI2 = with paralleling inductor, MI3 = with reflective wave filter.

600V Frame 10 Module Requirements

Module ->	LCL Filter (Drive and Bus Supply)				Line Side Converter (Bus Supply)				Motor Side Inverter (CBI)(1)			
Position ->	F0		F2		L0…L2				M0…M2			
Drive Hp Ratings *(LD/ND/HD)*	*Qty.*	**Cat. No.** *20-750-*	*Qty.*	**Cat. No.** *20-750-*	*Qty.*	**Cat. No.** *20-750-*	**Input Amps Ratings** *(LD/ND/HD)*	**Output Amps Ratings** *at* **870V DC** *(LD/ND/HD)*	*Qty.*	**Cat. No.** *20-750-*	**Input Amps Ratings** *at* **810V DC** *(LD/ND/HD)*	**Output Amps Ratings** *(LD/ND/HD)*
1250/1100/1000	1	ML1-E980F920	1	ML1-E545F505	3	MI2-E409F390	1093/936/878	1255/1075/1008	3	MI*n*-E409F390	1347/1154/1082	1220/1045/980
1500/1250/1100	1	ML1-E980F920	1	ML1-E545F505	3	MI2-E435F415	1281/1093/936	1471/1255/1075	3	MI*n*-E435F415	1579/1347/1154	1430/1220/1045
1600/1500/1250	1	ML1-E980F920	1	ML1-E545F505	3	MI2-E545F505	1455/1281/1093	1670/1471/1255	3	MI*n*-E545F505	1793/1579/1347	1624/1430/1220

(1) Motor side inverters have filter options: MI1 = no filter, MI2 = with paralleling inductor, MI3 = with reflective wave filter.

690V Frame 10 Module Requirements

Module ->	LCL Filter (Drive and Bus Supply)				Line Side Converter (Bus Supply)				Motor Side Inverter (CBI)[1]			
Position ->	F0		F2		L0…L2				M0…M2			
Drive kW Ratings *(LD/ND/HD)*	*Qty.*	**Cat. No.** *20-750-*	*Qty.*	**Cat. No.** *20-750-*	*Qty.*	**Cat. No.** *20-750-*	**Input Amps Ratings** *(LD/ND/HD)*	**Output Amps Ratings** *at* **1000V DC** *(LD/ND/HD)*	*Qty.*	**Cat. No.** *20-750-*	**Input Amps Ratings** *at* **932V DC** *(LD/ND/HD)*	**Output Amps Ratings** *(LD/ND/HD)*
1100/1000/900	1	ML1-E980F920	1	ML1-E545F505	3	MI2-E409F390	1028/921/823	1180/1057/944	3	MI*n*-E409F390	1267/1135/1014	1150/1030/920
1250/1100/1000	1	ML1-E980F920	1	ML1-E545F505	3	MI2-E435F415	1202/1028/921	1380/1180/1057	3	MI*n*-E435F415	1481/1267/1135	1344/1150/1030
1500/1400/1100	1	ML1-E980F920	1	ML1-E545F505	3	MI2-E545F505	1365/1269/1039	1624/1456/1193	3	MI*n*-E545F505	1743/1564/1280	1582/1419/1162

(1) Motor side inverters have filter options: MI1 = no filter, MI2 = with paralleling inductor, MI3 = with reflective wave filter.

Frame 11 Module Selection

For required airflow rates, see Required Enclosure Airflow Rates on page 228.

400V Frame 11 Module Requirements

Module ->	LCL Filter (Drive and Bus Supply)		Line Side Converter (Bus Supply)				Motor Side Inverter (CBI)[1]			
Position ->	F0 and F2		L0…L3				M0…M3			
Drive kW Ratings *(LD/ND/HD)*	*Qty.*	**Cat. No.** *20-750-*	*Qty.*	**Cat. No.** *20-750-*	**Input Amps Ratings** *(LD/ND/HD)*	**Output Amps Ratings** *at* **580V DC** *(LD/ND/HD)*	*Qty.*	**Cat. No.** *20-750-*	**Input Amps Ratings** *at* **540V DC** *(LD/ND/HD)*	**Output Amps Ratings** *(LD/ND/HD)*
1800/1650/1400	2	ML1-C1K4D1K3	4	MI2-C770D740	2878/2664/2179	3303/3057/2500	4	MI*n*-C770D740	3546/3282/2684	3078/2849/2330

(1) Motor side inverters have filter options: MI1 = no filter, MI2 = with paralleling inductor, MI3 = with reflective wave filter.

480V Frame 11 Module Requirements

Module ->	LCL Filter (Drive and Bus Supply)		Line Side Converter (Bus Supply)				Motor Side Inverter (CBI)[1]			
Position ->	F0 and F2		L0…L3				M0…M3			
Drive Hp Ratings *(LD/ND/HD)*	*Qty.*	**Cat. No.** *20-750-*	*Qty.*	**Cat. No.** *20-750-*	**Input Amps Ratings** *(LD/ND/HD)*	**Output Amps Ratings** *at* **696V DC** *(LD/ND/HD)*	*Qty.*	**Cat. No.** *20-750-*	**Input Amps Ratings** *at* **650V DC** *(LD/ND/HD)*	**Output Amps Ratings** *(LD/ND/HD)*
2600/2400/2000	2	ML1-C1K4D1K3	4	MI2-C770D740	2652/2453/2007	3044/2816/2304	4	MI*n*-C770D740	3268/3023/2473	2960/2738/2240

(1) Motor side inverters have filter options: MI1 = no filter, MI2 = with paralleling inductor, MI3 = with reflective wave filter.

600V Frame 11 Module Requirements

Module ->	LCL Filter (Drive and Bus Supply)		Line Side Converter (Bus Supply)				Motor Side Inverter (CBI)[1]			
Position ->	F0 and F2		L0…L3				M0…M3			
Drive Hp Ratings *(LD/ND/HD)*	*Qty.*	**Cat. No.** *20-750-*	*Qty.*	**Cat. No.** *20-750-*	**Input Amps Ratings** *(LD/ND/HD)*	**Output Amps Ratings** *at* **870V DC** *(LD/ND/HD)*	*Qty.*	**Cat. No.** *20-750-*	**Input Amps Ratings** *at* **810V DC** *(LD/ND/HD)*	**Output Amps Ratings** *(LD/ND/HD)*
2100/2000/1800	2	ML1-E980F920	4	MI2-E545F505	1923/1744/1523	2207/2001/1748	4	MI*n*-E545F505	2369/2148/1877	2146/1946/1700

(1) Motor side inverters have filter options: MI1 = no filter, MI2 = with paralleling inductor, MI3 = with reflective wave filter.

690V Frame 11 Module Requirements

Module ->	LCL Filter (Drive and Bus Supply)		Line Side Converter (Bus Supply)				Motor Side Inverter (CBI)[1]			
Position ->	F0 and F2		L0…L3				M0…M3			
Drive kW Ratings *(LD/ND/HD)*	*Qty.*	**Cat. No.** *20-750-*	*Qty.*	**Cat. No.** *20-750-*	**Input Amps Ratings** *(LD/ND/HD)*	**Output Amps Ratings** *at* **1000V DC** *(LD/ND/HD)*	*Qty.*	**Cat. No.** *20-750-*	**Input Amps Ratings** *at* **932V DC** *(LD/ND/HD)*	**Output Amps Ratings** *(LD/ND/HD)*
2000/1800/1500	2	ML1-E980F920	4	MI2-E545F505	1803/1668/1373	2146/1914/1576	4	MI*n*-E545F505	2304/2055/1692	2091/1865/1535

(1) Motor side inverters have filter options: MI1 = no filter, MI2 = with paralleling inductor, MI3 = with reflective wave filter.

Frame 12 Module Selection

For required airflow rates, see Required Enclosure Airflow Rates on page 228.

400V Frame 12 Module Requirements

Module ->	**LCL Filter (Drive and Bus Supply)**				**Line Side Converter (Bus Supply)**				**Motor Side Inverter (CBI)**[1]			
Position ->	**F0 and F2**		**F4**		**L0…L4**				**M0…M4**			
Drive kW Ratings *(LD/ND/HD)*	*Qty.*	**Cat. No.** *20-750-*	*Qty.*	**Cat. No.** *20-750-*	*Qty.*	**Cat. No.** *20-750-*	**Input Amps Ratings** *(LD/ND/HD)*	**Output Amps Ratings** *at* **580V DC** *(LD/ND/HD)*	*Qty.*	**Cat. No.** *20-750-*	**Input Amps Ratings** *at* **650V DC** *(LD/ND/HD)*	**Output Amps Ratings** *(LD/ND/HD)*
2200/2000/1650	2	ML1-C1K4D1K3	1	ML1-C770D740	5	MI2-C770D740	3578/3312/2835	4127/3801/3254	5	MI*n*-C770D740	4409/4081/3493	3846/3542/3032

(1) Motor side inverters have filter options: MI1 = no filter, MI2 = with paralleling inductor, MI3 = with reflective wave filter.

480V Frame 12 Module Requirements

Module ->	**LCL Filter (Drive and Bus Supply)**				**Line Side Converter (Bus Supply)**				**Motor Side Inverter (CBI)**[1]			
Position ->	**F0 and F2**		**F4**		**L0…L4**				**M0…M4**			
Drive Hp Ratings *(LD/ND/HD)*	*Qty.*	**Cat. No.** *20-750-*	*Qty.*	**Cat. No.** *20-750-*	*Qty.*	**Cat. No.** *20-750-*	**Input Amps** *(LD/ND/HD)*	**Output Amps Ratings** *at* **696V DC** *(LD/ND/HD)*	*Qty.*	**Cat. No.** *20-750-*	**Input Amps Ratings** *at* **650V DC** *(LD/ND/HD)*	**Output Amps Ratings** *(LD/ND/HD)*
3300/3000/2400	2	ML1-C1K4D1K3	1	ML1-C770D740	5	MI2-C770D740	3297/3050/2670	3784/3501/3065	5	MI*n*-C770D740	4063/3758/3290	3696/3404/2980

(1) Motor side inverters have filter options: MI1 = no filter, MI2 = with paralleling inductor, MI3 = with reflective wave filter.

600V Frame 12 Module Requirements

Module ->	**LCL Filter (Drive and Bus Supply)**				**Line Side Converter (Bus Supply)**				**Motor Side Inverter (CBI)**[1]			
Position ->	**F0 and F2**		**F4**		**L0…L4**				**M0…M4**			
Drive Hp Ratings *(LD/ND/HD)*	*Qty.*	**Cat. No.** *20-750-*	*Qty.*	**Cat. No.** *20-750-*	*Qty.*	**Cat. No.** *20-750-*	**Input Amps Ratings** *(LD/ND/HD)*	**Output Amps Ratings** *at* **870V DC** *(LD/ND/HD)*	*Qty.*	**Cat. No.** *20-750-*	**Input Amps Ratings** *at* **810V DC** *(LD/ND/HD)*	**Output Amps Ratings** *(LD/ND/HD)*
2600/2500/2100	2	ML1-E980F920	1	ML1-E545F505	5	MI2-E545F505	2391/2168/1855	2744/2489/2129	5	MI*n*-E545F505	2946/2672/2285	2668/2420/2070

(1) Motor side inverters have filter options: MI1 = no filter, MI2 = with paralleling inductor, MI3 = with reflective wave filter.

690V Frame 12 Module Requirements

Module ->	**LCL Filter (Drive and Bus Supply)**				**Line Side Converter (Bus Supply)**				**Motor Side Inverter (CBI)**[1]			
Position ->	**F0 and F2**		**F4**		**L0…L4**				**M0…M4**			
Drive kW Ratings *(LD/ND/HD)*	*Qty.*	**Cat. No.** *20-750-*	*Qty.*	**Cat. No.** *20-750-*	*Qty.*	**Cat. No.** *20-750-*	**Input Amps Ratings** *(LD/ND/HD)*	**Output Amps Ratings** *at* **1000V DC** *(LD/ND/HD)*	*Qty.*	**Cat. No.** *20-750-*	**Input Amps Ratings** *at* **932V DC** *(LD/ND/HD)*	**Output Amps Ratings** *(LD/ND/HD)*
2500/2300/2000	2	ML1-E980F920	1	ML1-E545F505	5	MI2-E545F505	2242/2073/1807	2668/2379/2073	5	MI*n*-E545F505	2864/2554/2226	2599/2318/2020

(1) Motor side inverters have filter options: MI1 = no filter, MI2 = with paralleling inductor, MI3 = with reflective wave filter.

Frame 13 Module Selection

For required airflow rates, see Required Enclosure Airflow Rates on page 228.

400V Frame 13 Module Requirements

Module ->	**LCL Filter (Drive and Bus Supply)**				**Line Side Converter (Bus Supply)**				**Motor Side Inverter (CBI)**(1)			
Position ->	**F0 and F3**		**F2 and F5**		**L0…L5**				**M0…M5**			
Drive kW Ratings *(LD/ND/HD)*	*Qty.*	**Cat. No.** *20-750-*	*Qty.*	**Cat. No.** *20-750-*	*Qty.*	**Cat. No.** *20-750-*	**Input Amps Ratings** *(LD/ND/HD)*	**Output Amps Ratings** *at* **580V DC** *(LD/ND/HD)*	*Qty.*	**Cat. No.** *20-750-*	**Input Amps Ratings** *at* **650V DC** *(LD/ND/HD)*	**Output Amps Ratings** *(LD/ND/HD)*
2475/2200/1953	2	ML1-C1K4D1K3	2	ML1-C770D740	6	MI2-C770D740	4279/3960/3300	4912/4543/3839	6	MI*n*-C770D740	5275/4879/4070	4576/4235/3575

(1) Motor side inverters have filter options: MI1 = no filter, MI2 = with paralleling inductor, MI3 = with reflective wave filter.

480V Frame 13 Module Requirements

Module ->	**LCL Filter (Drive and Bus Supply)**				**Line Side Converter (Bus Supply)**				**Motor Side Inverter (CBI)**(1)			
Position ->	**F0 and F3**		**F2 and F5**		**L0…L5**				**M0…M5**			
Drive Hp Ratings *(LD/ND/HD)*	*Qty.*	**Cat. No.** *20-750-*	*Qty.*	**Cat. No.** *20-750-*	*Qty.*	**Cat. No.** *20-750-*	**Input Amps Ratings** *(LD/ND/HD)*	**Output Amps Ratings** *at* **696V DC** *(LD/ND/HD)*	*Qty.*	**Cat. No.** *20-750-*	**Input Amps Ratings** *at* **650V DC** *(LD/ND/HD)*	**Output Amps Ratings** *(LD/ND/HD)*
3900/3600/2800	2	ML1-C1K4D1K3	2	ML1-C770D740	6	MI2-C770D740	3944/3647/3042	4527/4186/3493	6	MI*n*-C770D740	4857/4494/3746	4440/4070/3394

(1) Motor side inverters have filter options: MI1 = no filter, MI2 = with paralleling inductor, MI3 = with reflective wave filter.

600V Frame 13 Module Requirements

Module ->	**LCL Filter (Drive and Bus Supply)**				**Line Side Converter (Bus Supply)**				**Motor Side Inverter (CBI)**(1)			
Position ->	**F0 and F3**		**F2 and F5**		**L0…L5**				**M0…M5**			
Drive Hp Ratings *(LD/ND/HD)*	*Qty.*	**Cat. No.** *20-750-*	*Qty.*	**Cat. No.** *20-750-*	*Qty.*	**Cat. No.** *20-750-*	**Input Amps Ratings** *(LD/ND/HD)*	**Output Amps Ratings** *at* **870V DC** *(LD/ND/HD)*	*Qty.*	**Cat. No.** *20-750-*	**Input Amps Ratings** *at* **810V DC** *(LD/ND/HD)*	**Output Amps Ratings** *(LD/ND/HD)*
3300/3100/2500	2	ML1-E980F920	2	ML1-E545F505	6	MI2-E545F505	2860/2684/2217	3278/3080/2547	6	MI*n*-E545F505	3520/3311/2734	3190/2998/2475

(1) Motor side inverters have filter options: MI1 = no filter, MI2 = with paralleling inductor, MI3 = with reflective wave filter.

690V Frame 13 Module Requirements

Module ->	**LCL Filter (Drive and Bus Supply)**				**Line Side Converter (Bus Supply)**				**Motor Side Inverter (CBI)**(1)			
Position ->	**F0 and F3**		**F2 and F5**		**L0…L5**				**M0…M5**			
Drive kW Ratings *(LD/ND/HD)*	*Qty.*	**Cat. No.** *20-750-*	*Qty.*	**Cat. No.** *20-750-*	*Qty.*	**Cat. No.** *20-750-*	**Input Amps Ratings** *(LD/ND/HD)*	**Output Amps Ratings** *at* **1000V DC** *(LD/ND/HD)*	*Qty.*	**Cat. No.** *20-750-*	**Input Amps Ratings** *at* **932V DC** *(LD/ND/HD)*	**Output Amps Ratings** *(LD/ND/HD)*
3080/2750/2200	2	ML1-E980F920	2	ML1-E545F505	6	MI2-E545F505	2778/2486/2041	3190/2849/2343	6	MI*n*-E545F505	3427/3058/2514	3108/2778/2283

(1) Motor side inverters have filter options: MI1 = no filter, MI2 = with paralleling inductor, MI3 = with reflective wave filter.

Frame 14 Module Selection

For required airflow rates, see Required Enclosure Airflow Rates on page 228.

400V Frame 14 Module Requirements

Module ->	LCL Filter (Drive and Bus Supply)		Line Side Converter (Bus Supply)				Motor Side Inverter (CBI)(1)			
Position ->	F0…F6		L0…L7				M0…M7			
Drive kW Ratings *(LD/ND/HD)*	*Qty.*	**Cat. No.** *20-750-*	*Qty.*	**Cat. No.** *20-750-*	**Input Amps Ratings** *(LD/ND/HD)*	**Output Amps Ratings** *at* **580V DC** *(LD/ND/HD)*	*Qty.*	**Cat. No.** *20-750-*	**Input Amps Ratings** *at* **540V DC** *(LD/ND/HD)*	**Output Amps Ratings** *(LD/ND/HD)*
3285/2920/2592	4	ML1-C1K4D1K3	8	MI2-C770D740	5679/5256/4380	6519/6030/5095	8	MI*n*-C770D740	7001/6475/5402	6074/5621/4745

(1) Motor side inverters have filter options: MI1 = no filter, MI2 = with paralleling inductor, MI3 = with reflective wave filter.

480V Frame 14 Module Requirements

Module ->	LCL Filter (Drive and Bus Supply)		Line Side Converter (Bus Supply)				Motor Side Inverter (CBI)(1)			
Position ->	F0…F6		L0…L7				M0…M7			
Drive Hp Ratings *(LD/ND/HD)*	*Qty.*	**Cat. No.** *20-750-*	*Qty.*	**Cat. No.** *20-750-*	**Input Amps Ratings** *(LD/ND/HD)*	**Output Amps Ratings** *at* **696V DC** *(LD/ND/HD)*	*Qty.*	**Cat. No.** *20-750-*	**Input Amps Ratings** *at* **650V DC** *(LD/ND/HD)*	**Output Amps Ratings** *(LD/ND/HD)*
5200/4800/3700	4	ML1-C1K4D1K3	8	MI2-C770D740	5234/4840/4037	6008/5555/4636	8	MI*n*-C770D740	6446/5964/4971	5840/5402/4504

(1) Motor side inverters have filter options: MI1 = no filter, MI2 = with paralleling inductor, MI3 = with reflective wave filter.

600V Frame 14 Module Requirements

Module ->	LCL Filter (Drive and Bus Supply)		Line Side Converter (Bus Supply)				Motor Side Inverter (CBI)(1)			
Position ->	F0…F6		L0…L7				M0…M7			
Drive Hp Ratings *(LD/ND/HD)*	*Qty.*	**Cat. No.** *20-750-*	*Qty.*	**Cat. No.** *20-750-*	**Input Amps Ratings** *(LD/ND/HD)*	**Output Amps Ratings** *at* **870V DC** *(LD/ND/HD)*	*Qty.*	**Cat. No.** *20-750-*	**Input Amps Ratings** *at* **810V DC** *(LD/ND/HD)*	**Output Amps Ratings** *(LD/ND/HD)*
4400/4100/3300	4	ML1-E980F920	8	MI2-E545F505	3796/3562/2942	4351/4088/3380	8	MI*n*-E545F505	4672/4395/3628	4234/3979/3285

(1) Motor side inverters have filter options: MI1 = no filter, MI2 = with paralleling inductor, MI3 = with reflective wave filter.

690V Frame 14 Module Requirements

Module ->	LCL Filter (Drive and Bus Supply)		Line Side Converter (Bus Supply)				Motor Side Inverter (CBI)(1)			
Position ->	F0…F6		L0…L7				M0…M7			
Drive kW Ratings *(LD/ND/HD)*	*Qty.*	**Cat. No.** *20-750-*	*Qty.*	**Cat. No.** *20-750-*	**Input Amps Ratings** *(LD/ND/HD)*	**Output Amps Ratings** *at* **1000V DC** *(LD/ND/HD)*	*Qty.*	**Cat. No.** *20-750-*	**Input Amps Ratings** *at* **932V DC** *(LD/ND/HD)*	**Output Amps Ratings** *(LD/ND/HD)*
4088/3650/2920	4	ML1-E980F920	8	MI2-E545F505	3687/3300/2708	4234/3781/3110	8	MI*n*-E545F505	4548/4059/3336	4125/3687/3030

(1) Motor side inverters have filter options: MI1 = no filter, MI2 = with paralleling inductor, MI3 = with reflective wave filter.

Frame 15 Module Selection

For required airflow rates, see Required Enclosure Airflow Rates on page 228.

400V Frame 15 Module Requirements

Module ->	**LCL Filter (Drive and Bus Supply)**				**Line Side Converter (Bus Supply)**				**Motor Side Inverter (CBI)**[1]			
Position ->	**F0, F2, F5 F7**		**F4, F9**		**L0…L9**				**M0…M9**			
Drive kW Ratings *(LD/ND/HD)*	*Qty.*	**Cat. No.** *20-750-*	*Qty.*	**Cat. No.** *20-750-*	*Qty.*	**Cat. No.** *20-750-*	**Input Amps Ratings** *(LD/ND/HD)*	**Output Amps Ratings** *at* **580V DC** *(LD/ND/HD)*	*Qty.*	**Cat. No.** *20-750-*	**Input Amps Ratings** *at* **650V DC** *(LD/ND/HD)*	**Output Amps Ratings** *(LD/ND/HD)*
4095/3640/3231	4	ML1-C1K4D1K3	2	ML1-C770D740	10	MI2-C770D740	7080/6552/5460	8126/7517/6352	10	MI*n*-C770D740	8727/8072/6734	7571/7007/5915

(1) Motor side inverters have filter options: MI1 = no filter, MI2 = with paralleling inductor, MI3 = with reflective wave filter.

480V Frame 15 Module Requirements

Module ->	**LCL Filter (Drive and Bus Supply)**				**Line Side Converter (Bus Supply)**				**Motor Side Inverter (CBI)**[1]			
Position ->	**F0, F2, F5 F7**		**F4, F9**		**L0…L9**				**M0…M9**			
Drive Hp Ratings *(LD/ND/HD)*	*Qty.*	**Cat. No.** *20-750-*	*Qty.*	**Cat. No.** *20-750-*	*Qty.*	**Cat. No.** *20-750-*	**Input Amps** *(LD/ND/HD)*	**Output Amps Ratings** *at* **696V DC** *(LD/ND/HD)*	*Qty.*	**Cat. No.** *20-750-*	**Input Amps Ratings** *at* **650V DC** *(LD/ND/HD)*	**Output Amps Ratings** *(LD/ND/HD)*
6400/6000/4600	4	ML1-C1K4D1K3	2	ML1-C770D740	10	MI2-C770D740	6525/6033/5032	7489/6925/5779	10	MI*n*-C770D740	8035/7435/6197	7280/6734/5615

(1) Motor side inverters have filter options: MI1 = no filter, MI2 = with paralleling inductor, MI3 = with reflective wave filter.

600V Frame 15 Module Requirements

Module ->	**LCL Filter (Drive and Bus Supply)**				**Line Side Converter (Bus Supply)**				**Motor Side Inverter (CBI)**[1]			
Position ->	**F0, F2, F5 F7**		**F4, F9**		**L0…L9**				**M0…M9**			
Drive Hp Ratings *(LD/ND/HD)*	*Qty.*	**Cat. No.** *20-750-*	*Qty.*	**Cat. No.** *20-750-*	*Qty.*	**Cat. No.** *20-750-*	**Input Amps Ratings** *(LD/ND/HD)*	**Output Amps Ratings** *at* **870V DC** *(LD/ND/HD)*	*Qty.*	**Cat. No.** *20-750-*	**Input Amps Ratings** *at* **810V DC** *(LD/ND/HD)*	**Output Amps Ratings** *(LD/ND/HD)*
5500/5100/4100	4	ML1-E980F920	2	ML1-E545F505	10	MI2-E545F505	4732/4441/3667	5424/5096/4213	10	MI*n*-E545F505	5824/5478/4523	5278/4960/4095

(1) Motor side inverters have filter options: MI1 = no filter, MI2 = with paralleling inductor, MI3 = with reflective wave filter.

690V Frame 15 Module Requirements

Module ->	**LCL Filter (Drive and Bus Supply)**				**Line Side Converter (Bus Supply)**				**Motor Side Inverter (CBI)**[1]			
Position ->	**F0, F2, F5 F7**		**F4, F9**		**L0…L9**				**M0…M9**			
Drive kW Ratings *(LD/ND/HD)*	*Qty.*	**Cat. No.** *20-750-*	*Qty.*	**Cat. No.** *20-750-*	*Qty.*	**Cat. No.** *20-750-*	**Input Amps Ratings** *(LD/ND/HD)*	**Output Amps Ratings** *at* **1000V DC** *(LD/ND/HD)*	*Qty.*	**Cat. No.** *20-750-*	**Input Amps Ratings** *at* **932V DC** *(LD/ND/HD)*	**Output Amps Ratings** *(LD/ND/HD)*
5096/4550/3640	4	ML1-E980F920	2	ML1-E545F505	10	MI2-E545F505	4596/4113/3376	5278/4714/3877	10	MI*n*-E545F505	5669/5060/4159	5142/4596/3777

(1) Motor side inverters have filter options: MI1 = no filter, MI2 = with paralleling inductor, MI3 = with reflective wave filter.

IP00 Kit Selection

This section provides IP00 kit selection information.

Power Modules Options

Cat. No.			Voltage	Amps *normal duty*	Fuse Rating *Amps/leg (1/leg)*	Max Weight *kg (lb)*	System Control Power Consumption *Amps*
No Filtering	**With Paralleling Inductor**	**With Reflected Wave Filter**					
20-750-MI1-C302D302 20-750-MI4-C302D302 (1)	—	20-750-MI3-C302D302	400	302	1400 (170M6467)	141 (312) With packaging: 192 (424)	240V AC Supply: 2.9 24V DC Supply: 1.4
			480	302			
20-750-MI1-C367D361 20-750-MI4-C367D361 (1)	—	20-750-MI3-C367D361	400	367			
			480	361			
20-750-MI1-C460D430 20-750-MI4-C460D430 (1)	—	20-750-MI3-C460D430	400	460			
			480	430			
20-750-MI1-C540D505 20-750-MI4-C540D505 (1)	20-750-MI2-C540D505	20-750-MI3-C540D505	400	540			
			480	505			
20-750-MI1-C585D545	20-750-MI2-C585D545	20-750-MI3-C585D545	400	585			
			480	545			
20-750-MI4-C585D617 (1)	—	—	400	600			
			480	600			
20-750-MI1-C650D617	20-750-MI2-C650D617	20-750-MI3-C650D617	400	650			
			480	617			
20-750-MI1-C750D710	20-750-MI2-C750D710	20-750-MI3-C750D710	400	750			
			480	710			
20-750-MI1-C770D740	20-750-MI2-C770D740	20-750-MI3-C770D740	400	770			
			480	740			
20-750-MI4-E192F171 (1)	—	—	600	192	1100 (170M6499)		
			690	171			
20-750-MI1-E242F215 20-750-MI4-E242F215 (1)	—	20-750-MI3-E242F215	600	242			
			690	215			
20-750-MI1-E295F265 20-750-MI4-E295F265 (1)	–	20-750-MI3-E295F265	600	295			
			690	265			
20-750-MI1-E355F330 20-750-MI4-E355F330 (1)	20-750-MI2-E355F330	20-750-MI3-E355F330	600	355			
			690	330			
20-750-MI1-E395F370 20-750-MI4-E395F370 (1)	20-750-MI2-E395F370	20-750-MI3-E395F370	600	395			
			690	370			
20-750-MI1-E435F415	20-750-MI2-E435F415	20-750-MI3-E435F415	600	435			
			690	415			
20-750-MI1-E545F505 20-750-MI1-E545F505C (2)	20-750-MI2-E545F505 20-750-MI2-E545F505C (2)	20-750-MI3-E545F505 20-750-MI3-E545F505C (2)	600	545			
			690	505			

(1) Module weights: No packaging, 113.4 kg (250 lb), with packaging, 164.2 kg (362 lb).
(2) The letter 'C' at the end of a catalog number indicates that the module uses all-copper components.

LCL Filter Modules Options

Cat. No.	Voltage	Amps *(normal duty)*	Fuse Rating *Amps/leg (1/leg)*	Max Weight *kg (lb)*	System Control Power Consumption *Amps*
20-750-ML1-C540D505	400	540	900 (170M6463)	322 (710) With packaging: 373 (822)	240V AC Supply: 2.9 24V DC Supply: 0.9
	480	505			
20-750-ML4-C585D617 (1)	400	600			
	480	600			
20-750-ML1-C770D740	400	770	1250A (170M6499)		
	480	740			
20-750-ML1-C1K1D1K0	400	1100	1800 (170M6470)		
	480	1000			
20-750-ML1-C1K4D1K3	400	1400	2000 (170M6471)		
	480	1300			
20-750-ML1-E395F370 20-750-ML4-E395F370 (1)	600	395	700 (170M6461)	299 (660) With packaging: 350 (772)	
	690	370			
20-750-ML1-E545F505	600	545	900 (170M6463)		
	690	505			
20-750-ML1-E760F735	600	760	1250 (170M6466)		
	690	735			
20-750-ML1-E980F920	600	980	1600 (170M6469)		
	690	920			

(1) Module weights: No packaging, 204 kg (450 lb), with packaging, 254.8 kg (562 lb).

AC Precharge Modules (1)

Cat. No.	Frame Size	Voltage	Amps *(normal duty)*	Max Weight *kg (lb)*	System Control Power Consumption *Amps*
20-750-MACP-CD-F8M	8	400/480	720/663	41 (90) With packaging: 71 (582)	240V AC Supply: 0.6 24V DC Supply: 1.5
20-750-MACP-E-F8M		600	488		
20-750-MACP-F-F8M		690	452		
20-750-MACP-CD-F9M	9	400/480	1368/1223	130 (287) With packaging: 161 (354)	
20-750-MACP-E-F9M		600	878		
20-750-MACP-F-F9M		690	823		

(1) AC precharge modules include a circuit breaker, fused disconnect, contactor, precharge resistors, time delay relay, TVSS module, AC precharge control circuit board, and AC precharge path terminal blocks, fuse blocks and fuses.

AC Precharge Circuit Breaker

Cat. No.	ABB (Supplier) Breaker Cat. No.	Frame Size (1)	Voltage	Weight	Dimensions (H x W x D)
20-750-MACPCCB-1K0	T7MLBP3DB0HBDHHEC	7, 8	400/480/600/690V	11 kg (24.25 lb)	268.0 x 209.8 x 177.8 mm (10.55 x 8.26 x 7.0 in.)
20-750-MACPCCB-E-2K0	T8VBD3GC0HBDHHE9	9,10, 13	400/480/600V	73 kg (160.94 lb)	520.5 x 428.0 x 284.5 mm (20.49 x 16.85 x 11.20 in.)
20-750-MACPCCB-F-2K0	T8VFD3GC0HBDHHE9	9,10, 13	690V	73 kg (160.94 lb)	520.5 x 428.0 x 284.5 mm (20.49 x 16.85 x 11.20 in.)
20-750-MACPCCB-CDE-3K0	T8VBF3JC0HBDHHE9	10,12, 13, 15	400/480/600V	73 kg (160.94 lb)	520.5 x 428.0 x 284.5 mm (20.49 x 16.85 x 11.20 in.)
20-750-MACPCCB1-CD-4K0	Z6VJURBA000BCGGG	11, 14	400/480V	142 kg (313.1 lb)	371.1 x 762 x 270 mm (14.61 x 30.00 x 10.63 in.)
20-750-MACPCCB1-CD-5K0	Z6VKUSBA000BCGGG	12, 15	400/480V	142 kg (313.1 lb)	371.1 x 762 x 270 mm (14.61 x 30.00 x 10.63 in.)
20-750-MACPCCB-E-2K5	T8VBE3HC0HBDHHE9	11, 14	600V	73 kg (160.94 lb)	520.5 x 428.0 x 284.5 mm (20.49 x 16.85 x 11.20 in
20-750-MACPCCB-F-2K5	T8VFE3HC0HBDHHE9	11, 14	690V	73 kg (160.94 lb)	520.5 x 428.0 x 284.5 mm (20.49 x 16.85 x 11.20 in
20-750-MACPCCB-F-3K0	T8VFF3JC0HBDHHE9	12, 15	690V	73 kg (160.94 lb)	520.5 x 428.0 x 284.5 mm (20.49 x 16.85 x 11.20 in

(1) Frames 13, 14, and 15 require two AC precharge circuit breakers (one per input bay).

AC Precharge Time Delay Relay

Cat. No.	Voltage	Supplier Cat. No. (ABB)
20-750-MACPC-TDR	400/480/600/690	1SDA038320R1

AC Precharge Resistor Banks

Cat. No.	Voltage	Resistance *Ohm*
20-750-MACPR-CD-F7M	400/480	0.83
20-750-MACPR-CD-F10M		0.83
20-750-MACPR-CD-F11M		0.2
20-750-MACPR-CD-F12M		0.16

Cat. No.	Voltage	Resistance *Ohm*	Frame
20-750-MACPR-EF-F7M	600/690	1.5	7
20-750-MACPR-EF-F10M		1.5	10, 13
20-750-MACPR-EF-F11M		0.37	11, 14
20-750-MACPR-EF-F12M		0.3	12, 15

AC Precharge Fused Disconnect (FD1) (Supplier: Rockwell Automation)

Cat. No.	Voltage	Device Rating Voltage	Device Current Rating *(Amps)*	Fuse Type	Quantity per Input Bay	Equivalent Frame Size (2)
194R-J30-1753-PBS1	400, 480, 600	600	30	Class J	1	7
					1	8
194R-J60-1753-PBS1	600		60		1	9
194R-J100-1753(1)	400, 480		100		1	9
	600				1	10
					2	13
194R-J200-1753(1)	400, 480		200		1	10
					2	13
	400, 480, 600				1	11, 12
					2	14, 15
194R-D32-1753-PBS1	690	690	32	DIN	1	7
					1	8
194R-D63-1753-PBS1			63		1	9
194R-D125-1753(1)			125		1	10, 11
					2	13, 14
194R-D250-1753(1)			160		1	12
					2	15

(1) Operator handle and shaft not included. IP66 operator handle catalog number 194R-HM4, shaft catalog number: 194R-R7.
(2) Frame size is rating dependent.

AC Precharge Fused Disconnect Fuses (used with FD1) (Supplier: Mersen)

Cat. No.	Voltage	Device Voltage Rating	Fuse Rating *(Amps)*	Device Rating (SCCR-kA)	Quantity per Fused Disconnect	Equivalent Frame Size (1)
AJT-30	400, 480, 600	600	30	200	3	7
					3	8
AJT-60	600		60		3	9
AJT-70	400, 480		70		3	9
AJT-80	600		80		3	10
					6	13
AJT-110	400, 480		110		3	10
					6	13
	600				3	11
					6	14
AJT-150	400, 480		150		3	11
					6	14
	600				3	12
					6	15
AJT-200	400, 480		200		3	12
					6	15
NH000GG690V32	690	690	32	80	3	7
					3	8
NH000GG69V63			63		3	9
NH00GG69V80			80		3	10
					6	13
NH00GG69V125			125		3	11
					6	14
NH1GG69V160			160		3	12
					6	15

(1) Frame size is rating dependent.

AC Precharge Path Terminal Block (TB1) (Supplier: Rockwell Automation)

Cat. No.	Voltage	Device Current Rating *(Amps)*	Quantity per Input Bay	Equivalent Frame Size
1492-J6	400/480/600/690	50	9	7
			12	8
1492-J16	400/480	85	12	9
1492-J10	600	65	12	9
	690	57	12	9
1492-J35	400/480/600	150	8	10…12
			16	13…15
	690	125	8	10…12
			16	13…15

AC Precharge Contactor (M1) (Supplier: Rockwell Automation) (1)

Cat. No.	Voltage	Device Current Rating *(Amps)*	Coil Voltage	Aux. Contactor Quantity per Input Bay	Equivalent Frame Size
100-C30KA-10	400/480/600/690	30	240V AC	1	7
					8
100-C72KA-10	400/480/600/690	72		1	9
100-D115KA00(2)	400/480	115		1	10
				2	13
	600/690	115		1	11
				2	14
100-C85KA10	600/690	85		1	10
				2	13
100-D180EA00(2)	400/480	180	24V DC	1	11, 12
				2	14, 15
100-D140EA00(2)	600/690	140		1	12
				2	15

(1) Not provided with the AC precharge contactor kit. Order separately.
(2) This catalog number is no longer available for purchase through your Rockwell Automation distributor. Please contact the factory for a replacement.

AC Precharge Control Board Fuse Holder (FH1) (Supplier: Bussmann)

Cat. No.	Voltage	Quantity per Input Bay	Equivalent Frame Size
CH30J3	600	1	8…12
		2	13…15
US143	690	1	8…12
		2	13…15

AC Precharge Control Board Fuses (used with FH1) (Supplier: Mersen)

Cat. No.	Voltage	Device Rating Current *(Amps)*	Device Rating (SCCR-kA)	Quantity per Fuse Holder	Equivalent Frame Size
AJT-1	600	1	200	3	8…12
				6	13…15
FR14GG69V1	690	1	80	3	8…12
				6	13…15

Control Transformer T1…T4 (Supplier: SNC)

Vendor Cat. No.	Rockwell Automation Part Number	Voltage	Device Rating (KVA)	Control Transformer Primary (A)	Control Transformer Secondary (A)	Weight Each (approx.)	Quantity per Input Bay	Equivalent Frame Size	IP Rating
P22568	PN-490735	400	2	5.0	8.33	18.1 kg (40 lb)	1	7	IP21
		480	2	4.17					
P22569	PN-490738	600	2	3.33					
		690	2	2.90					
P22570	PN-228639	400	3	7.5	12.5	22.68 kg (50 lb)	1	8	
		480	3	6.25					
P22571	PN-228640	600	3	5					
		690	3	4.35					
P22574	PN-228641	400	5	12.5	20.83	36.29 kg (80 lb)		9	
		480	5	10.42					
P22575	PN-228642	600	5	8.33					
		690	5	7.25					
P22572	PN-228643	400	4	20	33.33	28.12 kg (62 lb)	2	10	
		480	4	16.67					
		400	4	20			4	13	
		480	4	16.67					
P22573	PN-228644	600	4	13.33	33.33	28.12 kg (62 lb)	2	10	
		690	4	11.59					
		600	4	13.33			4	13	
		690	4	11.59					
P22574	PN-228641	400	5	25	41.67	36.29 kg (80 lb)	2	11	
		480	5	20.83					
		400	5	25			4	14	
		480	5	20.83					
P22575	PN-228642	600	5	16.67	41.67	36.29 kg (80 lb)	2	11	
		690	5	14.49					
		600	5	16.67			4	14	
		690	5	14.49					
P22572	PN-228643	400	4	30	50	28.12 kg (62 lb)	3	12	
		480	4	25					
		400	4	30			6	15	
		480	4	25					
P22573	PN-228644	600	4	20	50	28.12 kg (62 lb)	3	12	
		690	4	17.39					
		600	4	20			6	15	
		690	4	17.39					

Control Transformer T1…T4 (Supplier: SNC) (continued)

Vendor Cat. No.	Rockwell Automation Part Number	Voltage	Device Rating (KVA)	Control Transformer Primary (A)	Control Transformer Secondary (A)	Weight Each (approx.)	Quantity per Input Bay	Equivalent Frame Size	IP Rating
P22568	PN-490735	400	2	5.0	8.33	18.1 kg (40 lb)	1	7	IP54
		480	2	4.17					
P22569	PN-490738	600	2	3.33					
		690	2	2.90					
P22572	PN-228643	400	4	10	16.67	28.12 kg (62 lb)	1	8	
		480	4	8.33					
P22573	PN-228644	600	4	6.67					
		690	4	5.8					
P22572	PN-228643	400	4	20	33.33	28.12 kg (62 lb)	2	9	
		480	4	16.67					
P22573	PN-228644	600	4	13.33					
		690	4	11.59					
P22572	PN-228643	400	4	30	50	28.12 kg (62 lb)	3	10	
		480	4	25					
		400	4	30			6	13	
		480	4	25					
P22573	PN-228644	600	4	20	50	28.12 kg (62 lb)	3	10	
		690	4	17.39					
		600	4	20			6	13	
		690	4	17.39					
P22574	PN-228641	400	5	37.5	62.5	36.29 kg (80 lb)	3	11	
		480	5	31.25					
		400	5	37.5			6	14	
		480	5	31.25					
P22575	PN-228642	600	5	25	62.5	36.29 kg (80 lb)	3	11	
		690	5	21.74					
		600	5	25			6	14	
		690	5	21.74					
P22574	PN-228641	400	5	50	83.33	36.29 kg (80 lb)	4	12	
		480	5	41.67					
		400	5	50			8	15	
		480	5	41.67					
P22575	PN-228642	600	5	33.33	83.33	36.29 kg (80 lb)	4	12	
		690	5	28.99					
		600	5	33.33			8	15	
		690	5	28.99					

Control Transformer Primary Fuse Holder (FH4…FH7)

Cat. No. (Vendor)	Voltage Rating	Device Rating Voltage	Quantity per Input Bay	Equivalent Frame Size	IP Rating
CH30J2 (Bussmann)	400/480/600	600	1	7, 8, 9	IP21
			2	10, 11	
			3	12	
			4	13, 14	
			6	15	
US142 (Mersen)	690	690	1	7, 8, 9	
			2	10, 11	
			3	12	
			4	13, 14	
			6	15	
CH30J2 (Bussmann)	400/480/600	600	1	7, 8	IP54
			2	9	
			3	10, 11	
			4	12	
			6	13, 14	
			8	15	
US142 (Mersen)	690	690	1	7, 8	
			2	9	
			3	10, 11	
			4	12	
			6	13, 14	
			8	15	

Control Transformer Primary Fuses (used with FH4…FH7) (Supplier: Mersen)

Cat. No.	Voltage Rating	Device Rating Voltage	Device Rating Current	Device Rating (SCCR-kA)	Quantity per Fuse Holder	Equivalent Frame Size [1]	IP Rating
AJT-17-1/2	400/480/600	600	17.5	200	2	7	IP21
AJT-20	400/480/600	600	20	200	2	8	
	600				6	12	
					12	15	
AJT-30	400/480/600	600	30	200	2	9	
					4	10, 11	
					8	13, 14	
	400, 480				6	12	
					12	15	
FR14GG69V10	690	690	10	120	2	7	
FR14GG69V16	690	690	16	120	2	8	
FR14GG69V20	690	690	20	120	2	9	
					4	10, 11	
					8	13, 14	
					6	12	
					12	15	

Control Transformer Primary Fuses (used with FH4…FH7) (Supplier: Mersen)

Cat. No.	Voltage Rating	Device Rating Voltage	Device Rating Current	Device Rating (SCCR-kA)	Quantity per Fuse Holder	Equivalent Frame Size (1)	IP Rating
AJT-17-1/2	400/480/600	600	17.5	200	2	7	IP54
AJT-20	400/480/600	600	20	200	2	8	
	600	600	20	200	6	11	
					12	14	
					8	12	
					16	15	
AJT-30	400/480/600	600	30	200	4	9	
					6	10	
					12	13	
	400/480	600	30	200	6	11	
					12	14	
	600	600	30	200	8	12	
					16	15	
FR14GG69V10	690	690	10	120	2	7	
FR14GG69V16	690	690	16	120	2	8	
FR14GG69V20		690	20	120	4	9	
					6	10, 11	
					12	13, 14	
					8	12	
					16	15	

(1) Frame size is rating dependent.

240V Distribution Fuse Block (FH2)

Cat. No. (Vendor)	Voltage	240V Distribution Current	Quantity per Input Bay	IP Rating	Equivalent Frame Size
1492-FB1J30 (Rockwell Automation)	400/480/600	8.33	1	IP21	7
CH30J1 (Bussmann)	400/480/600	8.33			8
		12.35			9
1492-FB1M30 (Rockwell Automation)	690	8.33			7
		8.33			8
		12.35			9
CH60J1 (Bussmann)	400/480/600	22			10
		27			11
		35.5			12
US221 (Mersen)	690	22			10
		27			11
		35.5			12
CH60J1 (Bussmann)	400/480/600	22	2		13
		27			14
		35.5			15
US221 (Mersen)	690	22			13
		27			14
		35.5			15

240V Distribution Fuse Block (FH2) (continued)

Cat. No. (Vendor)	Voltage	240V Distribution Current	Quantity per Input Bay	IP Rating	Equivalent Frame Size
1492-FB1M30 (Rockwell Automation)	400/480/600	12	1	IP54	7
CH30J1 (Bussmann)	400/480/600	12			8
1492-FB1M30 (Rockwell Automation)	690	12			7
					8
CH60J1 (Bussmann)	400/480/600	21			9
		33.33			10
		33.33	2		13
US221 (Mersen)	690	21	1		9
		33.33			10
JM60100-1CR (Bussmann)	400/480/600	41.67			11
		54			12
US221 (Mersen)	690	41.67			11
		54			12
US221 (Mersen)	690	21	2		13
		33.33			14
JM60100-1CR (Bussmann)	400/480/600	41.67			15
		54			14
US221 (Mersen)	690	41.67			15

240V Distribution Fuses (used with Fuse Block FH2) (Supplier: Mersen)

Cat. No.	Voltage	Device Rating Current	Quantity per Fuse Block	IP Rating	Equivalent Frame Size
AJT-15	400480/600	15	1	IP21	7
FR10AM50V16	690	16			
AJT-15	400	16	1		8
	480/600	14			
FR10AM50V16	690	16			
AJT-25	400/480/600	25	1		9
FR10AM40V25	690	25			
AJT-35	400	40	1		10
	480/600	35			
FR22AM69V40	690	40			
AJT-45	400/480/600	45	1		11
FR22AM69V50	690	50			
AJT-60	400/480/600	60	1		12
FR22AM69V63	690	63			
AJT-35	400	40	2		13
	480/600	35			
FR22AM69V40	690	40			
AJT-45	400/480/600	45	2		14
FR22AM69V50	690	50			
AJT-60	400/480/600	60	2		15
FR22AM69V63	690	63			
AJT-15	400480/600	15	1	IP54	7
FR10AM50V16	690	16			
AJT-20	400/480/600	20	1		8
FR10AM50V20	690	20			
AJT-35	400/480/600	35	1		9
FR22AM69V40	690	40			
AJT-60	400/480/600	60	1		10
FR22AM69V63	690	63			
AJT-70	400/480/600	70	1		11
FR22AM69V80	690	80			
AJT-70	400/480/600	70	1		12
FR22AM69V80	690	80			
AJT-60	400/480/600	60	2		13
FR22AM69V63	690	63			
AJT-70	400/480/600	70	2		14
FR22AM69V80	690	80			
AJT-70	400/480/600	70	2		15
FR22AM69V80	690	80			

240V Distribution Terminal Block (TB2) (Supplier: Rockwell Automation)

Cat. No.	Voltage	Device Rating Current	Quantity per Input Bay	Equivalent Frame Size
1492-J6	400/480/ 600/ 690	50	4	8, 9
			6	10
			12	13
	400/480/ 600/ 690	50	4	8
			6	9
	400/480/ 600	50	6	11
			12	14
	690	41	6	11
			12	14
1492-J10	400/480/ 600	65	6	12
			12	15
	690	57	6	12
			12	15
	400/480/ 600	65	6	10
			12	15
	690	57	6	10
			12	15
1492-J16	400/480/ 600	85	6	11
			12	14
	690	76	6	11
			12	14
1492-J35	400/480/ 600	150	8	12
			16	15
	690	125	8	12
			16	15

240V Distribution Terminal Block Jumper (used with TB2) (Supplier: Rockwell Automation)

Cat. No.	Voltage	Jumper Positions	Quantity per Input Bay	Equivalent Frame Size
1492-CJJ8-2	400/480/600/ 690	2	2	8, 9
1492-CJJ8-3	400/480/600/ 690	3	2	10, 11
			4	13, 14
1492-CJJ10-3	400/480/600/ 690	3	2	12
			4	15
1492-CJJ6-2	400/480/600	2	2	8
1492-CJJ5-2	690	2	2	8
1492-CJJ6-3	400/480/600/ 690	3	2	9, 10
			4	13
1492-CJJ12-3	400/480/600/ 690	3	2	11
			4	14
1492-CJJ16-4	400/480/600/ 690	3	2	12
			4	15

240V Control Fuse Block (FH3) (Supplier: Rockwell Automation)

Cat. No.	Voltage	Quantity	Equivalent Frame Size
1492-FB1M30	400/480/600/690	1	7…15

240V Control Fuse (used with FH3)

Cat. No.	Voltage	Device Rating Current	Quantity	Equivalent Frame Size
FNQ-2 (Bussmann)	400/480/600	2	1	7…9
FR10AM50V2 (Mersen)	690	2	1	7… 9
FNQ-4 (Bussmann)	400/480/600	4	1	10…15
FR10AM50V4 (Mersen)	690	4	1	10…15

Switched Mode Power Supply (PS1) (Supplier: Rockwell Automation)

Cat. No.	Voltage	Device Rating (W)	Quantity	Equivalent Frame Size
1606-XLS240EC	400/480/600/690	240	1	7…15

24V Terminal Block (TB4) (Supplier: Rockwell Automation)

Cat. No.	Voltage	Device Rating Current	Quantity	Equivalent Frame Size
1492-J6	400/480/600/690	50	4	7…15

24V Auxiliary Terminal Block (TB5) (Supplier: Rockwell Automation)

Cat. No.	Voltage	Device Rating Current	Quantity	Equivalent Frame Size
1492-J6	400/480/600/690	50	6	7
			4	8…15

DC Precharge Modules

No Filtering	With DC Common Mode Core	Voltage	Amps *(normal duty)*	Fuse Rating *Amps/leg (1/leg)*	Max Weight *kg (lb)*	System Control Power Consumption *Amps*
20-750-MDCP1-CD-F8M	20-750-MDCP2-CD-F8M	400	887	1400 (170M6467)	41 (90) With packaging: 44 (97)	240V AC Supply: 0.6 24V DC Supply: 0.5
		480	817			
20-750-MDCP1-EF-F8M	20-750-MDCP2-EF-F8M	600	602	1100 (170M6499)		
		690	556			

DC Link/Fuse Assemblies

Voltage	Amps *(normal duty)*	Cat. No.	Amps *(normal duty)*	Cat. No.
400	887	20-750-MDCL1-CD-F8M	798	20-750-MDCL2-CD-F8M 20-750-MDCL3-CD-F8M(1) 20-750-MDCL1-CD-F7M
480	817		735	
600	602	20-750-MDCL1-EF-F8M	542	20-750-MDCL2-EF-F8M 20-750-MDCL3-EF-F8M (1) 20-750-MDCL1-EF-F7M
690	556		501	

(1) For right-to-left orientation.

DC Bus Conditioner

Cat. No.	Input Voltage	Amps	Equivalent Frame Size
20-750-MDCBUS-COND-F7M(1)	1000V DC	70	7
20-750-MBSCD-DB (Marine Discharge Circuit Board)(2)	1000V DC	—	7
20-750-MDCBUS-COND	1000V DC	100	8…15
20-750-MDCBUS1-COND(2)	1000V DC	100	8…15

(1) This kit is included in all frame 7 power modules and must be configured for the applicable ground scheme. See the PowerFlex 755TM IP00 Open Type Kits Installation Instructions, publication 750-IN101, for details on jumper configuration.
(2) Suitable for use on a high-resistance ground or ungrounded distribution system in a marine application that requires low leakage current to ground (for example, ship or marine vessel).

DC Bus Conditioner Guidelines

Ground Scheme	Voltage	Frame Size	Quantity Required	Installation Location
Solid Ground	400/480/600/690	7	2	One included in each power module.
		8	1	Above the first line side converter.
		9		
		10		
		11		
		12		
		13	2	Above the first line side converter in the left-to-right orientation and above the first line side converter in the right-to-left orientation.
		14		
		15		
High-Resistance Ground, Ungrounded (Marine), or Ungrounded with Zig-Zag Transformer to Convert to High-Resistance Ground	400/480	7	2	One included in each power module. Install one marine discharge board for marine applications only.
		8	1	Above the line side converter and motor side inverter.
		9	2	Above each line side converter.
		10	3	
		11	4	
		12	5	
		13	6	
		14	8	
		15	10	
	600/690	7	2	One included in each power module. Install one marine discharge board for marine applications only.
		8	2	Above the line side converter and motor side inverter.
		9	2	Above each line side converter.
		10	3	
		11	4	
		12	5	
		13	6	
		14	8	
		15	10	

DC Common Mode Core

Cat. No.	Use With	Equivalent Frame Size
20-750-MDCCM1-F8M	DC precharge modules	8…12

TVSS Modules

Cat. No.	Voltage
20-750-MACP-CD-TVSS	400/480
20-750-MACP-EF-TVSS	600/690

EMC C2 Filter Kits (1)

Cat. No.	Kit Description	Required for Equivalent Frame Size	Voltage Rating	Product Rating (ND) *Amps* (7)
20-750-MEMCC2-IPBB (2)	EMC C2 Filter Input Bus Bars	8…10	600/690	237…2156
20-750-MEMCC2-F8910 (3)	EMC C2 Filter	8…10	600/690	237…2156
20-750-MEMCC2-F8 (4)	EMC C2 Filter Output Bus Bars	8	600/690	237…770
20-750-MEMCC2-F9 (5)	EMC C2 Filter Output Bus Bars	9	600/690	640…1685
20-750-MEMCC2-F10 (6)	EMC C2 Filter Output Bus Bars	10	600/690	1045…2156

(1) The EMC C2 filter kits are used for PowerFlex 755T product installations that require compliance with CE EN61800-3 Category C2 for conducted emissions only. The EMC C2 filter kits cannot be used for ungrounded/high resistance ground or marine ungrounded/high resistance ground applications. The EMC C2 filter kits must be installed in the EMC C2 wire bay (see PowerFlex 750TM EMC C2 Filter Wire Bay and Required Accessories on page 111). See the PowerFlex 755TM EMC C2 Filter Kits Installation Instructions, publication 750-IN101, for details.
(2) This kit includes a ground bus bar that must be installed in the wire bay to meet EMC C2 compliance for conducted emissions.
(3) This kit includes three ferrite cores and the hardware required for connecting to the EMC C2 bus bar kits included in this table.
(4) To meet EMC C2 compliance for conducted emissions, the plastic airflow baffle and ground cable (included with this kit) and the frame 8 AC input bus bar assembly (20-750-MCNCTAC-F8) must be installed with this kit.
(5) To meet EMC C2 compliance for conducted emissions, the plastic airflow baffle and ground bus splice (included with this kit) and the frame 9 AC input bus bar assembly (20-750-MCNCTAC-F9) must be installed with this kit.
(6) To meet EMC C2 compliance for conducted emissions, the ground bus splice (included with this kit) and the frame 10…12, 1000 mm wide AC input bus bars (20-750-MACBUS10-3K0 or 20-750-MACBUS10-4K7) must be installed with this kit.
(7) See LCL Filter and Power Module Selection on page 82 for catalog numbers applicable to the equivalent frame size.

Assemblies

Frame 8…15 AC Input Bus Bars

Cat. No.	Voltage	Cabinet Width *mm (in.)*	Cabinet Type	Material	Thickness *mm (in.)*	Weight *kg (lb)*	Equivalent Frame Size
20-750-MCNCTAC-F8	600/690	400 (16)	Input bay	Aluminum	12.7 (0.5)	< 22.7 (50)	8
20-750-MCNCTAC-F9	600/690	600 (24)	Input bay	Aluminum	12.7 (0.5)	< 22.7 (50)	9
20-750-MACBUS6-3K0	600/690	600 (24)	Power bay	Aluminum	27 (1.1)	< 22.7 (50)	10, 13
20-750-MACBUS6-4K7	600/690	600 (24)	Power bay	Copper	27 (1.1)	37.8 (84)	10, 12
20-750-MACBUS8-3K0	600/690	800 (31)	Power bay	Aluminum	27 (1.1)	< 22.7 (50)	9, 10, 13
20-750-MACBUS8-4K7	600/690	800 (31)	Power bay	Copper	27 (1.1)	57.2 (127)	11, 12, 14, 15
20-750-MACBUS10-3K0	600/690	1000 (39)	Input bay	Aluminum	27 (1.1)	< 22.7 (50)	10, 13
20-750-MACBUS10-4K7	600/690	1000 (39)	Input bay	Copper	27 (1.1)	65.7 (146)	11, 12, 14, 15

Frame 8…15 AC Bus Bars (Top Cable Exit/Entry Wiring Bay)

Cat. No.	Voltage	Cabinet Width *mm (in.)*	Cabinet Type	Material	Thickness *mm (in.)*	Weight *kg (lb)*	Equivalent Frame Size
20-750-MTESPL2-F8M	600/690	–	Wire bay, top cable exit, right-to-left orientation	Aluminum	6 (0.2)	< 22.7 (50)	8
20-750-MTEBUS2-3K0	600/690	400 (16)	Wire bay	Aluminum	27 (1.1)	< 22.7 (50)	8…10, 13
20-750-MTEBUS1-4K7	600/690	800 (31)	Wire bay	Copper	37 (1.5)	52.7 (117)	11, 12, 14, 15

Frame 8…15 AC Bus Bar Splices

Cat. No.	Voltage	Cabinet Type	Material	Thickness *mm (in.)*	Equivalent Frame Size
20-750-MACSPL1-F10M	600/690	Inverter power bay to inverter power bay	Aluminum	27 (1.1)	10, 13
20-750-MACSPL1-F11M	600/690	Inverter power bay to inverter power bay	Copper	37 (1.5)	10…15
20-750-MACSPL2-F8M	600/690	Input bay to power bay	Aluminum	9.5 (0.4)	8
20-750-MACSPL2-F9M	600/690	Input bay to power bay	Aluminum	500 MCM (1)	9
20-750-MACSPL2-3K0	600/690	Entry wire bay to input bay, or input bay to converter power bay	Aluminum	27 (1.1)	10, 13
20-750-MACSPL2-4K7	600/690	Entry wire bay to input bay, or input bay to converter power bay	Copper	37 (1.5)	10…15
20-750-MACSPL3-F8M	600/690	Input bay to power bay, right-to-left orientation	Aluminum	9.5 (0.4)	8
20-750-MACSPL3-F9M	600/690	Input bay to power bay, right-to-left orientation	Aluminum	500 MCM (1)	9
20-750-MTESPL1-F8M	600/690	Power bay to exit wire bay	Aluminum	6 (0.2)	8
20-750-MTESPL2-F10M	600/690	Power bay to exit wire bay	Aluminum	25 (1.0)	9, 10, 13
20-750-MTESPL3-F12M	600/690	Power bay to exit wire bay	Copper	25 (1.0)	10…15

(1) This measurement reflects a wire size.

Frame 10…15 AC Precharge Circuit Breaker Bus Bars

Cat. No.	Voltage	Circuit Breaker Rating *Amps*	Cabinet Type	Material	Thickness *mm (in.)*	Weight *kg (lb)*	Equivalent Frame Size
20-750-MCBBUS1-2K0	600/690	2000	Input bay	Copper	27 (1.1)	< 22.7 (50)	10, 13
20-750-MCBBUS1-2K5	600/690	2500	Input bay	Copper	27 (1.1)	73 (160)	11, 14
20-750-MCBBUS1-3K0	400/480/600	3000	Input bay	Copper	27 (1.1)	< 22.7 (50)	10, 12, 13, 15
20-750-MCBBUS2-5K0	400/480	5000	Input bay	Copper	27 (1.1)	152 (335)	11, 12, 14, 15
20-750-MCBBUS2-3K0	690	3000	Input bay	Copper	27 (1.1)	61 (140)	12, 15

Frame 8…15 AC Input Link Bus Bar and Fuse Assemblies

Cat. No.	Voltage	Cabinet Type	Material	Thickness *mm (in.)*	Fuse		Equivalent Frame Size
					Rating	No. *(Qty. 3)*	
20-750-MACL1-F8M	400/480	Power bay	Aluminum	9.5 (0.4)	690/700V (IEC/U.L.), 900 A	170M6463	8
	600/690						
20-750-MACL1-F9M	400/480	Power bay	Aluminum	9.5 (0.4)	690/700V (IEC), 1800 A	170M6470	9
20-750-MACL2-F8M	400/480	Power bay	Aluminum	9.5 (0.4)	690/700V (IEC/U.L.), 1250 A	170M6466	10, 12
	600/690						9
20-750-MACL2-F9M	400/480	Power bay	Aluminum	9.5 (0.4)	690/700V (IEC), 2000 A	170M6471	9…15
20-750-MACL3-F8M	600/690	Power bay	Aluminum	9.5 (0.4)	690/700V (IEC), 700 A	170M6461	9
20-750-MACL3-F9M	600/690	Power bay	Aluminum	9.5 (0.4)	690/700V (IEC/U.L.), 1600 A	170M6469	9…15

AC Common Mode Core

Cat. No.	Use With	Equivalent Frame Size
20-750-MACCM1-F7M(1)	Circuit breaker input / output	7
20-750-MACCM1-F8M	LCL filter modules	8…15

(1) Rockwell Automation is evaluating the ability to meet Category C2 compliance. Contact the factory for more information.

Frame 8…15 Stab Receptacle Assemblies and Stab Receptacles with Back Panel and Bus Bars

Cat. No.	Voltage	Cabinet Width *mm (in.)*	Cabinet Type	With Back Panel	Material	Weight *kg (lb)*	Equivalent Frame Size	Module
20-750-MDCREC1-F8M	600/690	–	Power bay	Yes	Aluminum	< 22.7 (50)	8…15	DC precharge
20-750-MDCREC1-F8MC	600/690	–	Power bay	Yes	Copper	< 22.7 (50)	8…15	DC precharge
20-750-MREC1-F8M(1)	600/690	–	Power bay	No	Aluminum	< 22.7 (50)	8…15	LCL filter or power module
20-750-MREC1-F8MC(1)	600/690	–	Power bay	No	Copper	< 22.7 (50)	8…15	LCL filter or power module
20-750-MIR1-F8M	600/690	400 (16)	Power bay	Yes	Aluminum	< 22.7 (50)	8	Motor-side inverter (single)
20-750-MIR1-F9M(2)	600/690	600 (24)	Power bay	Yes	Aluminum	< 22.7 (50)	9, 11, 12	Motor-side inverters (two in parallel)
20-750-MIR1-F10M(2)	600/690	800 (31)	Power bay	Yes	Aluminum	30 (66)	10, 12	Motor-side inverters (three in parallel)
20-750-MIR2-F9M(3)	600/690	600 (24)	Power bay	Yes	Copper	29 (65)	9, 11, 12, 14, 15	Motor-side inverters (two in parallel)
20-750-MIR2-F10M(4)	600/690	800 (31)	Power bay	Yes	Copper	43 (96)	10, 12, 13, 15	Motor-side inverters (three in parallel)
20-750-MACR1-F8M	600/690	600 (24)	Power bay	Yes	Aluminum	28 (60)	8, 10, 12, 13, 15	LCL filter and one line-side converter
20-750-MACR2-F8M(5)	600/690	600 (24)	Power bay	Yes	Aluminum	28 (60)	8, 10, 12, 13, 15	LCL filter and one line-side converter
20-750-MACR1-F9M	600/690	800 (31)	Power bay	Yes	Aluminum	39 (86)	9…15	LCL filter and two line-side converters
20-750-MADR1-F8M	600/690	800 (31)	Power bay	Yes	Aluminum	32 (70)	8, 10, 12	LCL filter and two line-side inverters
20-750-MADR2-F8M(5)	600/690	800 (31)	Power bay	Yes	Aluminum	32 (70)	8	Motor-side inverter, line-side converter, LCL filter

(1) This kit is a stab receptacle sub-assembly. Purchase the kit (one per power or LCL filter module) instead of the back panel with stab receptacles, or to replace a subassembly on a back panel.
(2) Use this kit only when an exit wire bay is not used.
(3) This catalog number must be used for frames 9, 11, 12, 14, and 15 when an exit wire bay is used.
(4) This catalog number must be used for frames 10, 12, 13, and 15 when an exit wire bay is used.
(5) For right-to-left orientation.

Frame 8…15 DC Bus Bars

Cat. No.	Cabinet Width *mm (in.)*	Cabinet Type	Material	Thickness *mm (in.)*	Weight *kg (lb)*	Amps (1)	Equivalent Frame Size(2)
20-750-MDCBUS3-3K0	300 (12)	Control bay	Aluminum	27 (1.1)	< 22.7 (50)	3000	8…12
20-750-MDCBUS3-4K7	300 (12)	Control bay	Copper	37 (1.5)	< 22.7 (50)	4700	8…15
20-750-MDCBUS4-3K0	400 (16)	Power bay	Aluminum	27 (1.1)	< 22.7 (50)	3000	8
20-750-MDCBUS4-4K7	400 (16)	Power bay	Copper	37 (1.5)	< 22.7 (50)	4700	8
20-750-MDCBUS6-3K0	600 (24)	Power bay	Aluminum	27 (1.1)	< 22.7 (50)	3000	9, 10, 13
20-750-MDCBUS6-4K7	600 (24)	Power bay	Copper	37 (1.5)	25.2 (56)	4700	10…15
20-750-MDCBUS8-3K0	800 (31)	Power bay	Aluminum	27 (1.1)	< 22.7 (50)	3000	9, 10, 13
20-750-MDCBUS8-4K7	800 (31)	Power bay	Copper	37 (1.5)	39.5 (87)	4700	10…15
20-750-MDCBUS10-3K0	1000 (39)	Input bay	Aluminum	27 (1.1)	< 22.7 (50)	3000	10, 13
20-750-MDCBUS10-4K7	1000 (39)	Input bay	Copper	37 (1.5)	47.7 (106)	4700	10…15

(1) See Extruded DC Bus Derating Guidelines on page 142 for maximum amp rating and derating information.
(2) For frames 8…10, and 13 use the aluminum bus bar for standard 3000 A.
For frames 8…10, and 13 use the copper bus bar for optional 4700 A.
For frames 11, 12, 14, and 15 use the copper bus bar for all installations.

Frame 8…15 DC Bus Bar Splices

Cat. No.	Material	Thickness *mm (in.)*	Amps	Equivalent Frame Size
20-750-MDCSPL1-3K0	Aluminum	25 (1.0)	3000	8…10, 13
20-750-MDCSPL1-4K7	Copper	25 (1.0)	4700	10…15

Frame 7 Bus Bar Kits

Cat. No.	Voltage	Cabinet Width *mm (in.)*	Cabinet Type	Material	Thickness *mm (in.)*
AC Input/Output Bus Bar Terminal Kit					
20-750-MACIOT-F7M	400/480/600/690	800 (31)	Power Bay	Solid Aluminum	9.53 (0.375)
AC Input Flex Bus Bar Kit					
20-750-MACINP-F7	400/480/600/690	800 (31)	Power Bay	Flex Copper	1/0 AWG (3)
				Solid Aluminum	9.53 (0.375)
EMC AC Input Bus Bar Kit(1)					
20-750-MEMC-F7M (2)	400/480/600/690	800 (31)	Power Bay	Solid Aluminum	9.53 (0.375)
Circuit Breaker AC Output Bus Bar Kit					
20-750-MPCCB-F7M	400/480/600/690	800 (31)	Power Bay	Solid Aluminum	9.53 (0.375)
AC Output Flex Bus Bar and Fuse Assembly Kits					
20-750-MACL2-CD-F7M	400/480	800 (31)	Power Bay	Copper	1/0 AWG (3)
20-750-MACL2-EF-F7M	600/690	800 (31)	Power Bay	Copper	1/0 AWG (3)
AC Output Circuit Breaker Bus Bar and Fuse Assembly Kits (EMC C2 Option)(1)					
20-750-MACB-CD-F7M	400/480 V	800 (31)	Power Bay	Solid Aluminum	9.53 (0.375)
20-750-MACB-EF-F7M	600/690	800 (31)	Power Bay	Solid Aluminum	9.53 (0.375)
AC Motor Side Output Flex Bus Kit					
20-750-MSOF-F7	400/480/600/690	800 (31)	Power Bay	Flex Copper	1/0 AWG (3)
				Solid Aluminum	9.53 (0.375)
DC Output Bus Bar Terminal Kit					
20-750-MDCOT-F7M	DC	800 (31)	Power Bay	Solid Aluminum	9.53 (0.375)
DC Output Flex Bus Bar and Fuse Assembly Kits (Bus Supply)					
20-750-MDCFB-CD-F7M	400/480	800 (31)	Power Bay	Flex Copper	1/0 AWG (3)
20-750-MDCFB-EF-F7M	600/690	800 (31)	Power Bay	Solid Aluminum	1/0 AWG (3)

(1) Rockwell Automation is evaluating the ability to meet Category C2 compliance. Contact the factory for more information.
(2) Includes EMC core kit.
(3) This measurement reflects a wire size.

Frame 7 AC Output Bus Bar and Fuse Assembly Kit Fuses

Bus Bar Assembly and Fuse Kit Cat. No.	LCL Filter	Voltage Rating	Bussman Fuse Number	Fuse Rating	Fuse Qty.
20-750-MACL2-CD-F7M	20-750-ML4-C585D617	400/480V	170M6463	690/700V (IEC/U.L.), 900 A (1)	3
20-750-MACB-CD-F7M					3
20-750-MACL2-EF-F7M	20-750-ML4-E395F370	600/690V	170M6461	690/700V (IEC/U.L.), 700 A (1)	3
20-750-MACB-EF-F7M					3

(1) Bussman Square Body - Flush End Contact -BKN/- Type K Indicator.

Frame 7 DC Output Flex Bus Bar and Fuse Assembly Kit Fuses

Bus Bar Assembly and Fuse Kit Cat. No.	Voltage Rating	Bussman Fuse Number	Fuse Rating	Fuse Qty.
20-750-MDCFB-CD-F7M	400/480V	170M6467	690/700V (IEC/U.L.), 1400 A (1)	2
20-750-MDCFB-EF-F7M	600/690V	170M6499	690/700V (IEC/U.L.), 1100 A (1)	2

(1) Bussman Square Body - Flush End Contact -BKN/- Type K Indicator.

Ground Bus Bar Splice

Cat. No.	Material	Thickness *mm (in.)*	Equivalent Frame Size
20-750-MGNDSPL1	Aluminum	9.5 (0.37)	8…15

Control Bus Assemblies

Cat. No.	Voltage	Current Rating	Cabinet Width *mm (in.)*	Cabinet Type	Equivalent Frame Size
20-750-MCBUS1-CB-F8M	240	100	300 (12)	Control bay	8…15
20-750-MCBUS1-IB-F8M	240	100	400 (16)	Input bay/Wire bay	8…10
20-750-MCBUS1-PB-F8M	240	100	400 (16)	Power bay	8
20-750-MCBUS1-IB-F9M	240	100	600 (24)	Input bay	9
20-750-MCBUS1-PB-F9M	240	100	600 (24)	Power bay	9…15
20-750-MCBUS1-PB-F10M	240	100	800 (31)	Power bay/Wire bay	8…15
20-750-MCBUS1-IB-F10M	240	100	1000 (39)	Input bay	10…15

Control Bus Splice

Cat. No.	Voltage	Amps	Equivalent Frame Size
20-750-MCTRLBUS-SPL	240	100	8…15

Control Bus Connectors

Cat. No.	Voltage	Amps	Conductor Cross Section	Terminal Specifications	Equivalent Frame Size
20-750-MCTRLBUS-CONN1[1]	240	10 per terminal	[2]	Stud: M6 Pad Area: 19 mm^2	8…15[3]
20-750-MCTRLBUS-CONN2	240	65			10…15[4]

(1) Up to five 20-750-MCTRLBUS-CONN1 connectors can be used in parallel on the control bus assembly to reach a maximum of 100 amps per circuit (240V AC, 240/120V AC, or 24V DC).
(2) Size according to US NEC or applicable national or local codes.
(3) Quantities are determined by your configuration:
1 per power module (for the fan), when a DC precharge module is not present
1 per LCL filter module (for the fan)
1 per DC precharge module, when present
1 per IP54 rated, 400 mm power bay (for the roof fan), when a DC precharge module is not present
1 per IP54 rated, 600 mm power bay (for the roof fan), when a DC precharge module is not present
2 per IP54 rated, 800 mm power bay (for the roof fans), when a DC precharge module is not present
1 per frame 8 and 9 input bay
1 per wire entry/exit wiring bay (for the door fan)
1 per Torque Accuracy Module (TAM), when present
(4) 1 per 1000 mm wide AC input bay

Cabinet-Level Kits

The Rittal TS8 enclosures that are listed in these tables are the only enclosures recommended for use with PowerFlex 755TM IP00 / Open Type kits. The tables provide the overall enclosure dimensions and vendor part number. The enclosures listed in these tables are designed to meet EN61800-3 Category C3 EMC requirements. Rockwell Automation is evaluating the ability to meet Category C2 compliance. Contact the factory for more information. The PowerFlex 750TM EMC C2 filter wire bay (on page 111) is used only with the EMC C2 filter kits used for PowerFlex 755T product installations that require compliance with CE EN61800-3 Category C2 for conducted emissions only.
See EMC C2 Filter Kits on page 106 for more information.

These enclosures contain the roof and floor panels, side rails, and door accessory and ventilation openings, unless noted otherwise. Some enclosures include the vents and fans that are required to meet PowerFlex 755TM product specifications (as noted in the table footnotes).

Use the joining hardware kit, catalog number 20-750-MEXTBAY1, to join all Rittal TS8 enclosures. Kits for seismic qualified installations are available for use with the recommended Rittal TS8 enclosures listed here. See Kits for Seismic-qualified Installations on page 115 for kit certifications and details.

PowerFlex 750TM Control Bay [1]

Description[2]	Enclosure Type	Width *mm (in.)*	Depth *mm (in.)*	Height *mm (in.)* [3]	Rittal Part Number	Equivalent Frame Size
Control Bay	EMC Enclosure	300 (11.8)	600 (23.6)	2000 (78.7)	9977450	8…15
Control Bay	Standard Enclosure	300 (11.8)	600 (23.6)	2000 (78.7)	9977400	8…15

(1) Includes an IP21/IP54 door vent with filter media. The IP21/IP54 roof ventilation kit (cat. no. 20-750-MVENTC2-F8M), which is used on 300 mm (11.8 in.) control bays, must be purchased separately.
(2) Designed for use with frames 8…15 common bus inverters.
(3) This dimension excludes added height for the addition of a roof ventilation kit.

PowerFlex 750TM Input Bays

Description	Enclosure Type	Width *mm (in.)*	Depth *mm (in.)*	Height *mm (in.)* (6)	Rittal Part Number	Equivalent Frame Size
Input Bay(1)	EMC Enclosure	400 (15.7) (4)	600 (23.6)	2000 (78.7)	9961353	8
Input Bay(2)	EMC Enclosure	600 (23.6) (4)			9961354	9
Input Bay(3)	EMC Enclosure	1000 (39.4) (5)			9956612	10…15
Input Bay(1)	Standard Enclosure	400 (15.7) (4)	600 (23.6)	2000 (78.7)	9977401	8
Input Bay(2)	Standard Enclosure	600 (23.6) (4)			9977402	9
Input Bay(3)	Standard Enclosure	1000 (39.4) (5)			9970000	10…15

(1) Designed for Frame 8 drives and bus supplies.
(2) Designed for Frame 9 drives and bus supplies.
(3) Designed for Frame 10…15 drives and bus supplies.
(4) Includes two IP21/IP54 door vents with filter media. The IP21/IP54 roof ventilation kit (cat. no. 20-750-MVENTC2-F8M) must be purchased separately.
(5) IP21 door and roof ventilation kit (cat. no. 20-750-MVENTC1-F11M) and IP54 door and roof ventilation kit (cat. no. 20-750-MVENTC2-F11M) must be purchased separately.
(6) This dimension excludes added height for the addition of a roof ventilation kit.

PowerFlex 750TM Power Bays (1)

Description	Enclosure Type	Width *mm (in.)*	Depth *mm (in.)*	Height *mm (in.)* (2)	Rittal Part Number	Equivalent Frame Size
Inverter Power Bay	EMC Enclosure	400 (15.7)	600 (23.6)	2000 (78.7)	9977451	8
Inverter Power Bay	EMC Enclosure	600 (23.6)			9977452	9, 11, 12, 14, 15
Converter Power Bay	EMC Enclosure				9956610	8, 10, 12, 13, 15
Power Bay	EMC Enclosure	800 (31.5)			9961400	7
Inverter Power Bay	EMC Enclosure				9977453	10, 12, 13, 15
Converter Power Bay	EMC Enclosure				9956611	8…15
Inverter Power Bay	Standard Enclosure	400 (15.7)	600 (23.6)	2000 (78.7)	9977405	8
Inverter Power Bay	Standard Enclosure	600 (23.6)			9977407	9, 11, 12, 14, 15
Converter Power Bay	Standard Enclosure				9977406	8, 10, 12, 13, 15
Power Bay	Standard Enclosure	800 (31.5)			9961399	7
Inverter Power Bay	Standard Enclosure				9977409	10, 12, 13, 15
Converter Power Bay	Standard Enclosure				9977408	8…15

(1) The IP21 door and roof ventilation kits (cat. no. 20-750-MVENT1-F8M, 20-750-MVENT1-F9M, and 20-750-MVENT1-F10M) and IP54 door and roof ventilation kits (cat. no. 20-750-MVENT2-F8M, 20-750-MVENT2-F9M, 20-750-MVENT2-F10M) must be purchased separately.
(2) This dimension excludes added height for the addition of a roof ventilation kit.

PowerFlex 750TM Top Entry/Exit Wire Bays

Description	Enclosure Type	Width *mm (in.)*	Depth *mm (in.)*	Height *mm (in.)* (3)	Rittal Part Number	Equivalent Frame Size
Entry/Exit Wire Bay	EMC Enclosure	400 (15.7) (1)	600 (23.6)	2000 (78.7)	9961356	8, 13(4)
Entry/Exit Wire Bay	EMC Enclosure	800 (31.5) (2)			9961357	9…15(5)
Entry/Exit Wire Bay	Standard Enclosure	400 (15.7) (4)	600 (23.6)	2000 (78.7)	9970001	8, 13(4)
Entry/Exit Wire Bay	Standard Enclosure	800 (31.5) (2)			9970002	9…15(5)

(1) Includes one IP/21/IP54 door vents with filter media and one door vent with filter media and a fan.
(2) Includes two IP/21/IP54 door vents with filter media and one door vent with filter media and a fan.
(3) This dimension excludes added height for the addition of a roof ventilation kit.
(4) Used with frame 13 in-line configurations only.
(5) Used with frame 14 and 15 in-line configurations only.

PowerFlex 750TM EMC C2 Filter Wire Bay and Required Accessories (1)

Description	Enclosure Type	Width *mm (in.)*	Depth *mm (in.)*	Height *mm (in.)*	Rittal Model Number	Rockwell Automation Cat. No.
EMC C2 Filter Wire Bay (2)	Standard Enclosure	800 (31.5)	600 (23.6)	2000 (78.7)	8806.500	20-750-MPBAY-800
Side Panels (Qty 2) (3)	Standard Enclosure	—	600 (23.6)	2000 (78.7)	8106.235	—
Gland Plate (4)	Standard Enclosure	220 (8.7)	90 (3.5)	—	1158.500	—
Gland Plate (4)	Standard Enclosure	160 (6.3)	70 (2.8)	—	2560.400	—

PowerFlex 750TM EMC C2 Filter Wire Bay and Required Accessories (1)

Description	Enclosure Type	Width *mm (in.)*	Depth *mm (in.)*	Height *mm (in.)*	Rittal Model Number	Rockwell Automation Cat. No.
Gland Plate (4)	Standard Enclosure	330 (13.0)	90 (3.5)	—	2561.400	—
Gland Plate (4)	Standard Enclosure	339 (13.3)	249 (9.8)	—	2562.400	—
Gland Plate (4)	Standard Enclosure	534 (21.0)	149 (5.9)	—	2563.150	—

(1) This enclosure is used with the EMC C2 filter kits for PowerFlex 755T product installations that require compliance with CE EN61800-3 Category C2 for conducted emissions only. See EMC C2 Filter Kits on page 106 for more information.
(2) Protective guards must be customer-supplied and installed with the EMC C2 filter to prevent an electric shock hazard.
(3) These parts must be ordered separately and must be installed with the wire bay (cat. no 20-750-MPBAY-800). Only one side panel is used in the installation.
(4) These parts must be ordered separately and installed with the wire bay (cat. no 20-750-MPBAY-800). Order the appropriate gland plate(s) based on input wiring needs.

Frame 13 Drive (Back-to-Back Configuration) DC Bus Voltage Balance Bay

Cat. No.	Kit Component	Qty.	Width *mm (in.)*	Voltage	Material	Thickness *mm (in.)*	Approx. Kit Weight *kg (lb)*
20-750-DCVBB-400	DC bus bars (slotted)	4	400 (16)	600/690	Aluminum	27 (1.1)	523 (1154)
	DC bus bar splice (for slotted bus)	4	—	600/690	Aluminum	25.4 (1.0)	
	DC bus bar splice (flat)	2	—	600/690	Copper	19.05 (0.75)	
	DC bus bar splice (L-shaped)	4	—	600/690	Copper	19.05 (0.75)	
	DC bus support panels (right and left)	4	600 (23.6)	—	Sheet Metal	—	
	AC bus bars (slotted)	6	400 (16)	600/690	Aluminum	27 (1.1)	
	AC bus bar splice	6	—	600/690	Aluminum	25.4 (1.0)	
	AC bus support panels (right and left)	4	600 (23.6)	—	Sheet Metal	—	
	L-bracket	36	—	600/690	Aluminum	—	
	Ground bus bar	6	400 (16)	600/690	Aluminum	9.5 (0.4)	
	Ground bus bar splice	2	—	600/690	Aluminum	9.5 (0.4)	
	Control bus assembly	2	400 (16)	240 (max.)	—	—	
	Control bus splice	2	—	240 (max.)	Copper	—	
	Door fan	2	—	240 (max.)	—	—	
	Thermal Switch	2	—	400/480 600/690	—	—	
	Baffles	2	400 (16)	—	—	—	

Frame 13 Drive and Common Bus Inverter (Back-to-Back Configuration) DC Bus Voltage Balance Bay

Cat. No.	Kit Component	Qty.	Width *mm (in.)*	Voltage	Material	Thickness *mm (in.)*	Approx. Kit Weight *kg (lb)*
20-750-DCVBB-400C	DC bus bars (slotted)	4	400 (16)	600/690	Copper	37 (1.5)	523 (1154)
	DC bus bar splice (for slotted bus)	4	—	600/690	Copper	25.4 (1.0)	
	DC bus bar splice (flat)	2	—	600/690	Copper	19.05 (0.75)	
	DC bus bar splice (L-shaped)	4	—	600/690	Copper	19.05 (0.75)	
	DC bus support panels (right and left)	4	600 (23.6)	—	Sheet Metal	—	
	AC bus bars	6	400 (16)	600/690	Aluminum	27 (1.1)	
	AC bus bar splice	6	—	600/690	Aluminum	25.4 (1.0)	
	AC bus support panels (right and left)	4	600 (23.6)	—	Sheet Metal	—	
	L-bracket	36	—	600/690	Aluminum	—	
	Ground bus bar	2	400 (16)	600/690	Aluminum	9.5 (0.4)	
	Ground bus bar splice	2	—	600/690	Aluminum	9.5 (0.4)	
	Control bus assembly	2	400 (16)	240 (max.)	—	—	
	Control bus splice	2	—	240 (max.)	Copper	—	
	Door fan	2	—	240 (max.)	—	—	
	Thermal Switch	2	—	400/480 600/690	—	—	
	Baffles	2	400 (16)	—	—	—	

Frame 14 and 15 Drive and Common Bus Inverter (Back-to-back Configuration) DC Bus Voltage Balance Bay

Cat. No.	Kit Component	Qty.	Width *mm (in.)*	Voltage	Material	Thickness *mm (in.)*	Approx. Kit Weight *kg (lb)*
20-750-DCVBB-800	DC bus bars (slotted)	4	800 (31)	600/690	Copper	37 (1.5)	523 (1154)
	DC bus bar splice (for slotted bus)	4	—	600/690	Copper	25.4 (1.0)	
	DC bus bar splice (flat)	2	—	600/690	Copper	19.05 (0.75)	
	DC bus bar splice (L-shaped)	4	—	600/690	Copper	19.05 (0.75)	
	DC bus support panels (right and left)	4	600 (23.6)	—	Sheet Metal	—	
	AC bus bars	6	800 (31)	600/690	Aluminum	27 (1.1)	
	AC bus bar splice	6	—	600/690	Aluminum	25.4 (1.0)	
	AC bus support panels (right and left)	4	600 (23.6)	—	Sheet Metal	—	
	L-bracket	36	—	600/690	Aluminum	—	
	Ground bus bar	2	800 (31)	600/690	Aluminum	9.5 (0.4)	
	Ground bus bar splice	2	—	600/690	Aluminum	9.5 (0.4)	
	Control bus assembly	2	800 (31)	240 (max.)	—	—	
	Control bus splice	2	—	240 (max.)	Copper	—	
	Door fan	2	—	240 (max.)	—	—	
	Thermal Switch	2	—	400/480 600/690	—	—	
	Baffles	2	800 (31)	—	—	—	

Frame 13 Drive (Back-to-Back Configuration) Wire Entry Bay

Cat. No.	Kit Component	Qty.	Width *mm (in.)*	Voltage	Material	Thickness *mm (in.)*	Approx. Kit Weight *kg (lb)*
20-750-DCVBB-400-FBR	DC bus bars (slotted)	2	400 (16)	600/690	Aluminum	27 (1.1)	523 (1154)
	DC bus bar splice	2	—	600/690	Aluminum	25.4 (1.0)	
	DC bus support panels (right and left)	4	600 (23.6)	—	Sheet Metal	—	
	AC bus bars	6	400 (16)	600/690	Aluminum	27 (1.1)	
	AC bus bar splice	6	—	600/690	Aluminum	25.4 (1.0)	
	AC bus support panels (right and left)	4	600 (23.6)	—	Sheet Metal	—	
	L-bracket	36	—	600/690	Aluminum	—	
	Ground bus bar (lower)	1	400 (16)	600/690	Aluminum	9.5 (0.4)	
	Ground bus bar (upper)	1	600 (24)	600/690	Aluminum	9.5 (0.4)	
	Control bus assembly	2	400 (16)	240 (max.)	—	—	
	Control bus splice	2	—	240 (max.)	Copper	—	
	Door fan	2	—	240 (max.)	—	—	
	Thermal Switch	2	—	400/480 600/690	—	—	
	Baffles	2	400 (16)	—	—	—	

Frame 13 Drive and Bus Supply (Back-to-Back Configuration) Wire Entry Bay

Cat. No.	Kit Component	Qty.	Width *mm (in.)*	Voltage	Material	Thickness *mm (in.)*	Approx. Kit Weight *kg (lb)*
20-750-DCVBB-400C-FBR	DC bus bars (slotted)	4	400 (16)	600/690	Copper	37 (1.5)	523 (1154)
	DC bus bar splice	2	—	600/690	Copper	25.4 (1.0)	
	DC bus support panels (right and left)	4	600 (23.6)	—	Sheet Metal	—	
	AC bus bars	6	400 (16)	600/690	Aluminum	27 (1.1)	
	AC bus bar splice	6	—	600/690	Aluminum	25.4 (1.0)	
	AC bus support panels (right and left)	4	600 (23.6)	—	Sheet Metal	—	
	L-bracket	36	—	600/690	Aluminum	—	
	Ground bus bar (lower)	2	400 (16)	600/690	Aluminum	9.5 (0.4)	
	Ground bus bar (upper)	4	600 (24)	600/690	Aluminum	9.5 (0.4)	
	Control bus assembly	2	400 (16)	240 (max.)	—	—	
	Control bus splice	2	—	240 (max.)	Copper	—	
	Door fan	2	—	240 (max.)	—	—	
	Thermal Switch	2	—	400/480 600/690	—	—	
	Baffles	2	400 (16)	—	—	—	

Frame 14 and 15 Drive and Bus Supply (Back-to-Back Configuration) Wire Entry Bay

Cat. No.	Kit Component	Qty.	Width *mm (in.)*	Voltage	Material	Thickness *mm (in.)*	Approx. Kit Weight *kg (lb)*
20-750-DCVBB-800-FBR	DC bus bars (slotted)	4	800 (31)	600/690	Copper	37 (1.5)	523 (1154)
	DC bus bar splice	2	—	600/690	Copper	25.4 (1.0)	
	DC bus support panels (right and left)	4	600 (23.6)	—	Sheet Metal	—	
	AC bus bars	6	800 (31)	600/690	Aluminum	27 (1.1)	
	AC bus bar splice	6	—	600/690	Aluminum	25.4 (1.0)	
	AC bus support panels (right and left)	4	600 (23.6)	—	Sheet Metal	—	
	L-bracket	36	—	600/690	Aluminum	—	
	Ground bus bar (lower)	2	800 (31)	600/690	Aluminum	9.5 (0.4)	
	Ground bus bar (upper)	4	600 (24)	600/690	Aluminum	9.5 (0.4)	
	Control bus assembly	2	800 (31)	240 (max.)	—	—	
	Control bus splice	2	—	240 (max.)	Copper	—	
	Door fan	2	—	240 (max.)	—	—	
	Thermal Switch	2	—	400/480 600/690	—	—	
	Baffles	2	800 (31)	—	—	—	

Frame 13…15 Bus Supply (Back-to-Back Configuration) DC Voltage Balance Bay

Cat. No.	Kit Component	Qty.	Width *mm (in.)*	Voltage	Material	Thickness *mm (in.)*	Approx. Kit Weight *kg (lb)*
20-750-DCVBB-BS	DC bus bars (slotted)	4	400 (16)	600/690	Copper	37 (1.5)	523 (1154)
	DC bus bar splice (for slotted bus)	2	—	600/690	Copper	25.4 (1.0)	
	DC bus support panels (right and left)	4	600 (23.6)	—	Sheet Metal	—	
	DC bus bar splice (flat)	2	—	600/690	Copper	19.05 (0.75)	
	DC bus bar splice (L-shaped)	4	—	600/690	Copper	19.05 (0.75)	
	Ground bus bar	2	400 (16)	600/690	Aluminum	9.5 (0.4)	
	Ground bus bar splice	2	—	600/690	Aluminum	9.5 (0.4)	
	Control bus assembly	2	400 (16)	240 (Max.)	—	—	
	Control bus splice	2	—	240 (max.)	Copper	—	
	Thermal Switch	2	—	400/480 600/690	—	—	
	Baffles	2	400 (16)	—	—	—	

DC Voltage Balance Bay (Back-to-Back Configuration) DC Bus Splice Kit

Cat No.	Voltage	Material	Thickness *mm (in.)*	Frame
20-750-DCVBB-SPLICE	400/480/600/690	Copper	19.05 (0.75)	13…15

Kits for Seismic-qualified Installations(1)

Cat No.	Enclosure Types (2)	Equivalent Frame Size
20-750-MOSHPD-F8M	Input Bay, and Power Bay, Exit Wire Bay	8
20-750-MOSHPD-F9M	Input Bay, Power Bay, Exit Wire Bay	9
20-750-MOSHPD-F10M	Entry Wire Bay, Input Bay, Power Bay, and Exit Wire Bay	10
20-750-MOSHPD-F11M	Entry Wire Bay, Input Bay, Power Bay, and Exit Wire Bay	11
20-750-MOSHPD-F12M	Entry Wire Bay, Input Bay, Power Bay, and Exit Wire Bay	12

(1) These kits are used only with the recommended Rittal TS8 enclosures for seismic qualified installations.
(2) Each kit includes parts for the largest possible enclosure lineup for the specified frame size. Therefore, in some cases, not all parts in the kit will be installed.

Power and LCL Filter Module Floor and Support Brackets

Cat. No.	Cabinet Width *mm (in.)*	Cabinet Type	Equivalent Frame Size
20-750-MMNT1-F7M	800 (31)	Power bay	7
20-750-MMNT1-F8M	400 (16)	Power bay	8 (Common Bus Inverter)
20-750-MMNT1-F9M	600 (24)	Power bay	8…12
20-750-MMNT1-F10M	800 (31)	Power bay	8…12

Bus Support and Divider Panels (Right and Left Sides)

Cat. No.	Cabinet Position	Cabinet Type	Equivalent Frame Size
20-750-MIPNL1-F8M	Upper	Power bay(1), Control bay, Regenerative bus supply input bay	8…15
20-750-MIPNL3-F8M	Upper	Regenerative drive power bay	8
20-750-MCPNL1-F8M	Lower	Power bay (line side converter)	8…15(2)
20-750-MIPNL2-F8M	Lower	Power bay (motor side inverter)	8…15
20-750-MIBPNL1-F10M	Lower	Input bay	10…15
20-750-MWBPNL1-F8M	Upper and Lower	Wire bay	8…15

(1) For frame 8 regenerative drive power bays, use kit cat. no. 20-750-MIPNL3-F8M.
(2) Cannot be used in a frame 8 power bay when an exit wire bay is installed.

DC Precharge Mounting Brackets

Cat. No.	Cabinet Width *mm (in.)*	Cabinet Type	Equivalent Frame Size
20-750-MDCMNT1-F8M	400 (16)	Power bay	8
20-750-MDCMNT1-M9M	600 (24)	Power bay	9, 11, 12, 14, 15
20-750-MDCMNT1-F10M	800 (31)	Power bay	10, 12, 13, 15

Baffle Assemblies

Catalog Number	Cabinet Width *(mm)*	Cabinet Type	Equivalent Frame Size
20-750-MIBAF1-F8M	400 (16)	Power bay	8 (Common Bus Inverter)
20-750-MIBAF1-F9M	600 (24)	Power bay	9…15
20-750-MIBAF1-F10M	800 (31)	Power bay	8…15

Circuit Breaker Mounting Panels

Cat. No.	Cabinet Position	Cabinet Type	Circuit Breaker	Equivalent Frame Size
20-750-MIBPNL2-F10M	Right and left side	Input bay	T8	10, 13 - 400/480/600/690V 11, 14 - 600/690V 12, 15 - 600/690V
20-750-MIBPNL2-F11M	Right and left side	Input bay	E6	11, 14 - 400/480V 12, 15 - 400/480V

Ventilation Assemblies

Cat. No.	Cabinet Width *mm (in.)*	Vent Kit Height(3) *mm (in.)*	Cabinet Type	Enclosure Rating	Equivalent Frame Size
20-750-MVENT1-F7M	800 (31)	132 (5.2)	Input / Power bay	IP21, UL Type 1	7
20-750-MVENT2-F7M	800 (31)	291 (11.5)	Input / Power bay	IP54, UL Type 12	7
20-750-MVENT1-F8M	400 (16)	132 (5.2)	Power bay	IP21, UL Type 1	8
20-750-MVENT1-F9M	600 (24)		Power bay	IP21, UL Type 1	8…15
20-750-MVENT1-F10M	800 (31)		Power bay	IP21, UL Type 1	8…15
20-750-MVENT2-F8M	400 (16)	291 (11.5)	Power bay	IP54, UL Type 12(4)	8
20-750-MVENT2-F9M	600 (24)		Power bay	IP54, UL Type 12(4)	8…15
20-750-MVENT2-F10M	800 (31)		Power bay	IP54, UL Type 12(4)	8…15
20-750-MVENTC1-F11M	1000 (39)	105.70 (4.2)	Input bay	IP21, UL Type 1	10…15

Ventilation Assemblies (continued)

Cat. No.	Cabinet Width *mm (in.)*	Vent Kit Height[3] *mm (in.)*	Cabinet Type	Enclosure Rating	Equivalent Frame Size
20-750-MVENTC2-F8M	400 (16)	105.70 (4.2)	Input bay	IP21, UL Type 1 / IP54, UL Type 12[4]	8
	600 (24)		Input bay	IP21, UL Type 1 / IP54, UL Type 12[4]	9
	300 (12)		Control bay	IP54, UL Type 12[4]	8…12
20-750-MVENTC2-F11M	1000 (39)	105.70 (4.2)	Input bay	IP54, UL Type 12[4]	10…15
SK-RM-WBDR-FANFLR1[1]	400 (16)	Not applicable	Wire bay	IP54, UL Type 12[4]	8…10, 13
SK-RM-WBDR-FANFLR2[2]	800 (31)	Not applicable	Wire bay	IP54, UL Type 12[4]	11…15

(1) Spare part kit listed. This ventilation kit is included with Rittal TS8 enclosure part numbers 9961356 and 9970001.
(2) Spare part kit listed. This ventilation kit is included with Rittal TS8 enclosure part numbers 9961357 and 9970002.
(3) This height is added to the height of the enclosure.
(4) Install per instructions. See the PowerFlex 755TM IP00 Open Type Kits Installation Instructions, publication 750-IN101.

Ventilation Kit Temperature Specifications

Cat. No.	Accessory	Cabinet Type	Inlet Temperature Range[1]
20-750-MVENTC2-F8M	Ventilation kit with a roof fan (IP21, UL Type 1/IP54, UL Type 12)	Input bay (400 mm and 600 mm) Control bay (300 mm)	-25…+80 °C (-13…+176 °F)
20-750-MVENTC1-F11M	Ventilation kit with two door fans (IP21, UL Type 1)	Input bay (1000 mm)	-25…+75 °C (-13…+167 °F)
20-750-MVENTC2-F11M	Ventilation kit with two door fans (IP54, UL Type 12)	Input bay (1000 mm)	
SK-RM-WBDR-FANFLR1	Ventilation kit - door fan (IP21, UL Type 1/IP54, UL Type 12)	Wire bay (400 mm)	-30…+55 °C (-22…+131 °F)
SK-RM-WBDR-FANFLR2		Wire bay (800 mm)	
20-750-MVENT2-F8M	Ventilation kit with one roof fan (IP54, UL Type 12)	Power bay (400 mm)	-40…+70 °C (-40…+158 °F)
20-750-MVENT2-F9M		Power bay (600 mm)	
20-750-MVENT2-F10M	Ventilation kit with two roof fans (IP54, UL Type 12)	Power bay (800 mm)	

(1) Component only rating.

Empty Option Bays

Cat. No.	Cabinet Width *mm (in.)*
20-750-MPBAY-600	600 (24)
20-750-MPBAY-800	800 (31)

Cabinet Bay Hardware

Cat. No.	Description
20-750-MEXTBAY1	Joining hardware for Rittal cabinet.

Accessories

Control Pod Assemblies [1]

Cat. No.	Equivalent Frame Size	Product	System Control Power Consumption *Amps*	Airflow	Compatible Firmware Revisions
20-750-MCPOD1-F7M	7	Regenerative and low harmonic drives and bus supplies	240V AC Supply: 0.0 24V DC Supply: 7.2	150 CFM	This control pod catalog number includes the main control circuit board SK-RM-MCB1-PF755, which supports firmware revisions v6.*xxx* and earlier.
20-750-MCPOD2-F7M		Low harmonic drives			
20-750-MCPOD3-F7M		Regenerative and low harmonic drives and bus supplies			This control pod catalog number includes the main control circuit board SK-RM-MCB2-PF755, which supports firmware revisions 10.*xxx* and later.
20-750-MCPOD4-F7M		Low harmonic drives			

Control Pod Assemblies (continued)(1)

Cat. No.	Equivalent Frame Size	Product	System Control Power Consumption *Amps*	Airflow	Compatible Firmware Revisions
20-750-MCP0D1-F8M	8…15	Regenerative and low harmonic drives, bus supplies, and common bus inverters	240V AC Supply: 0.0 24V DC Supply: 5.2	40 CFM	This control pod catalog number includes the main control circuit board SK-RM-MCB1-PF755, which supports firmware revision 1.*xxx* to v6.*xxx*.
20-750-MCP0D2-F8M	8…10	Low harmonic frame 8…10 drives and common bus inverters			
20-750-MCP0D3-F8M	8…15	Regenerative and low harmonic drives, bus supplies, and common bus inverters			This control pod catalog number includes the main control circuit board SK-RM-MCB2-PF755, which supports firmware revision 10.*xxx* and later.
20-750-MCP0D4-F8M	8…10	Low harmonic frame 8…10 drives and common bus inverters			

(1) The control pod kits include the main control circuit board and fiber interface circuit board.

Fiber-optic Cable Kits

The fiber optic cable kits contain a fiber optic cable and transceivers. This table provides a list of all available fiber-optic cable kits.

Catalog Number	Length, *mm (in.)*
20-750-MFOC-1K3(1)	1300 (51)
20-750-MFOC-1K5(2)	1500 (59)
20-750-MFOC-2K0	2000 (79)
20-750-MFOC-2K2	2200 (87)
20-750-MFOC-2K7	2700 (106)
20-750-MFOC-3K2	3200 (126)
20-750-MFOC-4K0	4000 (157)
20-750-MFOC-4K6	4600 (181)
20-750-MFOC-5K4	5400 (213)
20-750-MFOC-6K0	6000 (236)
20-750-MFOC-6K8	6800 (268)
20-750-MFOC-7K4	7400 (291)
20-750-MFOC-7K8	7800 (307)
20-750-MFOC-8K3	8300 (327)

(1) Included with frames 8…15 LCL filter module for connection to the adjoining converter power module.
(2) Included with frame 7, LCL filter module for connection to the converter power module.

These tables provide the quantity of each fiber-optic kit and cable length required for each equivalent frame size and product.

Frame 7 Regenerative and Low Harmonic Drive

Connection	Cat. No. / Cable Length in mm (in.)	
	20-750-MFOC-2K0	20-750-MFOC-2K2
	2000 (79)	2200 (87)
AC Precharge Control Board to Control Pod (ACP0)	—	1
Line Side Converter Power Module to Control Pod (L0)	1	—
Motor Side Inverter Power Module to Control Pod (M0)	1	—
Torque Accuracy Module to Control Pod (TAM - Optional)	—	1

Frame 7 Regenerative Bus Supply

Connection	Cat. No. / Length in mm (in.)	
	20-750-MF0C-2K0	20-750-MF0C-2K2
	2000 (79)	2200 (87)
AC Precharge Control Board to Control Pod (ACP0)	—	1
Line Side Converter Power Module to Control Pod (L0)	1	—

Frame 8 Regenerative and Low Harmonic Drive, Left-to-Right Orientation

Connection	Cat. No. / Cable Length in mm (in.)		
	20-750-MF0C-1K5	20-750-MF0C-2K2	20-750-MF0C-3K2
	1500 (59)	2200 (87)	3200 (126)
AC Precharge Control Board to Control Pod (ACP0)	1	—	—
Power Module to Control Pod (L0, M0)	—	2	—
Torque Accuracy Module to Control Pod (TAM -Optional)	—	—	1

Frame 8 Regenerative and Low Harmonic Drive, Right-to-Left Orientation

Connection	Cat. No. / Cable Length in mm (in.)	
	20-750-MF0C-1K5	20-750-MF0C-3K2
	1500 (59)	3200 (126)
AC Precharge Control Board to Control Pod (ACP0)	1	—
Power Module to Control Pod (L0, M0)	—	2
Torque Accuracy Module to Control Pod (TAM - Optional)	—	1

Frame 8 Regenerative Bus Supply, Left-to-Right Orientation

Connection	Cat. No. / Cable Length in mm (in.)	
	20-750-MF0C-1K5	20-750-MF0C-2K0
	1500 (59)	2000 (79)
AC Precharge Control Board to Control Pod (ACP0)	1	—
Power Module to Control Pod (L0)	—	1

Frame 8 Regenerative Bus Supply, Right-to-Left Orientation

Connection	Cat. No. / Cable Length in mm (in.)	
	20-750-MF0C-1K5	20-750-MF0C-3K2
	1500 (59)	3200 (126)
AC Precharge Control Board to Control Pod (ACP0)	1	—
Power Module to Control Pod (L0)	—	1

Frame 8 Common Bus Inverter

Connection	Cat. No. / Cable Length in mm (in.)	
	20-750-MF0C-2K2	20-750-MF0C-3K2
	2200 (87)	3200 (126)
Power Module to First Control Pod - Upper Location (M0)	1	—
Power Module to Second Control Pod - Lower Location (M0)	—	1
Torque Accuracy Module to First Control Pod - Upper Location (TAM - Optional)	1	—
Torque Accuracy Module to Second Control Pod - Lower Location (TAM - Optional)	—	1

Frame 9 Regenerative and Low Harmonic Drive, Left-to-Right Orientation

Connection	Cat. No. / Cable Length in mm (in.)			
	20-750-MF0C-1K5	20-750-MF0C-2K2	20-750-MF0C-3K2	20-750-MF0C-4K0
	1500 (59)	2200 (87)	3200 (126)	4000 (157)
AC Precharge Control Board to Control Pod (ACP0)	1	—	—	—
Power Module to Control Pod (L0, L1, M0, M1)	—	1	3	—
Torque Accuracy Module to Control Pod (TAM - Optional)	—	—	—	1

Frame 9 Regenerative and Low Harmonic Drive, Right-to-Left Orientation

Connection	Cat. No. / Cable Length in mm (in.)			
	20-750-MF0C-1K5	20-750-MF0C-3K2	20-750-MF0C-4K0	20-750-MF0C-5K4
	1500 (59)	3200 (126)	4000 (157)	5400 (213)
AC Precharge Control Board to Control Pod (ACP0)	1	—	—	—
Power Module to Control Pod (L0, L1, M0, M1)	—	1	2	1
Torque Accuracy Module to Control Pod (TAM - Optional)	—	—	1	—

Frame 9 Regenerative Bus Supply, Left-to-Right Orientation

Connection	Cat. No. / Cable Length in mm (in.)		
	20-750-MF0C-1K5	20-750-MF0C-2K2	20-750-MF0C-3K2
	1500 (59)	2200 (87)	3200 (126)
AC Precharge Control Board to Control Pod (ACP0)	1	—	—
Power Module to Control Pod (L0, L1)	—	1	1

Frame 9 Regenerative Bus Supply, Right-to-Left Orientation

Connection	Cat. No. / Cable Length in mm (in.)		
	20-750-MF0C-1K5	20-750-MF0C-3K2	20-750-MF0C-4K0
	1500 (59)	3200 (126)	4000 (157)
AC Precharge Control Board to Control Pod (ACP0)	1	—	—
Power Module to Control Pod (L0, L1)	—	1	1

Frame 9 Common Bus Inverter

Connection	Cat. No. / Cable Length in mm (in.)	
	20-750-MF0C-2K2	20-750-MF0C-3K2
	2200 (87)	3200 (126)
Power Module to First Control Pod - Upper Location (M0, M1)	2	—
Power Module to Second Control Pod - Lower Location (M0, M1)	—	2
Torque Accuracy Module to First Control Pod - Upper Location (TAM - Optional)	—	1
Torque Accuracy Module to Second Control Pod - Lower Location (TAM - Optional)	—	1

Frame 10 Regenerative and Low Harmonic Drive, Left-to-Right Orientation

Connection	Cat. No. / Cable Length in mm (in.)				
	20-750-MFOC-1K5	20-750-MFOC-2K2	20-750-MFOC-3K2	20-750-MFOC-4K0	20-750-MFOC-5K4
	1500 (59)	2200 (87)	3200 (126)	4000 (157)	5400 (213)
AC Precharge Control Board to Control Pod (ACP0)	1		—	—	—
Power Module to Control Pod (L0…L2, M0…M2)	—	1	1	3	1
Torque Accuracy Module to Control Pod (TAM - Optional)	—	—	—	—	1

Frame 10 Regenerative and Low Harmonic Drive, Right-to-Left Orientation

Connection	Cat. No. / Cable Length in mm (in.)					
	20-750-MFOC-1K5	20-750-MFOC-2K0	20-750-MFOC-2K2	20-750-MFOC-3K2	20-750-MFOC-4K0	20-750-MFOC-5K4
	1500 (59)	2000 (79)	2200 (87)	3200 (126)	4000 (157)	5400 (213)
AC Precharge Control Board to Control Pod (ACP0)	1	—	—	—	—	—
Power Module to Control Pod (L0…L2, M0…M2)	—	1	1	2	2	—
Torque Accuracy Module to Control Pod (TAM - Optional)	—	—	—	—	—	1

Frame 10 Regenerative Bus Supply, Left-to-Right Orientation

Connection	Cat. No. / Cable Length in mm (in.)			
	20-750-MFOC-1K5	20-750-MFOC-2K2	20-750-MFOC-3K2	20-750-MFOC-4K0
	1500 (59)	2200 (87)	3200 (126)	4000 (157)
AC Precharge Control Board to Control Pod (ACP0)	1	—	—	—
Power Module to Control Pod (L0…L2)	—	1	1	1

Frame 10 Regenerative Bus Supply, Right-to-Left Orientation

Frame	Cat. No. / Cable Length in mm (in.)			
	20-750-MFOC-1K5	20-750-MFOC-2K0	20-750-MFOC-2K2	20-750-MFOC-3K2
	1500 (59)	2000 (79)	2200 (87)	3200 (126)
AC Precharge Control Board to Control Pod (ACP0)	1	—	—	—
Power Module to Control Pod (L0…L2)	—	1	1	1

Frame 10 Common Bus Inverter

Connection	Cat. No. / Cable Length in mm (in.)		
	20-750-MFOC-2K2	20-750-MFOC-3K2	20-750-MFOC-4K0
	2200 (87)	3200 (126)	4000 (157)
Power Module to First Control Pod - Upper Location (M0…M2)	3	—	—
Power Module to Second Control Pod - Lower Location (M0…M2)	—	2	1
Torque Accuracy Module to First Control Pod - Upper Location (TAM - Optional)	—	1	—
Torque Accuracy Module to Second Control Pod - Lower Location (TAM - Optional)	—	1	—

Frame 11 Regenerative and Low Harmonic Drive, Left-to-Right Orientation

Connection	Cat. No. / Cable Length in mm (in.)					
	20-750-MFOC-1K5	20-750-MFOC-2K2	20-750-MFOC-3K2	20-750-MFOC-4K0	20-750-MFOC-5K4	20-750-MFOC-6K0
	1500 (59)	2200 (87)	3200 (126)	4000 (157)	5400 (213)	6000 (236)
AC Precharge Control Board to Control Pod (ACP0)	1	—	—	—	—	—
Power Module to Control Pod (L0…L3, M0…M3)	—	1	1	4	2	—
Torque Accuracy Module to Control Pod (TAM - Optional)	—	—	—	—	—	1

Frame 11 Regenerative and Low Harmonic Drive, Right-to-Left Orientation

Connection	Cat. No. / Cable Length Usage, mm (in.)						
	20-750-MFOC-1K5	20-750-MFOC-2K0	20-750-MFOC-2K2	20-750-MFOC-3K2	20-750-MFOC-4K0	20-750-MFOC-5K4	20-750-MFOC-6K0
	1500 (59)	2000 (79)	2200 (87)	3200 (126)	4000 (157)	5400 (213)	6000 (236)
AC Precharge Control Board to Control Pod (ACP0)	1	—	—	—	—	—	—
Power Module to Control Pod (L0…L3, M0…M3)	—	1	1	1	3	2	—
Torque Accuracy Module to Control Pod (TAM - Optional)	—	—	—	—	—	—	1

Frame 11 Regenerative Bus Supply, Left-to-Right Orientation

Connection	Cat. No. / Cable Length Usage, mm (in.)			
	20-750-MFOC-1K5	20-750-MFOC-2K2	20-750-MFOC-3K2	20-750-MFOC-4K0
	1500 (59)	2200 (87)	3200 (126)	4000 (157)
AC Precharge Control Board to Control Pod (ACP0)	1	—	—	—
Power Module to Control Pod (L0…L3)	—	1	1	2

Frame 11 Regenerative Bus Supply, Right-to-Left Orientation

Connection	Cat. No. / Cable Length Usage, mm (in.)				
	20-750-MFOC-1K5	20-750-MFOC-2K0	20-750-MFOC-2K2	20-750-MFOC-3K2	20-750-MFOC-4K0
	1500 (59)	2000 (79)	2200 (87)	3200 (126)	4000 (157)
AC Precharge Control Board to Control Pod (ACP0)	1	—	—	—	—
Power Module to Control Pod (L0…L3)	—	1	1	1	1

Frame 11 Common Bus Inverter

Connection	Cat. No. / Cable Length Usage, mm (in.)		
	20-750-MFOC-2K2	20-750-MFOC-3K2	20-750-MFOC-4K0
	2200 (87)	3200 (126)	4000 (157)
Power Module to First Control Pod - Upper Location (M0…M3)	2	2	—
Power Module to Second Control Pod - Lower Location (M0…M3)	—	2	2
Torque Accuracy Module to First Control Pod - Upper Location (TAM - Optional)	—	—	1
Torque Accuracy Module to Second Control Pod - Lower Location (TAM - Optional)	—	—	1

Frame 12 Regenerative and Low Harmonic Drive, Left-to-Right Orientation

Connection	Cat. No. / Cable Length Usage, mm (in.)						
	20-750-MF0C-1K5	20-750-MF0C-2K2	20-750-MF0C-3K2	20-750-MF0C-4K0	20-750-MF0C-5K4	20-750-MF0C-6K0	20-750-MF0C-6K8
	1500 (59)	2200 (87)	3200 (126)	4000 (157)	5400 (213)	6000 (236)	6800 (268)
AC Precharge Control Board to Control Pod (ACP0)	1	—	—	—	—	—	—
Power Module to Control Pod (L0…L4, M0…M4)	—	1	1	2	3	3	—
Torque Accuracy Module to Control Pod (TAM - Optional)	—	—	—	—	—	—	1

Frame 12 Regenerative and Low Harmonic Drive, Right-to-Left Orientation

Connection	Cat. No. / Cable Length Usage, mm (in.)						
	20-750-MF0C-1K5	20-750-MF0C-2K0	20-750-MF0C-2K2	20-750-MF0C-3K2	20-750-MF0C-4K0	20-750-MF0C-5K4	20-750-MF0C-6K8
	1500 (59)	2000 (79)	2200 (87)	3200 (126)	4000 (157)	5400 (213)	6800 (268)
AC Precharge Control Board to Control Pod (ACP0)	1	—	—	—	—	—	—
Power Module to Control Pod (L0…L4, M0…M4)	—	1	1	1	2	5	—
Torque Accuracy Module to Control Pod (TAM - Optional)	—	—	—	—	—	—	1

Frame 12 Regenerative Bus Supply, Left-to-Right Orientation

Connection	Cat. No. / Cable Length Usage, mm (in.)				
	20-750-MF0C-1K5	20-750-MF0C-2K2	20-750-MF0C-3K2	20-750-MF0C-4K0	20-750-MF0C-5K4
	1500 (59)	2200 (87)	3200 (126)	4000 (157)	5400 (213)
AC Precharge Control Board to Control Pod (ACP0)	1	—	—	—	—
Power Module to Control Pod (L0…L4)	—	1	1	2	1

Frame 12 Regenerative Bus Supply, Right-to-Left Orientation

Connection	Cat. No. / Cable Length Usage, mm (in.)				
	20-750-MF0C-1K5	20-750-MF0C-2K0	20-750-MF0C-2K2	20-750-MF0C-3K2	20-750-MF0C-4K0
	1500 (59)	2000 (79)	2200 (87)	3200 (126)	4000 (157)
AC Precharge Control Board to Control Pod (ACP0)	1	—	—	—	—
Power Module to Control Pod (L0…L4)	—	1	1	1	2

Frame 12 Common Bus Inverter

Connection	Cat. No. / Cable Length Usage, mm (in.)		
	20-750-MF0C-2K2	20-750-MF0C-3K2	20-750-MF0C-4K0
	2200 (87)	3200 (126)	4000 (157)
Power Module to First Control Pod - Upper Location (M0…M4)	3	2	—
Power Module to Second Control Pod - Lower Location (M0…M4)	—	2	3
Torque Accuracy Module to First Control Pod - Upper Location (TAM - Optional)	—	—	1
Torque Accuracy Module to Second Control Pod - Lower Location (TAM - Optional)	—	—	1

Frame 13 Regenerative and Low Harmonic Drive, Back-to-Back Configuration

Connection	Cat. No. / Cable Length Usage, mm (in.)								
	20-750-MF0C-2K0	20-750-MF0C-2K2	20-750-MF0C-2K7	20-750-MF0C-3K2	20-750-MF0C-4K0	20-750-MF0C-4K6	20-750-MF0C-5K4	20-750-MF0C-6K0	20-750-MF0C-6K8
	2000 (79)	2200 (87)	2700 (106)	3200 (126)	4000 (157)	4600 (181)	5400 (213)	6000 (236)	6800 (268)
First AC Precharge Control Board to Control Pod (ACP0)	1	—	—	—	—	—	—	—	—
Second AC Precharge Control Board to Control Pod (ACP1)	—	—	1	—	—	—	—	—	—
Power Module to Control Pod (L0…L5, M0…M5)	—	1	—	1	3	2	3	1	1

Frame 13 Regenerative and Low Harmonic Drive, In-Line Configuration

Connection	Cat. No. / Cable Length Usage, mm (in.)						
	20-750-MF0C-2K0	20-750-MF0C-2K2	20-750-MF0C-3K2	20-750-MF0C-4K0	20-750-MF0C-5K4	20-750-MF0C-6K0	20-750-MF0C-6K8
	2000 (79)	2200 (87)	3200 (126)	4000 (157)	5400 (213)	6000 (236)	6800 (268)
First AC Precharge Control Board to Control Pod (ACP0)	1	—	—	—	—	—	—
Second AC Precharge Control Board to Control Pod (ACP1)	—	—	—	1	—	—	—
Power Module to Control Pod (L0…L5, M0…M5)	—	1	1	3	3	1	3

Frame 13 Regenerative and Low Harmonic Bus Supply, Back-to-Back Configuration

Connection	Cat. No. / Cable Length Usage, mm (in.)						
	20-750-MF0C-2K0	20-750-MF0C-2K2	20-750-MF0C-2K7	20-750-MF0C-3K2	20-750-MF0C-4K0	20-750-MF0C-4K6	20-750-MF0C-5K4
	2000 (79)	2200 (87)	2700 (106)	3200 (126)	4000 (157)	4600 (181)	5400 (213)
First AC Precharge Control Board to Control Pod (ACP0)	1	—	—	—	—	—	—
Second AC Precharge Control Board to Control Pod (ACP1)	—	—	1	—	—	—	—
Power Module to Control Pod (L0…L5)	—	1	—	1	1	2	1

Frame 13 Regenerative and Low Harmonic Bus Supply, In-Line Configuration

Connection	Cat. No. / Cable Length Usage, mm (in.)					
	20-750-MF0C-2K0	20-750-MF0C-2K2	20-750-MF0C-3K2	20-750-MF0C-4K0	20-750-MF0C-5K4	20-750-MF0C-6K0
	2000 (79)	2200 (87)	3200 (126)	4000 (157)	5400 (213)	6000 (236)
First AC Precharge Control Board to Control Pod (ACP0)	1	—	—	—	—	—
Second AC Precharge Control Board to Control Pod (ACP1)	—	—	—	1	—	—
Power Module to Control Pod (L0…L5)	—	1	1	1	2	1

Frame 13 Common Bus Inverter, Back-to-Back Configuration

Connection	Cat. No. / Cable Length Usage, mm (in.)			
	20-750-MF0C-2K2	20-750-MF0C-3K2	20-750-MF0C-4K0	20-750-MF0C-4K6
	2200 (87)	3200 (126)	4000 (157)	4600 (181)
Power Module to Control Pod (M0…M5)	3	—	1	2
Torque Accuracy Module to Control Pod (TAM - Optional)	—	1	—	—

Frame 14 Regenerative and Low Harmonic Drive, Back-to-Back Configuration

Connection	Cat. No. / Cable Length Usage, mm (in.)								
	20-750-MFOC-2K0	20-750-MFOC-2K2	20-750-MFOC-2K7	20-750-MFOC-3K2	20-750-MFOC-4K0	20-750-MFOC-4K6	20-750-MFOC-5K4	20-750-MFOC-6K0	20-750-MFOC-6K8
	2000 (79)	2200 (87)	2700 (106)	3200 (126)	4000 (157)	4600 (181)	5400 (213)	6000 (236)	6800 (268)
First AC Precharge Control Board to Control Pod (ACP0)	1	—	—	—	—	—	—	—	—
Second AC Precharge Control Board to Control Pod (ACP1)	—	—	1	—	—	—	—	—	—
Power Module to Control Pod (L0…L7, M0…M7)	—	1	—	1	4	2	4	2	2

Frame 14 Regenerative and Low Harmonic Drive, In-Line Configuration

Connection	Cat. No. / Cable Length Usage, mm (in.)								
	20-750-MFOC-2K0	20-750-MFOC-2K2	20-750-MFOC-3K2	20-750-MFOC-4K0	20-750-MFOC-5K4	20-750-MFOC-6K0	20-750-MFOC-6K8	20-750-MFOC-7K4	20-750-MFOC-7K8
	2000 (79)	2200 (87)	3200 (126)	4000 (157)	5400 (213)	6000 (236)	6800 (268)	7400 (291)	7800 (307)
First AC Precharge Control Board to Control Pod (ACP0)	1	—	—	—	—	—	—	—	—
Second AC Precharge Control Board to Control Pod (ACP1)	—	—	—	1	—	—	—	—	—
Power Module to Control Pod (L0…L7, M0…M7)	—	1	1	4	4	1	3	1	1

Frame 14 Regenerative and Low Harmonic Bus Supply, Back-to-Back Configuration

Connection	Cat. No. / Cable Length Usage, mm (in.)						
	20-750-MFOC-2K0	20-750-MFOC-2K2	20-750-MFOC-2K7	20-750-MFOC-3K2	20-750-MFOC-4K0	20-750-MFOC-4K6	20-750-MFOC-5K4
	2000 (79)	2200 (87)	2700 (106)	3200 (126)	4000 (157)	4600 (181)	5400 (213)
First AC Precharge Control Board to Control Pod (ACP0)	1	—	—	—	—	—	—
Second AC Precharge Control Board to Control Pod (ACP1)	—	—	1	—	—	—	—
Power Module to Control Pod (L0…L7)	—	1	—	1	2	2	2

Frame 14 Regenerative and Low Harmonic Bus Supply, In-Line Configuration

Connection	Cat. No. / Cable Length Usage, mm (in.)						
	20-750-MFOC-2K0	20-750-MFOC-2K2	20-750-MFOC-3K2	20-750-MFOC-4K0	20-750-MFOC-5K4	20-750-MFOC-6K0	20-750-MFOC-6K8
	2000 (79)	2200 (87)	3200 (126)	4000 (157)	5400 (213)	6000 (236)	6800 (268)
First AC Precharge Control Board to Control Pod (ACP0)	1	—	—	—	—	—	—
Second AC Precharge Control Board to Control Pod (ACP1)	—	—	—	1	—	—	—
Power Module to Control Pod (L0…L7)	—	1	1	2	2	1	1

Frame 14 Common Bus Inverter, Back-to-Back Configuration

Connection	Cat. No. / Cable Length Usage, mm (in.)				
	20-750-MFOC-2K2	20-750-MFOC-3K2	20-750-MFOC-4K0	20-750-MFOC-4K6	20-750-MFOC-5K4
	2200 (87)	3200 (126)	4000 (157)	4600 (181)	5400 (213)
Power Module to Control Pod (M0…M7)	2	2	—	2	2
Torque Accuracy Module to Control Pod (TAM - Optional)	—	—	1	—	—

Frame 15 Regenerative and Low Harmonic Drive, Back-to-Back Configuration

Connection	Cat. No. / Cable Length Usage, mm (in.)									
	20-750-MF0C-2K0	20-750-MF0C-2K2	20-750-MF0C-2K7	20-750-MF0C-3K2	20-750-MF0C-4K0	20-750-MF0C-4K6	20-750-MF0C-5K4	20-750-MF0C-6K0	20-750-MF0C-6K8	20-750-MF0C-7K4
	2000 (79)	2200 (87)	2700 (106)	3200 (126)	4000 (157)	4600 (181)	5400 (213)	6000 (236)	6800 (268)	7400 (291)
First AC Precharge Control Board to Control Pod (ACP0)	1	—	—	—	—	—	—	—	—	—
Second AC Precharge Control Board to Control Pod (TAM)	—	—	1	—	—	—	—	—	—	—
Power Module to Control Pod (L0…L9, M0…M9)	—	1	—	1	2	2	5	4	2	3

Frame 15 Regenerative and Low Harmonic Drive, In-Line Configuration

Connection	Cat. No. / Cable Length Usage, mm (in.)									
	20-750-MF0C-2K0	20-750-MF0C-2K2	20-750-MF0C-3K2	20-750-MF0C-4K0	20-750-MF0C-5K4	20-750-MF0C-6K0	20-750-MF0C-6K8	20-750-MF0C-7K4	20-750-MF0C-7K8	20-750-MF0C-8K3
	2000 (79)	2200 (87)	3200 (126)	4000 (157)	5400 (213)	6000 (236)	6800 (268)	7400 (291)	7800 (307)	8300 (327)
First AC Precharge Control Board to Control Pod (ACP0)	1	—	—	—	—	—	—	—	—	—
Second AC Precharge Control Board to Control Pod (ACP1)	—	—	—	1	—	—	—	—	—	—
Power Module to Control Pod (L0…L9, M0…M9)	—	1	1	2	5	4	2	2	1	2

Frame 15 Regenerative and Low Harmonic Bus Supply, Back-to-Back Configuration

Connection	Cat. No. / Cable Length Usage, mm (in.)							
	20-750-MF0C-2K0	20-750-MF0C-2K2	20-750-MF0C-2K7	20-750-MF0C-3K2	20-750-MF0C-4K0	20-750-MF0C-4K6	20-750-MF0C-5K4	20-750-MF0C-6K0
	2000 (79)	2200 (87)	2700 (106)	3200 (126)	4000 (157)	4600 (181)	5400 (213)	6000 (236)
First AC Precharge Control Board to Control Pod (ACP0)	1	—	—	—	—	—	—	—
Second AC Precharge Control Board to Control Pod (ACP1)	—	—	1	—	—	—	—	—
Power Module to Control Pod (L0…L9)	—	1	—	1	2	2	3	1

Frame 15 Regenerative and Low Harmonic Bus Supply, In-Line Configuration

Connection	Cat. No. / Cable Length Usage, mm (in.)							
	20-750-MF0C-2K0	20-750-MF0C-2K2	20-750-MF0C-2K7	20-750-MF0C-3K2	20-750-MF0C-4K0	20-750-MF0C-5K4	20-750-MF0C-6K0	20-750-MF0C-6K8
	2000 (79)	2200 (87)	2700 (106)	3200 (126)	4000 (157)	5400 (213)	6000 (236)	6800 (268)
First AC Precharge Control Board to Control Pod (ACP0)	1	—	—	—	—	—	—	—
Second AC Precharge Control Board to Control Pod (ACP1)	—	—	1	—	—	—	—	—
Power Module to Control Pod (L0…L9)	—	1	—	1	2	3	1	2

Frame 15 Common Bus Inverter, Back-to-Back Configuration

Connection	Cat. No. / Cable Length Usage, mm (in.)				
	20-750-MF0C-2K2	20-750-MF0C-3K2	20-750-MF0C-4K0	20-750-MF0C-4K6	20-750-MF0C-5K4
	2200 (87)	3200 (126)	4000 (157)	4600 (181)	5400 (213)
Power Module to Control Pod (M0…M9)	3	2	—	2	3
Torque Accuracy Module to Control Pod (TAM - Optional)	—	—	1	—	—

L-Bracket Bus Bar Terminal

Cat. No.	Material	Quantity per Equivalent Frame Size							
		8	9	10	11	12	13(2)	14(2)	15(2)
20-750-MLBRKT-F8M(1)	Aluminum	—	6 (2 per phase)	6 (2 per phase)	12 (4 per phase)	12 (4 per phase)	12 (2 per phase)	24 (4 per phase)	24 (4 per phase)

(1) Up to four lugs can be attached to a single L-bracket:
(2) Frames 13, 14, and 15 drives and bus supplies require two wire entry bays and two sets of AC input bus bars. The same number of L-brackets must be installed in each entry wire bay and on each input phase.

AC Precharge Control Boards

Cat. No.	Voltage	Frame Size	System Control Power Consumption *Amps*
20-750-MACPC1-CD-F7M	400/480	7	240V AC Supply: 2.0 24V DC Supply: 1.1
20-750-MACPC1-EF-F7M	600/690		
20-750-MACPC1-CD	400/480	8…15	240V AC Supply: 1.2 24V DC Supply: 1.5
20-750-MACPC1-EF	600/690		

Fiber Transceiver Board

Cat. No.	Voltage	Frame Size	Drive Quantity	Bus Supply Quantity	Common Bus Inverter Quantity	Common Bus Inverter with TAM Quantity
20-750-MFTB1-F8	400/480/600/690	7	2	2	—	—
		8	2	2	1	2
		9	3	3	1	2
		10	5	4	2	3
		11	5	4	2	3
		12	6	5	3	4
		13	5	5	4	5
		14	6	6	5	6
		15	7	7	6	7

Torque Accuracy Modules (TAM)

Cat. No.	Voltage	Frame Size	System Control Power Consumption *Amps*
20-750-MTAM1-CD	400/480	8…15	240V AC Supply: 0.2 24V DC Supply: 0.2
20-750-MTAM1-EF	600/690		

EMC C2 Filter Kits (1)

Cat. No.	Kit Description	Required for Equivalent Frame Size	Voltage Rating	Product Rating (ND) *Amps* (7)
20-750-MEMCC2-IPBB (2)	EMC C2 Filter Input Bus Bars	8…10	600/690	237…2156
20-750-MEMCC2-F8910 (3)	EMC C2 Filter	8…10	600/690	237…2156
20-750-MEMCC2-F8 (4)	EMC C2 Filter Output Bus Bars	8	600/690	237…770
20-750-MEMCC2-F9 (5)	EMC C2 Filter Output Bus Bars	9	600/690	640…1685
20-750-MEMCC2-F10 (6)	EMC C2 Filter Output Bus Bars	10	600/690	1045…2156

(1) These kits must be installed in the PowerFlex 750TM EMC C2 filter wire bay (cat. no. 20-750-MPBAY-800). See PowerFlex 750TM EMC C2 Filter Wire Bay and Required Accessories on page 111. See the PowerFlex 755TM IP00 Open Type Kits Installation Instructions, publication 750-IN101, for details.
(2) This kit includes a ground bus bar that must be installed in the wire bay to meet EMC C2 compliance for conducted emissions.
(3) This kit includes three ferrite cores and the hardware required for connecting to the EMC C2 bus bar kits included in this table.
(4) To meet EMC C2 compliance for conducted emissions, the plastic airflow baffle and ground cable (included with this kit) and the frame 8 AC input bus bar assembly (20-750-MCNCTAC-F8) must be installed with this kit.
(5) To meet EMC C2 compliance for conducted emissions, the plastic airflow baffle and ground bus splice (included with this kit) and the frame 9 AC input bus bar assembly (20-750-MCNCTAC-F9) must be installed with this kit.

(6) To meet EMC C2 compliance for conducted emissions, the ground bus splice (included with this kit) and the frame 10…12, 1000 mm wide AC input bus bars (20-750-MACBUS10-3K0 or 20-750-MACBUS10-4K7) must be installed with this kit.
(7) See LCL Filter and Power Module Selection on page 82, for catalog numbers applicable to the equivalent frame size.

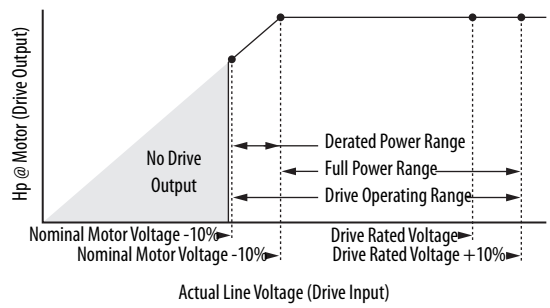
Equipment Handling

Cat. No.	Description	Reference Publication
20-750-MCART1 and 20-750-MCART2	Power / LCL filter module service cart and DC precharge module lift	750-IN105
20-750-MINV-ATIP	Power / LCL filter module storage hardware	750-IN106
20-750-MRAMP1	Power module service ramp	750-IN108

Design Considerations

Input Voltage Tolerance

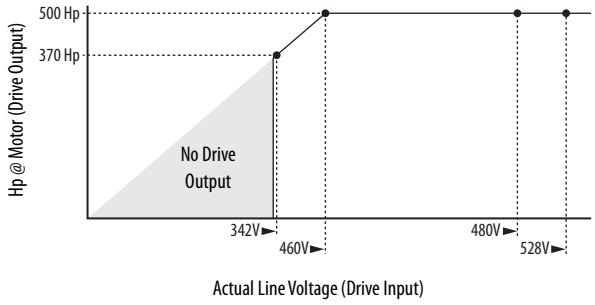
Drive Rating	Nominal Line Voltage	Nominal Motor Voltage	Drive Full Power Range	Drive Operating Range
380…480	380	380	380…528	348…528V
	400	400	400…528	
	480	460	460…528	
600…690	600	575	575…759	542…759V
	690	660	660…759	
Drive Full Power Range =	Nominal Motor Voltage to Drive Rated Voltage + 10%. Rated current is available across the entire Drive Full-power Range			
Drive Operating Range =	Lowest Nominal Motor Voltage - 10% to Drive Rated Voltage + 10%. Drive Output is linearly derated when Actual Line Voltage is less than the Nominal Motor Voltage			



EXAMPLE Calculate the maximum power of a 500 Hp, 460V motor connected to a 480V rated drive supplied with 342V Actual Line Voltage input.

- Actual Line Voltage / Nominal Motor Voltage = 74.3%
- 74.3% x 500 Hp = 370 Hp
- 74.3% x 60 Hz = 44.6 Hz

At 342V Actual Line Voltage, the maximum power the 500 Hp, 460V motor can produce is 370 Hp at 44.6 Hz.



IMPORTANT For maximum protection of the drive and its internal components, Rockwell Automation requires the use of fast acting semiconductor fuses to other methods of circuit protection to remain in compliance, at least from module perspective, with agency evaluation. This method reduces risk of drive damage from power quality events, and improves machine and process utilization, thus maximizing productivity. See the Fuse and Circuit Breaker Ratings section in publication 750-TD100 for more information that is based on equivalent standard enclosed products.

Control Circuitry Load

These examples represent the typical control-circuitry current load present in an equivalent frame size of PowerFlex 755T enclosed products. The current loads that are identified in the tables are used to calculate the total ampacity and rating of the fuses that are used to help protect the control circuits of these modules. The total ampacity cannot exceed the maximum rating of the customer-sourced control power circuit fuse.

This is an example of a frame 7 drive with an IP21/IP54 rating.

Frame 7, IP21/IP54 Drive

Quantity / Power Source	Power Bay							
	Control Pod	Power Supply Bulletin 1606	AC Precharge Control Board	AC Precharge Circuit Breaker and Time Delay Relay	AC Precharge Contactor	LCL Filter Module	Converter Power Module	Inverter Power Module
Quantity	1	1	1	1	1	1	1	1
Current at 240V AC (Amp)	—	1.0	2.0	1.5(3)	0.5(3)	2.9	2.9	2.9
Current at 24V DC (Amp)	7.2(2)	—	1.1(2)	—	—	0.9(4)	—	—
Aux Current at 24V DC (Amp)(1)	7.2	—	1.1	—	—	—	1.4	1.4

(1) This control power source is optional.
(2) This control power source is provided by a Bulletin 1606 power supply.
(3) This control power source is provided by the AC precharge control circuit board.
(4) This control power source is provided by the connected power module.

This is an example of a frame 7 bus supply with an IP21/IP54 rating.

Frame 7, IP21/IP54 Bus Supply

Quantity / Power Source	Power Bay						
	Control Pod	Power Supply Bulletin 1606	AC Precharge Control Board	AC Precharge Circuit Breaker and Time Delay Relay	AC Precharge Contactor	LCL Filter Module	Converter Power Module
Quantity	1	1	1	1	1	1	1
Current at 240V AC (Amp)	—	1.0	2.0	1.5(3)	0.5(3)	2.9	2.9
Current at 24V DC (Amp)	7.2(2)	—	1.1(2)	—	—	0.9(4)	—
Aux Current at 24V DC (Amp)(1)	7.2	—	1.1	—	—	—	1.4

(1) This control power source is optional.
(2) This control power source is provided by a Bulletin 1606 power supply.
(3) This control power source is provided by the AC precharge control circuit board.
(4) This control power source is provided by the connected power module.

This frame 8 example represents a bus supply combined with a common bus inverter with a DC precharge module, control bay and exit wire bay, and an IP21 rating.

Frame 8, IP21 Bus Supply and Common Bus Inverter

Quantity / Power Source	Input Bay				Converter Power Bay		Control Bay		Inverter Power Bay			Exit Wire Bay
	Roof Fan	Control Pod	Power Supply Bulletin 1606	ACPC Module (2)	Power Module	LCL Filter Module	Roof Fan	Control Pod	Power Module	DCPC Module(4)	Torque Accuracy Module (4)	Door Fan
Quantity	1	1	1	1	1	1	1	1	1	1	1	1
Current at 240V AC (Amp)	0.3	—	0.35	2.0	2.9	2.9	0.3	—	2.9	2.0	0.2(5)	0.3
Current at 24V DC (Amp)	—	5.2	—	1.1	—	0.9(3)	—	5.2	—	0.5(3)	—	—
Aux Current at 24V DC (Amp)(1)	—	5.2	—	1.1	1.4	—	—	5.2	1.4	—	0.2(5)	—

(1) This control power source is optional.
(2) Includes an AC precharge control board, circuit breaker, time delay relay, and contactor.
(3) This control power source is provided by the connected power module.
(4) This module is optional.
(5) This value is the current load for either a 240V AC or auxiliary 24V DC control power source. Only one control power source is required.

This frame 8 example represents a bus supply combined with a common bus inverter with a DC precharge module, control bay and exit wire bay, and an IP54 rating.

Frame 8, IP54 Bus Supply and Common Bus Inverter

Quantity / Power Source	Input Bay				Converter Power Bay			Control Bay		Inverter Power Bay				Wire Bay (Entry / Exit) Fan
	Roof Fan	Control Pod	Power Supply Bulletin 1606	ACPC Module(2)	Power Module	LCL Filter Module	IP54 Vent Fan	Roof Fan	Control Pod	Power Module	DCPC Module(4)	Torque Accuracy Module(4)	IP54 Vent Fan	
Quantity	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Current at 240V AC (Amp)	0.3	—	0.35	2.0	2.9	2.9	2.0	0.3	—	2.9	2.0	0.2(5)	2.0	0.3
Current at 24V DC (Amp)	—	5.2	—	1.1	—	0.9(3)	—	—	5.2	—	0.5(3)	—	—	—
Aux Current at 24V DC (Amp)(1)	—	5.2	—	1.1	1.4	—	—	—	5.2	1.4	—	0.2(5)	—	—

(1) This control power source is optional.
(2) Includes an AC precharge control board, circuit breaker, time delay relay, and contactor.
(3) This control power source is provided by the connected power module.
(4) This module is optional.
(5) This value is the current load for either a 240V AC or auxiliary 24V DC control power source. Only one control power source is required.

This frame 9 example represents a bus supply combined with a common bus inverter with DC precharge modules, control bay and exit wire bay (with measured current), and an IP21 rating.

Frame 9, IP21 Bus Supply and Common Bus Inverter

Quantity / Power Source	Input Bay				Converter Power Bay		Control Bay		Inverter Power Bay			Wire Bay (Entry / Exit) Fan
	Roof Fan	Control Pod	Power Supply Bulletin 1606	ACPC Module(2)	Power Module	LCL Filter Module	Roof Fan	Control Pod	Power Module	DCPC Module(4)	Torque Accuracy Module(4)	
Quantity	1	1	1	1	2	1	1	1	2	2	1	1
Current at 240V AC (Amp)	0.3	—	0.35	2.0	5.8	2.9	0.3	—	5.8	4.0	0.2(5)	0.4
Current at 24V DC (Amp)	—	5.2	—	1.1	—	0.9(3)	—	5.2	—	1.0(3)	—	—
Aux Current at 24V DC (Amp)(1)	—	5.2	—	1.1	2.8	—	—	5.2	2.8	—	0.2(5)	—

(1) This control power source is optional.
(2) Includes an AC precharge control board, circuit breaker, time delay relay, and contactor.
(3) This control power source is provided by the connected power module.
(4) This module is optional.
(5) This value is the current load for either a 240V AC or auxiliary 24V DC control power source. Only one control power source is required.

This frame 9 example represents a bus supply combined with a common bus inverter with DC precharge modules, control bay and exit wire bay (with measured current), and an IP54 rating.

Frame 9, IP54 Bus Supply and Common Bus Inverter

Quantity / Power Source	Input Bay				Converter Power Bay			Control Bay		Inverter Power Bay				Wire Bay (Entry / Exit) Fan
	Roof Fan	Control Pod	Power Supply Bulletin 1606	ACPC Module(2)	Power Module	LCL Filter Module	IP54 Vent Fan	Roof Fan	Control Pod	Power Module	DCPC Module(4)	Torque Accuracy Module(4)	IP54 Vent Fan	
Quantity	1	1	1	1	2	1	2	1	1	2	2	1	1	1
Current at 240V AC (Amp)	0.3	—	0.35	2.0	5.8	2.9	4.0	0.3	—	5.8	4.0	0.2(5)	2.0	0.4
Current at 24V DC (Amp)	—	5.2	—	1.1	—	0.9(3)	—	—	5.2	—	1.0(3)	—	—	—
Aux Current at 24V DC (Amp)(1)	—	5.2	—	1.1	2.8	—	—	—	5.2	2.8	—	0.2(5)	—	—

(1) This control power source is optional.
(2) Includes an AC precharge control board, circuit breaker, time delay relay, and contactor.
(3) This control power source is provided by the connected power module.
(4) This module is optional.
(5) This value is the current load for either a 240V AC or auxiliary 24V DC control power source. Only one control power source is required.

This frame 10 example represents a bus supply combined with a common bus inverter with DC precharge modules, control bay and exit wire bay (with measured current), and an IP21 rating.

Frame 10, IP21 Bus Supply and Common Bus Inverter

Quantity / Power Source	Input Bay				Converter Power Bays		Control Bay		Inverter Power Bay			Wire Bay (Entry / Exit) Fan
	Door Fans	Control Pod	Power Supply Bulletin 1606	AC Precharge Devices(2)	Power Module	LCL Filter Module	Roof Fan	Control Pod	Power Module	DCPC Module(4)	Torque Accuracy Module(4)	
Quantity	2	1	2	1	3	2	1	1	3	3	1	1
Current at 240V AC (Amp)	—	—	0.7	2.0	8.7	5.8	0.3	—	8.7	6.0	0.2(5)	0.4
Current at 48V DC (Amp)	6.4	—	—	—	—	—	—	—	—	—	—	—
Current at 24V DC (Amp)	—	5.2	—	1.1	—	1.8(3)	—	5.2	—	1.5(3)	—	—
Aux Current at 24V DC (Amp)(1)	—	5.2	—	1.1	4.2	—	—	5.2	4.2	—	0.2(5)	—

(1) This control power source is optional.
(2) Includes an AC precharge control board, circuit breaker, time delay relay, and contactor.
(3) This control power source is provided by the connected power module.
(4) This module is optional.
(5) This value is the current load for either a 240V AC or auxiliary 24V DC control power source. Only one control power source is required.

This frame 10 example represents a bus supply combined with a common bus inverter with DC precharge modules, control bay and exit wire bay (with measured current), and an IP54 rating.

Frame 10, IP54 Bus Supply and Common Bus Inverter

Quantity / Power Source	Input Bay				Converter Power Bays			Control Bay		Inverter Power Bay				Wire Bay (Entry / Exit) Fan
	Door Fans	Control Pod	Power Supply Bulletin 1606	AC Precharge Devices(2)	Power Module	LCL Filter Module	IP54 Vent Fan	Roof Fan	Control Pod	Power Module	DCPC Module(4)	Torque Accuracy Module(4)	IP54 Vent Fan	
Quantity	2	1	2	1	3	2	3	1	1	3	3	1	2	1
Current at 240V AC (Amp)	—	—	0.7	2.0	8.7	5.8	6.0	0.3	—	8.7	6.0	0.2(5)	4.0	0.4
Current at 48V DC (Amp)	6.4	—	—	—	—	—	—	—	—	—	—	—	—	—
Current at 24V DC (Amp)	—	5.2	—	1.1	—	1.8(3)	—	—	5.2	—	1.5(3)	—	—	—
Aux Current at 24V DC (Amp)(1)	—	5.2	—	1.1	4.2	—	—	—	5.2	4.2	—	0.2(5)	—	—

(1) This control power source is optional.
(2) Includes an AC precharge control board, circuit breaker, time delay relay, and contactor.
(3) This control power source is provided by the connected power module.
(4) This module is optional.
(5) This value is the current load for either a 240V AC or auxiliary 24V DC control power source. Only one control power source is required.

This frame 11 example represents a bus supply combined with a common bus inverter with DC precharge modules, control bay and exit wire bay (with measured current), and an IP21 rating.

Frame 11, IP21 Bus Supply and Common Bus Inverter

Quantity / Power Source	Input Bay				Converter Power Bays		Control Bay		Inverter Power Bays			Wire Bay (Entry / Exit) Fan
	Door Fans	Control Pod	Power Supply Bulletin 1606	AC Precharge Devices(2)	Power Module	LCL Filter Module	Roof Fan	Control Pod	Power Module	DCPC Module(4)	Torque Accuracy Module(4)	
Quantity	2	1	2	1	4	2	1	1	4	4	1	1
Current at 240V AC (Amp)	—	—	0.7	2.0	11.6	5.8	0.3	—	11.6	8.0	0.2(5)	0.4
Current at 48V DC (Amp)	6.4	—	—	—	—	—	—	—	—	—	—	—
Current at 24V DC (Amp)	—	5.2	—	1.1	—	1.8(3)	—	5.2	—	2.0(3)	—	—
Aux Current at 24V DC (Amp)(1)	—	5.2	—	1.1	5.6	—	—	5.2	5.6	—	0.2(5)	—

(1) This control power source is optional.
(2) Includes an AC precharge control board, circuit breaker, time delay relay, and contactor.
(3) This control power source is provided by the connected power module.
(4) This module is optional.
(5) This value is the current load for either a 240V AC or auxiliary 24V DC control power source. Only one control power source is required.

This frame 11 example represents a bus supply combined with a common bus inverter with DC precharge modules, control bay and exit wire bay (with measured current), and an IP54 rating.

Frame 11, IP54 Bus Supply and Common Bus Inverter

Quantity / Power Source	Input Bay				Converter Power Bays			Control Bay		Inverter Power Bays				Wire Bay (Entry / Exit) Fan
	Door Fans	Control Pod	Power Supply Bulletin 1606	AC Precharge Devices(2)	Power Module	LCL Filter Module	IP54 Vent Fan	Roof Fan	Control Pod	Power Module	DCPC Module(4)	Torque Accuracy Module(4)	IP54 Vent Fan	
Quantity	2	1	2	1	4	2	4	1	1	4	4	1	2	1
Current at 240V AC (Amp)	—	—	0.7	2.0	11.6	5.8	8.0	0.3	—	11.6	8.0	0.2(5)	4.0	0.4
Current at 48V DC (Amp)	6.4	—	—	—	—	—	—	—	—	—	—	—	—	—
Current at 24V DC (Amp)	—	5.2	—	1.1	—	1.8(3)	—	—	5.2	—	2.0(3)	—	—	—
Aux Current at 24V DC (Amp)(1)	—	5.2	—	1.1	5.6	—	—	—	5.2	5.6	—	0.2(5)	—	—

(1) This control power source is optional.
(2) Includes an AC precharge control board, circuit breaker, time delay relay, and contactor.
(3) This control power source is provided by the connected power module.
(4) This module is optional.
(5) This value is the current load for either a 240V AC or auxiliary 24V DC control power source. Only one control power source is required.

This frame 12 example represents a bus supply combined with a common bus inverter with DC precharge modules, control bay and exit wire bay (with measured current), and an IP21 rating.

Frame 12, IP21 Bus Supply and Common Bus Inverter

Quantity / Power Source	Input Bay				Converter Power Bays		Control Bay		Inverter Power Bays			Wire Bay (Entry / Exit) Fan
	Door Fans	Control Pod	Power Supply Bulletin 1606	AC Precharge Devices(2)	Power Module	LCL Filter Module	Roof Fan	Control Pod	Power Module	DCPC Module(4)	Torque Accuracy Module(4)	
Quantity	2	1	2	1	5	3	1	1	5	5	1	1
Current at 240V AC (Amp)	—	—	0.7	2.0	14.5	8.7	0.3	—	14.5	10.0	0.2(5)	0.4
Current at 48V DC (Amp)	6.4	—	—	—	—	—	—	—	—	—	—	—
Current at 24V DC (Amp)	—	5.2	—	1.1	—	2.7(3)	—	5.2	—	2.5(3)	—	—
Aux Current at 24V DC (Amp)(1)	—	5.2	—	1.1	7.0	—	—	5.2	7.0	—	0.2(5)	—

(1) This control power source is optional.
(2) Includes an AC precharge control board, circuit breaker, time delay relay, and contactor.
(3) This control power source is provided by the connected power module.
(4) This module is optional.
(5) This value is the current load for either a 240V AC or auxiliary 24V DC control power source. Only one control power source is required.

This frame 12 example represents a bus supply combined with a common bus inverter with DC precharge modules, control bay and exit wire bay (with measured current), and an IP54 rating.

Frame 12, IP54 Bus Supply and Common Bus Inverter

Quantity / Power Source	Input Bay				Converter Power Bays			Control Bay		Inverter Power Bays				Wire Bay (Entry / Exit) Fan
	Door Fans	Control Pod	Power Supply Bulletin 1606	AC Precharge Devices(2)	Power Module	LCL Filter Module	IP54 Vent Fans	Roof Fan	Control Pod	Power Module	DCPC Module(4)	Torque Accuracy Module(4)	IP54 Vent Fans	
Quantity	2	1	2	1	5	3	5	1	1	5	5	1	3	1
Current at 240V AC (Amp)	—	—	0.7	2.0	14.5	8.7	10.0	0.3	—	14.5	10.0	0.2(5)	6.0	0.4
Current at 48V DC (Amp)	6.4	—	—	—	—	—	—	—	—	—	—	—	—	—
Current at 24V DC (Amp)	—	5.2	—	1.1	—	2.7(3)	—	—	5.2	—	2.5(3)	—	—	—
Aux Current at 24V DC (Amp)(1)	—	5.2	—	1.1	7.0	—	—	—	5.2	7.0	—	0.2(5)	—	—

(1) This control power source is optional.
(2) Includes an AC precharge control board, circuit breaker, time delay relay, and contactor.
(3) This control power source is provided by the connected power module.
(4) This module is optional.
(5) This value is the current load for either a 240V AC or auxiliary 24V DC control power source. Only one control power source is required.

This frame 13 example represents a bus supply combined with a common bus inverter with DC precharge modules, and control bay, and an IP21 rating.

Frame 13, IP21 Bus Supply and Common Bus Inverter

Quantity / Power Source	Input Bays				Converter Power Bays		Control Bays		Inverter Power Bays		
	Door Fans	Control Pod	Power Supply Bulletin 1606	AC Precharge Devices(2)	Power Module	LCL Filter Module	Roof Fan	Control Pod	Power Module	DCPC Module(4)	Torque Accuracy Module(4)
Quantity	4	1	4	2	6	4	2	1	6	6	1
Current at 240V AC (Amp)	—	—	1.4	4.0	17.4	11.6	0.6	—	17.4	12.0	0.2(5)
Current at 48V DC (Amp)	12.8	—	—	—	—	—	—	—	—	—	—
Current at 24V DC (Amp)	—	5.2	—	2.2	—	3.6(3)	—	5.2	—	3.0(3)	—
Aux Current at 24V DC (Amp)(1)	—	5.2	—	2.2	8.4	—	—	5.2	8.4	—	0.2(5)

(1) This control power source is optional.
(2) Includes an AC precharge control board, circuit breaker, time delay relay, and contactor.
(3) This control power source is provided by the connected power module.
(4) This module is optional.
(5) This value is the current load for either a 240V AC or auxiliary 24V DC control power source. Only one control power source is required.

This frame 13 example represents a bus supply combined with a common bus inverter with DC precharge modules, and control bay, and an IP54 rating.

Frame 13, IP54 Bus Supply and Common Bus Inverter

Quantity / Power Source	Input Bays				Converter Power Bays			Control Bays		Inverter Power Bays			
	Door Fans	Control Pod	Power Supply Bulletin 1606	AC Precharge Devices(2)	Power Module	LCL Filter Module	IP54 Vent Fans	Roof Fan	Control Pod	Power Module	DCPC Module(4)	Torque Accuracy Module(4)	IP54 Vent Fans
Quantity	4	1	4	2	6	4	6	2	1	6	6	1	4
Current at 240V AC (Amp)	—	—	1.4	4.0	17.4	11.6	12.0	0.6	—	17.4	12.0	0.2(5)	8.0
Current at 48V DC (Amp)	12.8	—	—	—	—	—	—	—	—	—	—	—	—
Current at 24V DC (Amp)	—	5.2	—	2.2	—	3.6(3)	—	—	5.2	—	3.0(3)	—	—
Aux Current at 24V DC (Amp)(1)	—	5.2	—	2.2	8.4	—	—	—	5.2	8.4	—	0.2(5)	—

(1) This control power source is optional.
(2) Includes an AC precharge control board, circuit breaker, time delay relay, and contactor.
(3) This control power source is provided by the connected power module.
(4) This module is optional.
(5) This value is the current load for either a 240V AC or auxiliary 24V DC control power source. Only one control power source is required.

This frame 14 example represents a bus supply combined with a common bus inverter with DC precharge modules, and control bay, and an IP21 rating.

Frame 14, IP21 Bus Supply and Common Bus Inverter

Quantity / Power Source	Input Bay				Converter Power Bays		Control Bay		Inverter Power Bays		
	Door Fans	Control Pod	Power Supply Bulletin 1606	AC Precharge Devices(2)	Power Module	LCL Filter Module	Roof Fan	Control Pod	Power Module	DCPC Module(4)	Torque Accuracy Module(4)
Quantity	4	1	4	2	8	4	2	1	8	8	1
Current at 240V AC (Amp)	—	—	1.4	4.0	23.3	11.6	0.6	—	23.3	16.0	0.2(5)
Current at 48V DC (Amp)	12.8	—	—	—	—	—	—	—	—	—	—
Current at 24V DC (Amp)	—	5.2	—	2.2	—	3.6(3)	—	5.2	—	4.0(3)	—
Aux Current at 24V DC (Amp)(1)	—	5.2	—	2.2	11.2	—	—	5.2	11.2	—	0.2(5)

(1) This control power source is optional.
(2) Includes an AC precharge control board, circuit breaker, time delay relay, and contactor.
(3) This control power source is provided by the connected power module.
(4) This module is optional.
(5) This value is the current load for either a 240V AC or auxiliary 24V DC control power source. Only one control power source is required.

This frame 14 example represents a bus supply combined with a common bus inverter with DC precharge modules, and control bay, and an IP54 rating.

Frame 14, IP54 Bus Supply and Common Bus Inverter

Quantity / Power Source	Input Bay				Converter Power Bays			Control Bay		Inverter Power Bays			
	Door Fans	Control Pod	Power Supply Bulletin 1606	AC Precharge Devices(2)	Power Module	LCL Filter Module	IP54 Vent Fan	Roof Fan	Control Pod	Power Module	DCPC Module(4)	Torque Accuracy Module(4)	IP54 Vent Fan
Quantity	4	1	4	2	8	4	8	2	1	8	8	1	4
Current at 240V AC (Amp)	—	—	1.4	4.0	23.3	11.6	16.0	0.6	—	23.3	16.0	0.2(5)	8.0
Current at 48V DC (Amp)	12.8	—	—	—	—	—	—	—	—	—	—	—	—
Current at 24V DC (Amp)	—	5.2	—	2.2	—	3.6(3)	—	—	5.2	—	4.0(3)	—	—
Aux Current at 24V DC (Amp)(1)	—	5.2	—	2.2	11.2	—	—	—	5.2	11.2	—	0.2(5)	—

(1) This control power source is optional.
(2) Includes an AC precharge control board, circuit breaker, time delay relay, and contactor.
(3) This control power source is provided by the connected power module.
(4) This module is optional.
(5) This value is the current load for either a 240V AC or auxiliary 24V DC control power source. Only one control power source is required.

This frame 15 example represents a bus supply combined with a common bus inverter with DC precharge modules, control bay and exit wire bay (with measured current), and an IP21 rating.

Frame 15, IP21 Bus Supply and Common Bus Inverter

Quantity / Power Source	Input Bay				Converter Power Bays		Control Bay		Inverter Power Bays		
	Door Fans	Control Pod	Power Supply Bulletin 1606	AC Precharge Devices(2)	Power Module	LCL Filter Module	Roof Fan	Control Pod	Power Module	DCPC Module(4)	Torque Accuracy Module(4)
Quantity	4	1	4	2	10	6	2	1	10	10	1
Current at 240V AC (Amp)	—	—	1.4	4.0	29.0	17.4	0.6	—	29.0	20.0	0.2(5)
Current at 48V DC (Amp)	12.8	—	—	—	—	—	—	—	—	—	—
Current at 24V DC (Amp)	—	5.2	—	2.2	—	5.4(3)	—	5.2	—	5.0(3)	—
Aux Current at 24V DC (Amp)(1)	—	5.2	—	2.2	14.0	—	—	5.2	14.0	—	0.2(5)

(1) This control power source is optional.
(2) Includes an AC precharge control board, circuit breaker, time delay relay, and contactor.
(3) This control power source is provided by the connected power module.
(4) This module is optional.
(5) This value is the current load for either a 240V AC or auxiliary 24V DC control power source. Only one control power source is required.

This frame 15 example represents a bus supply combined with a common bus inverter with DC precharge modules, control bay and exit wire bay (with measured current), and an IP54 rating.

Frame 15, IP54 Bus Supply and Common Bus Inverter

Quantity / Power Source	Input Bay				Converter Power Bays			Control Bay		Inverter Power Bays			
	Door Fans	Control Pod	Power Supply Bulletin 1606	AC Precharge Devices(2)	Power Module	LCL Filter Module	IP54 Vent Fans	Roof Fan	Control Pod	Power Module	DCPC Module(4)	Torque Accuracy Module(4)	IP54 Vent Fans
Quantity	4	1	4	2	10	6	10	2	1	10	10	1	6
Current at 240V AC (Amp)	—	—	1.4	4.0	29.0	17.4	20.0	0.6	—	29.0	20.0	0.2(5)	12.0
Current at 48V DC (Amp)	12.8	—	—	—	—	—	—	—	—	—	—	—	—
Current at 24V DC (Amp)	—	5.2	—	2.2	—	5.4(3)	—	—	5.2	—	5.0(3)	—	—
Aux Current at 24V DC (Amp)(1)	—	5.2	—	2.2	14.0	—	—	—	5.2	14.0	—	0.2(5)	—

(1) This control power source is optional.
(2) Includes an AC precharge control board, circuit breaker, time delay relay, and contactor.
(3) This control power source is provided by the connected power module.
(4) This module is optional.
(5) This value is the current load for either a 240V AC or auxiliary 24V DC control power source. Only one control power source is required.

Approximate Watts Loss

The following tables lists watts loss data for drives, bus supplies, and common bus inverters products running at full load, full speed, and default carrier frequency in light-duty mode. This data is based on equivalent standard enclosed PowerFlex 755T products.

Watts Loss for 400V 755T Devices

Catalog Number	Frame	Light Duty kW Output	Light Duty Cont. Output Amps	Total Watts Loss	
				Drives	Common Bus Inverters
20G…C302	7	200	367	6,707	—
20G…C367	7	250	460	8,699	—
20G…C460	7	315	540	10,634	—
20G…C540	7	315	585	11,812	—
20G…C585	7	315	617	12,689	—
20G…C302	8	200	367	11,340	4,811
20G…C367	8	250	460	14,803	6,162
20G…C460	8	315	540	18,267	7,508
20G…C540	8	315	585	20,414	8,340
20G…C585	8	355	650	18,146	7,707
20G…C650	8	400	750	23,110	9,692
20G…C750	8	450	796	23,990	10,048
20G…C770	8	450	832	26,835	11,200
20G…C920	9	560	1040	31,740	13,993
20G…C1K0	9	630	1090	33,828	14,884
20G…C1K1	9	710	1182	31,010	13,958
20G…C1K2	9	800	1465	41,344	18,527
20G…C1K4	9	850	1581	46,064	20,615
20G…C1K6	10	1000	1715	45,311	20,435
20G…C1K7	10	1250	2150	60,912	27,393
20G…C2K1	10	1400	2330	68,143	30,622
20G…C2K8	11	1800	3078	86,593	40,450
20G…C3K5	12	2200	3846	111,599	51,249
20G…C4K2	13	2475	4576	136,286	61,244
20G…C5K6	14	3285	6074	173,186	80,900
20G…C7K0	15	4095	7571	223,198	102,498

Catalog Number	Frame	Light Duty kW Output	Light Duty Cont. DC Output Amps	Total Watts Loss
				Bus Supplies
20J…C302	7	228	394	4,086
20J…C367	7	286	494	5,358
20J…C460	7	336	579	6,608
20J…C540	7	364	628	7,375
20J…C585	7	384	662	7,948
20J…C302	8	228	394	6,594
20J…C367	8	286	494	8,740
20J…C460	8	336	579	10,894
20J…C540	8	364	628	12,231
20J…C585	8	387	667	10,615
20J…C650	8	467	805	13,673
20J…C750	8	479	826	14,209
20J…C770	8	518	893	15,947
20J…C920	9	647	1116	17,991
20J…C1K0	9	678	1170	19,211
20J…C1K1	9	735	1268	17,367
20J…C1K2	9	911	1572	23,298
20J…C1K4	9	983	1696	26,007
20J…C1K6	10	1067	1840	25,316
20J…C1K7	10	1337	2307	34,207
20J…C2K1	10	1449	2500	38,328
20J…C2K8	11	1915	3303	47,198
20J…C3K5	12	2393	4127	61,667
20J…C4K2	13	2848	4912	76,656
20J…C5K6	14	3779	6519	94,396
20J…C7K0	15	4711	8126	123,334

Watts Loss for 480V 755T Devices

Catalog Number	Frame	Light Duty Hp Output	Light Duty Cont. Output Amps	Total Watts Loss	
				Drives	Common Bus Inverters
20G…D302	7	300	361	6,854	—
20G…D361	7	350	430	8,320	—
20G…D430	7	400	485	9,597	—
20G…D505	7	450	545	11,100	—
20G…D617	7	500	617	13,054	—
20G…D302	8	300	361	11,568	4840
20G…D361	8	350	430	14,170	5825
20G…D430	8	400	485	16,493	6701
20G…D505	8	450	545	19,280	7748
20G…D545	8	500	617	17,322	7383
20G…D617	8	600	710	21,861	9189
20G…D710	8	650	765	23,149	9709
20G…D740	8	700	800	25,852	10,799
20G…D800	9	800	960	29,208	12,903
20G…D960	9	900	1045	32,645	14,365
20G…D1K0	9	1000	1135	29,520	13,387
20G…D1K1	9	1100	1365	38,046	17,180
20G…D1K3	9	1250	1520	44,113	19,881
20G…D1K4	10	1500	1655	44,394	20,019
20G…D1K6	10	1800	2070	59,059	26,537
20G…D2K0	10	2000	2240	65,776	29,525
20G…D2K6	11	2600	2960	83,398	38,960
20G…D3K4	12	3300	3696	106,950	48,975
20G…D4K0	13	3900	4400	131,552	59,050
20G…D5K4	14	5200	5840	166,796	77,920
20G…D6K7	15	6400	7280	213,900	97,950

Catalog Number	Frame	Light Duty kW Output	Light Duty Cont. DC Output Amps	Total Watts Loss
				Bus Supplies
20J…D302	7	258	371	4,154
20J…D361	7	307	442	5,072
20J…D430	7	347	499	5,879
20J…D505	7	390	560	6,837
20J…D617	7	441	635	8,091
20J…D302	8	258	371	6786
20J…D361	8	307	442	8425
20J…D430	8	347	499	9893
20J…D505	8	390	560	11,658
20J…D545	8	422	607	10,086
20J…D617	8	508	730	12,882
20J…D710	8	529	761	13,668
20J…D740	8	573	823	15,319
20J…D800	9	687	987	16,498
20J…D960	9	748	1075	18,507
20J…D1K0	9	802	1153	16,394
20J…D1K1	9	977	1404	21,250
20J…D1K3	9	1087	1563	24,707
20J…D1K4	10	1184	1702	24,751
20J…D1K6	10	1481	2129	33,109
20J…D2K0	10	1603	2304	36,937
20J…D2K6	11	2118	3044	45,334
20J…D3K4	12	2632	3784	59,082
20J…D4K0	13	3149	4527	73,874
20J…D5K4	14	4180	6008	90,668
20J…D6K7	15	5210	7489	118,164

Watts Loss for 600V 755T Devices

Catalog Number	Frame	Light Duty Hp Output	Light Duty Cont. Output Amps	Total Watts Loss	
				Drives	Common Bus Inverters
20G…E192	7	250	242	5,954	—
20G…E242	7	300	295	7,319	—
20G…E295	7	350	355	9,039	—
20G…E355	7	400	395	10,288	—
20G…E395	7	450	435	11,619	—
20G…E242	8	300	295	13,483	5312
20G…E295	8	350	355	16,499	6344
20G…E355	8	400	395	18,702	7090
20G…E395	8	450	435	21,059	7883
20G…E435	8	500	510	22,039	8483
20G…E545	8	600	580	25,885	9827
20G…E595	9	700	690	28,996	11,969
20G…E690	9	800	760	33,206	13,256
20G…E760	9	900	825	35,657	14,516
20G…E825	9	1000	980	38,230	15,908
20G…E980	9	1100	1102	44,018	18,202
20G…E1K1	10	1250	1220	48,145	19,811
20G…E1K2	10	1500	1430	57,543	23,430
20G…E1K5	10	1600	1624	66,994	27,059
20G…E2K0	11	2100	2146	84,849	35,627
20G…E2K4	12	2600	2668	108,608	44,685
20G…E2K9	13	3300	3190	133,988	54,118
20G…E3K9	14	4400	4234	169,698	71,254
20G…E4K9	15	5500	5278	217,216	89,370

Catalog Number	Frame	Light Duty kW Output	Light Duty Cont. DC Output Amps	Total Watts Loss
				Bus Supplies
20J…E192	7	217	249	3,475
20J…E242	7	263	303	4,282
20J…E295	7	317	365	5,307
20J…E355	7	353	406	6,056
20J…E395	7	389	447	6,858
20J…E242	8	263	303	8212
20J…E295	8	317	365	10,212
20J…E355	8	353	406	11,681
20J…E395	8	389	447	13,258
20J…E435	8	456	524	13,667
20J…E545	8	518	596	16,200
20J…E595	9	617	710	17,130
20J…E690	9	680	782	20,073
20J…E760	9	737	848	21,285
20J…E825	9	877	1008	22,523
20J…E980	9	985	1133	26,068
20J…E1K1	10	1091	1255	28,541
20J…E1K2	10	1279	1471	34,395
20J…E1K5	10	1452	1670	40,298
20J…E2K0	11	1919	2207	49,697
20J…E2K4	12	2386	2744	64,508
20J…E2K9	13	2851	3278	80,596
20J…E3K9	14	3784	4351	99,394
20J…E4K9	15	4717	5424	129,016

Watts Loss for 690V 755T Devices

Catalog Number	Frame	Light Duty kW Output	Light Duty Cont. Output Amps	Total Watts Loss	
				Drives	Common Bus Inverters
20G…F171	7	200	215	5,740	—
20G…F215	7	250	265	7,035	—
20G…F265	7	315	330	8,918	—
20G…F330	7	355	370	10,190	—
20G…F370	7	400	415	11,723	—
20G…F215	8	250	265	12,875	5057
20G…F265	8	315	330	16,200	6171
20G…F330	8	355	370	18,459	6917
20G…F370	8	400	415	21,194	7814
20G…F415	8	450	460	20,668	7971
20G…F505	8	560	565	26,512	9990
20G…F565	9	630	650	24,768	10,319
20G…F650	9	710	735	33,893	13,383
20G…F735	9	800	820	37,242	15,075
20G…F820	9	900	920	37,736	15,605
20G…F920	9	1000	1074	45,212	18,529
20G…F1K0	10	1100	1150	48,104	19,660
20G…F1K1	10	1250	1344	56,985	23,033
20G…F1K4	10	1500	1582	68,911	27,546
20G…F1K8	11	2000	2091	87,377	36,268
20G…F2K3	12	2500	2599	111,745	45,474
20G…F2K7	13	3080	3108	137,822	55,092
20G…F3K6	14	4088	4125	174,754	72,536
20G…F4K5	15	5096	5142	223,490	90,948

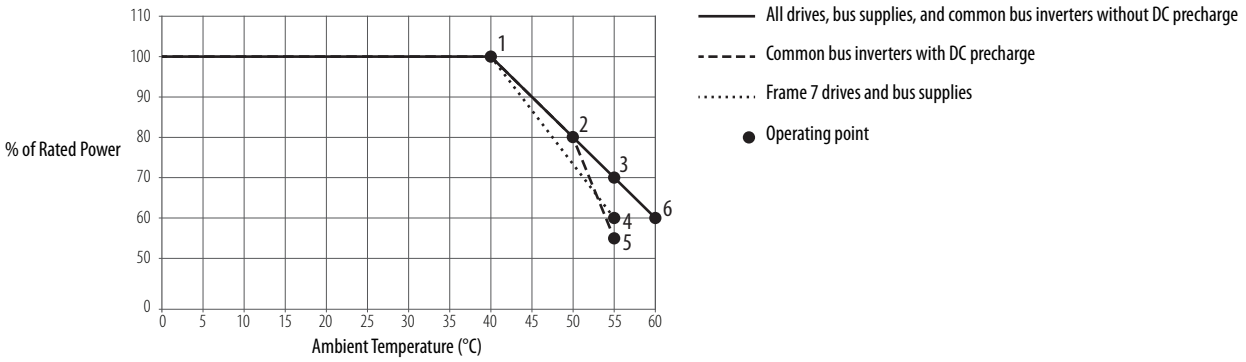
Catalog Number	Frame	Light Duty kW Output	Light Duty Cont. DC Output Amps	Total Watts Loss
				Bus Supplies
F171	7	221	221	3,424
F215	7	272	272	4,199
F265	7	339	339	5,340
F330	7	380	380	6,116
F370	7	426	426	7,058
20J…F215	8	272	272	7851
20J…F265	8	339	339	10,079
20J…F330	8	380	380	11,602
20J…F370	8	426	426	13,455
20J…F415	8	472	472	12,788
20J…F505	8	580	580	16,657
20J…F565	9	580	580	14,519
20J…F650	9	754	754	20,625
20J…F735	9	842	842	22,308
20J…F820	9	944	944	22,308
20J…F920	9	1102	1102	26,922
20J…F1K0	10	1180	1180	28,629
20J…F1K1	10	1380	1380	34,201
20J…F1K4	10	1624	1624	41,708
20J…F1K8	11	2146	2146	51,558
20J…F2K3	12	2668	2668	66,824
20J…F2K7	13	3190	3190	83,416
20J…F3K6	14	4234	4234	103,116
20H…F4K5	15	5278	5278	133,648

Derating Guidelines

The following sections describe conditional derating guidelines. These guidelines are based on equivalent standard enclosed products.

Ambient Temperature Derating

The PowerFlex 750T products are designed to operate at -20...+40 °C (-4...+104 °F) ambient without derating. The following graph shows the derating curves for ambient temperatures above 40 °C (104 °F) at default carrier frequency.



Operating Point	Ambient Temperature	Description
1	40 °C (104 °F)	All drives, bus supplies, and common bus inverters operate at 100% rated current.
2	50 °C (122 °F)	All drives, bus supplies, and common bus inverters operate at 80% rated current.
3	55 °C (134 °F)	Drives, bus supplies, and common bus inverters without DC precharge operate at 70% rated current.
4	55 °C (134 °F)	Frame 7 drives and bus supplies operate at 60% rated current.
5	55 °C (134 °F)	Drives and common bus inverters with DC precharge operate at 55% rated current.

Voltage Boost Derating

When voltage control parameters are used to set the DC bus voltage reference to a value that is greater than the default value, the DC bus output current is reduced. This voltage boost does not affect overload capabilities. Consult factory for derate information.

Extruded DC Bus Derating Guidelines

When using Rockwell Automation extruded DC bus bar assembly kits (bus support insulators included), the maximum bus bar surface temperature cannot exceed 105 °C (221 °F). To meet this temperature rating, the ratings limits are identified in the Extruded DC Bus Bar Ratings table. See Frame 8...15 DC Bus Bars on page 108 for a list of available kits.

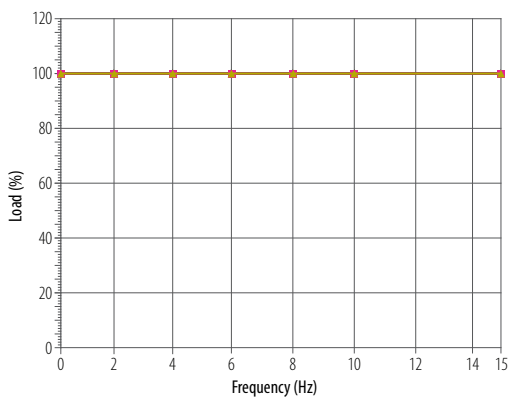
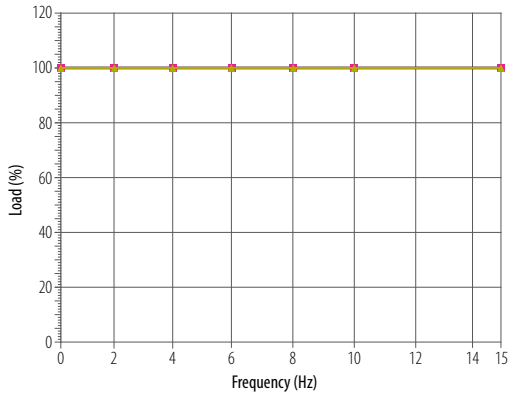
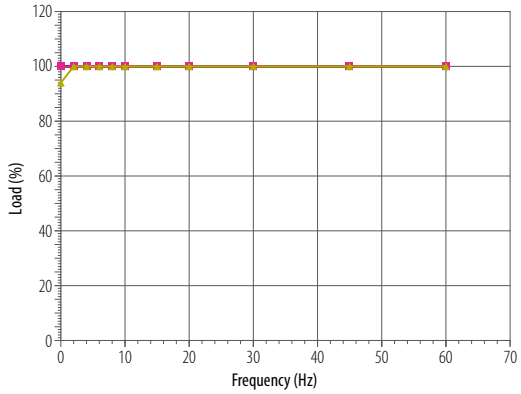
Extruded DC Bus Bar Assembly Ratings

Material	Bus Bar Width	Min. Air Flow(1)	Max. Surrounding Air Temp	Max. Amp Rating
Aluminum	27 mm (1.1 in.)	0.6 m/s (2 ft/sec)	70 °C (158 °F)	3000
		zero air velocity (still air)	60 °C (140 °F)	2000
		zero air velocity (still air)	70 °C (158 °F)	1700
Copper	37 mm (1.5 in.)	0.6 m/s (2 ft/sec)	75 °C (167 °F)	4700
		zero air velocity (still air)	60 °C (140 °F)	2500
		zero air velocity (still air)	75 °C (167 °F)	2000

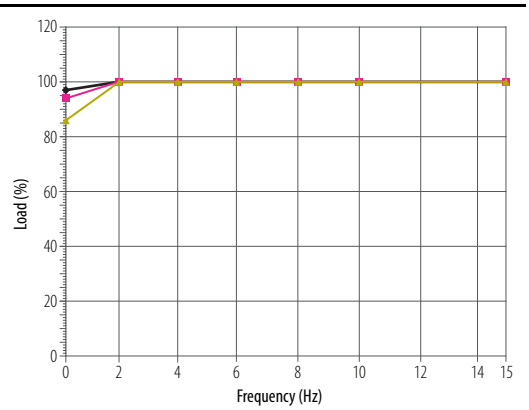
(1) Air flow across the bus bars.

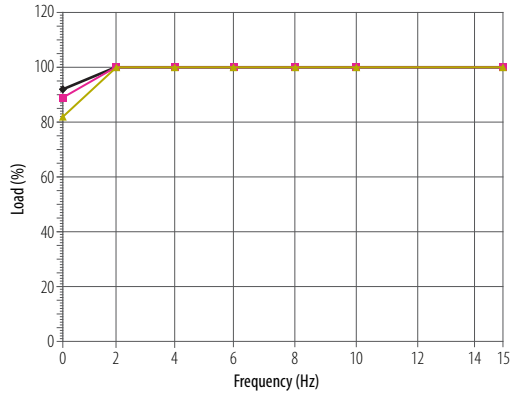
Low Speed Derating with Reduced Carrier Frequency

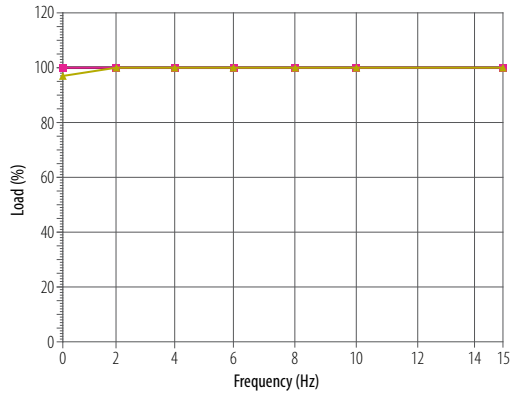
The following graphs show the carrier frequency deratings for motor side inverters. If a catalog number is not shown, that drive can be operated without derating as long as the limits specified on page 142 are followed.

Cat. No. 20G…	Frame	400V AC Power Rating						Low Speed Derating with Reduced Carrier Frequency for IP20, UL Type 1 and IP54, UL Type 12				
		LD		ND		HD		Output Freq.	PWM Frequency			
		kW	Cont. Amps	kW	Cont. Amps	kW	Cont. Amps	Hz	0.444 kHz	0.666 kHz	1.33 kHz	
C302	7	200	367	160	302	132	260	0	100	100	100	
								2	100	100	100	
								4	100	100	100	
								6	100	100	100	
								8	100	100	100	
								10	100	100	100	
								15	100	100	100	
								20	100	100	100	
								30	100	100	100	
								45	100	100	100	
								60	100	100	100	
C367	7	250	460	200	367	160	302	0	100	100	100	
								2	100	100	100	
								4	100	100	100	
								6	100	100	100	
								8	100	100	100	
								10	100	100	100	
								15	100	100	100	
								20	100	100	100	
								30	100	100	100	
								45	100	100	100	
								60	100	100	100	
C460	7	315	540	250	460	200	367	0	100	100	94	
								2	100	100	100	
								4	100	100	100	
								6	100	100	100	
								8	100	100	100	
								10	100	100	100	
								15	100	100	100	
								20	100	100	100	
								30	100	100	100	
								45	100	100	100	
								60	100	100	100	

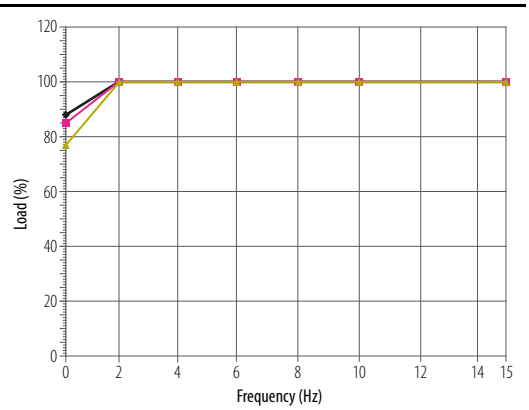
Cat. No. 20G…	Frame	400V AC Power Rating						Low Speed Derating with Reduced Carrier Frequency for IP20, UL Type 1 and IP54, UL Type 12			
		LD		ND		HD		Output Freq.	PWM Frequency		
		kW	Cont. Amps	kW	Cont. Amps	kW	Cont. Amps	Hz	0.444 kHz	0.666 kHz	1.33 kHz
C540	7	315	585	315	540	250	460	0	97	94	86
								2	100	100	100
								4	100	100	100
								6	100	100	100
								8	100	100	100
								10	100	100	100
								15	100	100	100
								20	100	100	100
								30	100	100	100
								45	100	100	100
								60	100	100	100
C585	7	315	617	315	600	250	500	0	92	89	82
								2	100	100	100
								4	100	100	100
								6	100	100	100
								8	100	100	100
								10	100	100	100
								15	100	100	100
								20	100	100	100
								30	100	100	100
								45	100	100	100
								60	100	100	100
C302	8	200	367	160	302	132	260	0	100	100	97
								2	100	100	100
								4	100	100	100
								6	100	100	100
								8	100	100	100
								10	100	100	100
								15	100	100	100
								20	100	100	100
								30	100	100	100
								45	100	100	100
								60	100	100	100

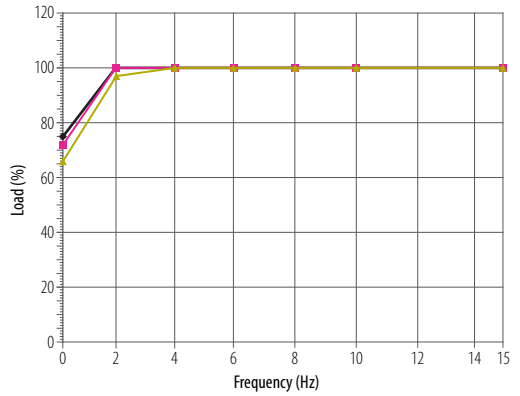


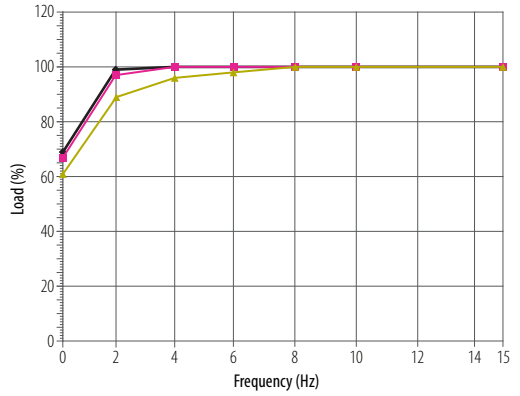




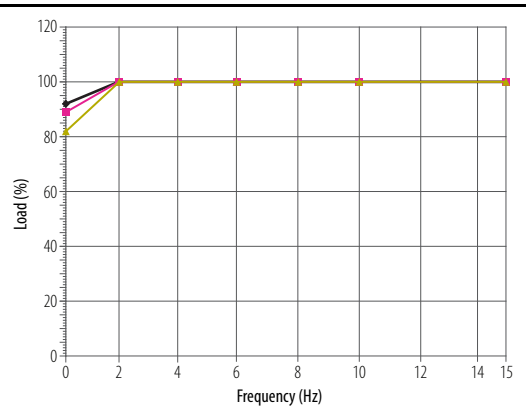
Cat. No. 20G…	Frame	400V AC Power Rating						Low Speed Derating with Reduced Carrier Frequency for IP20, UL Type 1 and IP54, UL Type 12			
		LD		ND		HD		Output Freq.	PWM Frequency		
		kW	Cont. Amps	kW	Cont. Amps	kW	Cont. Amps	Hz	0.444 kHz	0.666 kHz	1.33 kHz
C367	8	250	460	200	367	160	302	0	88	85	77
								2	100	100	100
								4	100	100	100
								6	100	100	100
								8	100	100	100
								10	100	100	100
								15	100	100	100
								20	100	100	100
								30	100	100	100
								45	100	100	100
								60	100	100	100
C460	8	315	540	250	460	200	367	0	75	72	66
								2	100	100	97
								4	100	100	100
								6	100	100	100
								8	100	100	100
								10	100	100	100
								15	100	100	100
								20	100	100	100
								30	100	100	100
								45	100	100	100
								60	100	100	100
C540	8	315	585	315	540	250	460	0	69	67	61
								2	99	97	89
								4	100	100	96
								6	100	100	98
								8	100	100	100
								10	100	100	100
								15	100	100	100
								20	100	100	100
								30	100	100	100
								45	100	100	100
								60	100	100	100

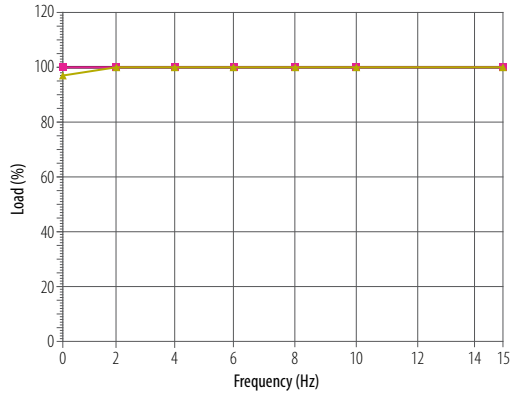


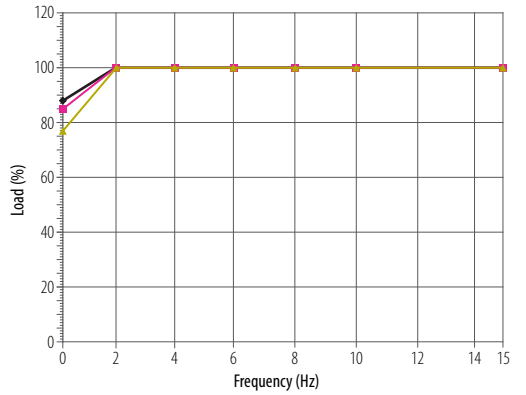




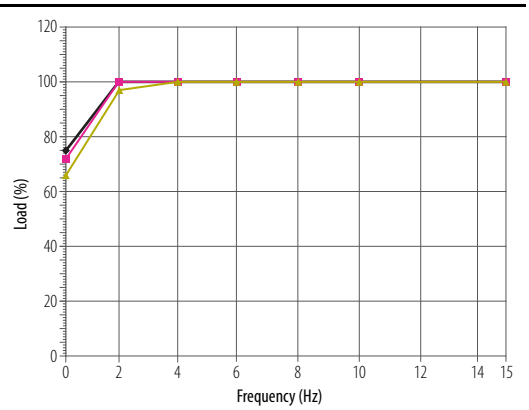
Cat. No. 20G…	Frame	400V AC Power Rating						Low Speed Derating with Reduced Carrier Frequency for IP20, UL Type 1 and IP54, UL Type 12			
		LD		ND		HD		Output Freq.	PWM Frequency		
		kW	Cont. Amps	kW	Cont. Amps	kW	Cont. Amps	Hz	0.444 kHz	0.666 kHz	1.33 kHz
C585	8	355	650	315	585	250	472	0	82	75	58
								2	100	100	88
								4	100	100	95
								6	100	100	97
								8	100	100	99
								10	100	100	100
								15	100	100	100
								20	100	100	100
								30	100	100	100
								45	100	100	100
								60	100	100	100
C302	8	200	367	160	302	132	260	0	100	100	97
								2	100	100	100
								4	100	100	100
								6	100	100	100
								8	100	100	100
								10	100	100	100
								15	100	100	100
								20	100	100	100
								30	100	100	100
								45	100	100	100
								60	100	100	100
C367	8	250	460	200	367	160	302	0	88	85	77
								2	100	100	100
								4	100	100	100
								6	100	100	100
								8	100	100	100
								10	100	100	100
								15	100	100	100
								20	100	100	100
								30	100	100	100
								45	100	100	100
								60	100	100	100

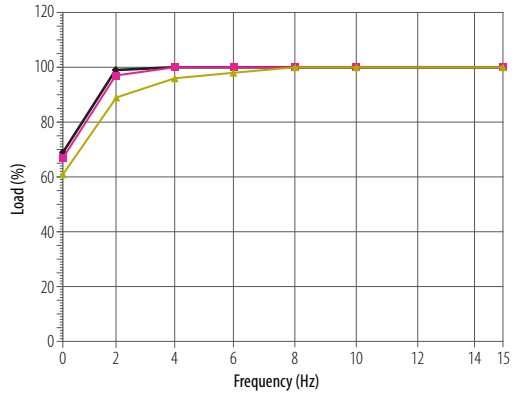


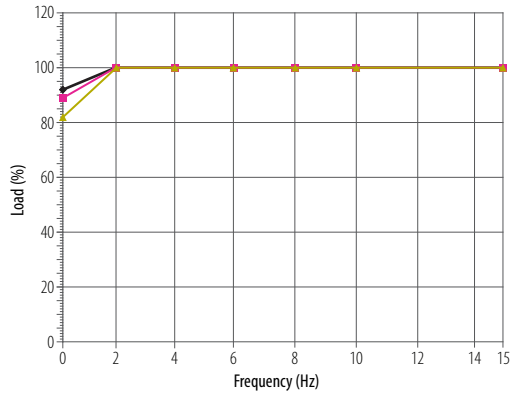




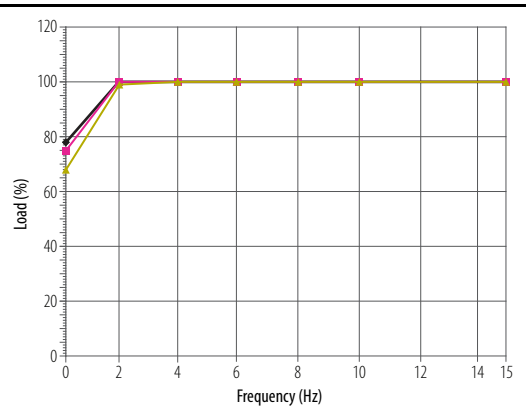
Cat. No. 20G…	Frame	400V AC Power Rating						Low Speed Derating with Reduced Carrier Frequency for IP20, UL Type 1 and IP54, UL Type 12			
		LD		ND		HD		Output Freq.	PWM Frequency		
		kW	Cont. Amps	kW	Cont. Amps	kW	Cont. Amps	Hz	0.444 kHz	0.666 kHz	1.33 kHz
C460	8	315	540	250	460	200	367	0	75	72	66
								2	100	100	97
								4	100	100	100
								6	100	100	100
								8	100	100	100
								10	100	100	100
								15	100	100	100
								20	100	100	100
								30	100	100	100
								45	100	100	100
								60	100	100	100
C540	8	315	585	315	540	250	460	0	69	67	61
								2	99	97	89
								4	100	100	96
								6	100	100	98
								8	100	100	100
								10	100	100	100
								15	100	100	100
								20	100	100	100
								30	100	100	100
								45	100	100	100
								60	100	100	100
C585	8	355	650	315	585	250	472	0	94	90	82
								2	100	100	100
								4	100	100	100
								6	100	100	100
								8	100	100	100
								10	100	100	100
								15	100	100	100
								20	100	100	100
								30	100	100	100
								45	100	100	100
								60	100	100	100

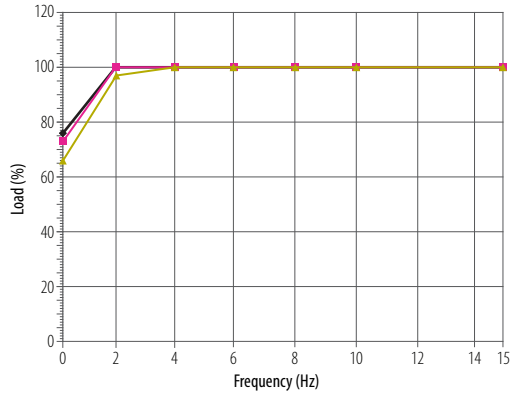


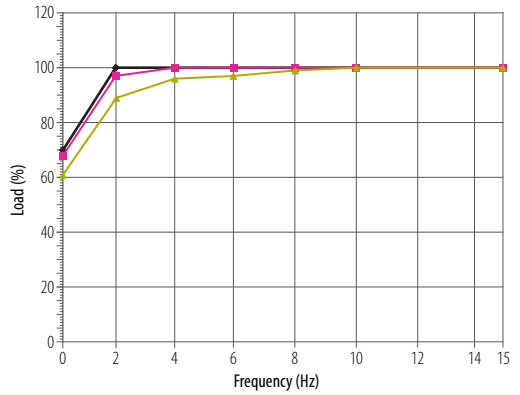




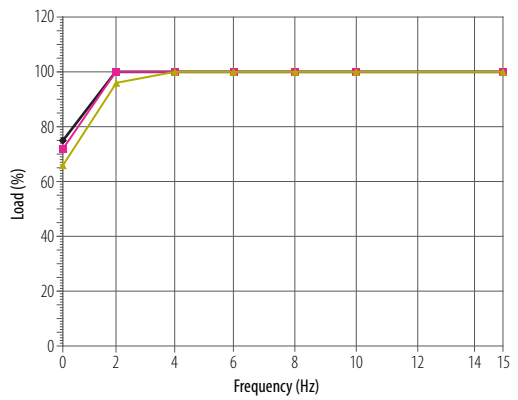
Cat. No. 20G…	Frame	400V AC Power Rating						Low Speed Derating with Reduced Carrier Frequency for IP20, UL Type 1 and IP54, UL Type 12			
		LD		ND		HD		Output Freq.	PWM Frequency		
		kW	Cont. Amps	kW	Cont. Amps	kW	Cont. Amps	Hz	0.444 kHz	0.666 kHz	1.33 kHz
C650	8	400	750	355	650	315	540	0	78	75	68
								2	100	100	99
								4	100	100	100
								6	100	100	100
								8	100	100	100
								10	100	100	100
								15	100	100	100
								20	100	100	100
								30	100	100	100
								45	100	100	100
								60	100	100	100
C750	8	450	796	400	750	315	585	0	76	73	66
								2	100	100	97
								4	100	100	100
								6	100	100	100
								8	100	100	100
								10	100	100	100
								15	100	100	100
								20	100	100	100
								30	100	100	100
								45	100	100	100
								60	100	100	100
C770	8	450	832	400	770	355	650	0	70	68	61
								2	100	97	89
								4	100	100	96
								6	100	100	97
								8	100	100	99
								10	100	100	100
								15	100	100	100
								20	100	100	100
								30	100	100	100
								45	100	100	100
								60	100	100	100

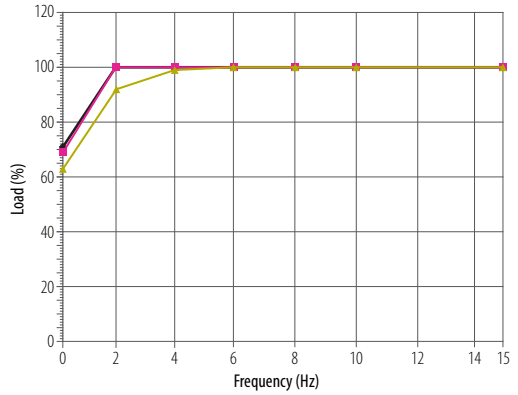


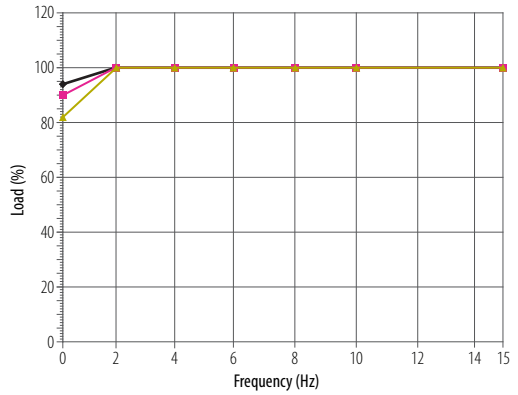




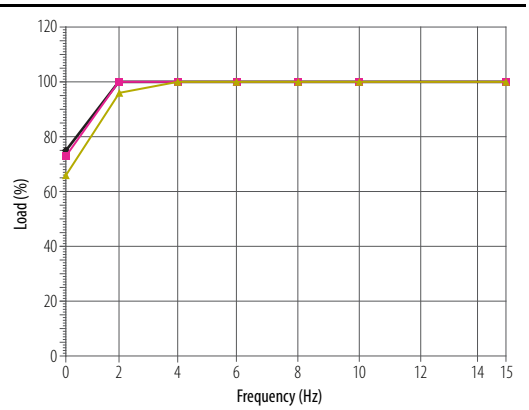
Cat. No. 20G…	Frame	400V AC Power Rating						Low Speed Derating with Reduced Carrier Frequency for IP20, UL Type 1 and IP54, UL Type 12			
		LD		ND		HD		Output Freq.	PWM Frequency		
		kW	Cont. Amps	kW	Cont. Amps	kW	Cont. Amps	Hz	0.444 kHz	0.666 kHz	1.33 kHz
C920	9	560	1040	500	920	400	770	0	75	72	66
								2	100	100	96
								4	100	100	100
								6	100	100	100
								8	100	100	100
								10	100	100	100
								15	100	100	100
								20	100	100	100
								30	100	100	100
								45	100	100	100
								60	100	100	100
C1K0	9	630	1090	560	1040	500	920	0	71	69	63
								2	100	100	92
								4	100	100	99
								6	100	100	100
								8	100	100	100
								10	100	100	100
								15	100	100	100
								20	100	100	100
								30	100	100	100
								45	100	100	100
								60	100	100	100
C1K1	9	710	1182	630	1112	500	1040	0	94	90	82
								2	100	100	100
								4	100	100	100
								6	100	100	100
								8	100	100	100
								10	100	100	100
								15	100	100	100
								20	100	100	100
								30	100	100	100
								45	100	100	100
								60	100	100	100

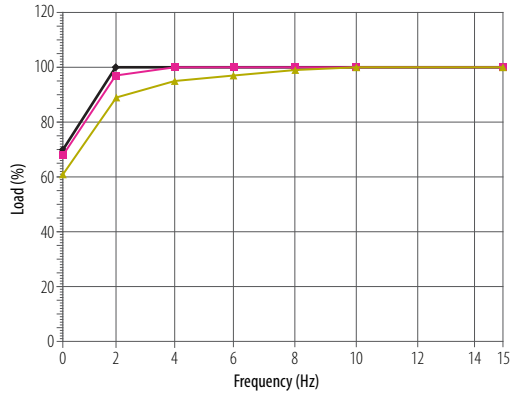


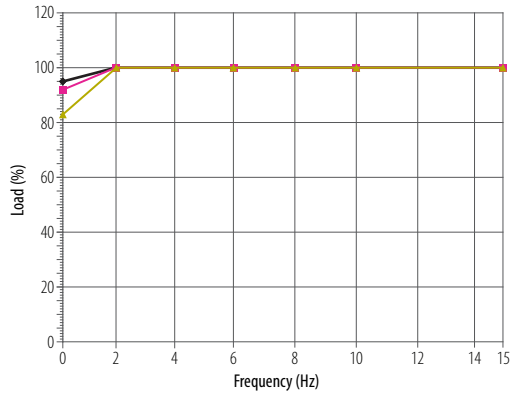




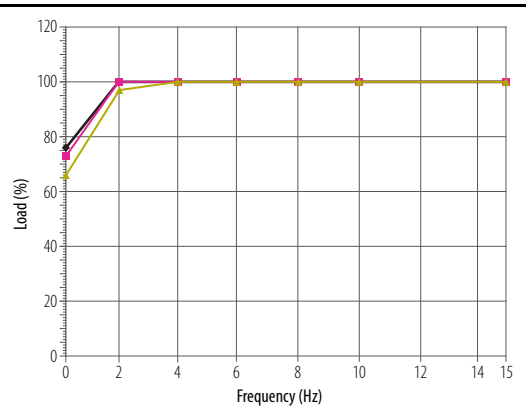
Cat. No. 20G…	Frame	400V AC Power Rating						Low Speed Derating with Reduced Carrier Frequency for IP20, UL Type 1 and IP54, UL Type 12			
		LD		ND		HD		Output Freq.	PWM Frequency		
		kW	Cont. Amps	kW	Cont. Amps	kW	Cont. Amps	Hz	0.444 kHz	0.666 kHz	1.33 kHz
C1K2	9	800	1465	710	1175	560	1090	0	75	73	66
								2	100	100	96
								4	100	100	100
								6	100	100	100
								8	100	100	100
								10	100	100	100
								15	100	100	100
								20	100	100	100
								30	100	100	100
								45	100	100	100
								60	100	100	100
C1K4	9	850	1581	800	1463	630	1175	0	70	68	61
								2	100	97	89
								4	100	100	95
								6	100	100	97
								8	100	100	99
								10	100	100	100
								15	100	100	100
								20	100	100	100
								30	100	100	100
								45	100	100	100
								60	100	100	100
C1K6	10	1000	1715	850	1590	710	1465	0	95	92	83
								2	100	100	100
								4	100	100	100
								6	100	100	100
								8	100	100	100
								10	100	100	100
								15	100	100	100
								20	100	100	100
								30	100	100	100
								45	100	100	100
								60	100	100	100

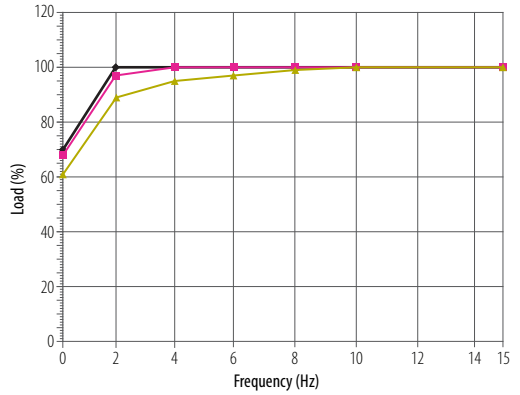


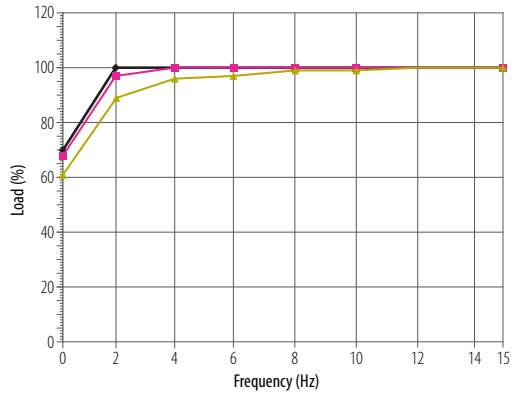




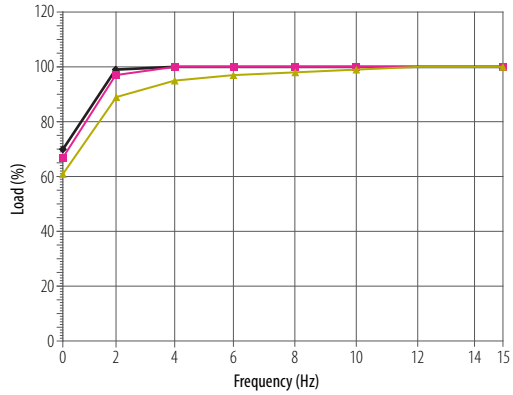
Cat. No. 20G…	Frame	400V AC Power Rating						Low Speed Derating with Reduced Carrier Frequency for IP20, UL Type 1 and IP54, UL Type 12			
		LD		ND		HD		Output Freq.	PWM Frequency		
		kW	Cont. Amps	kW	Cont. Amps	kW	Cont. Amps	Hz	0.444 kHz	0.666 kHz	1.33 kHz
C1K7	10	1250	2150	1000	1715	800	1480	0	76	73	66
								2	100	100	97
								4	100	100	100
								6	100	100	100
								8	100	100	100
								10	100	100	100
								15	100	100	100
								20	100	100	100
								30	100	100	100
								45	100	100	100
								60	100	100	100
C2K1	10	1400	2330	1250	2156	1000	1715	0	70	68	61
								2	100	97	89
								4	100	100	95
								6	100	100	97
								8	100	100	99
C4K2	13	2475	4576	2200	4235	1953	3575	10	100	100	100
								15	100	100	100
								20	100	100	100
								30	100	100	100
								45	100	100	100
								60	100	100	100
C2K8	11	1800	3078	1650	2849	1400	2330	0	70	68	61
								2	100	97	89
								4	100	100	96
								6	100	100	97
								8	100	100	99
C5K6	14	3285	6074	2920	5621	2592	4745	10	100	100	100
								15	100	100	100
								20	100	100	100
								30	100	100	100
								45	100	100	100
								60	100	100	100



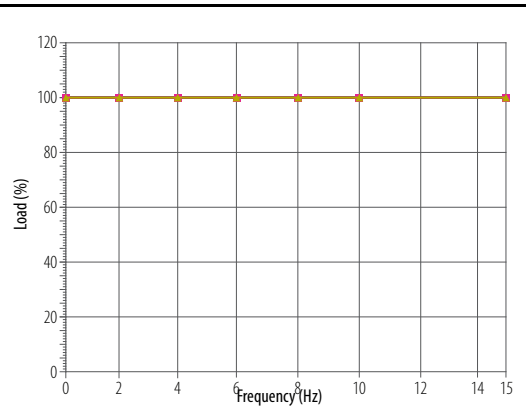




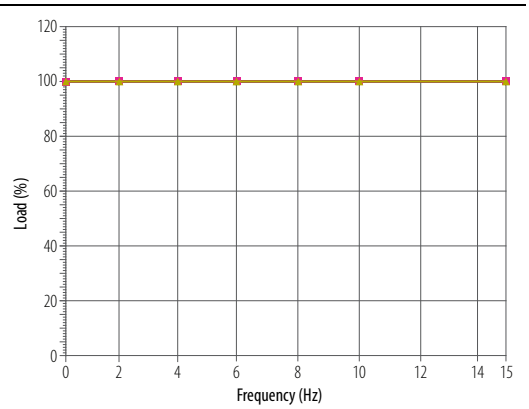
Cat. No. 20G…	Frame	400V AC Power Rating						Low Speed Derating with Reduced Carrier Frequency for IP20, UL Type 1 and IP54, UL Type 12			
		LD		ND		HD		Output Freq.	PWM Frequency		
		kW	Cont. Amps	kW	Cont. Amps	kW	Cont. Amps	Hz	0.444 kHz	0.666 kHz	1.33 kHz
C3K5	12	2200	3846	2000	3542	1650	3032	0	70	67	61
								2	99	97	89
								4	100	100	95
								6	100	100	97
								8	100	100	98
								10	100	100	99
C7K0	15	4095	7571	3640	7007	3231	5915	15	100	100	100
								20	100	100	100
								30	100	100	100
								45	100	100	100
								60	100	100	100



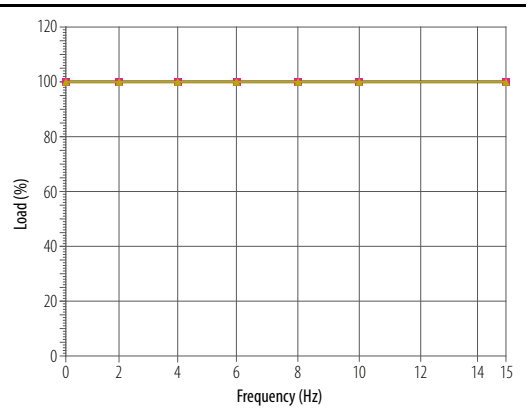
Cat. No. 20G…	Frame	480V AC Power Rating						Low Speed Derating with Reduced Carrier Frequency for IP20, UL Type 1 and IP54, UL Type 12			
		LD		ND		HD		Output Freq.	PWM Frequency		
		Hp	Cont. Amps	Hp	Cont. Amps	Hp	Cont. Amps	Hz	0.444 kHz	0.666 kHz	1.33 kHz
D302	7	300	361	250	302	200	248	0	100	100	100
								2	100	100	100
								4	100	100	100
								6	100	100	100
								8	100	100	100
								10	100	100	100
								15	100	100	100
								20	100	100	100
								30	100	100	100
								45	100	100	100
								60	100	100	100

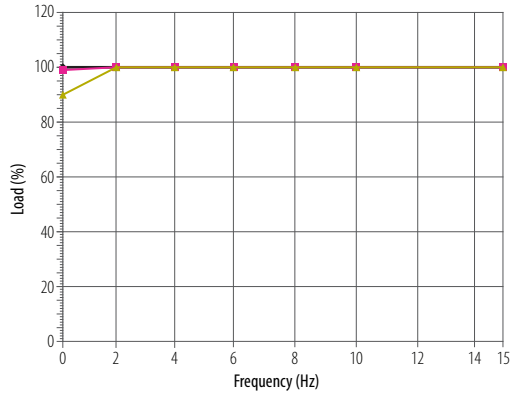


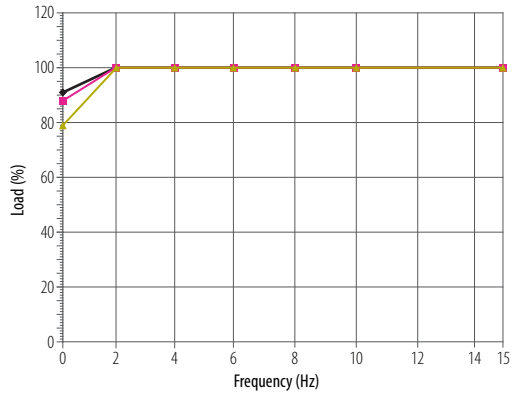
D361	7	350	430	300	361	250	302	0	100	100	100
								2	100	100	100
								4	100	100	100
								6	100	100	100
								8	100	100	100
								10	100	100	100
								15	100	100	100
								20	100	100	100
								30	100	100	100
								45	100	100	100
								60	100	100	100



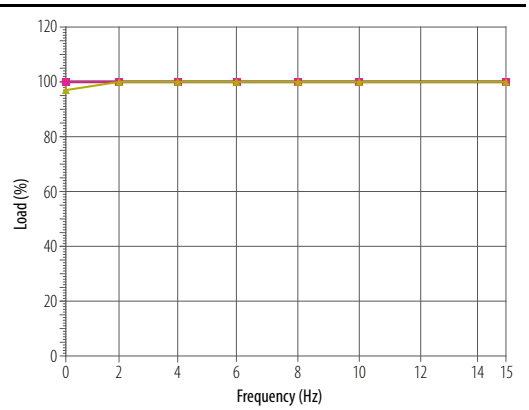
Cat. No. 20G…	Frame	480V AC Power Rating						Low Speed Derating with Reduced Carrier Frequency for IP20, UL Type 1 and IP54, UL Type 12			
		LD		ND		HD		Output Freq.	PWM Frequency		
		Hp	Cont. Amps	Hp	Cont. Amps	Hp	Cont. Amps	Hz	0.444 kHz	0.666 kHz	1.33 kHz
D430	7	400	485	350	430	300	361	0	100	100	100
								2	100	100	100
								4	100	100	100
								6	100	100	100
								8	100	100	100
								10	100	100	100
								15	100	100	100
								20	100	100	100
								30	100	100	100
								45	100	100	100
								60	100	100	100
D505	7	450	545	400	505	350	430	0	100	99	90
								2	100	100	100
								4	100	100	100
								6	100	100	100
								8	100	100	100
								10	100	100	100
								15	100	100	100
								20	100	100	100
								30	100	100	100
								45	100	100	100
								60	100	100	100
D617	7	500	617	500	600	400	500	0	91	88	79
								2	100	100	100
								4	100	100	100
								6	100	100	100
								8	100	100	100
								10	100	100	100
								15	100	100	100
								20	100	100	100
								30	100	100	100
								45	100	100	100
								60	100	100	100

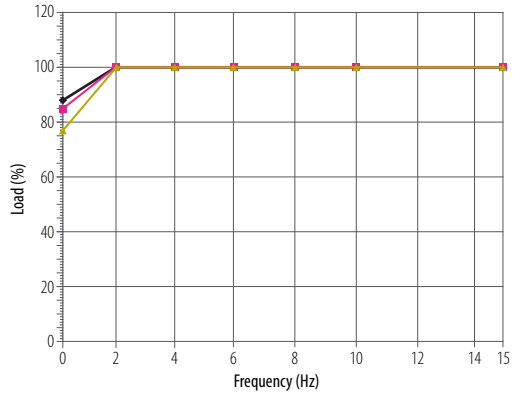


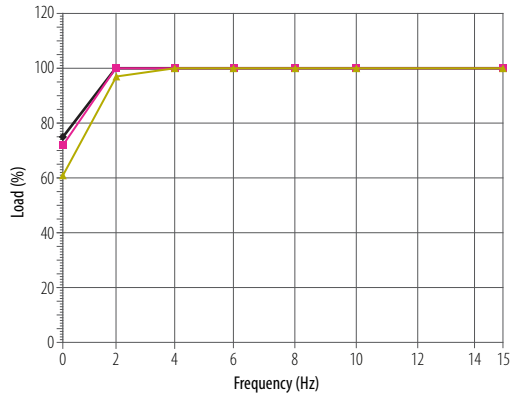




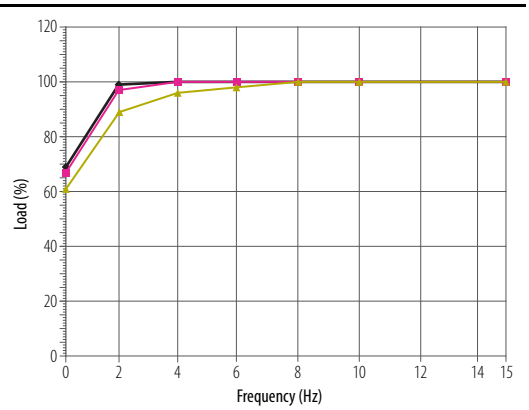
Cat. No. 20G…	Frame	480V AC Power Rating						Low Speed Derating with Reduced Carrier Frequency for IP20, UL Type 1 and IP54, UL Type 12			
		LD		ND		HD		Output Freq.	PWM Frequency		
		Hp	Cont. Amps	Hp	Cont. Amps	Hp	Cont. Amps	Hz	0.444 kHz	0.666 kHz	1.33 kHz
D302	8	300	361	250	302	200	248	0	100	100	97
								2	100	100	100
								4	100	100	100
								6	100	100	100
								8	100	100	100
								10	100	100	100
								15	100	100	100
								20	100	100	100
								30	100	100	100
								45	100	100	100
								60	100	100	100
D361	8	350	430	300	361	250	302	0	88	85	77
								2	100	100	100
								4	100	100	100
								6	100	100	100
								8	100	100	100
								10	100	100	100
								15	100	100	100
								20	100	100	100
								30	100	100	100
								45	100	100	100
								60	100	100	100
D430	8	400	485	350	430	300	361	0	75	72	66
								2	100	100	97
								4	100	100	100
								6	100	100	100
								8	100	100	100
								10	100	100	100
								15	100	100	100
								20	100	100	100
								30	100	100	100
								45	100	100	100
								60	100	100	100

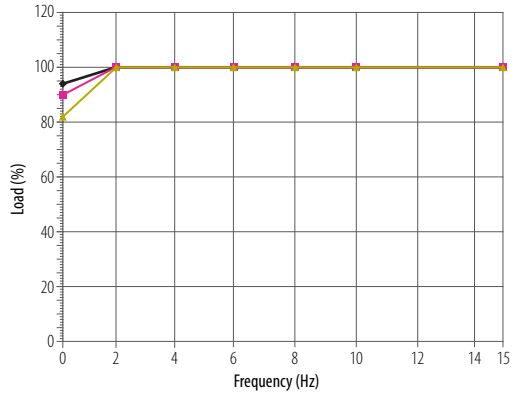


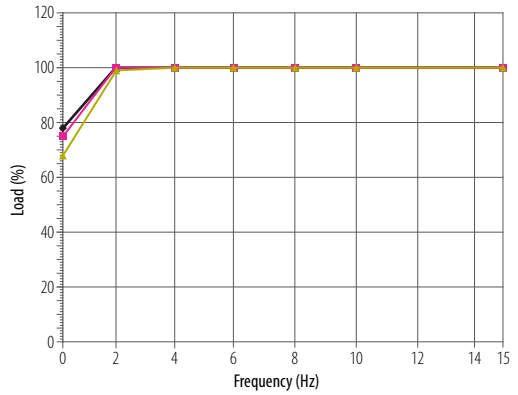




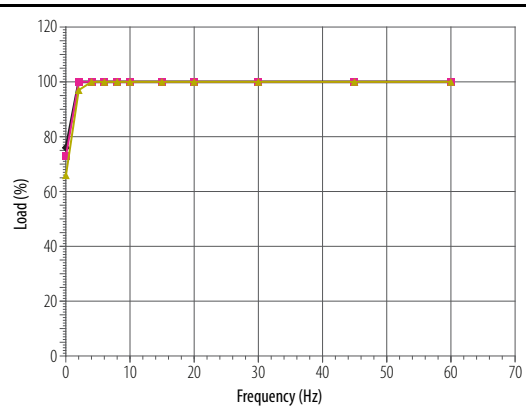
Cat. No. 20G…	Frame	480V AC Power Rating						Low Speed Derating with Reduced Carrier Frequency for IP20, UL Type 1 and IP54, UL Type 12			
		LD		ND		HD		Output Freq.	PWM Frequency		
		Hp	Cont. Amps	Hp	Cont. Amps	Hp	Cont. Amps	Hz	0.444 kHz	0.666 kHz	1.33 kHz
D505	8	450	545	400	505	350	430	0	69	67	61
								2	99	97	89
								4	100	100	96
								6	100	100	98
								8	100	100	100
								10	100	100	100
								15	100	100	100
								20	100	100	100
								30	100	100	100
								45	100	100	100
								60	100	100	100
D545	8	500	617	450	545	350	454	0	94	90	82
								2	100	100	100
								4	100	100	100
								6	100	100	100
								8	100	100	100
								10	100	100	100
								15	100	100	100
								20	100	100	100
								30	100	100	100
								45	100	100	100
								60	100	100	100
D617	8	600	710	500	617	400	485	0	78	75	68
								2	100	100	99
								4	100	100	100
								6	100	100	100
								8	100	100	100
								10	100	100	100
								15	100	100	100
								20	100	100	100
								30	100	100	100
								45	100	100	100
								60	100	100	100

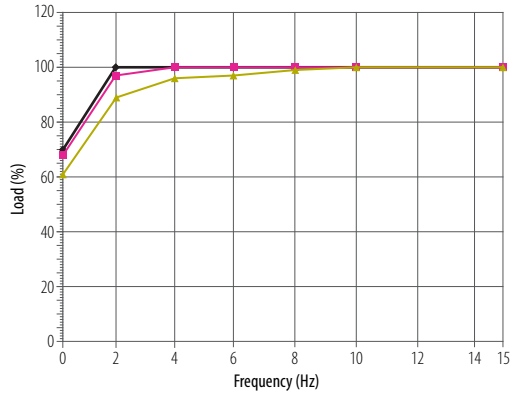


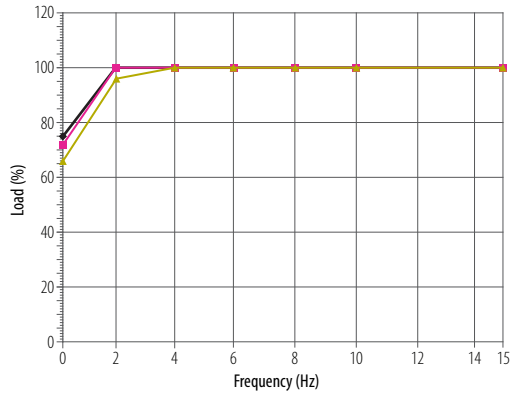




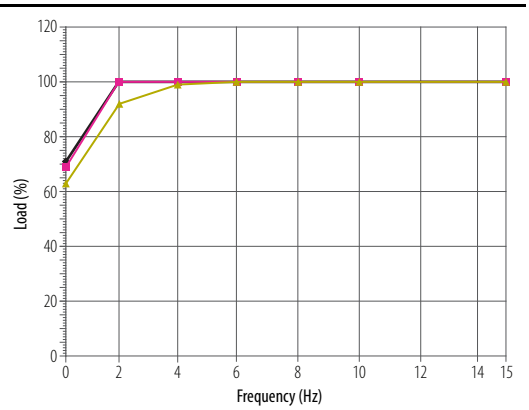
Cat. No. 20G…	Frame	480V AC Power Rating						Low Speed Derating with Reduced Carrier Frequency for IP20, UL Type 1 and IP54, UL Type 12			
		LD		ND		HD		Output Freq.	PWM Frequency		
		Hp	Cont. Amps	Hp	Cont. Amps	Hp	Cont. Amps	Hz	0.444 kHz	0.666 kHz	1.33 kHz
D710	8	650	765	600	710	450	545	0	76	73	66
								2	100	100	97
								4	100	100	100
								6	100	100	100
								8	100	100	100
								10	100	100	100
								15	100	100	100
								20	100	100	100
								30	100	100	100
								45	100	100	100
								60	100	100	100
D740	8	700	800	650	740	500	617	0	70	68	61
								2	100	97	89
								4	100	100	96
								6	100	100	97
								8	100	100	99
								10	100	100	100
								15	100	100	100
								20	100	100	100
								30	100	100	100
								45	100	100	100
								60	100	100	100
D800	9	800	960	700	800	600	740	0	75	72	66
								2	100	100	96
								4	100	100	100
								6	100	100	100
								8	100	100	100
								10	100	100	100
								15	100	100	100
								20	100	100	100
								30	100	100	100
								45	100	100	100
								60	100	100	100

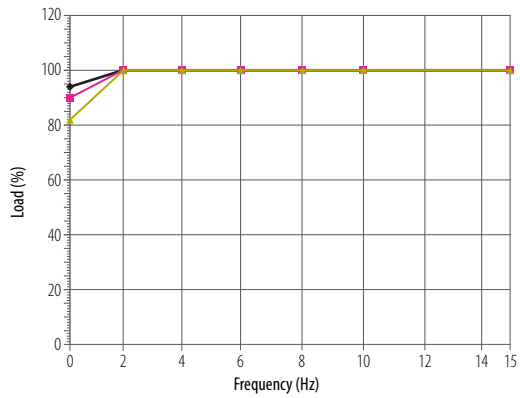


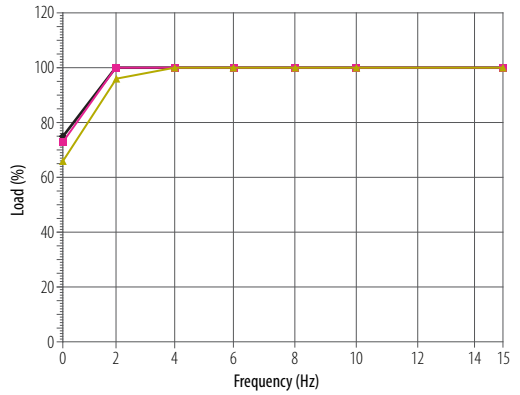




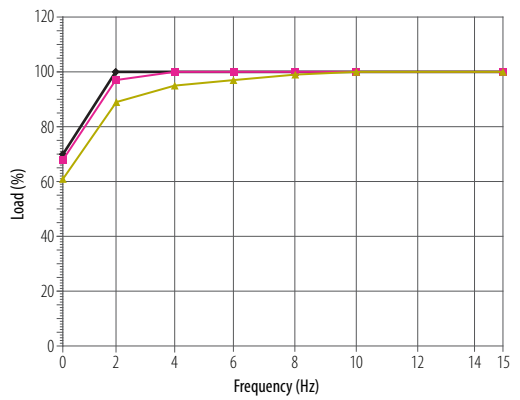
Cat. No. 20G…	Frame	480V AC Power Rating						Low Speed Derating with Reduced Carrier Frequency for IP20, UL Type 1 and IP54, UL Type 12			
		LD		ND		HD		Output Freq.	PWM Frequency		
		Hp	Cont. Amps	Hp	Cont. Amps	Hp	Cont. Amps	Hz	0.444 kHz	0.666 kHz	1.33 kHz
D960	9	900	1045	800	960	700	800	0	71	69	63
								2	100	100	92
								4	100	100	99
								6	100	100	100
								8	100	100	100
								10	100	100	100
								15	100	100	100
								20	100	100	100
								30	100	100	100
								45	100	100	100
								60	100	100	100
D1K0	9	1000	1135	900	1045	750	960	0	94	90	82
								2	100	100	100
								4	100	100	100
								6	100	100	100
								8	100	100	100
								10	100	100	100
								15	100	100	100
								20	100	100	100
								30	100	100	100
								45	100	100	100
								60	100	100	100
D1K1	9	1100	1365	1000	1135	800	1045	0	75	73	66
								2	100	100	96
								4	100	100	100
								6	100	100	100
								8	100	100	100
								10	100	100	100
								15	100	100	100
								20	100	100	100
								30	100	100	100
								45	100	100	100
								60	100	100	100

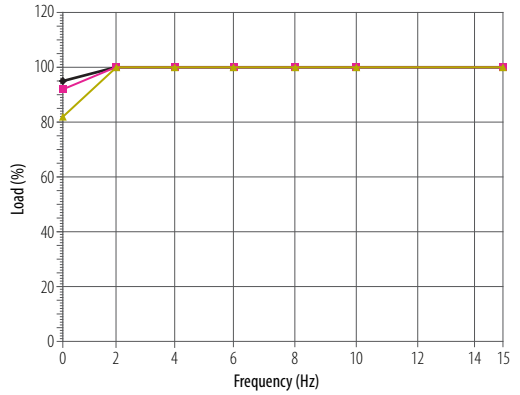


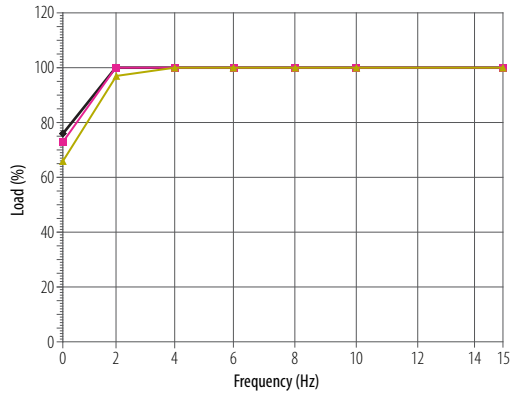




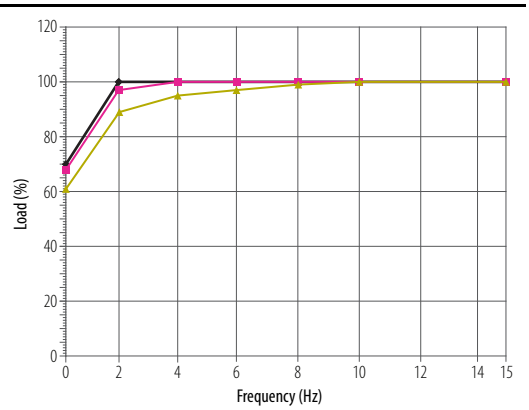
Cat. No. 20G…	Frame	480V AC Power Rating						Low Speed Derating with Reduced Carrier Frequency for IP20, UL Type 1 and IP54, UL Type 12			
		LD		ND		HD		Output Freq.	PWM Frequency		
		Hp	Cont. Amps	Hp	Cont. Amps	Hp	Cont. Amps	Hz	0.444 kHz	0.666 kHz	1.33 kHz
D1K3	9	1250	1520	1100	1365	900	1135	0	70	68	61
								2	100	97	89
								4	100	100	95
								6	100	100	97
								8	100	100	99
								10	100	100	100
								15	100	100	100
								20	100	100	100
								30	100	100	100
								45	100	100	100
								60	100	100	100
D1K4	10	1500	1655	1250	1420	1000	1365	0	95	92	83
								2	100	100	100
								4	100	100	100
								6	100	100	100
								8	100	100	100
								10	100	100	100
								15	100	100	100
								20	100	100	100
								30	100	100	100
								45	100	100	100
								60	100	100	100
D1K6	10	1800	2070	1500	1655	1100	1420	0	76	73	66
								2	100	100	97
								4	100	100	100
								6	100	100	100
								8	100	100	100
								10	100	100	100
								15	100	100	100
								20	100	100	100
								30	100	100	100
								45	100	100	100
								60	100	100	100

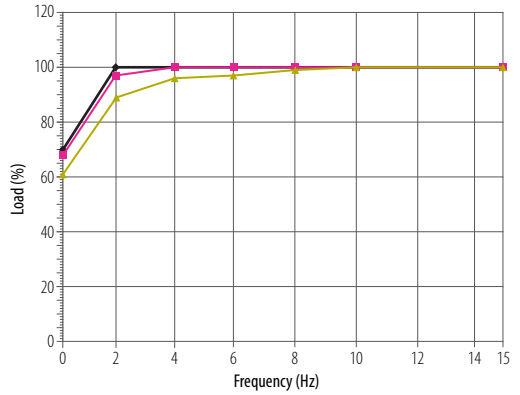


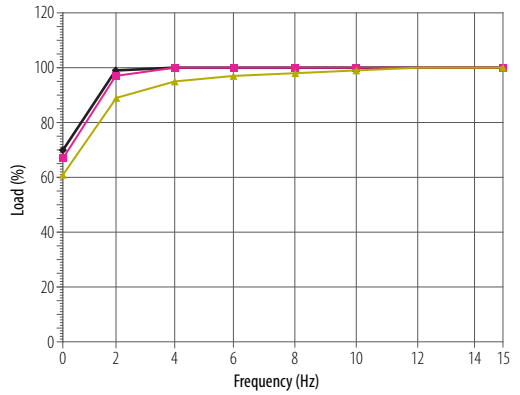




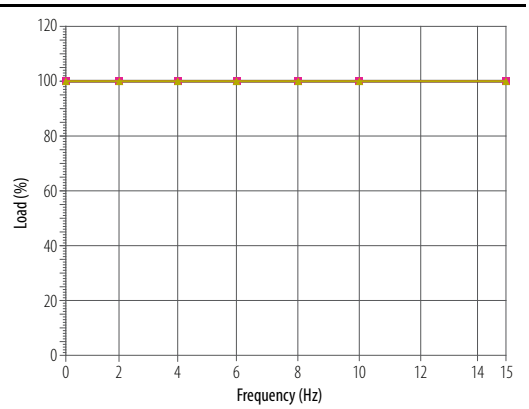
Cat. No. 20G…	Frame	480V AC Power Rating						Low Speed Derating with Reduced Carrier Frequency for IP20, UL Type 1 and IP54, UL Type 12			
		LD		ND		HD		Output Freq.	PWM Frequency		
		Hp	Cont. Amps	Hp	Cont. Amps	Hp	Cont. Amps	Hz	0.444 kHz	0.666 kHz	1.33 kHz
D2K0 D4K0	10 13	2000 3900	2240 4400	1800 3600	2072 4070	1500 2800	1655 3394	0	70	68	61
								2	100	97	89
								4	100	100	95
								6	100	100	97
								8	100	100	99
								10	100	100	100
								15	100	100	100
								20	100	100	100
								30	100	100	100
								45	100	100	100
								60	100	100	100
D2K6 D5K4	11 14	2600 5200	2960 5840	2400 4800	2738 5402	2000 3700	2240 4504	0	70	68	61
								2	100	97	89
								4	100	100	96
								6	100	100	97
								8	100	100	99
								10	100	100	100
								15	100	100	100
								20	100	100	100
								30	100	100	100
								45	100	100	100
								60	100	100	100
D3K4 D6K7	12 15	3300 6400	3696 7280	3000 6000	3404 6734	2400 4600	2980 5615	0	70	67	61
								2	99	97	89
								4	100	100	95
								6	100	100	97
								8	100	100	98
								10	100	100	99
								15	100	100	100
								20	100	100	100
								30	100	100	100
								45	100	100	100
								60	100	100	100

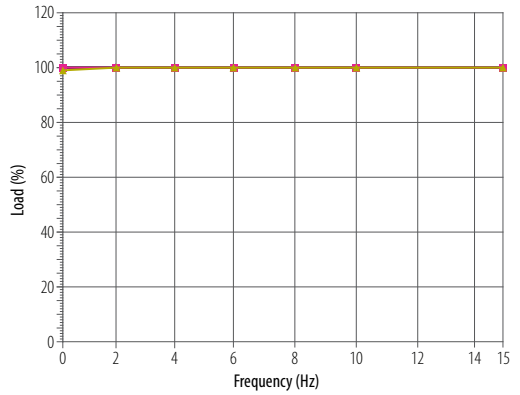


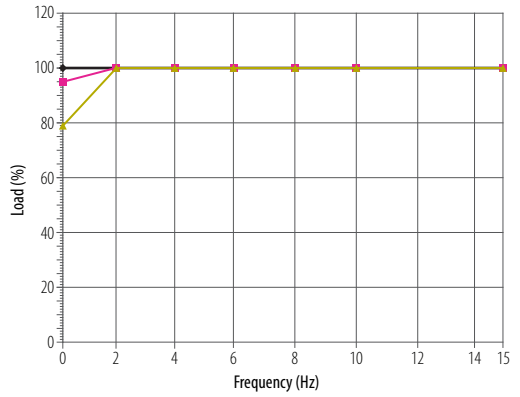




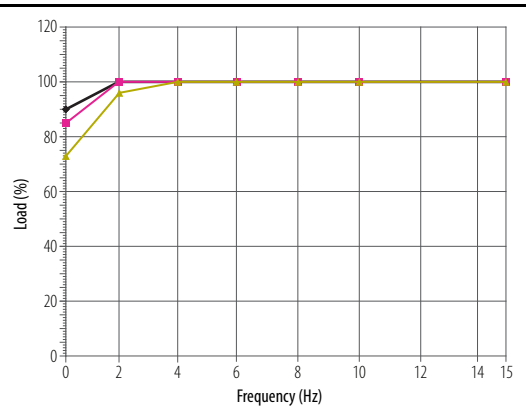
Cat. No. 20G…	Frame	600V AC Power Rating						Low Speed Derating with Reduced Carrier Frequency for IP20, UL Type 1 and IP54, UL Type 12			
		LD		ND		HD		Output Freq.	PWM Frequency		
		Hp	Cont. Amps	Hp	Cont. Amps	Hp	Cont. Amps	Hz	0.444 kHz	0.666 kHz	1.33 kHz
E192	7	250	242	200??????	192	150	144	0	100	100	100
								2	100	100	100
								4	100	100	100
								6	100	100	100
								8	100	100	100
								10	100	100	100
								15	100	100	100
								20	100	100	100
								30	100	100	100
								45	100	100	100
								60	100	100	100
E242	7	300	295	250??????	242	200	192	0	100	100	99
								2	100	100	100
								4	100	100	100
								6	100	100	100
								8	100	100	100
								10	100	100	100
								15	100	100	100
								20	100	100	100
								30	100	100	100
								45	100	100	100
								60	100	100	100
E295	7	350	355	300??????	295	250	242	0	100	95	79
								2	100	100	100
								4	100	100	100
								6	100	100	100
								8	100	100	100
								10	100	100	100
								15	100	100	100
								20	100	100	100
								30	100	100	100
								45	100	100	100
								60	100	100	100

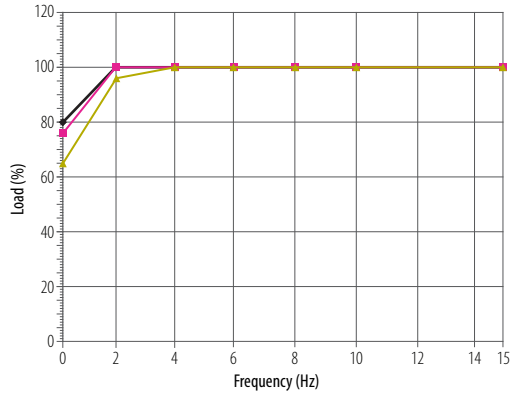


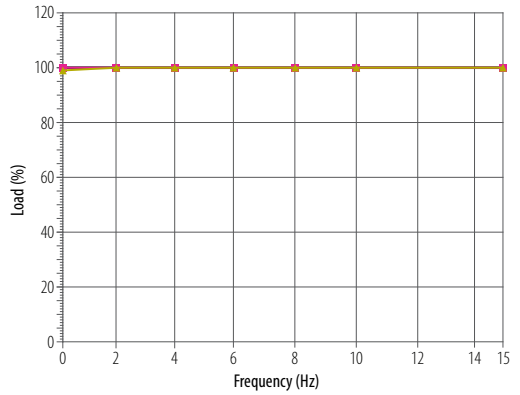




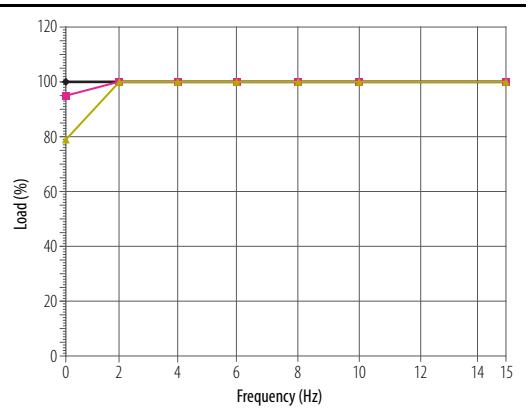
Cat. No. 20G…	Frame	600V AC Power Rating						Low Speed Derating with Reduced Carrier Frequency for IP20, UL Type 1 and IP54, UL Type 12			
		LD		ND		HD		Output Freq.	PWM Frequency		
		Hp	Cont. Amps	Hp	Cont. Amps	Hp	Cont. Amps	Hz	0.444 kHz	0.666 kHz	1.33 kHz
E355	7	400	395	350	355	300	295	0	90	85	73
								2	100	100	100
								4	100	100	100
								6	100	100	100
								8	100	100	100
								10	100	100	100
								15	100	100	100
								20	100	100	100
								30	100	100	100
								45	100	100	100
								60	100	100	100
E395	7	450	435	400	395	350	355	0	80	76	65
								2	100	100	95
								4	100	100	100
								6	100	100	100
								8	100	100	100
								10	100	100	100
								15	100	100	100
								20	100	100	100
								30	100	100	100
								45	100	100	100
								60	100	100	100
E242	8	300	295	250	242	200	192	0	100	100	99
								2	100	100	100
								4	100	100	100
								6	100	100	100
								8	100	100	100
								10	100	100	100
								15	100	100	100
								20	100	100	100
								30	100	100	100
								45	100	100	100
								60	100	100	100

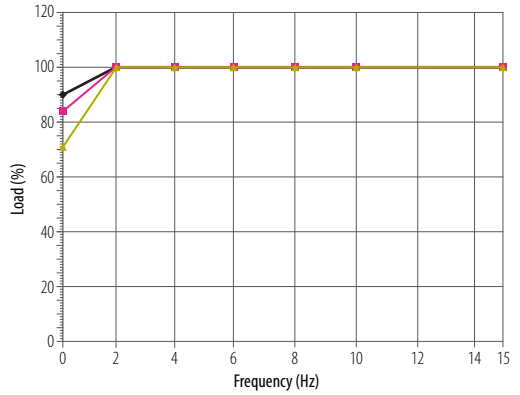


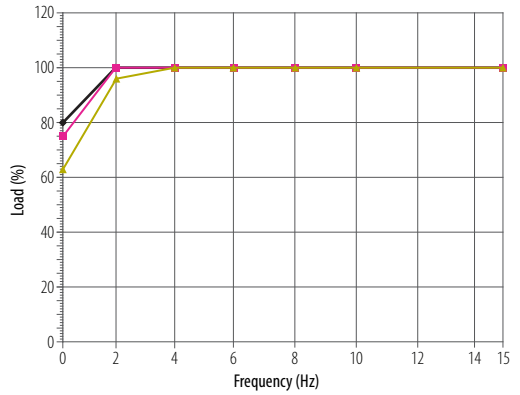




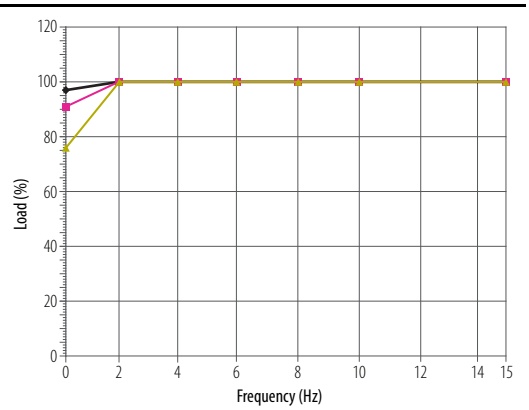
Cat. No. 20G…	Frame	600V AC Power Rating						Low Speed Derating with Reduced Carrier Frequency for IP20, UL Type 1 and IP54, UL Type 12			
		LD		ND		HD		Output Freq.	PWM Frequency		
		Hp	Cont. Amps	Hp	Cont. Amps	Hp	Cont. Amps	Hz	0.444 kHz	0.666 kHz	1.33 kHz
E295	8	350	355	300	295	250	242	0	100	95	79
								2	100	100	100
								4	100	100	100
								6	100	100	100
								8	100	100	100
								10	100	100	100
								15	100	100	100
								20	100	100	100
								30	100	100	100
								45	100	100	100
								60	100	100	100
E355	8	400	395	350	355	300	295	0	90	84	71
								2	100	100	100
								4	100	100	100
								6	100	100	100
								8	100	100	100
								10	100	100	100
								15	100	100	100
								20	100	100	100
								30	100	100	100
								45	100	100	100
								60	100	100	100
E395	8	450	435	400	395	350	355	0	80	75	63
								2	100	100	96
								4	100	100	100
								6	100	100	100
								8	100	100	100
								10	100	100	100
								15	100	100	100
								20	100	100	100
								30	100	100	100
								45	100	100	100
								60	100	100	100

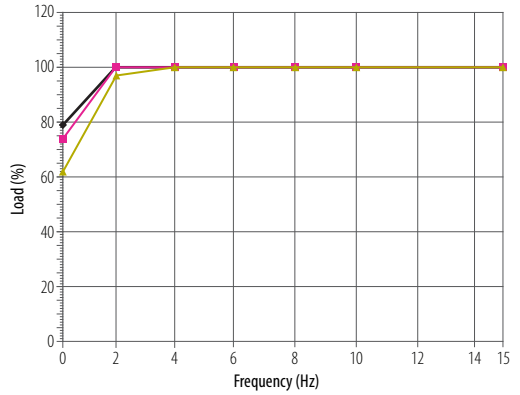


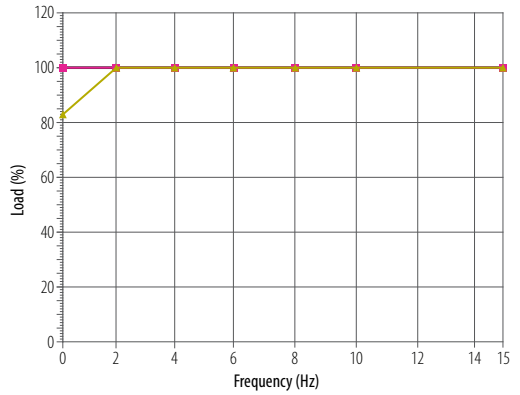




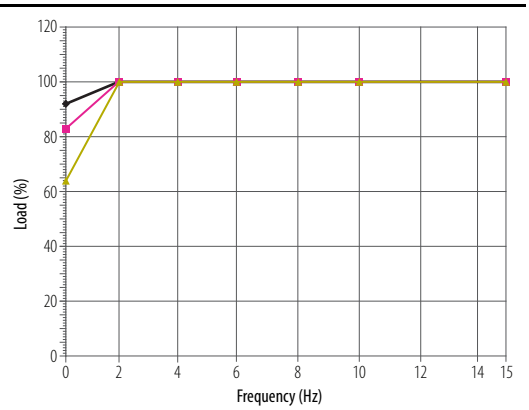
Cat. No. 20G…	Frame	600V AC Power Rating						Low Speed Derating with Reduced Carrier Frequency for IP20, UL Type 1 and IP54, UL Type 12			
		LD		ND		HD		Output Freq.	PWM Frequency		
		Hp	Cont. Amps	Hp	Cont. Amps	Hp	Cont. Amps	Hz	0.444 kHz	0.666 kHz	1.33 kHz
C435????	8	500	510	450	435	400	395	0	97	91	76
								2	100	100	100
								4	100	100	100
								6	100	100	100
								8	100	100	100
								10	100	100	100
								15	100	100	100
								20	100	100	100
								30	100	100	100
								45	100	100	100
								60	100	100	100
E545	8	600	580	550	545	450	450	0	79	74	62
								2	100	100	97
								4	100	100	100
								6	100	100	100
								8	100	100	100
								10	100	100	100
								15	100	100	100
								20	100	100	100
								30	100	100	100
								45	100	100	100
								60	100	100	100
E595	9	700	690	600	580	550	545	0	100	100	83
								2	100	100	100
								4	100	100	100
								6	100	100	100
								8	100	100	100
								10	100	100	100
								15	100	100	100
								20	100	100	100
								30	100	100	100
								45	100	100	100
								60	100	100	100

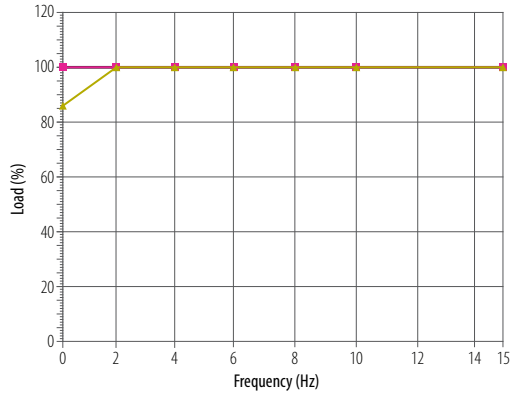


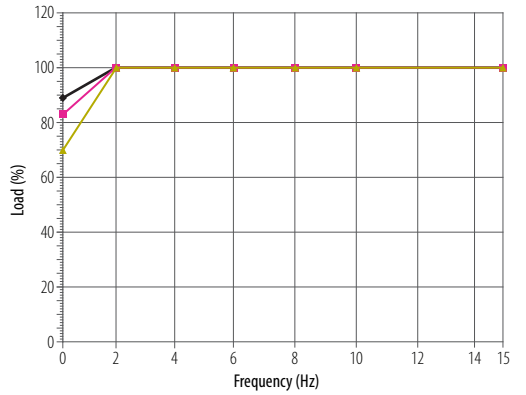




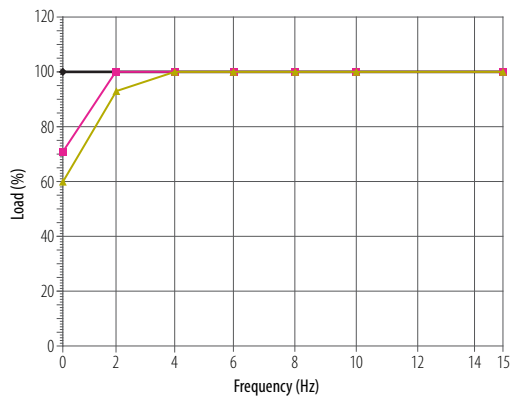
Cat. No. 20G…	Frame	600V AC Power Rating						Low Speed Derating with Reduced Carrier Frequency for IP20, UL Type 1 and IP54, UL Type 12			
		LD		ND		HD		Output Freq.	PWM Frequency		
		Hp	Cont. Amps	Hp	Cont. Amps	Hp	Cont. Amps	Hz	0.444 kHz	0.666 kHz	1.33 kHz
E690	9	800	760	700	690	600	595	0	92	83	64
								2	100	100	100
								4	100	100	100
								6	100	100	100
								8	100	100	100
								10	100	100	100
								15	100	100	100
								20	100	100	100
								30	100	100	100
								45	100	100	100
								60	100	100	100
E760	9	900	825	800	760	700	690	0	100	100	86
								2	100	100	100
								4	100	100	100
								6	100	100	100
								8	100	100	100
								10	100	100	100
								15	100	100	100
								20	100	100	100
								30	100	100	100
								45	100	100	100
								60	100	100	100
E825	9	1000	980	900	825	800	760	0	89	83	70
								2	100	100	100
								4	100	100	100
								6	100	100	100
								8	100	100	100
								10	100	100	100
								15	100	100	100
								20	100	100	100
								30	100	100	100
								45	100	100	100
								60	100	100	100

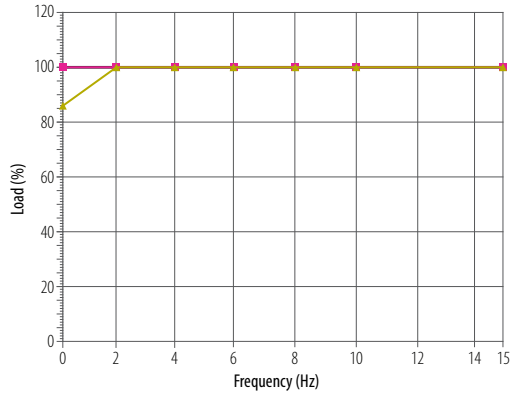


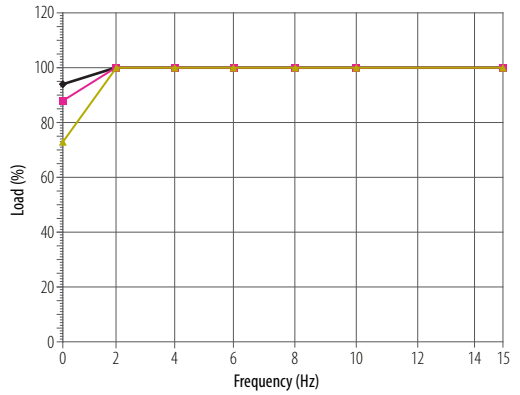




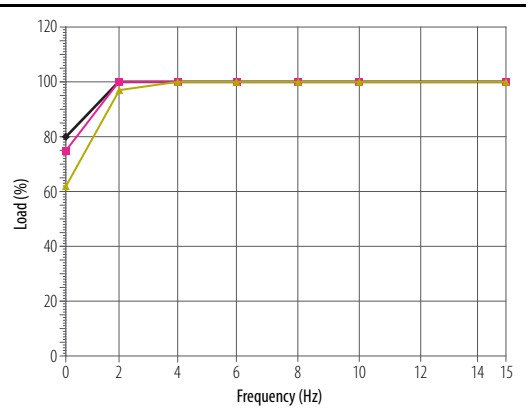
Cat. No. 20G…	Frame	600V AC Power Rating						Low Speed Derating with Reduced Carrier Frequency for IP20, UL Type 1 and IP54, UL Type 12			
		LD		ND		HD		Output Freq.	PWM Frequency		
		Hp	Cont. Amps	Hp	Cont. Amps	Hp	Cont. Amps	Hz	0.444 kHz	0.666 kHz	1.33 kHz
E980	9	1100	1102	1000	980	900	825	0	76	71	60
								2	100	100	93
								4	100	100	100
								6	100	100	100
								8	100	100	100
								10	100	100	100
								15	100	100	100
								20	100	100	100
								30	100	100	100
								45	100	100	100
								60	100	100	100
E1K1	10	1250	1220	1100	1045	1000	980	0	100	100	86
								2	100	100	100
								4	100	100	100
								6	100	100	100
								8	100	100	100
								10	100	100	100
								15	100	100	100
								20	100	100	100
								30	100	100	100
								45	100	100	100
								60	100	100	100
E1K2	10	1500	1430	1250	1220	1100	1045	0	94	88	73
								2	100	100	100
								4	100	100	100
								6	100	100	100
								8	100	100	100
								10	100	100	100
								15	100	100	100
								20	100	100	100
								30	100	100	100
								45	100	100	100
								60	100	100	100

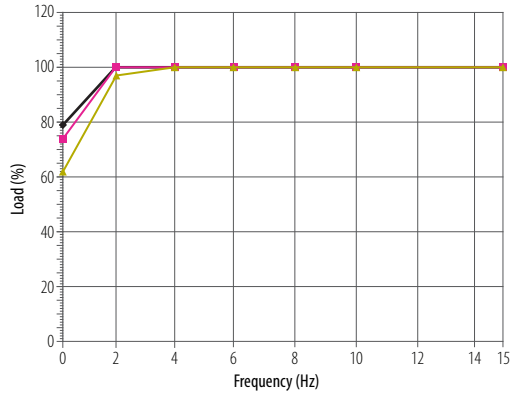


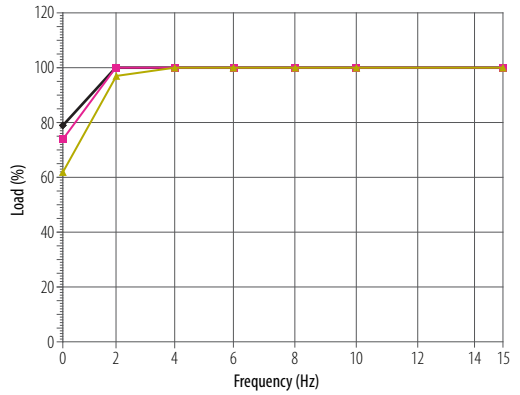




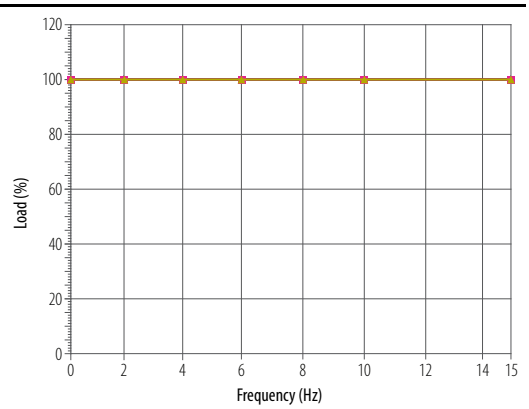
Cat. No. 20G…	Frame	600V AC Power Rating						Low Speed Derating with Reduced Carrier Frequency for IP20, UL Type 1 and IP54, UL Type 12			
		LD		ND		HD		Output Freq.	PWM Frequency		
		Hp	Cont. Amps	Hp	Cont. Amps	Hp	Cont. Amps	Hz	0.444 kHz	0.666 kHz	1.33 kHz
E1K5	10	1600	1624	1500	1430	1250	1220	0	80	75	62
E2K9	13	3300	3190	3100	2998	2500	2475	2	100	100	97
								4	100	100	100
								6	100	100	100
								8	100	100	100
								10	100	100	100
								15	100	100	100
								20	100	100	100
								30	100	100	100
								45	100	100	100
								60	100	100	100
E2K0	11	2100	2146	2000	1946	1800	1700	0	79	74	62
E3K9	14	4400	4234	4100	3979	3300	3285	2	100	100	97
								4	100	100	100
								6	100	100	100
								8	100	100	100
								10	100	100	100
								15	100	100	100
								20	100	100	100
								30	100	100	100
								45	100	100	100
								60	100	100	100
E2K4	12	2600	2668	2500	2420	2100	2070	0	79	74	62
E4K9	15	5500	5278	5100	4960	4100	4095	2	100	100	97
								4	100	100	100
								6	100	100	100
								8	100	100	100
								10	100	100	100
								15	100	100	100
								20	100	100	100
								30	100	100	100
								45	100	100	100
								60	100	100	100

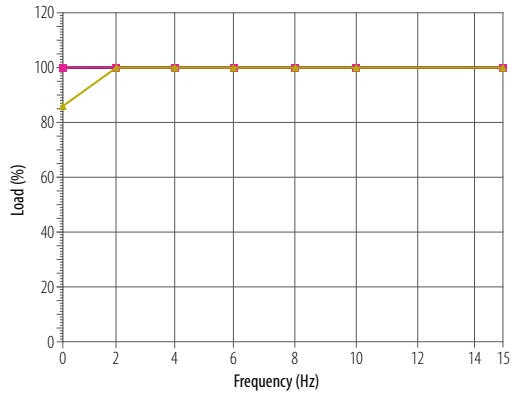


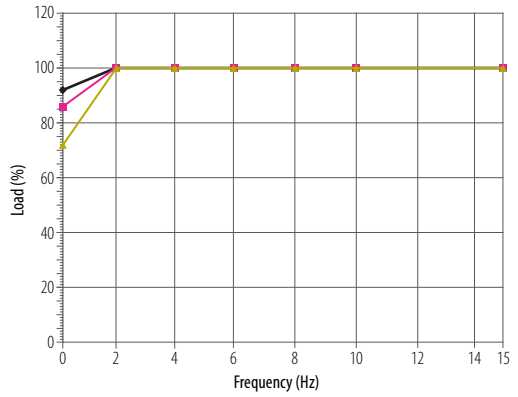




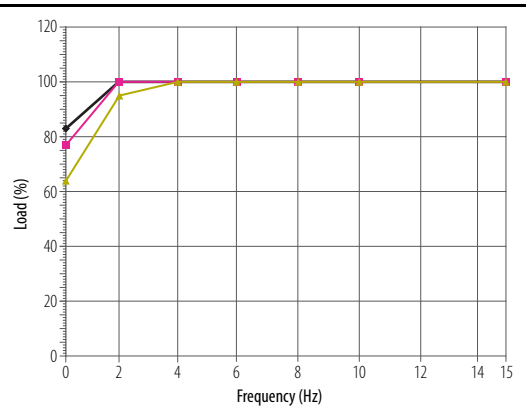
Cat. No. 20G…	Frame	690V AC Power Rating						Low Speed Derating with Reduced Carrier Frequency for IP20, UL Type 1 and IP54, UL Type 12			
		LD		ND		HD		Output Freq.	PWM Frequency		
		kW	Cont. Amps	kW	Cont. Amps	kW	Cont. Amps	Hz	0.444 kHz	0.666 kHz	1.33 kHz
F171	7	200	215	160	171	132	142	0	100	100	100
								2	100	100	100
								4	100	100	100
								6	100	100	100
								8	100	100	100
								10	100	100	100
								15	100	100	100
								20	100	100	100
								30	100	100	100
								45	100	100	100
								60	100	100	100
F215	7	250	265	200	215	160	171	0	100	100	86
								2	100	100	100
								4	100	100	100
								6	100	100	100
								8	100	100	100
								10	100	100	100
								15	100	100	100
								20	100	100	100
								30	100	100	100
								45	100	100	100
								60	100	100	100
F265	7	315	330	250	265	200	215	0	92	86	72
								2	100	100	100
								4	100	100	100
								6	100	100	100
								8	100	100	100
								10	100	100	100
								15	100	100	100
								20	100	100	100
								30	100	100	100
								45	100	100	100
								60	100	100	100

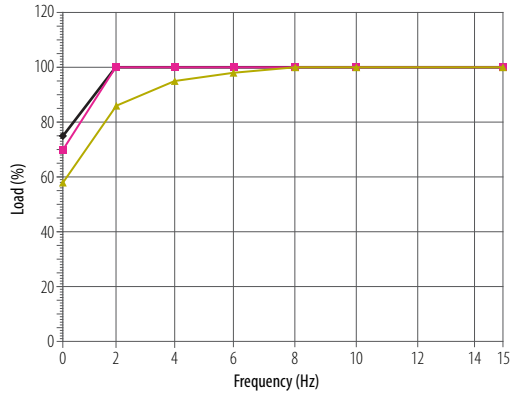


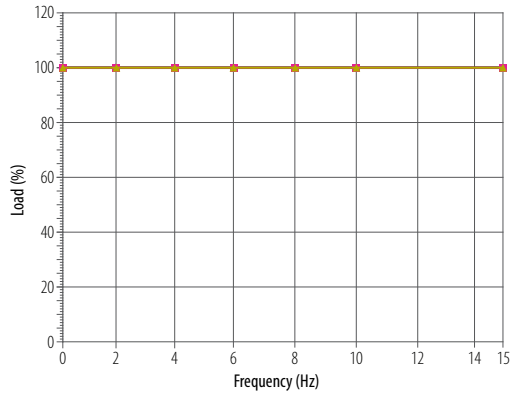




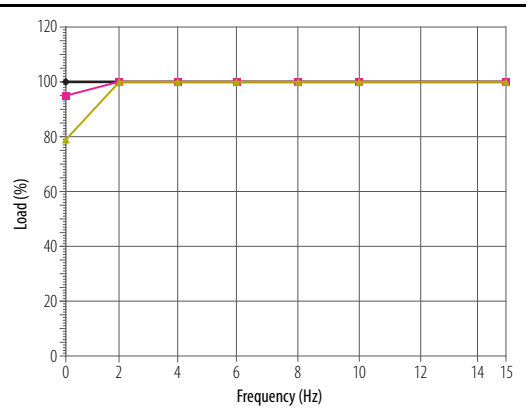
Cat. No. 20G…	Frame	690V AC Power Rating						Low Speed Derating with Reduced Carrier Frequency for IP20, UL Type 1 and IP54, UL Type 12			
		LD		ND		HD		Output Freq.	PWM Frequency		
		kW	Cont. Amps	kW	Cont. Amps	kW	Cont. Amps	Hz	0.444 kHz	0.666 kHz	1.33 kHz
F330	7	355	370	315	330	250	265	0	83	77	64
								2	100	100	95
								4	100	100	100
								6	100	100	100
								8	100	100	100
								10	100	100	100
								15	100	100	100
								20	100	100	100
								30	100	100	100
								45	100	100	100
								60	100	100	100
F370	7	400	415	355	370	315	330	0	75	70	58
								2	100	100	86
								4	100	100	95
								6	100	100	98
								8	100	100	100
								10	100	100	100
								15	100	100	100
								20	100	100	100
								30	100	100	100
								45	100	100	100
								60	100	100	100
F215	8	250	265	200	215	160	171	0	100	100	99
								2	100	100	100
								4	100	100	100
								6	100	100	100
								8	100	100	100
								10	100	100	100
								15	100	100	100
								20	100	100	100
								30	100	100	100
								45	100	100	100
								60	100	100	100

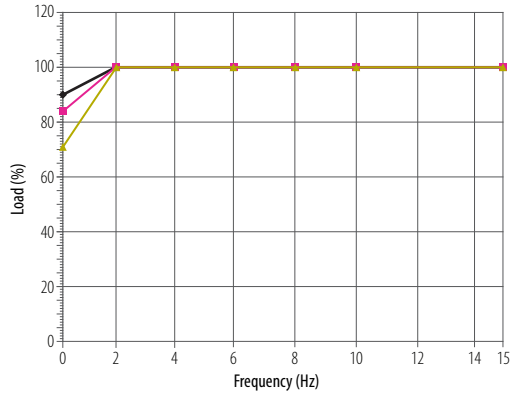


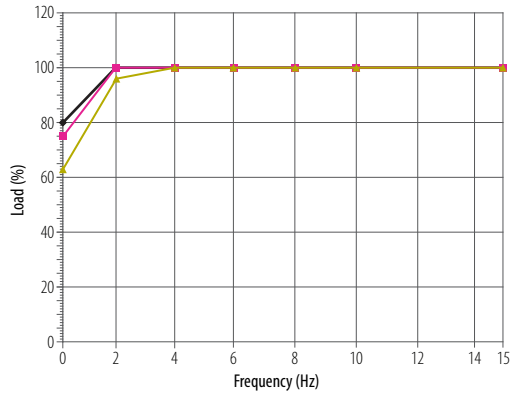




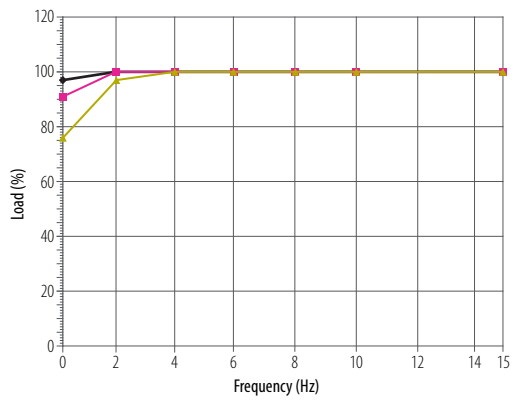
Cat. No. 20G…	Frame	690V AC Power Rating						Low Speed Derating with Reduced Carrier Frequency for IP20, UL Type 1 and IP54, UL Type 12			
		LD		ND		HD		Output Freq.	PWM Frequency		
		kW	Cont. Amps	kW	Cont. Amps	kW	Cont. Amps	Hz	0.444 kHz	0.666 kHz	1.33 kHz
F265	8	315	330	250	265	200	215	0	100	95	79
								2	100	100	100
								4	100	100	100
								6	100	100	100
								8	100	100	100
								10	100	100	100
								15	100	100	100
								20	100	100	100
								30	100	100	100
								45	100	100	100
								60	100	100	100
F330	8	355	370	315	330	250	265	0	90	84	71
								2	100	100	100
								4	100	100	100
								6	100	100	100
								8	100	100	100
								10	100	100	100
								15	100	100	100
								20	100	100	100
								30	100	100	100
								45	100	100	100
								60	100	100	100
F370	8	400	415	355	370	315	330	0	80	75	63
								2	100	100	96
								4	100	100	100
								6	100	100	100
								8	100	100	100
								10	100	100	100
								15	100	100	100
								20	100	100	100
								30	100	100	100
								45	100	100	100
								60	100	100	100

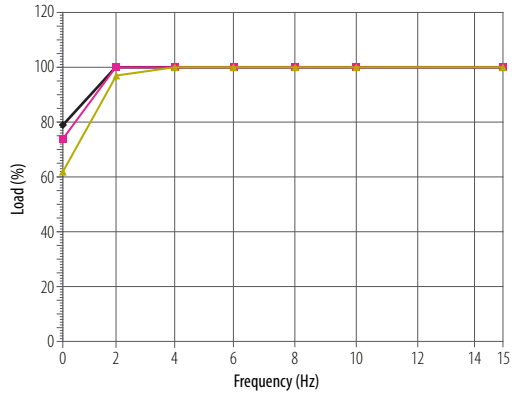


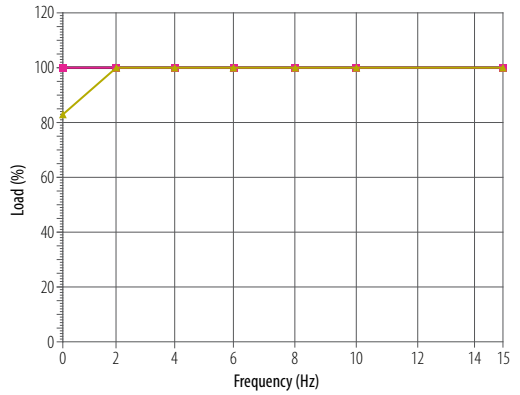




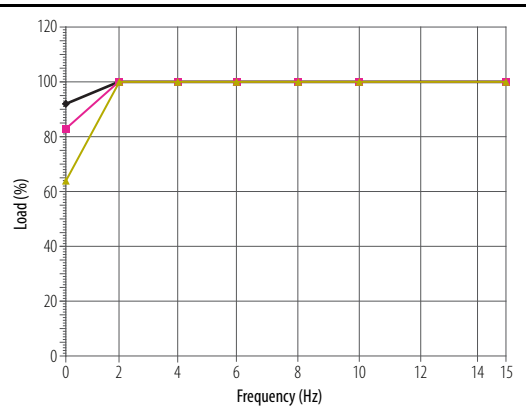
Cat. No. 20G…	Frame	690V AC Power Rating						Low Speed Derating with Reduced Carrier Frequency for IP20, UL Type 1 and IP54, UL Type 12			
		LD		ND		HD		Output Freq.	PWM Frequency		
		kW	Cont. Amps	kW	Cont. Amps	kW	Cont. Amps	Hz	0.444 kHz	0.666 kHz	1.33 kHz
F415	8	450	460	400	415	355	370	0	97	91	76
								2	100	100	100
								4	100	100	100
								6	100	100	100
								8	100	100	100
								10	100	100	100
								15	100	100	100
								20	100	100	100
								30	100	100	100
								45	100	100	100
								60	100	100	100
F505	8	560	565	500	505	400	415	0	79	74	62
								2	100	100	97
								4	100	100	100
								6	100	100	100
								8	100	100	100
								10	100	100	100
								15	100	100	100
								20	100	100	100
								30	100	100	100
								45	100	100	100
								60	100	100	100
F565	9	630	650	560	565	500	505	0	100	100	83
								2	100	100	100
								4	100	100	100
								6	100	100	100
								8	100	100	100
								10	100	100	100
								15	100	100	100
								20	100	100	100
								30	100	100	100
								45	100	100	100
								60	100	100	100

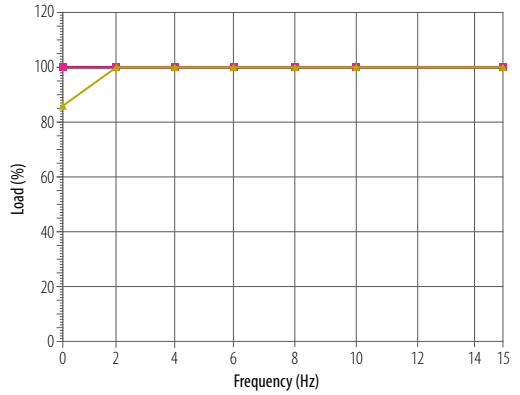


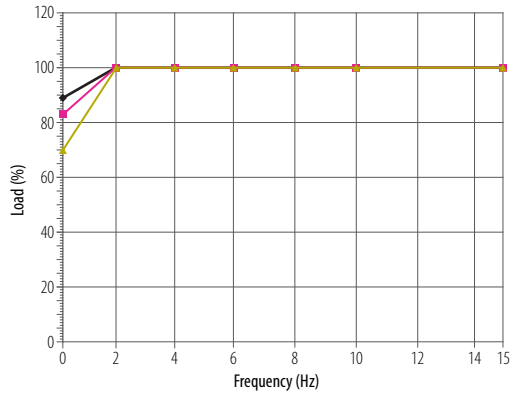




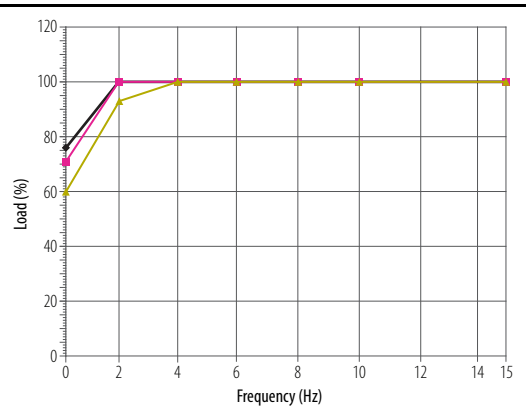
Cat. No. 20G…	Frame	690V AC Power Rating						Low Speed Derating with Reduced Carrier Frequency for IP20, UL Type 1 and IP54, UL Type 12			
		LD		ND		HD		Output Freq.	PWM Frequency		
		kW	Cont. Amps	kW	Cont. Amps	kW	Cont. Amps	Hz	0.444 kHz	0.666 kHz	1.33 kHz
F650	9	710	735	630	650	560	565	0	92	83	64
								2	100	100	100
								4	100	100	100
								6	100	100	100
								8	100	100	100
								10	100	100	100
								15	100	100	100
								20	100	100	100
								30	100	100	100
								45	100	100	100
								60	100	100	100
F735	9	800	820	710	735	630	650	0	100	100	86
								2	100	100	100
								4	100	100	100
								6	100	100	100
								8	100	100	100
								10	100	100	100
								15	100	100	100
								20	100	100	100
								30	100	100	100
								45	100	100	100
								60	100	100	100
F820	9	900	920	800	820	710	735	0	89	83	70
								2	100	100	100
								4	100	100	100
								6	100	100	100
								8	100	100	100
								10	100	100	100
								15	100	100	100
								20	100	100	100
								30	100	100	100
								45	100	100	100
								60	100	100	100

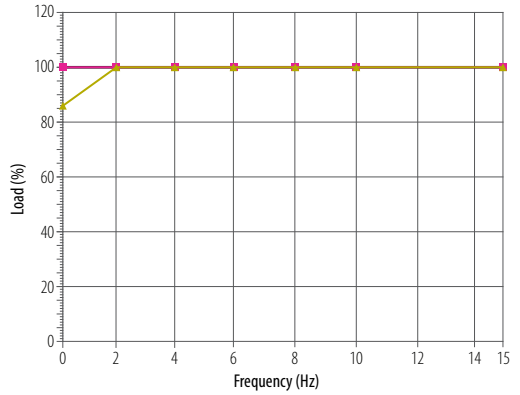


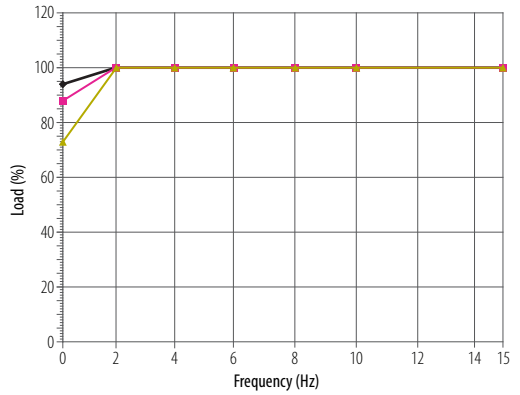




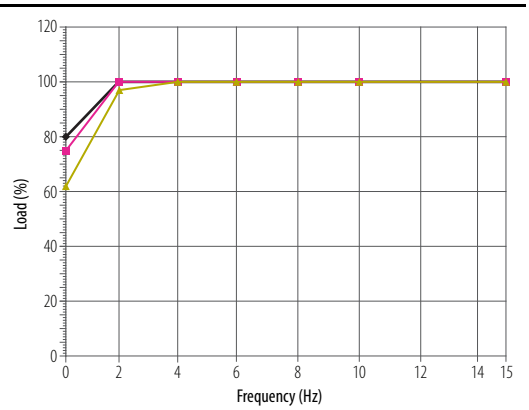
Cat. No. 20G…	Frame	690V AC Power Rating						Low Speed Derating with Reduced Carrier Frequency for IP20, UL Type 1 and IP54, UL Type 12			
		LD		ND		HD		Output Freq.	PWM Frequency		
		kW	Cont. Amps	kW	Cont. Amps	kW	Cont. Amps	Hz	0.444 kHz	0.666 kHz	1.33 kHz
F920	9	1000	1074	900	920	800	820	0	76	71	60
								2	100	100	93
								4	100	100	100
								6	100	100	100
								8	100	100	100
								10	100	100	100
								15	100	100	100
								20	100	100	100
								30	100	100	100
								45	100	100	100
								60	100	100	100
F1K0	10	1100	1150	1000	1030	900	920	0	100	100	86
								2	100	100	100
								4	100	100	100
								6	100	100	100
								8	100	100	100
								10	100	100	100
								15	100	100	100
								20	100	100	100
								30	100	100	100
								45	100	100	100
								60	100	100	100
F1K1	10	1250	1344	1100	1150	1000	1030	0	94	88	73
								2	100	100	100
								4	100	100	100
								6	100	100	100
								8	100	100	100
								10	100	100	100
								15	100	100	100
								20	100	100	100
								30	100	100	100
								45	100	100	100
								60	100	100	100

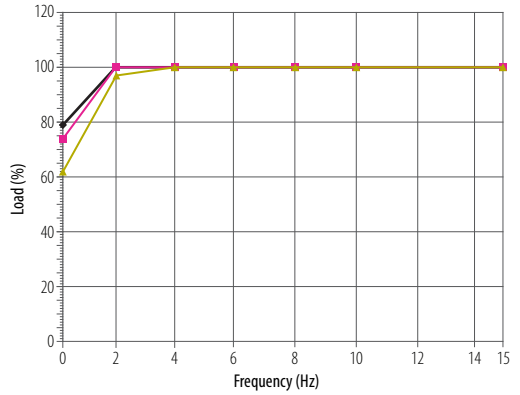


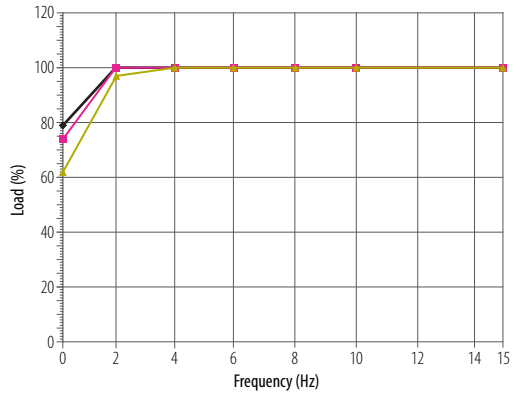




Cat. No. 20G…	Frame	690V AC Power Rating						Low Speed Derating with Reduced Carrier Frequency for IP20, UL Type 1 and IP54, UL Type 12			
		LD		ND		HD		Output Freq.	PWM Frequency		
		kW	Cont. Amps	kW	Cont. Amps	kW	Cont. Amps	Hz	0.444 kHz	0.666 kHz	1.33 kHz
F1K4	10	1500	1582	1400	1419	1100	1162	0	80	75	62
F2K7	13	3080	3108	2750	2778	2200	2283	2	100	100	97
								4	100	100	100
								6	100	100	100
								8	100	100	100
								10	100	100	100
								15	100	100	100
								20	100	100	100
								30	100	100	100
								45	100	100	100
								60	100	100	100
F1K8	11	2000	2091	1800	1865	1500	1535	0	79	74	62
F3K6	14	4088	4125	3650	3687	2920	3030	2	100	100	97
								4	100	100	100
								6	100	100	100
								8	100	100	100
								10	100	100	100
								15	100	100	100
								20	100	100	100
								30	100	100	100
								45	100	100	100
								60	100	100	100
F2K3	12	2500	2599	2300	2318	2000	2020	0	79	74	62
F4K5	15	5096	5142	4550	4596	3640	3777	2	100	100	97
								4	100	100	100
								6	100	100	100
								8	100	100	100
								10	100	100	100
								15	100	100	100
								20	100	100	100
								30	100	100	100
								45	100	100	100
								60	100	100	100



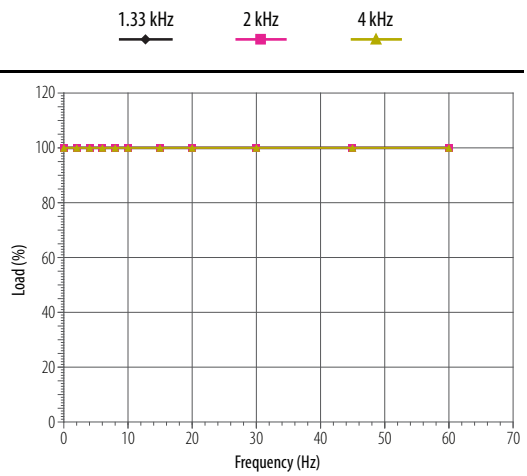


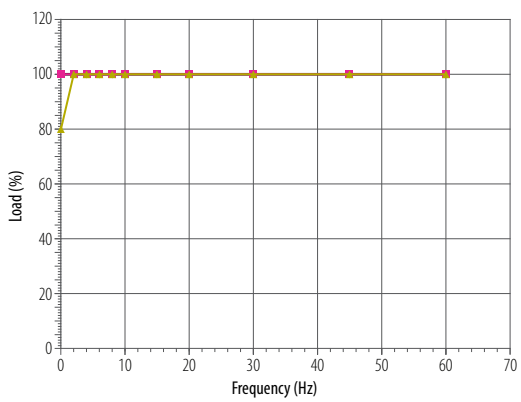


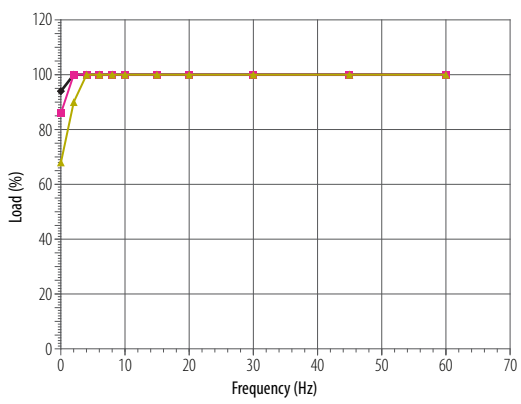
Low Speed Derating

The following graphs show the carrier frequency deratings for motor side inverters. If a catalog number is not shown, that drive can be operated without derating as long as the limits specified on page 142 are followed.

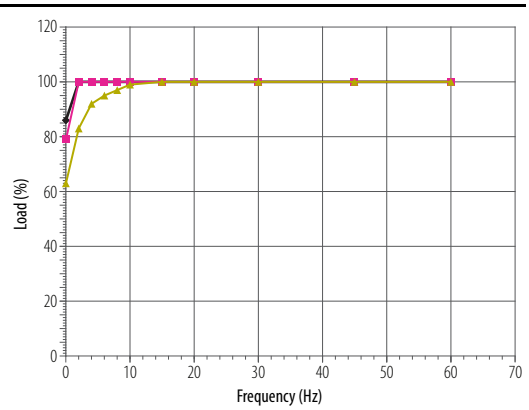
Cat. No. 20G…	Frame	400V AC Power Rating						Low Speed/Load Derating for IP20, UL Type 1 and IP54, UL Type 12			
		LD		ND		HD		Output Freq.	PWM Frequency		
		kW	Cont. Amps	kW	Cont. Amps	kW	Cont. Amps	Hz	1.33 kHz	2 kHz	4 kHz
C302	7	200	367	160	302	132	260	0	100	100	100
								2	100	100	100
								4	100	100	100
								6	100	100	100
								8	100	100	100
								10	100	100	100
								15	100	100	100
								20	100	100	100
								30	100	100	100
								45	100	100	100
								60	100	100	100
C367	7	250	460	200	367	160	302	0	100	100	80
								2	100	100	100
								4	100	100	100
								6	100	100	100
								8	100	100	100
								10	100	100	100
								15	100	100	100
								20	100	100	100
								30	100	100	100
								45	100	100	100
								60	100	100	100
C460	7	315	540	250	460	200	367	0	94	86	68
								2	100	100	90
								4	100	100	100
								6	100	100	100
								8	100	100	100
								10	100	100	100
								15	100	100	100
								20	100	100	100
								30	100	100	100
								45	100	100	100
								60	100	100	100

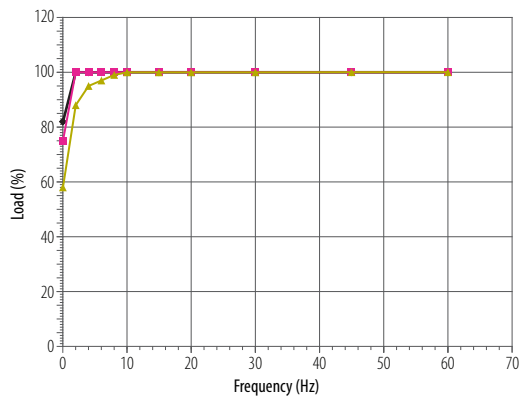


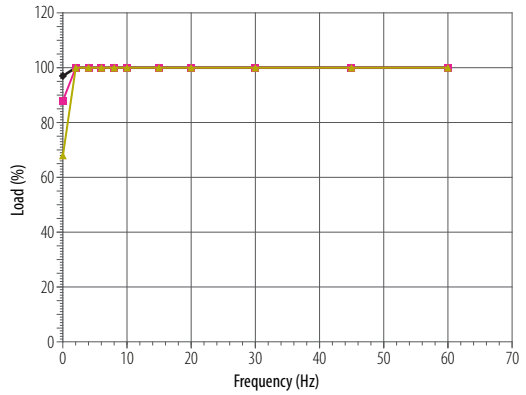




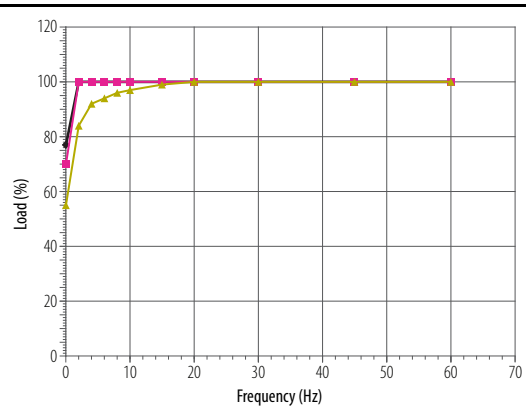
Cat. No. 20G…	Frame	400V AC Power Rating						Low Speed/Load Derating for IP20, UL Type 1 and IP54, UL Type 12			
		LD		ND		HD		Output Freq.	PWM Frequency		
		kW	Cont. Amps	kW	Cont. Amps	kW	Cont. Amps	Hz	1.33 kHz	2 kHz	4 kHz
C540	7	315	585	315	540	250	460	0	86	79	63
								2	100	100	83
								4	100	100	92
								6	100	100	95
								8	100	100	97
								10	100	100	99
								15	100	100	100
								20	100	100	100
								30	100	100	100
								45	100	100	100
								60	100	100	100
C585	7	315	617	315	600	250	500	0	82	75	60
								2	100	97	79
								4	100	100	87
								6	100	100	90
								8	100	100	92
								10	100	100	94
								15	100	100	97
								20	100	100	99
								30	100	100	100
								45	100	100	100
								60	100	100	100
C302	8	200	367	160	302	132	260	0	97	88	68
								2	100	100	100
								4	100	100	100
								6	100	100	100
								8	100	100	100
								10	100	100	100
								15	100	100	100
								20	100	100	100
								30	100	100	100
								45	100	100	100
								60	100	100	100

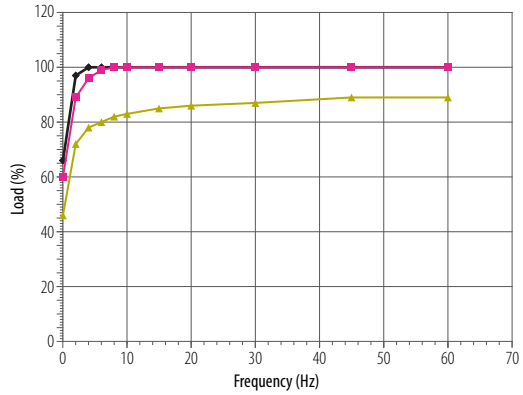


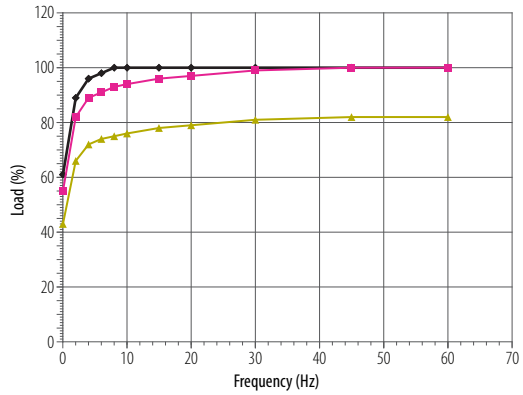




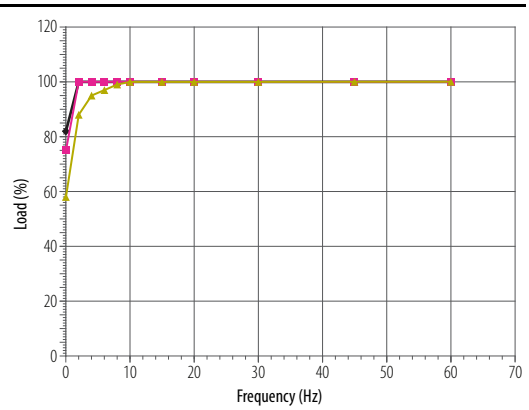
Cat. No. 20G…	Frame	400V AC Power Rating						Low Speed/Load Derating for IP20, UL Type 1 and IP54, UL Type 12			
		LD		ND		HD		Output Freq.	PWM Frequency		
		kW	Cont. Amps	kW	Cont. Amps	kW	Cont. Amps	Hz	1.33 kHz	2 kHz	4 kHz
C367	8	250	460	200	367	160	302	0	77	70	55
								2	100	100	84
								4	100	100	92
								6	100	100	94
								8	100	100	96
								10	100	100	97
								15	100	100	99
								20	100	100	100
								30	100	100	100
								45	100	100	100
								60	100	100	100
C460	8	315	540	250	460	200	367	0	66	60	46
								2	97	89	72
								4	100	96	78
								6	100	99	80
								8	100	100	82
								10	100	100	83
								15	100	100	85
								20	100	100	86
								30	100	100	87
								45	100	100	89
								60	100	100	89
C540	8	315	585	315	540	250	460	0	61	55	43
								2	89	82	66
								4	96	89	72
								6	98	91	74
								8	100	93	75
								10	100	94	76
								15	100	96	78
								20	100	97	79
								30	100	99	81
								45	100	100	82
								60	100	100	82

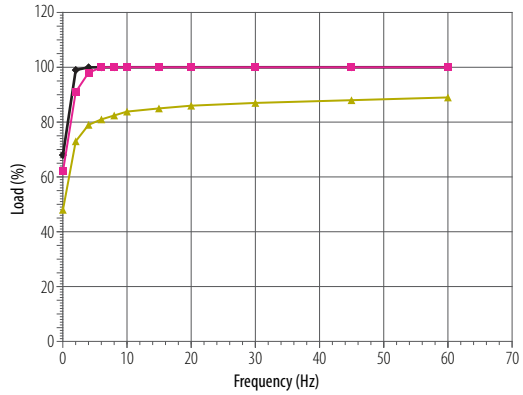


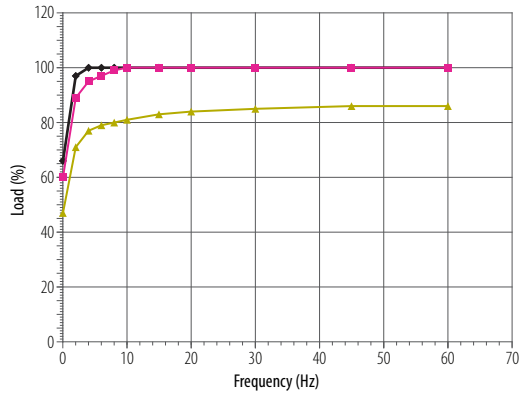




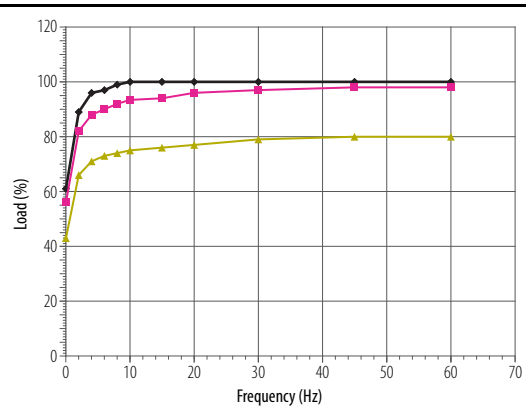
Cat. No. 20G…	Frame	400V AC Power Rating						Low Speed/Load Derating for IP20, UL Type 1 and IP54, UL Type 12			
		LD		ND		HD		Output Freq.	PWM Frequency		
		kW	Cont. Amps	kW	Cont. Amps	kW	Cont. Amps	Hz	1.33 kHz	2 kHz	4 kHz
C585	8	355	650	315	585	250	472	0	82	75	58
								2	100	100	88
								4	100	100	95
								6	100	100	97
								8	100	100	99
								10	100	100	100
								15	100	100	100
								20	100	100	100
								30	100	100	100
								45	100	100	100
								60	100	100	100
C650	8	400	750	355	650	315	540	0	68	62	48
								2	99	91	73
								4	100	98	79
								6	100	100	81
								8	100	100	82
								10	100	100	83
								15	100	100	85
								20	100	100	86
								30	100	100	87
								45	100	100	88
								60	100	100	89
C750	8	450	796	400	750	315	585	0	66	60	47
								2	97	89	71
								4	100	95	77
								6	100	97	79
								8	100	99	80
								10	100	100	81
								15	100	100	83
								20	100	100	84
								30	100	100	85
								45	100	100	86
								60	100	100	86

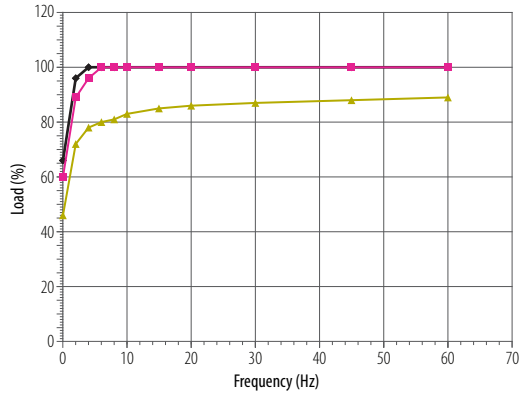


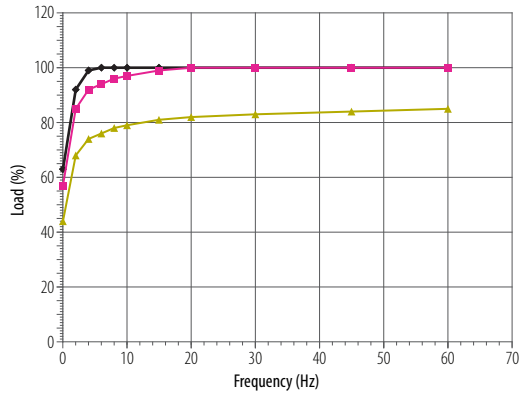




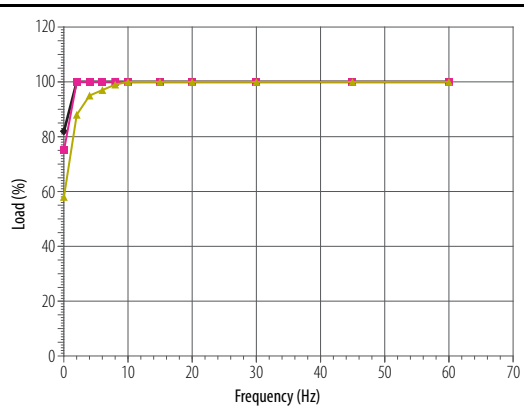
Cat. No. 20G…	Frame	400V AC Power Rating						Low Speed/Load Derating for IP20, UL Type 1 and IP54, UL Type 12			
		LD		ND		HD		Output Freq.	PWM Frequency		
		kW	Cont. Amps	kW	Cont. Amps	kW	Cont. Amps	Hz	1.33 kHz	2 kHz	4 kHz
C770	8	450	832	400	770	355	650	0	61	56	43
								2	89	82	66
								4	96	88	71
								6	97	90	73
								8	99	92	74
								10	100	93	75
								15	100	94	76
								20	100	96	77
								30	100	97	79
								45	100	98	80
								60	100	98	80
C920	9	560	1040	500	920	400	770	0	66	60	46
								2	96	89	72
								4	100	96	78
								6	100	99	80
								8	100	100	81
								10	100	100	83
								15	100	100	85
								20	100	100	86
								30	100	100	87
								45	100	100	88
								60	100	100	89
C1K0	9	630	1090	560	1040	500	920	0	63	57	44
								2	92	85	68
								4	99	92	74
								6	100	94	76
								8	100	96	78
								10	100	97	79
								15	100	99	81
								20	100	100	82
								30	100	100	83
								45	100	100	84
								60	100	100	85

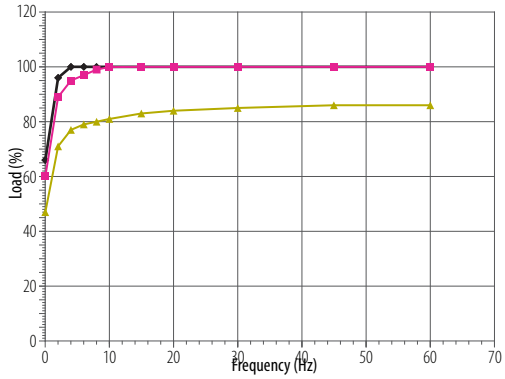


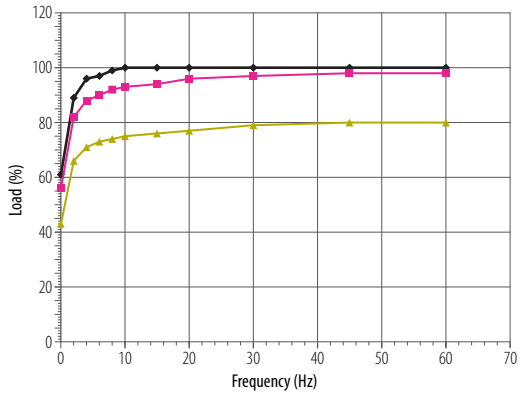




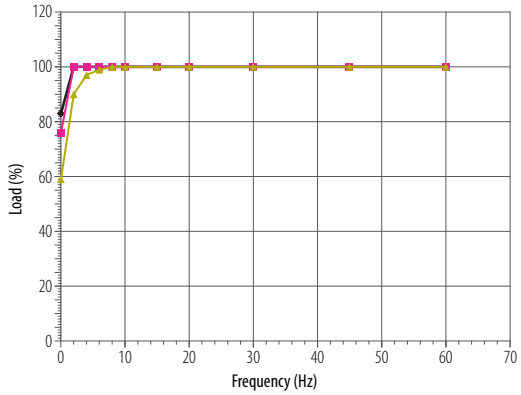
Cat. No. 20G…	Frame	400V AC Power Rating						Low Speed/Load Derating for IP20, UL Type 1 and IP54, UL Type 12			
		LD		ND		HD		Output Freq.	PWM Frequency		
		kW	Cont. Amps	kW	Cont. Amps	kW	Cont. Amps	Hz	1.33 kHz	2 kHz	4 kHz
C1K1	9	710	1182	630	1112	500	1040	0	82	75	58
								2	100	100	88
								4	100	100	95
								6	100	100	97
								8	100	100	99
								10	100	100	100
								15	100	100	100
								20	100	100	100
								30	100	100	100
								45	100	100	100
								60	100	100	100
C1K2	9	800	1465	710	1175	560	1090	0	66	60	47
								2	96	89	71
								4	100	95	77
								6	100	97	79
								8	100	99	80
								10	100	100	81
								15	100	100	83
								20	100	100	84
								30	100	100	85
								45	100	100	86
								60	100	100	86
C1K4	9	850	1581	800	1463	630	1175	0	61	56	43
								2	89	82	66
								4	96	88	71
								6	97	90	73
								8	99	92	74
								10	100	93	75
								15	100	94	76
								20	100	96	77
								30	100	97	79
								45	100	98	80
								60	100	98	80

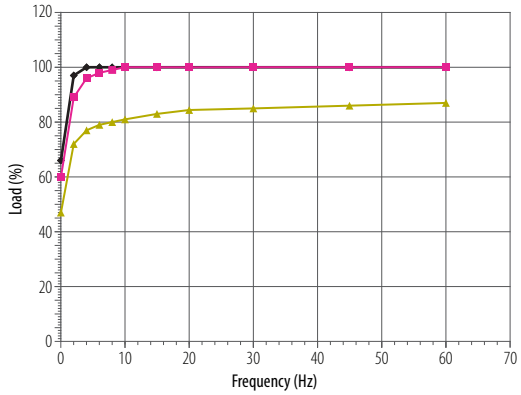


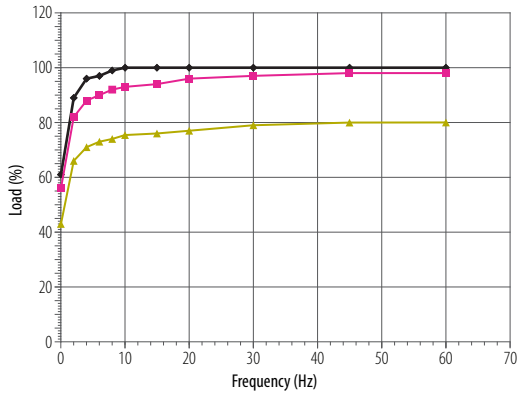




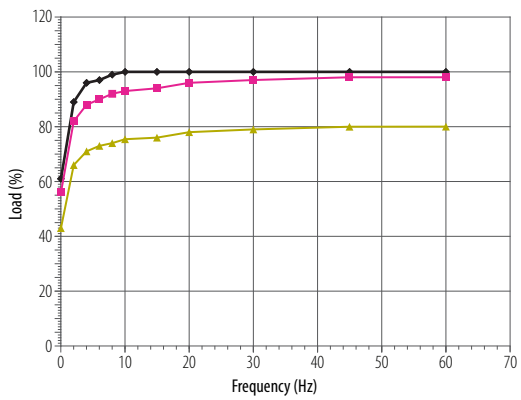
Cat. No. 20G…	Frame	400V AC Power Rating						Low Speed/Load Derating for IP20, UL Type 1 and IP54, UL Type 12			
		LD		ND		HD		Output Freq.	PWM Frequency		
		kW	Cont. Amps	kW	Cont. Amps	kW	Cont. Amps	Hz	1.33 kHz	2 kHz	4 kHz
C1K6	10	1000	1715	850	1590	710	1465	0	83	76	59
								2	100	100	90
								4	100	100	97
								6	100	100	99
								8	100	100	100
								10	100	100	100
								15	100	100	100
								20	100	100	100
								30	100	100	100
								45	100	100	100
								60	100	100	100
C1K7	10	1250	2150	1000	1715	800	1480	0	66	60	47
								2	97	89	72
								4	100	96	77
								6	100	98	79
								8	100	99	80
								10	100	100	81
								15	100	100	83
								20	100	100	84
								30	100	100	85
								45	100	100	86
								60	100	100	87
C2K1	10	1400	2330	1250	2156	1000	1715	0	61	56	43
								2	89	82	66
								4	96	88	71
								6	97	90	73
								8	99	92	74
								10	100	93	75
C4K2	13	2475	4576	2200	4235	1953	3575	15	100	94	76
								20	100	96	77
								30	100	97	79
								45	100	98	80
								60	100	98	80

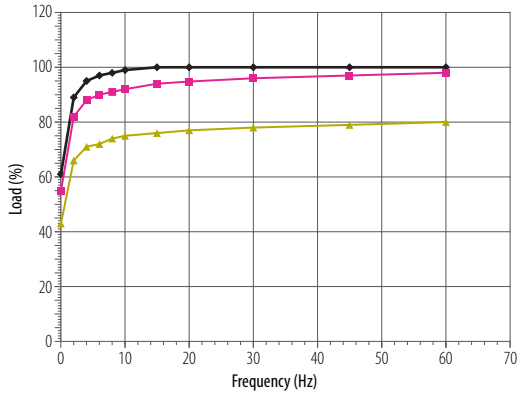




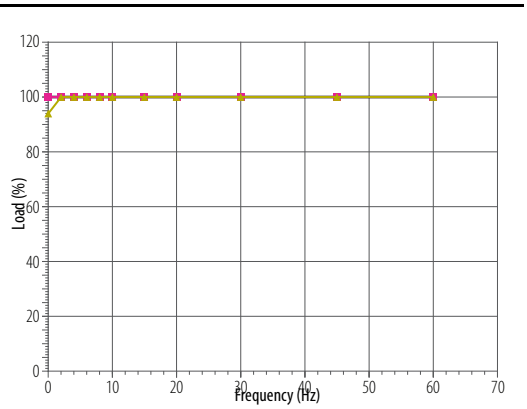


Cat. No. 20G…	Frame	400V AC Power Rating						Low Speed/Load Derating for IP20, UL Type 1 and IP54, UL Type 12			
		LD		ND		HD		Output Freq.	PWM Frequency		
		kW	Cont. Amps	kW	Cont. Amps	kW	Cont. Amps	Hz	1.33 kHz	2 kHz	4 kHz
C2K8	11	1800	3078	1650	2849	1400	2330	0	61	56	43
								2	89	82	66
								4	96	88	71
								6	97	90	73
								8	99	92	74
C5K6	14	3285	6074	2920	5621	2592	4745	10	100	93	75
								15	100	94	76
								20	100	96	78
								30	100	97	79
								45	100	98	80
								60	100	98	80
C3K5	12	2200	3846	2000	3542	1650	3032	0	61	55	43
								2	89	82	66
								4	95	88	71
								6	97	90	72
								8	98	91	74
C7K0	15	4095	7571	3640	7007	3231	5915	10	99	92	75
								15	100	94	76
								20	100	95	77
								30	100	96	78
								45	100	97	79
								60	100	98	80

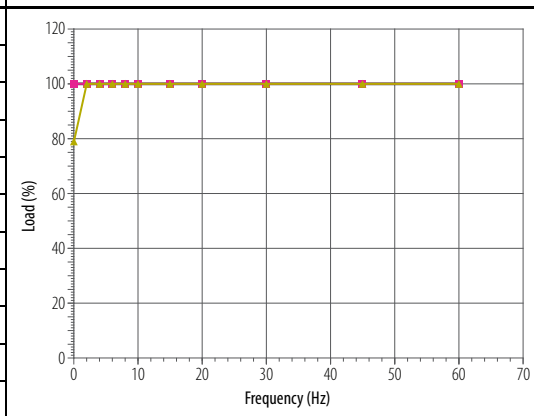


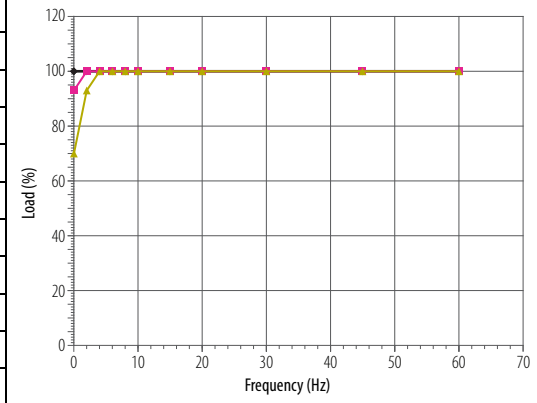


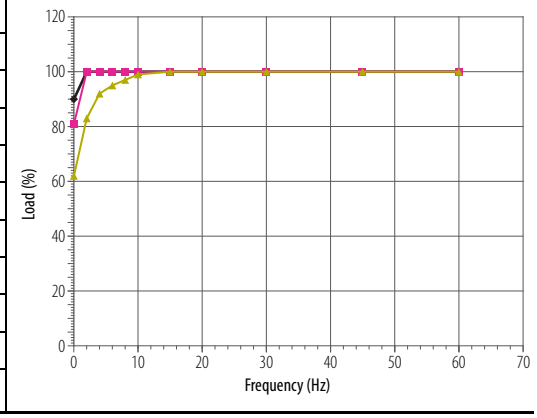
Cat. No. 20G…	Frame	480V AC Power Rating						Low Speed/Load Derating for IP20, UL Type 1 and IP54, UL Type 12			
		LD		ND		HD		Output Freq.	PWM Frequency		
		Hp	Cont. Amps	Hp	Cont. Amps	Hp	Cont. Amps	Hz	1.33 kHz	2 kHz	4 kHz
D302	7	300	361	250	302	200	248	0	100	100	94
								2	100	100	100
								4	100	100	100
								6	100	100	100
								8	100	100	100
								10	100	100	100
								15	100	100	100
								20	100	100	100
								30	100	100	100
								45	100	100	100
								60	100	100	100



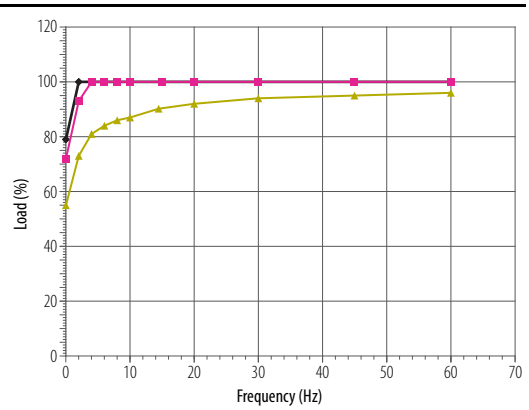
Cat. No. 20G…	Frame	480V AC Power Rating						Low Speed/Load Derating for IP20, UL Type 1 and IP54, UL Type 12			
		LD		ND		HD		Output Freq.	PWM Frequency		
		Hp	Cont. Amps	Hp	Cont. Amps	Hp	Cont. Amps	Hz	1.33 kHz	2 kHz	4 kHz
D361	7	350	430	300	361	250	302	0	100	100	79
								2	100	100	100
								4	100	100	100
								6	100	100	100
								8	100	100	100
								10	100	100	100
								15	100	100	100
								20	100	100	100
								30	100	100	100
								45	100	100	100
								60	100	100	100
D430	7	400	485	350	430	300	361	0	100	91	70
								2	100	100	93
								4	100	100	100
								6	100	100	100
								8	100	100	100
								10	100	100	100
								15	100	100	100
								20	100	100	100
								30	100	100	100
								45	100	100	100
								60	100	100	100
D505	7	450	545	400	505	350	430	0	90	81	62
								2	100	100	83
								4	100	100	92
								6	100	100	95
								8	100	100	97
								10	100	100	99
								15	100	100	100
								20	100	100	100
								30	100	100	100
								45	100	100	100
								60	100	100	100

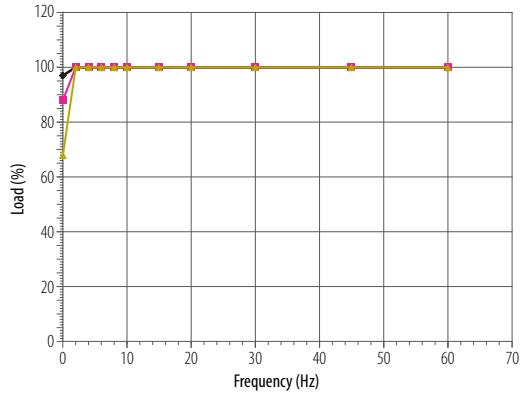


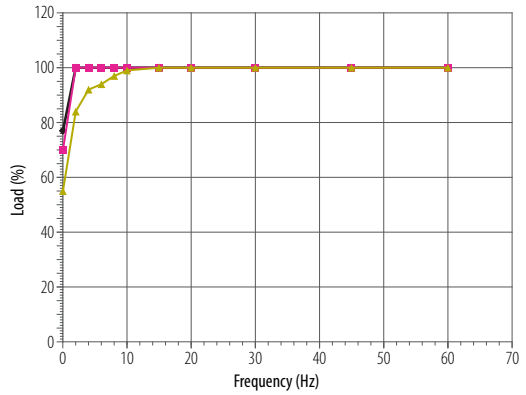




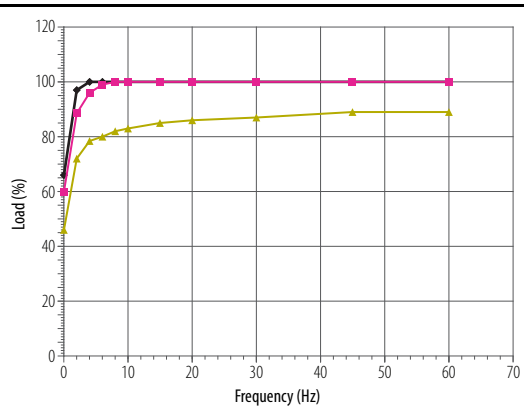
Cat. No. 20G…	Frame	480V AC Power Rating						Low Speed/Load Derating for IP20, UL Type 1 and IP54, UL Type 12			
		LD		ND		HD		Output Freq.	PWM Frequency		
		Hp	Cont. Amps	Hp	Cont. Amps	Hp	Cont. Amps	Hz	1.33 kHz	2 kHz	4 kHz
D617	7	500	617	500	600	400	500	0	79	72	55
								2	100	93	73
								4	100	100	81
								6	100	100	84
								8	100	100	86
								10	100	100	87
								15	100	100	90
								20	100	100	92
								30	100	100	94
								45	100	100	95
								60	100	100	96
D302	8	300	361	250	302	200	248	0	97	88	68
								2	100	100	100
								4	100	100	100
								6	100	100	100
								8	100	100	100
								10	100	100	100
								15	100	100	100
								20	100	100	100
								30	100	100	100
								45	100	100	100
								60	100	100	100
D361	8	350	430	300	361	250	302	0	77	70	55
								2	100	100	84
								4	100	100	92
								6	100	100	94
								8	100	100	96
								10	100	100	97
								15	100	100	99
								20	100	100	100
								30	100	100	100
								45	100	100	100
								60	100	100	100

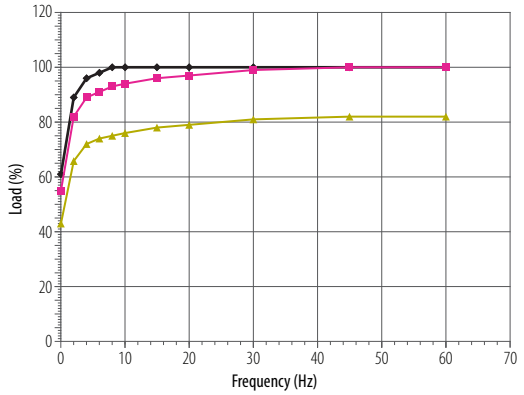


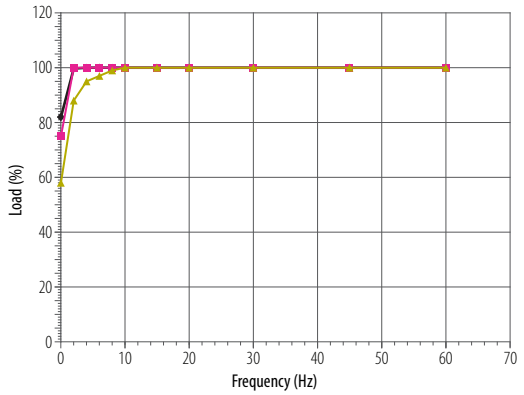




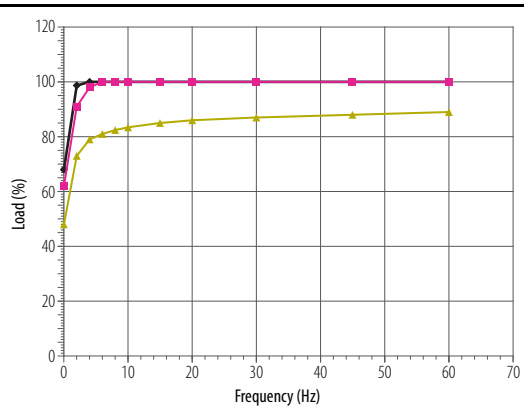
Cat. No. 20G…	Frame	480V AC Power Rating						Low Speed/Load Derating for IP20, UL Type 1 and IP54, UL Type 12			
		LD		ND		HD		Output Freq.	PWM Frequency		
		Hp	Cont. Amps	Hp	Cont. Amps	Hp	Cont. Amps	Hz	1.33 kHz	2 kHz	4 kHz
D430	8	400	485	350	430	300	361	0	66	60	46
								2	97	89	72
								4	100	96	78
								6	100	99	80
								8	100	100	82
								10	100	100	83
								15	100	100	85
								20	100	100	86
								30	100	100	87
								45	100	100	89
								60	100	100	89
D505	8	450	545	400	505	350	430	0	61	55	43
								2	89	82	66
								4	96	89	72
								6	98	91	74
								8	100	93	75
								10	100	94	76
								15	100	96	78
								20	100	97	79
								30	100	99	81
								45	100	100	82
								60	100	100	82
D545	8	500	617	450	545	350	454	0	82	75	58
								2	100	100	88
								4	100	100	95
								6	100	100	97
								8	100	100	99
								10	100	100	100
								15	100	100	100
								20	100	100	100
								30	100	100	100
								45	100	100	100
								60	100	100	100

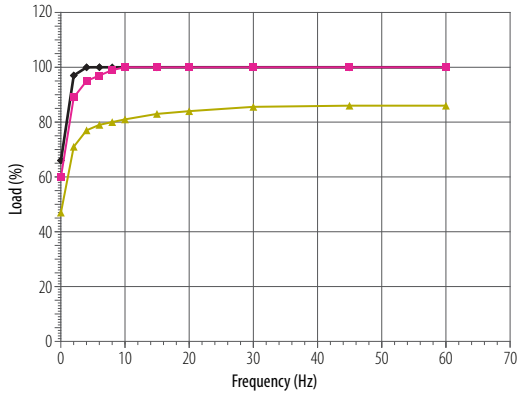


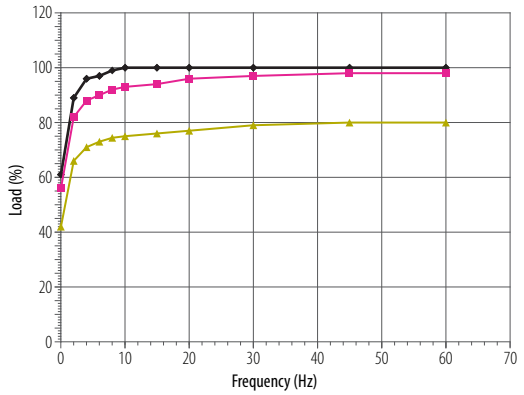




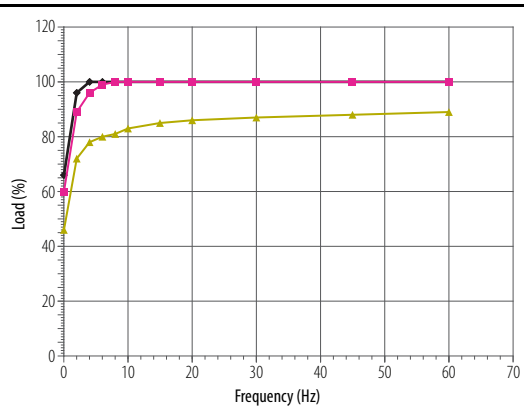
Cat. No. 20G…	Frame	480V AC Power Rating						Low Speed/Load Derating for IP20, UL Type 1 and IP54, UL Type 12			
		LD		ND		HD		Output Freq.	PWM Frequency		
		Hp	Cont. Amps	Hp	Cont. Amps	Hp	Cont. Amps	Hz	1.33 kHz	2 kHz	4 kHz
D617	8	600	710	500	617	400	485	0	68	62	48
								2	99	91	73
								4	100	98	79
								6	100	100	81
								8	100	100	82
								10	100	100	83
								15	100	100	85
								20	100	100	86
								30	100	100	87
								45	100	100	88
								60	100	100	89
D710	8	650	765	600	710	450	545	0	66	60	47
								2	97	89	71
								4	100	95	77
								6	100	97	79
								8	100	99	80
								10	100	100	81
								15	100	100	83
								20	100	100	84
								30	100	100	85
								45	100	100	86
								60	100	100	86
D740	8	700	800	650	740	500	617	0	61	56	43
								2	89	82	66
								4	96	88	71
								6	97	90	73
								8	99	92	74
								10	100	93	75
								15	100	94	76
								20	100	96	77
								30	100	97	79
								45	100	98	80
								60	100	98	80

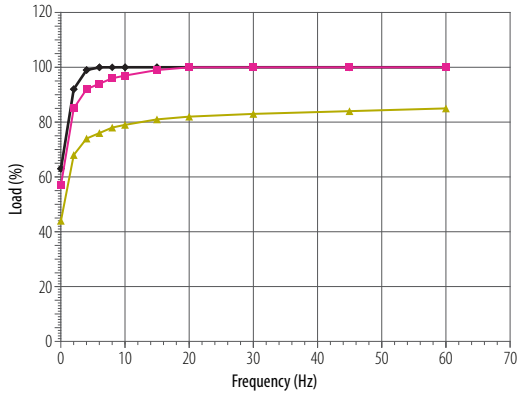


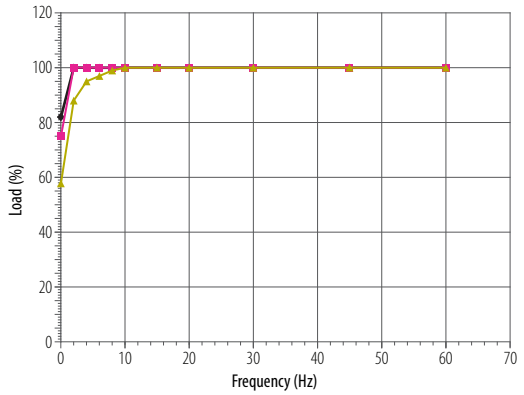




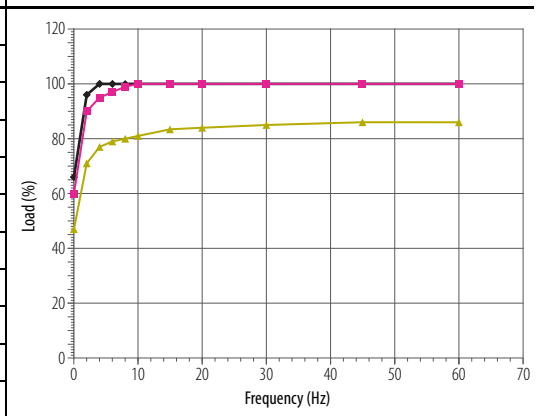
Cat. No. 20G…	Frame	480V AC Power Rating						Low Speed/Load Derating for IP20, UL Type 1 and IP54, UL Type 12			
		LD		ND		HD		Output Freq.	PWM Frequency		
		Hp	Cont. Amps	Hp	Cont. Amps	Hp	Cont. Amps	Hz	1.33 kHz	2 kHz	4 kHz
D800	9	800	960	700	800	600	740	0	66	60	46
								2	96	89	72
								4	100	96	78
								6	100	99	80
								8	100	100	81
								10	100	100	83
								15	100	100	85
								20	100	100	86
								30	100	100	87
								45	100	100	88
								60	100	100	89
D960	9	900	1045	800	960	700	800	0	63	57	44
								2	92	85	68
								4	99	92	74
								6	100	94	76
								8	100	96	78
								10	100	97	79
								15	100	99	81
								20	100	100	82
								30	100	100	83
								45	100	100	84
								60	100	100	85
D1K0	9	1000	1135	900	1045	750	960	0	82	75	58
								2	100	100	88
								4	100	100	95
								6	100	100	97
								8	100	100	99
								10	100	100	100
								15	100	100	100
								20	100	100	100
								30	100	100	100
								45	100	100	100
								60	100	100	100

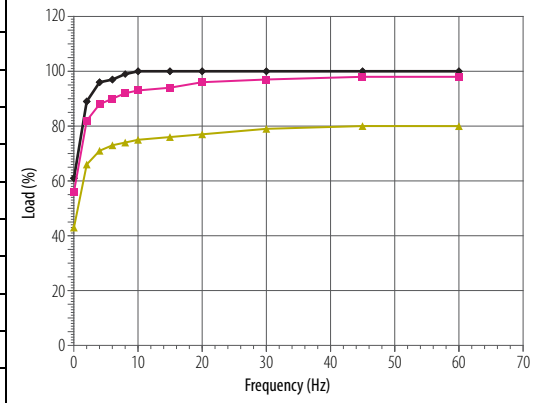


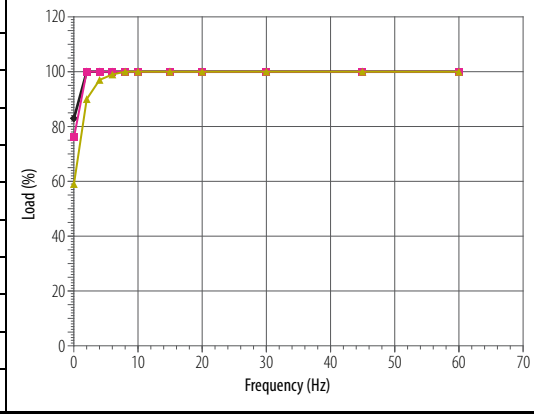




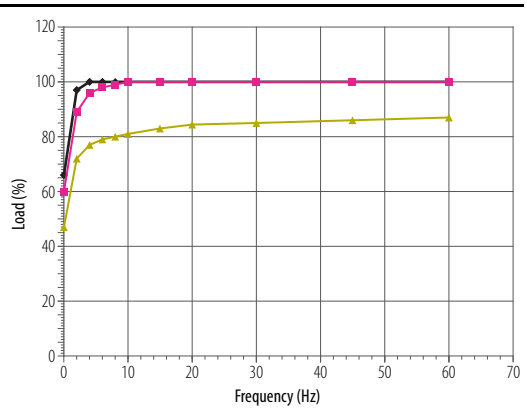
Cat. No. 20G…	Frame	480V AC Power Rating						Low Speed/Load Derating for IP20, UL Type 1 and IP54, UL Type 12			
		LD		ND		HD		Output Freq.	PWM Frequency		
		Hp	Cont. Amps	Hp	Cont. Amps	Hp	Cont. Amps	Hz	1.33 kHz	2 kHz	4 kHz
D1K1	9	1100	1365	1000	1135	800	1045	0	66	60	47
								2	96	89	71
								4	100	95	77
								6	100	97	79
								8	100	99	80
								10	100	100	81
								15	100	100	83
								20	100	100	84
								30	100	100	85
								45	100	100	86
								60	100	100	86
D1K3	9	1250	1520	1100	1365	900	1135	0	61	56	43
								2	89	82	66
								4	96	88	71
								6	97	90	73
								8	99	92	74
								10	100	93	75
								15	100	94	76
								20	100	96	77
								30	100	97	79
								45	100	98	80
								60	100	98	80
D1K4	10	1500	1655	1250	1420	1000	1365	0	83	76	59
								2	100	100	90
								4	100	100	97
								6	100	100	99
								8	100	100	100
								10	100	100	100
								15	100	100	100
								20	100	100	100
								30	100	100	100
								45	100	100	100
								60	100	100	100

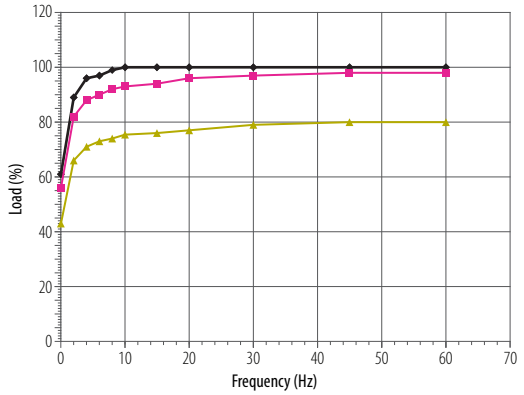


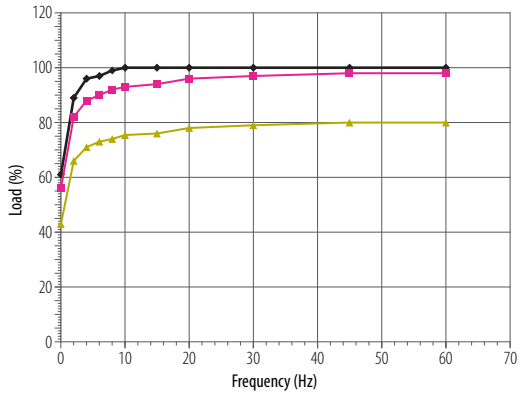




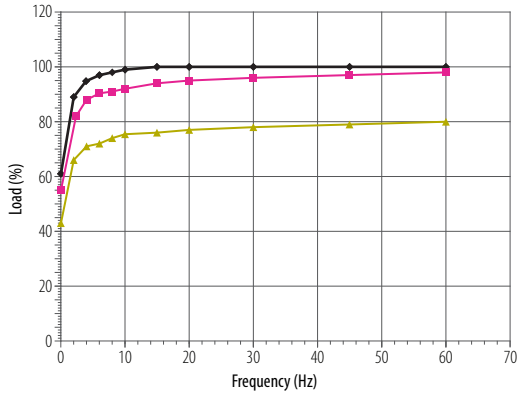
Cat. No. 20G…	Frame	480V AC Power Rating						Low Speed/Load Derating for IP20, UL Type 1 and IP54, UL Type 12			
		LD		ND		HD		Output Freq.	PWM Frequency		
		Hp	Cont. Amps	Hp	Cont. Amps	Hp	Cont. Amps	Hz	1.33 kHz	2 kHz	4 kHz
D1K6	10	1800	2070	1500	1655	1100	1420	0	66	60	47
								2	97	89	72
								4	100	96	77
								6	100	98	79
								8	100	99	80
								10	100	100	81
								15	100	100	83
								20	100	100	84
								30	100	100	85
								45	100	100	86
								60	100	100	87
D2K0 D4K0	10 13	2000 3900	2240 4400	1800 3600	2072 4070	1500 2800	1655 3394	0	61	56	43
								2	89	82	66
								4	96	88	71
								6	97	90	73
								8	99	92	74
								10	100	93	75
								15	100	94	76
								20	100	96	77
								30	100	97	79
								45	100	98	80
								60	100	98	80
D2K6 D5K4	11 14	2600 5200	2960 5840	2400 4800	2738 5402	2000 3700	2240 4504	0	61	56	43
								2	89	82	66
								4	96	88	71
								6	97	90	73
								8	99	92	74
								10	100	93	75
								15	100	94	76
								20	100	96	78
								30	100	97	79
								45	100	98	80
								60	100	98	80



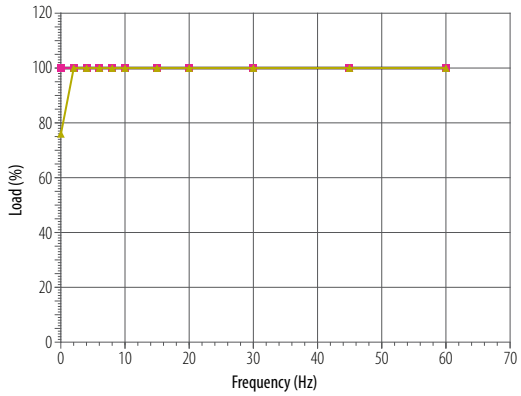




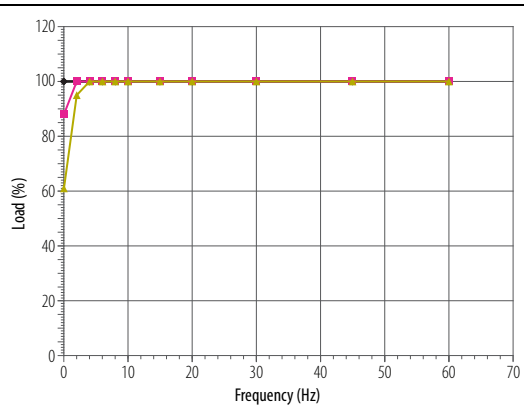
Cat. No. 20G…	Frame	480V AC Power Rating						Low Speed/Load Derating for IP20, UL Type 1 and IP54, UL Type 12			
		LD		ND		HD		Output Freq.	PWM Frequency		
		Hp	Cont. Amps	Hp	Cont. Amps	Hp	Cont. Amps	Hz	1.33 kHz	2 kHz	4 kHz
D3K4	12	3300	3696	3000	3404	2400	2980	0	61	55	43
								2	89	82	66
								4	95	88	71
								6	97	90	72
								8	98	91	74
D6K7	15	6400	7280	6000	6734	4600	5615	10	99	92	75
								15	100	94	76
								20	100	95	77
								30	100	96	78
								45	100	97	79
								60	100	98	80



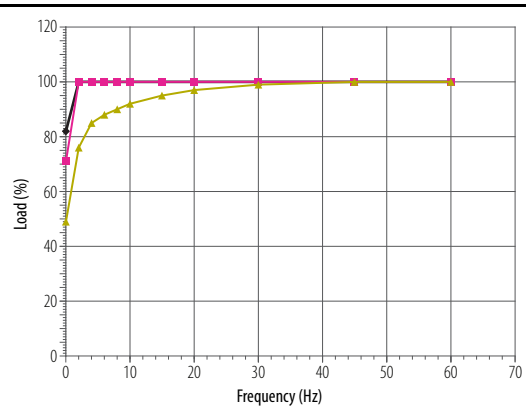
Cat. No. 20G…	Frame	600V AC Power Rating						Low Speed/Load Derating for IP20, UL Type 1 and IP54, UL Type 12			
		LD		ND		HD		Output Freq.	PWM Frequency		
		Hp	Cont. Amps	Hp	Cont. Amps	Hp	Cont. Amps	Hz	1.33 kHz	2 kHz	4 kHz
E192	7	250	242	200	192	150	144	0	100	100	76
								2	100	100	100
								4	100	100	100
								6	100	100	100
								8	100	100	100
								10	100	100	100
								15	100	100	100
								20	100	100	100
								30	100	100	100
								45	100	100	100
								60	100	100	100

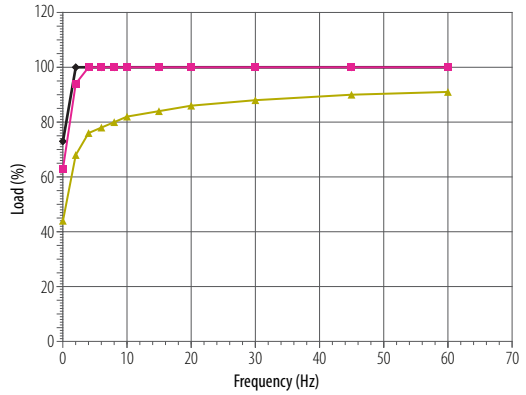


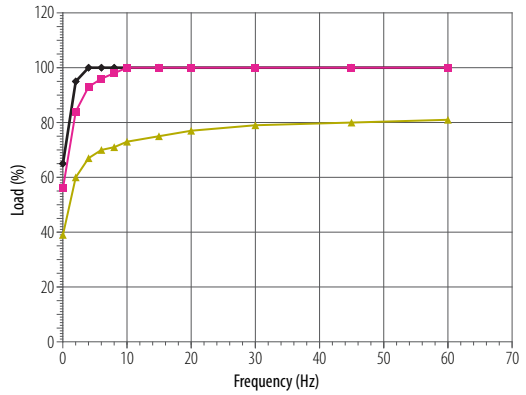
E242	7	300	295	250	242	200	192	0	100	88	61
								2	100	100	95
								4	100	100	100
								6	100	100	100
								8	100	100	100
								10	100	100	100
								15	100	100	100
								20	100	100	100
								30	100	100	100
								45	100	100	100
								60	100	100	100



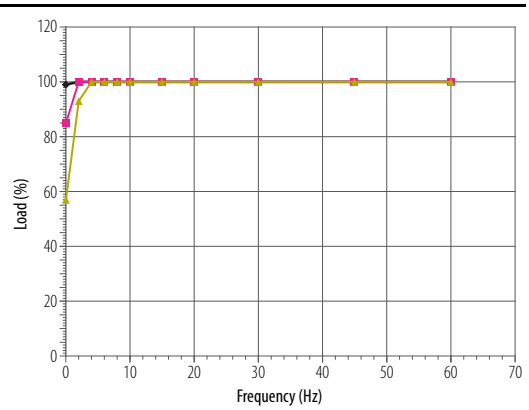
Cat. No. 20G…	Frame	600V AC Power Rating						Low Speed/Load Derating for IP20, UL Type 1 and IP54, UL Type 12			
		LD		ND		HD		Output Freq.	PWM Frequency		
		Hp	Cont. Amps	Hp	Cont. Amps	Hp	Cont. Amps	Hz	1.33 kHz	2 kHz	4 kHz
E295	7	350	355	300	295	250	242	0	82	71	49
								2	100	100	76
								4	100	100	85
								6	100	100	88
								8	100	100	90
								10	100	100	92
								15	100	100	95
								20	100	100	97
								30	100	100	99
								45	100	100	100
								60	100	100	100
E355	7	400	395	350	355	300	295	0	73	63	44
								2	100	94	68
								4	100	100	76
								6	100	100	78
								8	100	100	80
								10	100	100	82
								15	100	100	84
								20	100	100	86
								30	100	100	88
								45	100	100	90
								60	100	100	91
E395	7	450	435	400	395	350	355	0	65	56	39
								2	95	84	60
								4	100	93	67
								6	100	96	70
								8	100	98	71
								10	100	100	73
								15	100	100	75
								20	100	100	77
								30	100	100	79
								45	100	100	80
								60	100	100	81

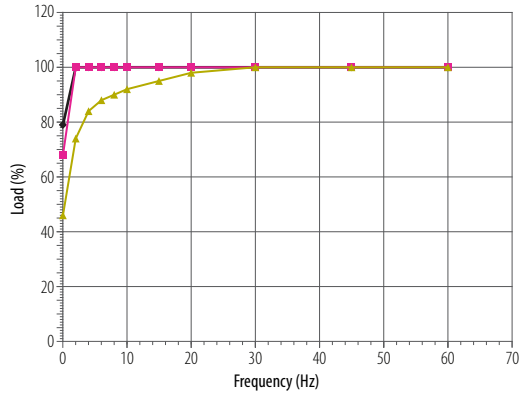


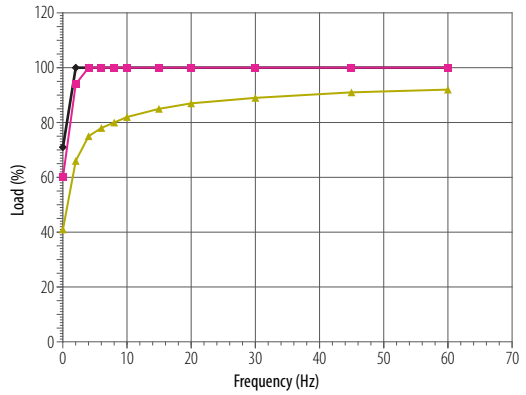




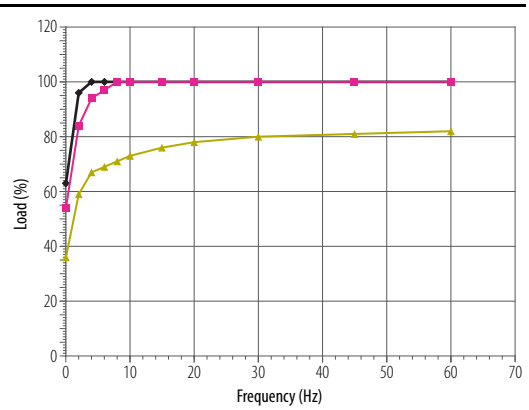
Cat. No. 20G…	Frame	600V AC Power Rating						Low Speed/Load Derating for IP20, UL Type 1 and IP54, UL Type 12			
		LD		ND		HD		Output Freq.	PWM Frequency		
		Hp	Cont. Amps	Hp	Cont. Amps	Hp	Cont. Amps	Hz	1.33 kHz	2 kHz	4 kHz
E242	8	300	295	250	242	200	192	0	99	85	57
								2	100	100	93
								4	100	100	100
								6	100	100	100
								8	100	100	100
								10	100	100	100
								15	100	100	100
								20	100	100	100
								30	100	100	100
								45	100	100	100
								60	100	100	100
E295	8	350	355	300	295	250	242	0	79	68	46
								2	100	100	74
								4	100	100	84
								6	100	100	88
								8	100	100	90
								10	100	100	92
								15	100	100	95
								20	100	100	98
								30	100	100	100
								45	100	100	100
								60	100	100	100
E355	8	400	395	350	355	300	295	0	71	60	41
								2	100	94	66
								4	100	100	75
								6	100	100	78
								8	100	100	80
								10	100	100	82
								15	100	100	85
								20	100	100	87
								30	100	100	89
								45	100	100	91
								60	100	100	92

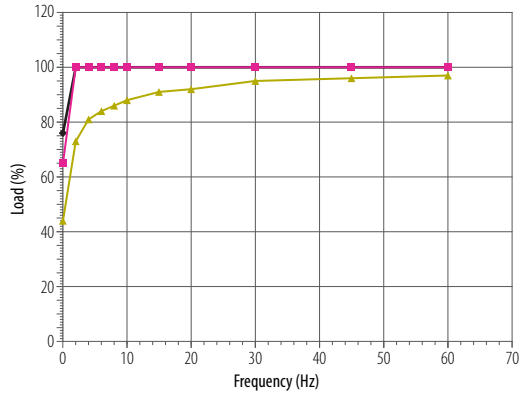


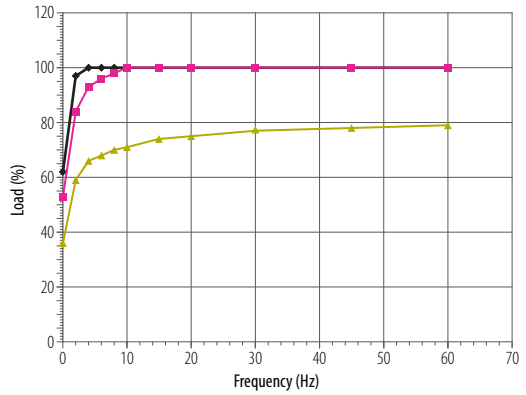




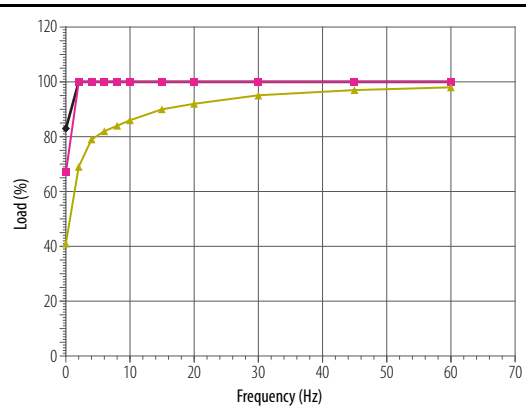
Cat. No. 20G…	Frame	600V AC Power Rating						Low Speed/Load Derating for IP20, UL Type 1 and IP54, UL Type 12			
		LD		ND		HD		Output Freq.	PWM Frequency		
		Hp	Cont. Amps	Hp	Cont. Amps	Hp	Cont. Amps	Hz	1.33 kHz	2 kHz	4 kHz
E395	8	450	435	400	395	350	355	0	63	54	36
								2	96	84	59
								4	100	94	67
								6	100	97	69
								8	100	100	71
								10	100	100	73
								15	100	100	76
								20	100	100	78
								30	100	100	80
								45	100	100	81
								60	100	100	82
C435	8	500	510	450	435	400	395	0	76	65	44
								2	100	100	73
								4	100	100	81
								6	100	100	84
								8	100	100	86
								10	100	100	88
								15	100	100	91
								20	100	100	92
								30	100	100	95
								45	100	100	96
								60	100	100	97
E545	8	600	580	550	545	450	450	0	62	53	36
								2	97	84	59
								4	100	93	66
								6	100	96	68
								8	100	98	70
								10	100	100	71
								15	100	100	74
								20	100	100	75
								30	100	100	77
								45	100	100	78
								60	100	100	79

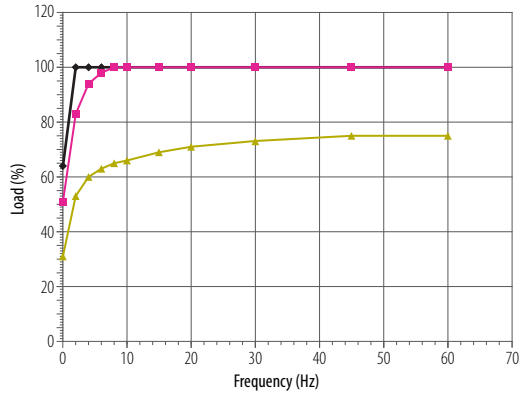


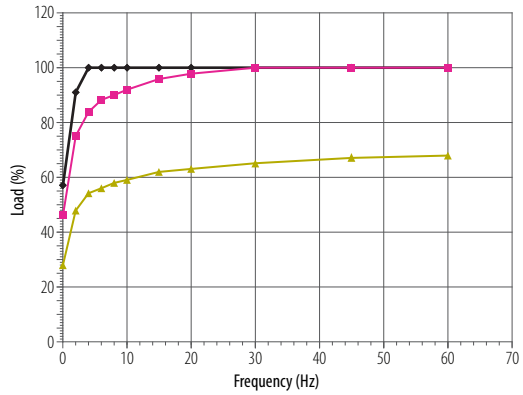




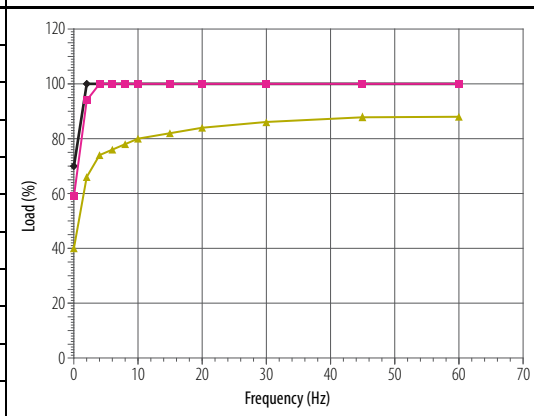
Cat. No. 20G…	Frame	600V AC Power Rating						Low Speed/Load Derating for IP20, UL Type 1 and IP54, UL Type 12			
		LD		ND		HD		Output Freq.	PWM Frequency		
		Hp	Cont. Amps	Hp	Cont. Amps	Hp	Cont. Amps	Hz	1.33 kHz	2 kHz	4 kHz
E595	9	700	690	600	580	550	545	0	83	67	41
								2	100	100	69
								4	100	100	79
								6	100	100	82
								8	100	100	84
								10	100	100	86
								15	100	100	90
								20	100	100	92
								30	100	100	95
								45	100	100	97
								60	100	100	98
E690	9	800	760	700	690	600	595	0	64	51	31
								2	100	83	53
								4	100	94	60
								6	100	98	63
								8	100	100	65
								10	100	100	66
								15	100	100	69
								20	100	100	71
								30	100	100	73
								45	100	100	75
								60	100	100	75
E760	9	900	825	800	760	700	690	0	57	46	28
								2	91	75	47
								4	100	84	54
								6	100	88	56
								8	100	90	58
								10	100	92	59
								15	100	96	62
								20	100	98	63
								30	100	100	65
								45	100	100	67
								60	100	100	68

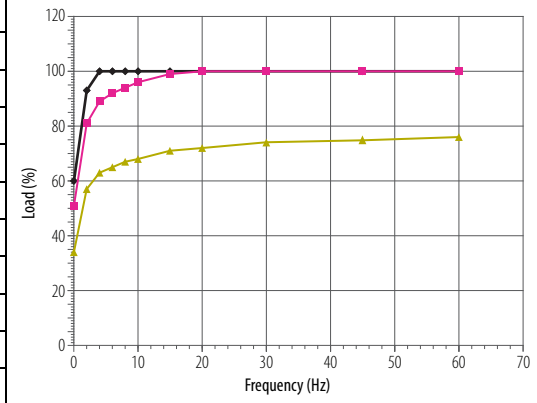


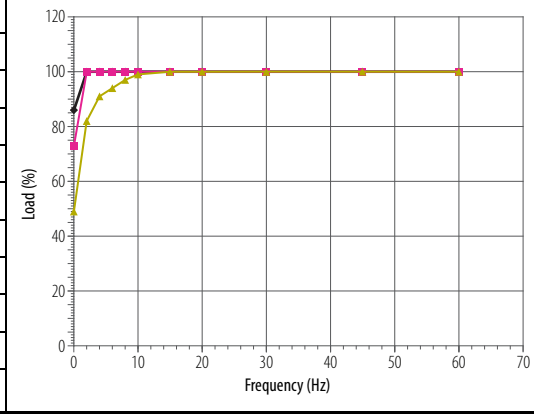




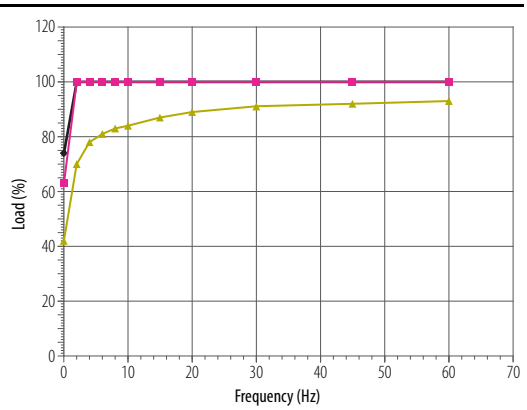
Cat. No. 20G…	Frame	600V AC Power Rating						Low Speed/Load Derating for IP20, UL Type 1 and IP54, UL Type 12			
		LD		ND		HD		Output Freq.	PWM Frequency		
		Hp	Cont. Amps	Hp	Cont. Amps	Hp	Cont. Amps	Hz	1.33 kHz	2 kHz	4 kHz
E825	9	1000	980	900	825	800	760	0	70	59	40
								2	100	94	66
								4	100	100	74
								6	100	100	76
								8	100	100	78
								10	100	100	80
								15	100	100	82
								20	100	100	84
								30	100	100	86
								45	100	100	88
								60	100	100	88
E980	9	1100	1102	1000	980	900	825	0	60	51	34
								2	93	81	57
								4	100	89	63
								6	100	92	65
								8	100	94	67
								10	100	96	68
								15	100	99	71
								20	100	100	72
								30	100	100	74
								45	100	100	75
								60	100	100	76
E1K1	10	1250	1220	1100	1045	1000	980	0	86	73	49
								2	100	100	82
								4	100	100	91
								6	100	100	94
								8	100	100	97
								10	100	100	99
								15	100	100	100
								20	100	100	100
								30	100	100	100
								45	100	100	100
								60	100	100	100

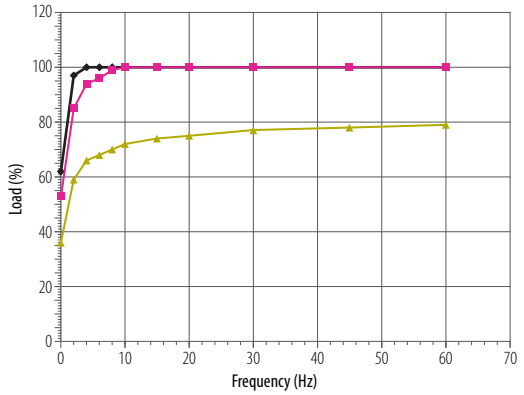


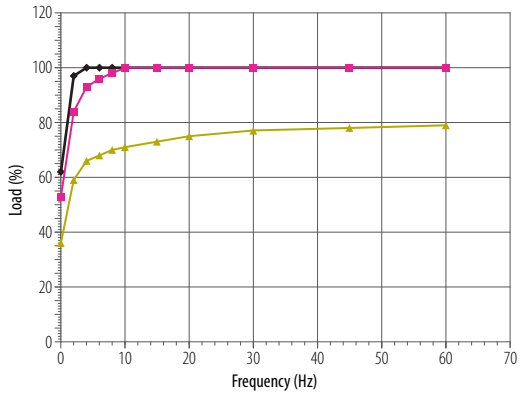




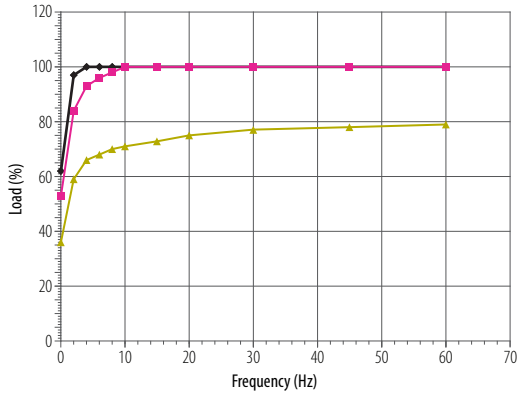
Cat. No. 20G…	Frame	600V AC Power Rating						Low Speed/Load Derating for IP20, UL Type 1 and IP54, UL Type 12			
		LD		ND		HD		Output Freq.	PWM Frequency		
		Hp	Cont. Amps	Hp	Cont. Amps	Hp	Cont. Amps	Hz	1.33 kHz	2 kHz	4 kHz
E1K2	10	1500	1430	1250	1220	1100	1045	0	74	63	42
								2	100	100	70
								4	100	100	78
								6	100	100	81
								8	100	100	83
								10	100	100	84
								15	100	100	87
								20	100	100	89
								30	100	100	91
								45	100	100	92
								60	100	100	93
E1K5 E2K9	10 13	1600 3300	1624 3190	1500 3100	1430 2998	1250 2500	1220 2475	0	62	53	36
								2	97	85	59
								4	100	94	66
								6	100	96	68
								8	100	99	70
								10	100	100	72
								15	100	100	74
								20	100	100	75
								30	100	100	77
								45	100	100	78
								60	100	100	79
E2K0 E3K9	11 14	2100 4400	2146 4234	2000 4100	1946 3979	1800 3300	1700 3285	0	62	53	36
								2	97	84	59
								4	100	93	66
								6	100	96	68
								8	100	98	70
								10	100	100	71
								15	100	100	73
								20	100	100	75
								30	100	100	77
								45	100	100	78
								60	100	100	79



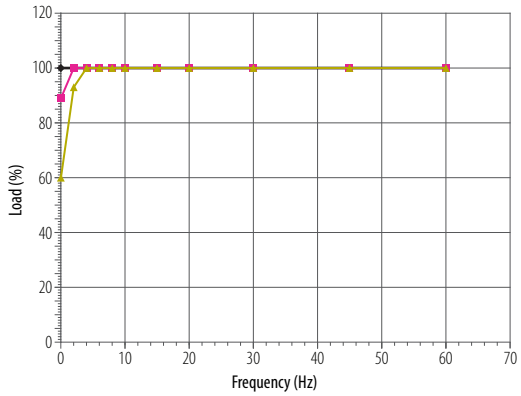




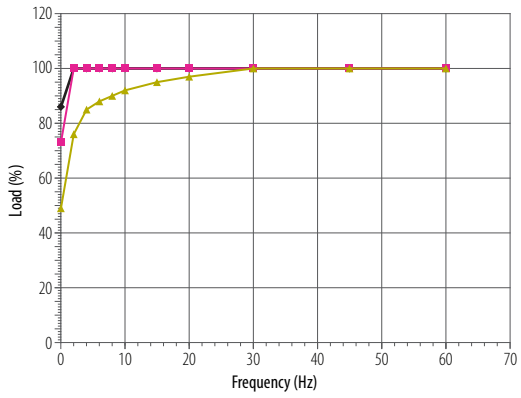
Cat. No. 20G…	Frame	600V AC Power Rating						Low Speed/Load Derating for IP20, UL Type 1 and IP54, UL Type 12			
		LD		ND		HD		Output Freq.	PWM Frequency		
		Hp	Cont. Amps	Hp	Cont. Amps	Hp	Cont. Amps	Hz	1.33 kHz	2 kHz	4 kHz
E2K4 E4K9	12 15	2600 5500	2668 5278	2500 5100	2420 4960	2100 4100	2070 4095	0	62	53	36
								2	97	84	59
								4	100	93	66
								6	100	96	68
								8	100	98	70
								10	100	100	71
								15	100	100	73
								20	100	100	75
								30	100	100	77
								45	100	100	78
								60	100	100	79



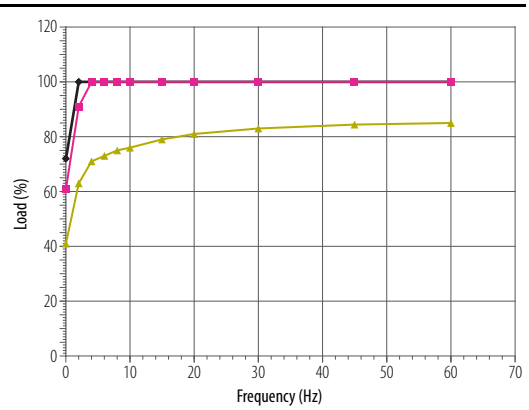
Cat. No. 20G…	Frame	690V AC Power Rating						Low Speed/Load Derating for IP20, UL Type 1 and IP54, UL Type 12			
		LD		ND		HD		Output Freq.	PWM Frequency		
		kW	Cont. Amps	kW	Cont. Amps	kW	Cont. Amps	Hz	1.33 kHz	2 kHz	4 kHz
F171	7	200	215	160	171	132	142	0	100	89	60
								2	100	100	93
								4	100	100	100
								6	100	100	100
								8	100	100	100
								10	100	100	100
								15	100	100	100
								20	100	100	100
								30	100	100	100
								45	100	100	100
								60	100	100	100

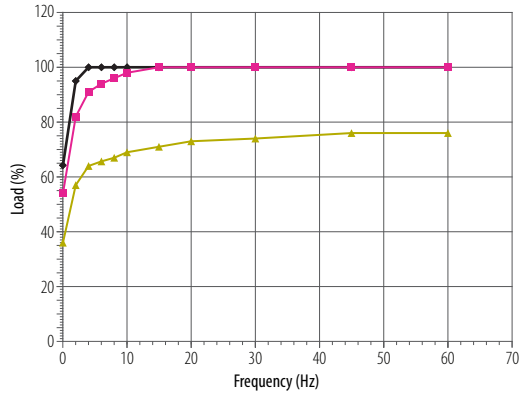


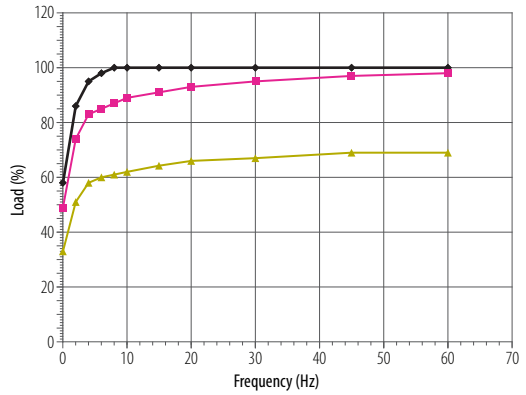
F215	7	250	265	200	215	160	171	0	86	73	49
								2	100	100	76
								4	100	100	85
								6	100	100	88
								8	100	100	90
								10	100	100	92
								15	100	100	95
								20	100	100	97
								30	100	100	100
								45	100	100	100
								60	100	100	100



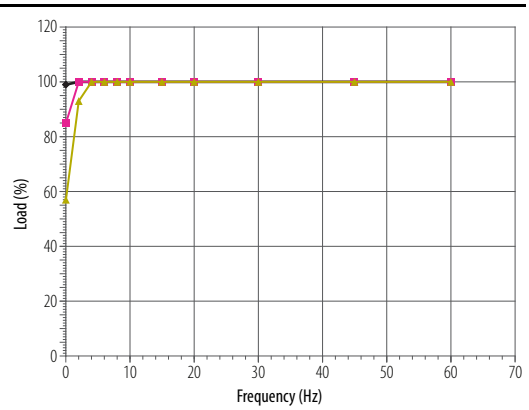
Cat. No. 20G…	Frame	690V AC Power Rating						Low Speed/Load Derating for IP20, UL Type 1 and IP54, UL Type 12			
		LD		ND		HD		Output Freq.	PWM Frequency		
		kW	Cont. Amps	kW	Cont. Amps	kW	Cont. Amps	Hz	1.33 kHz	2 kHz	4 kHz
F265	7	315	330	250	265	200	215	0	72	61	41
								2	100	91	63
								4	100	100	71
								6	100	100	73
								8	100	100	75
								10	100	100	76
								15	100	100	79
								20	100	100	81
								30	100	100	83
								45	100	100	84
								60	100	100	85
F330	7	355	370	315	330	250	265	0	64	54	36
								2	95	82	57
								4	100	91	64
								6	100	94	66
								8	100	96	67
								10	100	98	69
								15	100	100	71
								20	100	100	73
								30	100	100	74
								45	100	100	76
								60	100	100	76
F370	7	400	415	355	370	315	330	0	58	49	33
								2	86	74	51
								4	95	83	58
								6	98	85	60
								8	100	87	61
								10	100	89	62
								15	100	91	64
								20	100	93	66
								30	100	95	67
								45	100	97	69
								60	100	98	69

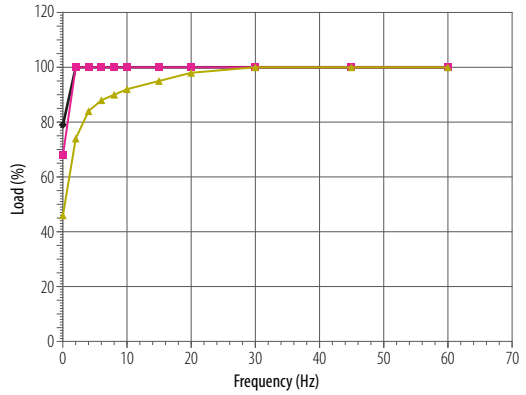


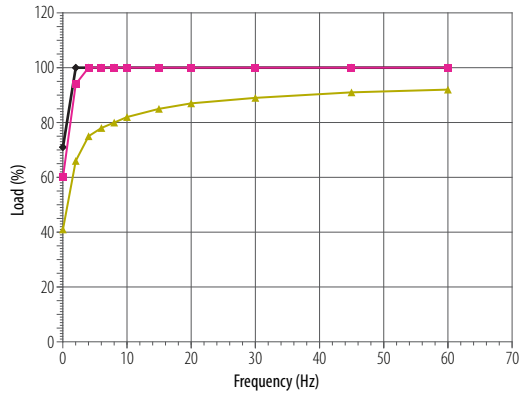




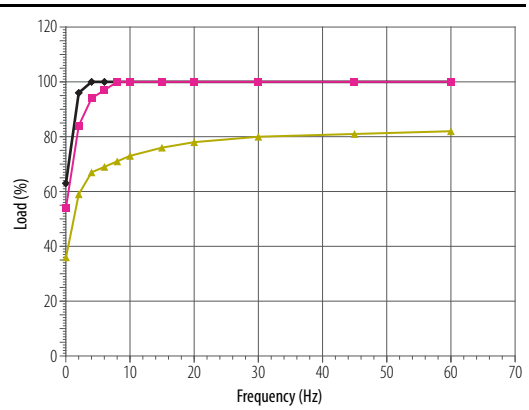
Cat. No. 20G…	Frame	690V AC Power Rating						Low Speed/Load Derating for IP20, UL Type 1 and IP54, UL Type 12			
		LD		ND		HD		Output Freq.	PWM Frequency		
		kW	Cont. Amps	kW	Cont. Amps	kW	Cont. Amps	Hz	1.33 kHz	2 kHz	4 kHz
F215	8	250	265	200	215	160	171	0	99	85	57
								2	100	100	93
								4	100	100	100
								6	100	100	100
								8	100	100	100
								10	100	100	100
								15	100	100	100
								20	100	100	100
								30	100	100	100
								45	100	100	100
								60	100	100	100
F265	8	315	330	250	265	200	215	0	79	68	46
								2	100	100	74
								4	100	100	84
								6	100	100	88
								8	100	100	90
								10	100	100	92
								15	100	100	95
								20	100	100	98
								30	100	100	100
								45	100	100	100
								60	100	100	100
F330	8	355	370	315	330	250	265	0	71	60	41
								2	100	94	66
								4	100	100	75
								6	100	100	78
								8	100	100	80
								10	100	100	82
								15	100	100	85
								20	100	100	87
								30	100	100	89
								45	100	100	91
								60	100	100	92

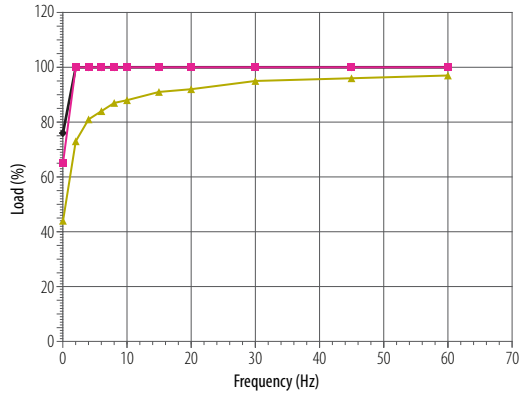


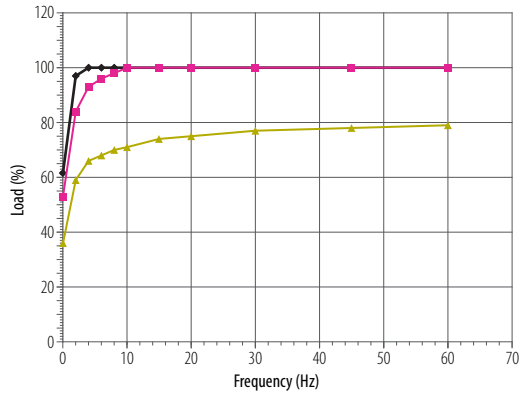




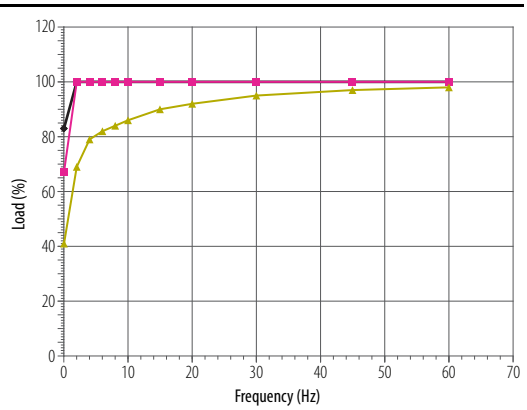
Cat. No. 20G…	Frame	690V AC Power Rating						Low Speed/Load Derating for IP20, UL Type 1 and IP54, UL Type 12			
		LD		ND		HD		Output Freq.	PWM Frequency		
		kW	Cont. Amps	kW	Cont. Amps	kW	Cont. Amps	Hz	1.33 kHz	2 kHz	4 kHz
F370	8	400	415	355	370	315	330	0	63	54	36
								2	96	84	59
								4	100	94	67
								6	100	97	69
								8	100	100	71
								10	100	100	73
								15	100	100	76
								20	100	100	78
								30	100	100	80
								45	100	100	81
								60	100	100	82
F415	8	450	460	400	415	355	370	0	76	65	44
								2	100	100	73
								4	100	100	81
								6	100	100	84
								8	100	100	86
								10	100	100	88
								15	100	100	91
								20	100	100	92
								30	100	100	95
								45	100	100	96
								60	100	100	97
F505	8	560	565	500	505	400	415	0	62	53	36
								2	97	84	59
								4	100	93	66
								6	100	96	68
								8	100	98	70
								10	100	100	71
								15	100	100	74
								20	100	100	75
								30	100	100	77
								45	100	100	78
								60	100	100	79

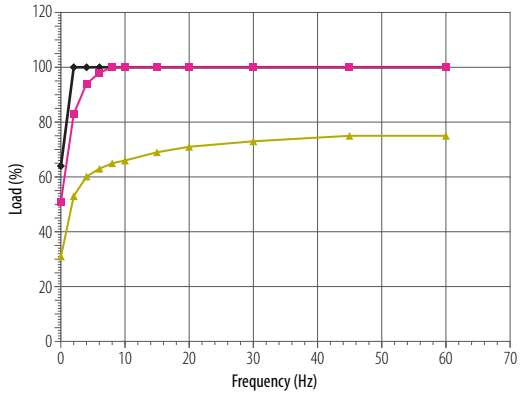


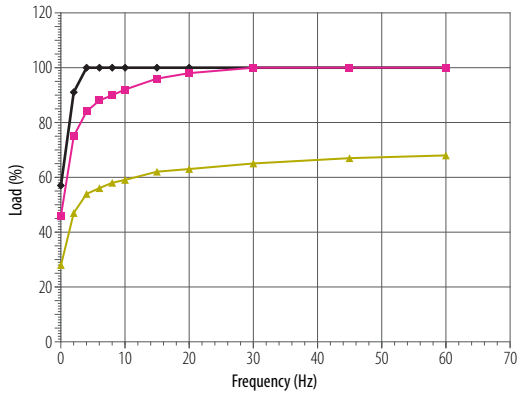




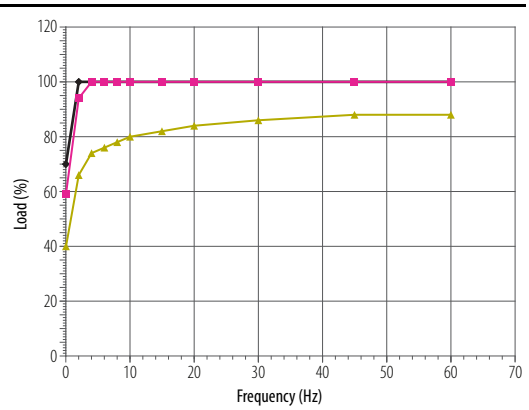
Cat. No. 20G…	Frame	690V AC Power Rating						Low Speed/Load Derating for IP20, UL Type 1 and IP54, UL Type 12			
		LD		ND		HD		Output Freq.	PWM Frequency		
		kW	Cont. Amps	kW	Cont. Amps	kW	Cont. Amps	Hz	1.33 kHz	2 kHz	4 kHz
F565	9	630	650	560	565	500	505	0	83	67	41
								2	100	100	69
								4	100	100	79
								6	100	100	82
								8	100	100	84
								10	100	100	86
								15	100	100	90
								20	100	100	92
								30	100	100	95
								45	100	100	97
								60	100	100	98
F650	9	710	735	630	650	560	565	0	64	51	31
								2	100	83	53
								4	100	94	60
								6	100	98	63
								8	100	100	65
								10	100	100	66
								15	100	100	69
								20	100	100	71
								30	100	100	73
								45	100	100	75
								60	100	100	75
F735	9	800	820	710	735	630	650	0	57	46	28
								2	91	75	47
								4	100	84	54
								6	100	88	56
								8	100	90	58
								10	100	92	59
								15	100	96	62
								20	100	98	63
								30	100	100	65
								45	100	100	67
								60	100	100	68

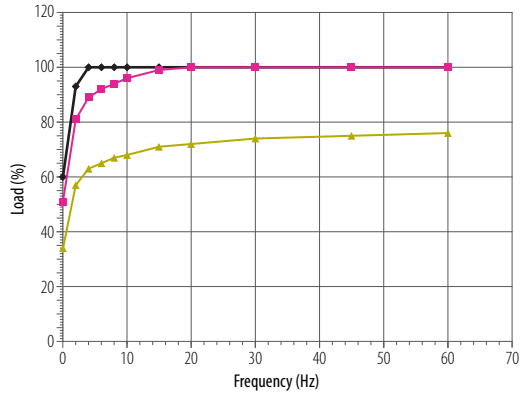


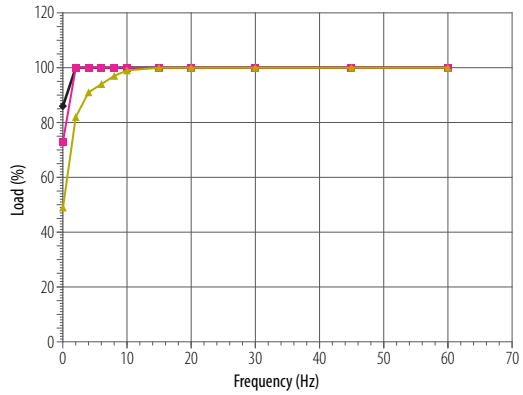




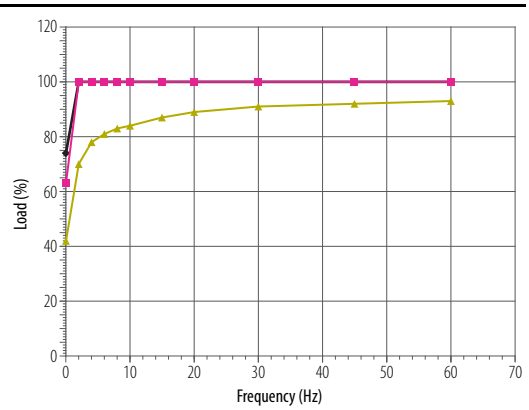
Cat. No. 20G…	Frame	690V AC Power Rating						Low Speed/Load Derating for IP20, UL Type 1 and IP54, UL Type 12			
		LD		ND		HD		Output Freq.	PWM Frequency		
		kW	Cont. Amps	kW	Cont. Amps	kW	Cont. Amps	Hz	1.33 kHz	2 kHz	4 kHz
F820	9	900	920	800	820	710	735	0	70	59	40
								2	100	94	66
								4	100	100	74
								6	100	100	76
								8	100	100	78
								10	100	100	80
								15	100	100	82
								20	100	100	84
								30	100	100	86
								45	100	100	88
								60	100	100	88
F920	9	1000	1074	900	920	800	820	0	60	51	34
								2	93	81	57
								4	100	89	63
								6	100	92	65
								8	100	94	67
								10	100	96	68
								15	100	99	71
								20	100	100	72
								30	100	100	74
								45	100	100	75
								60	100	100	76
F1K0	10	1100	1150	1000	1030	900	920	0	86	73	49
								2	100	100	82
								4	100	100	91
								6	100	100	94
								8	100	100	97
								10	100	100	99
								15	100	100	100
								20	100	100	100
								30	100	100	100
								45	100	100	100
								60	100	100	100

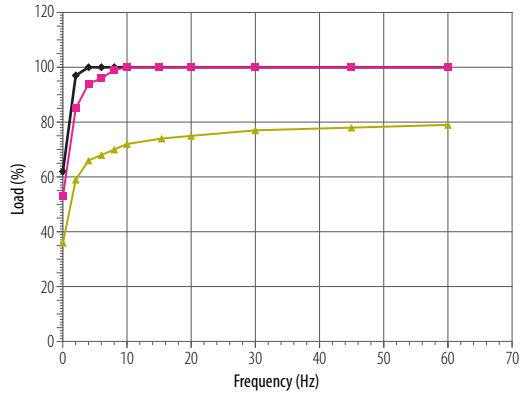


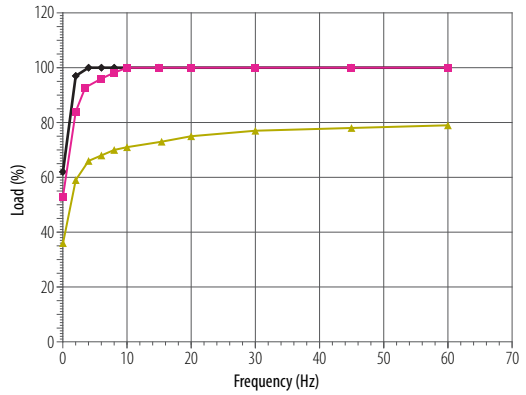




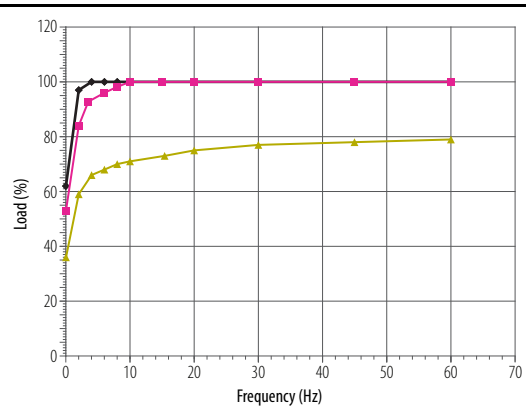
Cat. No. 20G…	Frame	690V AC Power Rating						Low Speed/Load Derating for IP20, UL Type 1 and IP54, UL Type 12			
		LD		ND		HD		Output Freq.	PWM Frequency		
		kW	Cont. Amps	kW	Cont. Amps	kW	Cont. Amps	Hz	1.33 kHz	2 kHz	4 kHz
F1K1	10	1250	1344	1100	1150	1000	1030	0	74	63	42
								2	100	100	70
								4	100	100	78
								6	100	100	81
								8	100	100	83
								10	100	100	84
								15	100	100	87
								20	100	100	89
								30	100	100	91
								45	100	100	92
								60	100	100	93
F1K4 F2K7	10 13	1500 3080	1582 3108	1400 2750	1419 2778	1100 2200	1162 2283	0	62	53	36
								2	97	85	59
								4	100	94	66
								6	100	96	68
								8	100	99	70
								10	100	100	72
								15	100	100	74
								20	100	100	75
								30	100	100	77
								45	100	100	78
								60	100	100	79
F1K8 F3K6	11 14	2000 4088	2091 4125	1800 3650	1865 3687	1500 2920	1535 3030	0	62	53	36
								2	97	84	59
								4	100	93	66
								6	100	96	68
								8	100	98	70
								10	100	100	71
								15	100	100	73
								20	100	100	75
								30	100	100	77
								45	100	100	78
								60	100	100	79





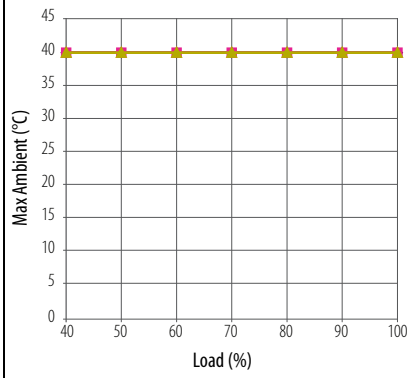
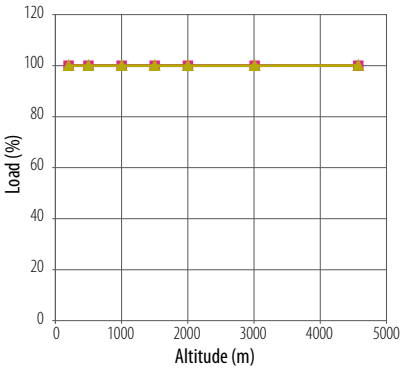
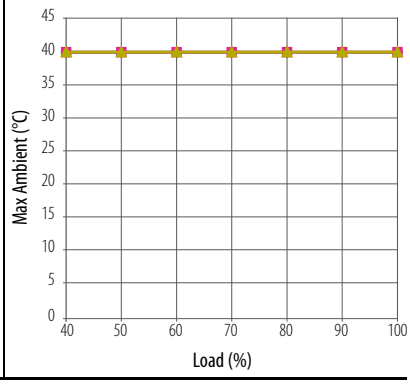
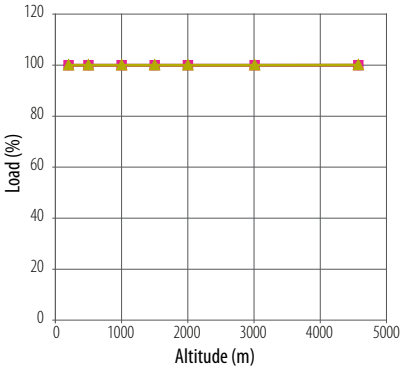


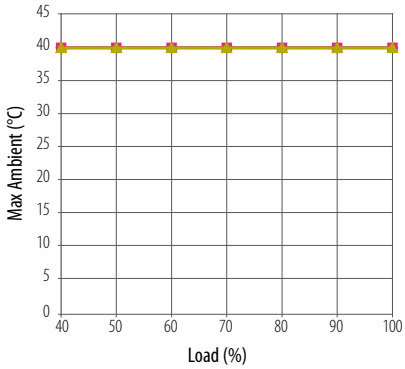
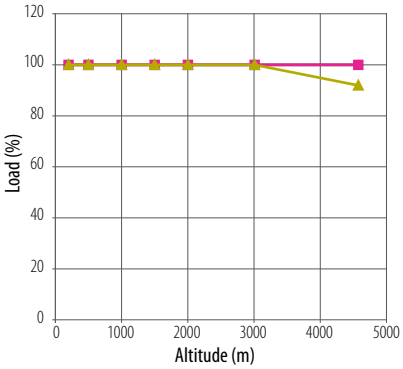
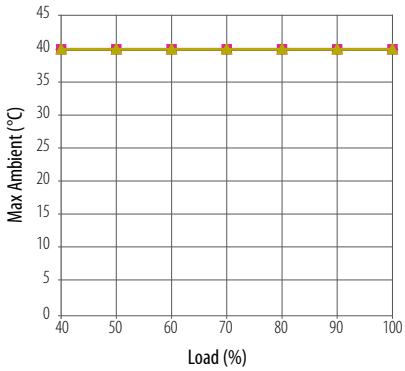
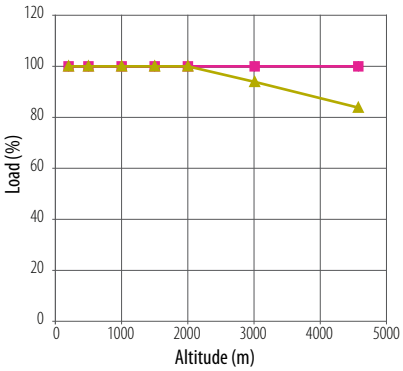
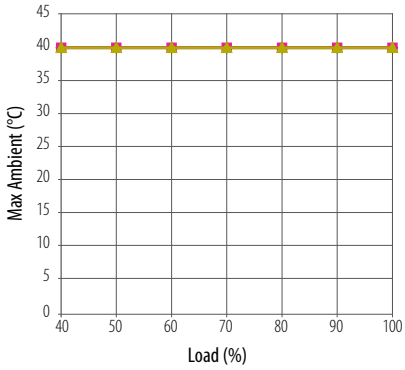
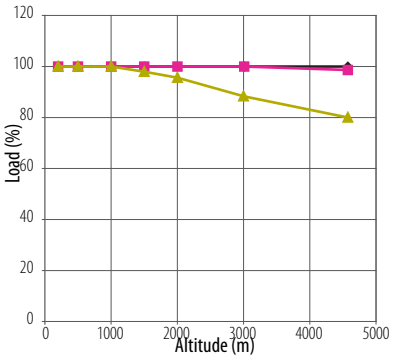
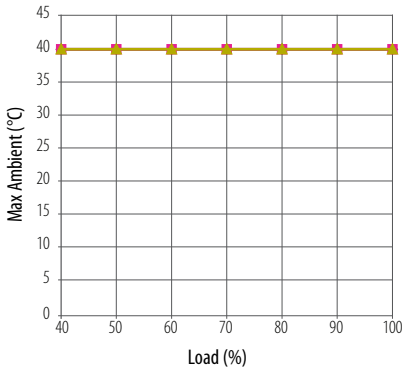
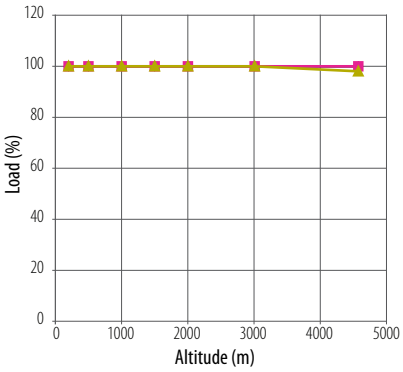
Cat. No. 20G…	Frame	690V AC Power Rating						Low Speed/Load Derating for IP20, UL Type 1 and IP54, UL Type 12			
		LD		ND		HD		Output Freq.	PWM Frequency		
		kW	Cont. Amps	kW	Cont. Amps	kW	Cont. Amps	Hz	1.33 kHz	2 kHz	4 kHz
F2K3 F4K5	12 15	2500 5096	2599 5142	2300 4550	2318 4596	2000 3640	2020 3777	0	62	53	36
								2	97	84	59
								4	100	93	66
								6	100	96	68
								8	100	98	70
								10	100	100	71
								15	100	100	73
								20	100	100	75
								30	100	100	77
								45	100	100	78
								60	100	100	79

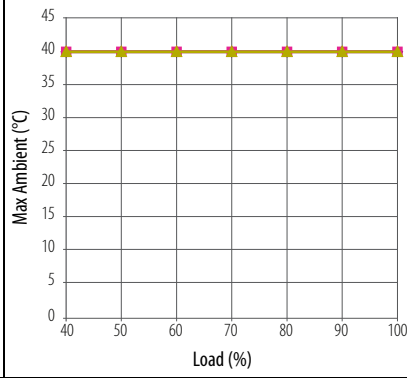
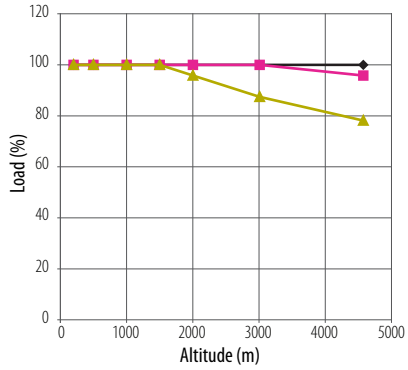
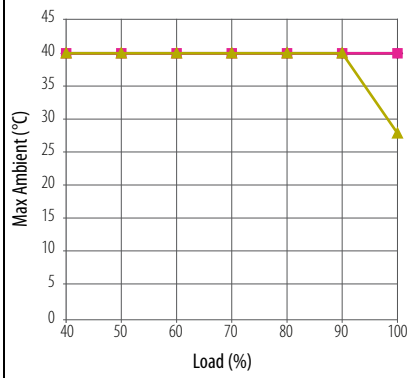
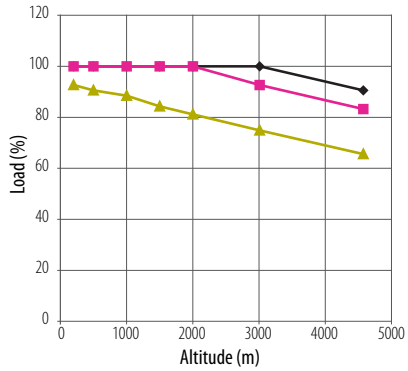
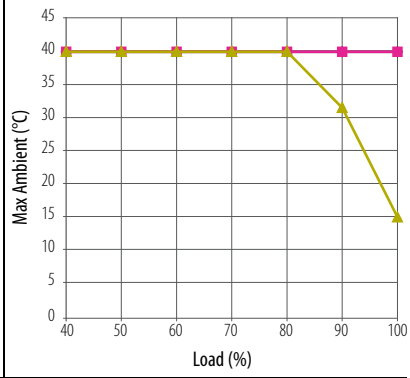
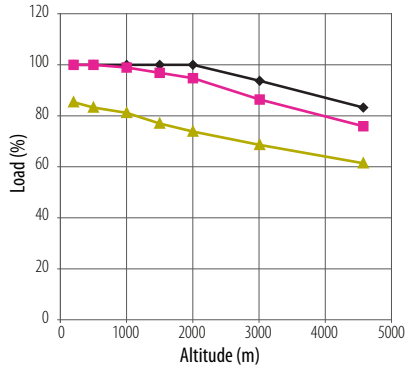
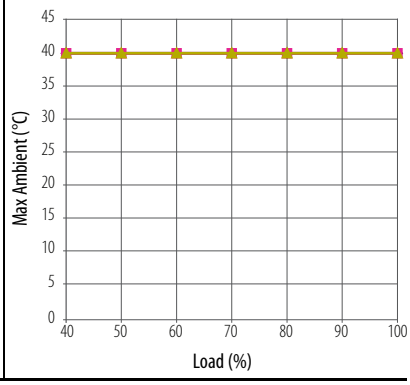
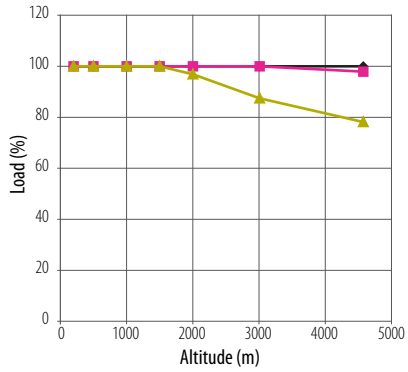


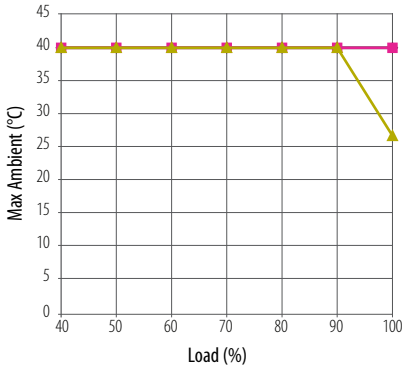
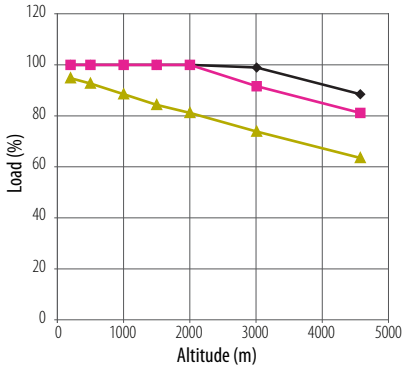
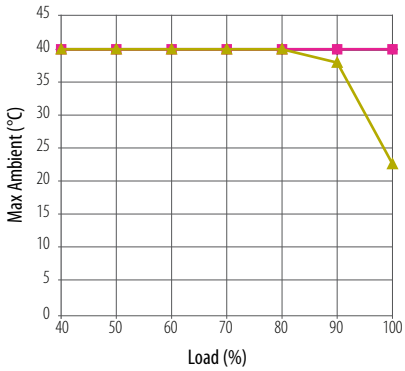
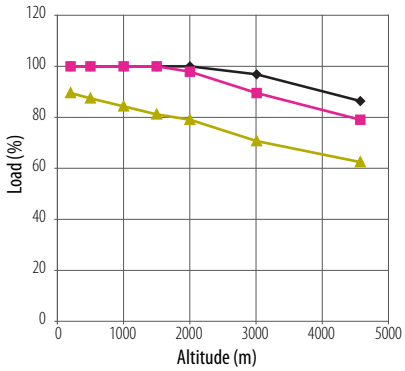
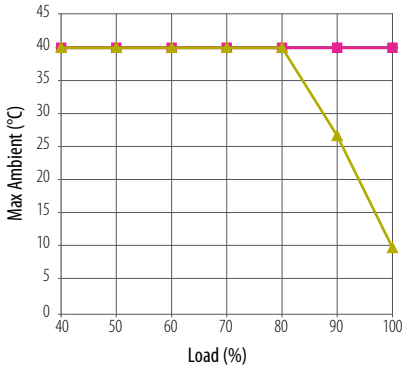
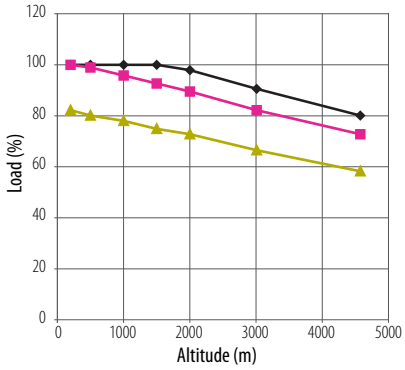
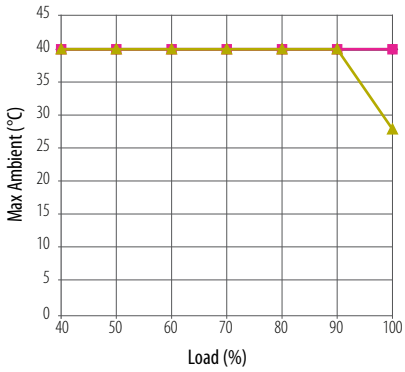
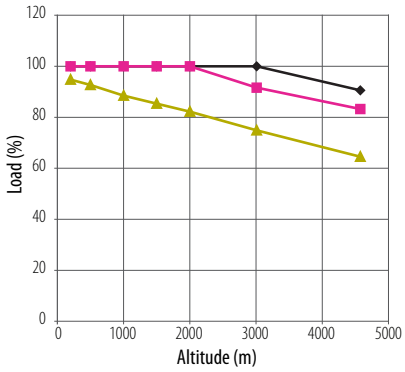
Carrier Frequency Derating

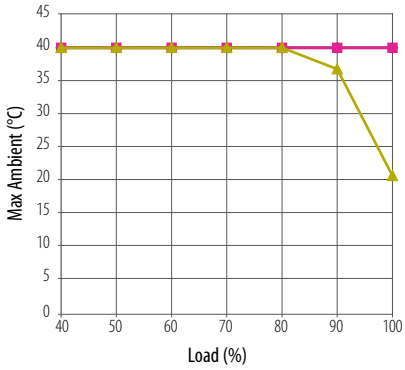
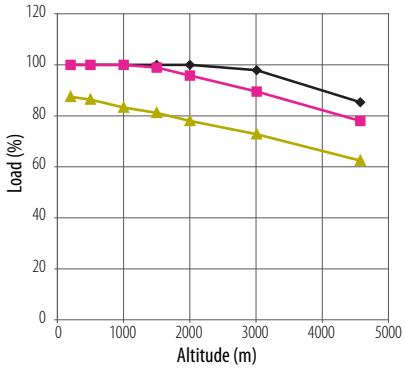
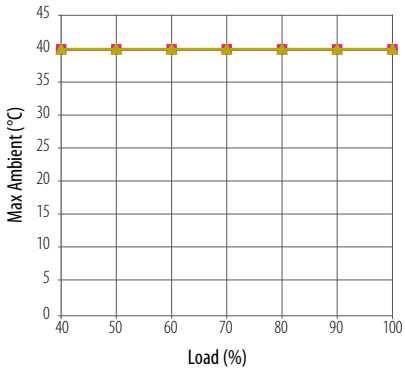
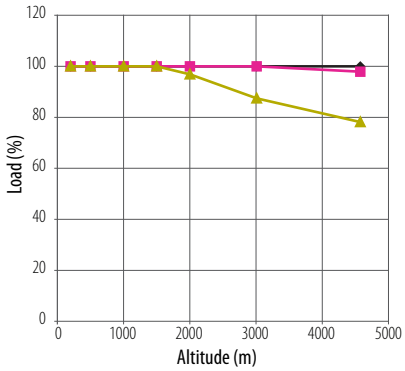
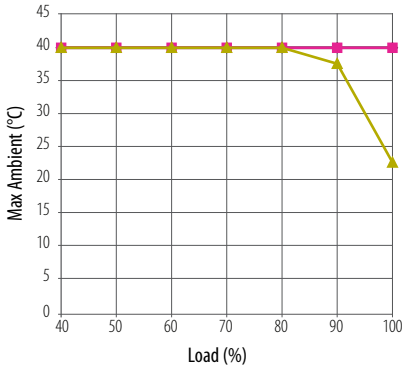
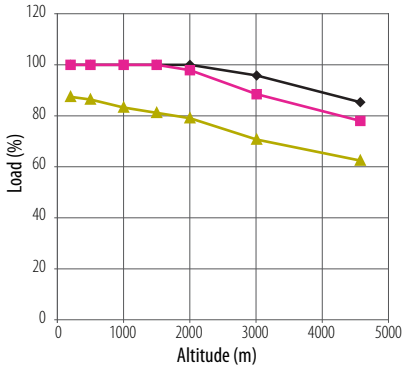
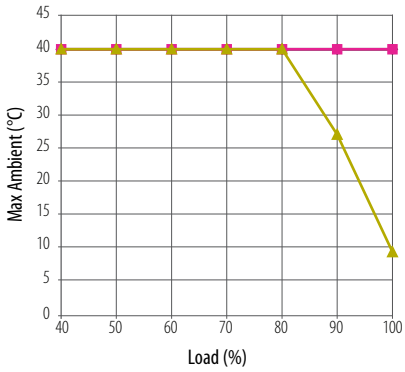
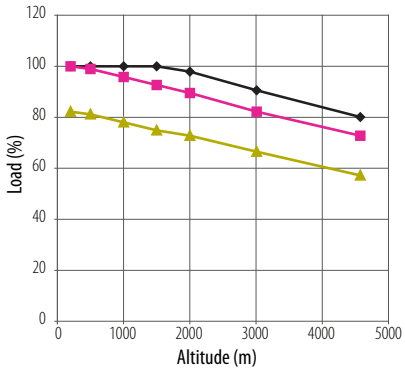
The following graphs show the carrier frequency derating for motor side inverters. If a catalog number is not shown, that drive can be operated without derating as long as the limits specified on pages 5 are followed.

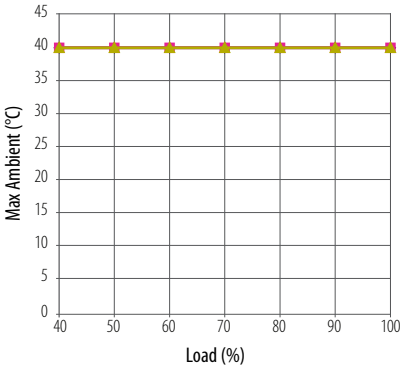
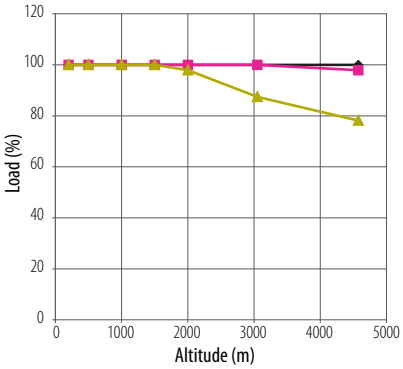
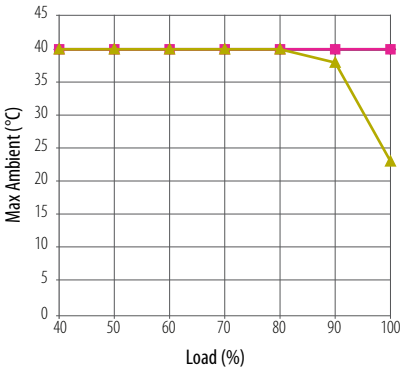
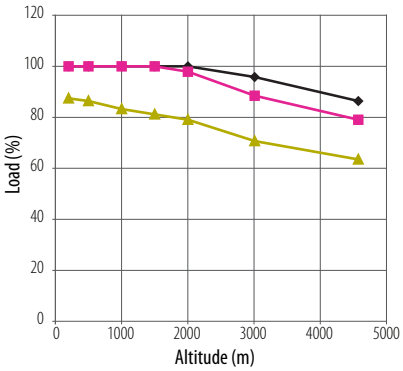
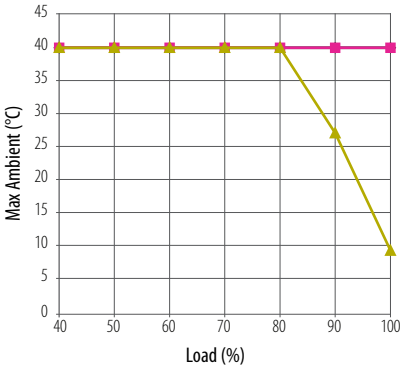
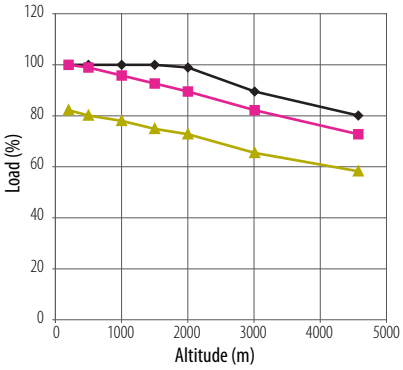
Catalog Number	Frame	400V AC Power Rating						Derating for IP21, UL Type 1 and IP54, UL Type 12	
		Light Duty		Normal Duty		Heavy Duty		Ambient Temperature/Load	Altitude/Load
		kW	Cont. Amps	kW	Cont. Amps	kW	Cont. Amps	1.33 kHz 2 kHz 4 kHz	1.33 kHz 2 kHz 4 kHz
20G…C302	7	200	367	160	302	132	260		
20G…C367	7	250	460	200	367	160	302		

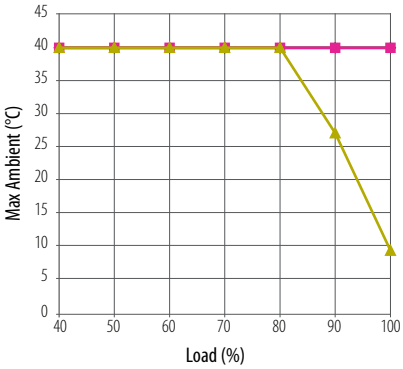
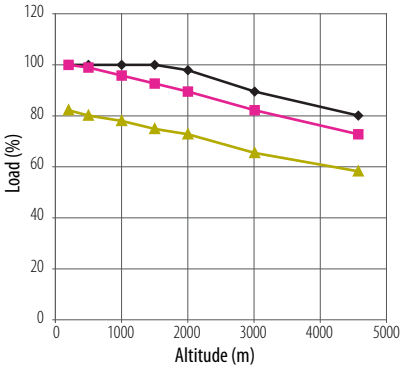
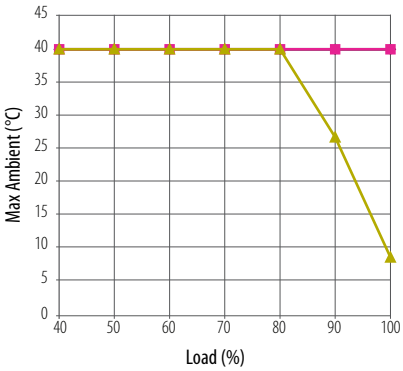
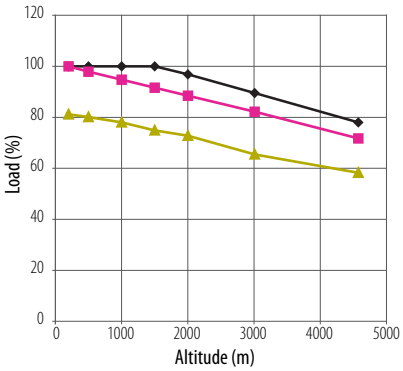
Catalog Number	Frame	400V AC Power Rating						Derating for IP21, UL Type 1 and IP54, UL Type 12	
		Light Duty		Normal Duty		Heavy Duty		Ambient Temperature/Load	Altitude/Load
		kW	Cont. Amps	kW	Cont. Amps	kW	Cont. Amps	1.33 kHz, 2 kHz, 4 kHz	1.33 kHz, 2 kHz, 4 kHz
20G…C460	7	315	540	250	460	200	367		
20G…C540	7	315	585	315	540	250	460		
20G…C585	7	315	617	315	600	250	500		
20G…C302	8	200	367	160	302	132	260		

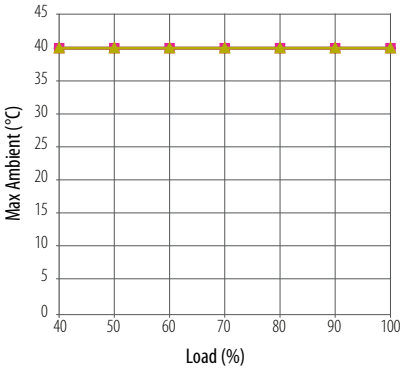
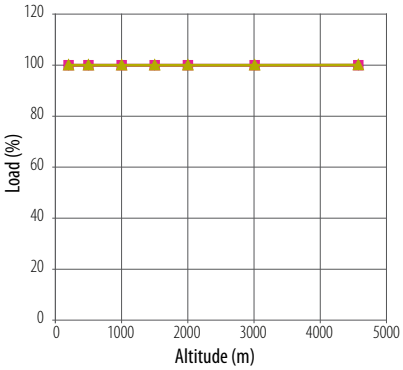
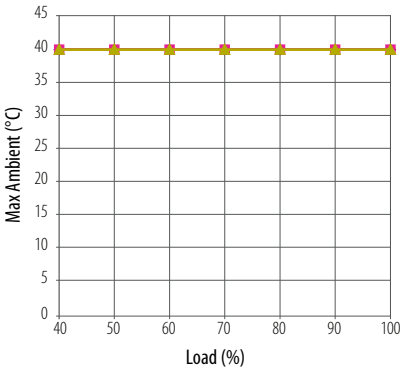
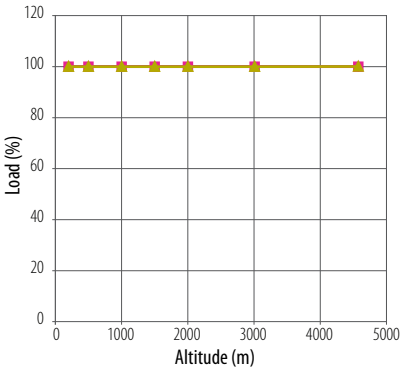
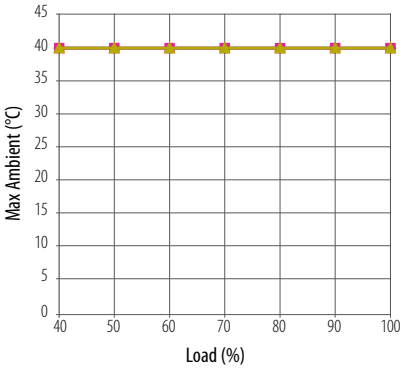
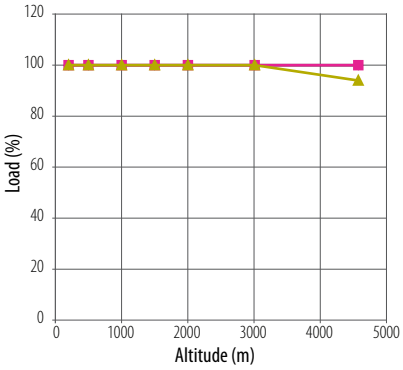
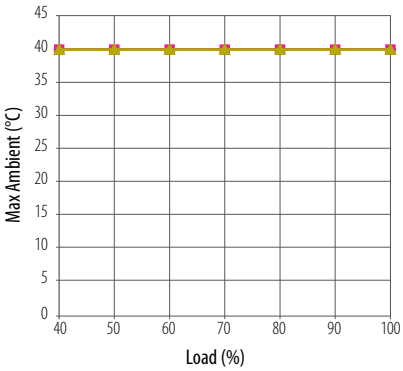
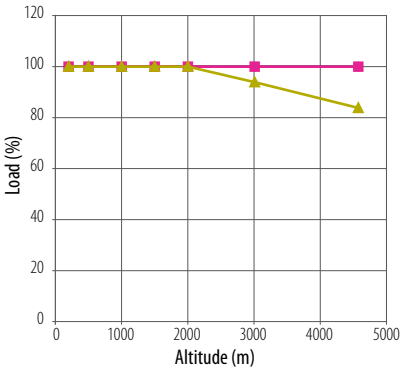
Catalog Number	Frame	400V AC Power Rating						Derating for IP21, UL Type 1 and IP54, UL Type 12	
		Light Duty		Normal Duty		Heavy Duty		Ambient Temperature/Load	Altitude/Load
		kW	Cont. Amps	kW	Cont. Amps	kW	Cont. Amps	1.33 kHz ◆ 2 kHz ■ 4 kHz ▲	1.33 kHz ◆ 2 kHz ■ 4 kHz ▲
20G…C367	8	250	460	200	367	160	302		
20G…C460	8	315	540	250	460	200	367		
20G…C540	8	315	585	315	540	250	460		
20G…C585	8	355	650	315	585	250	472		

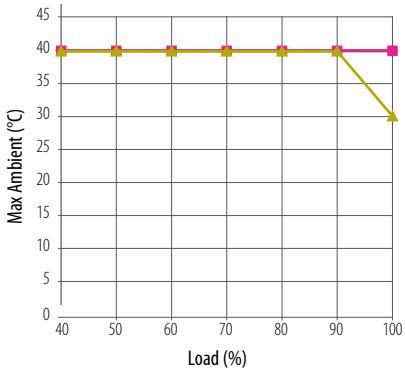
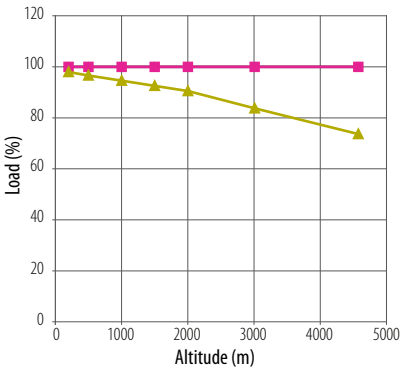
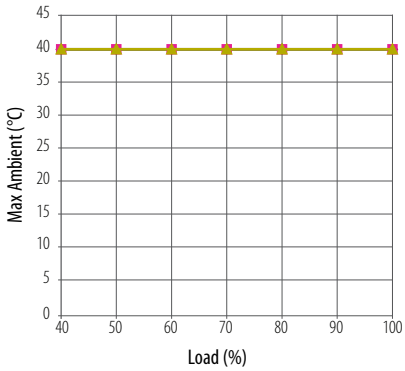
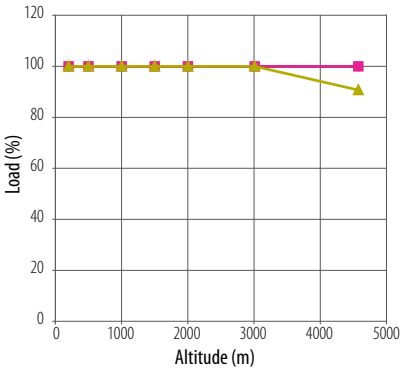
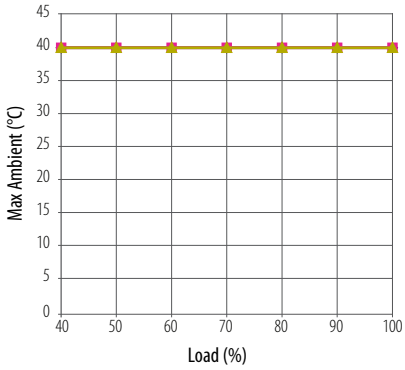
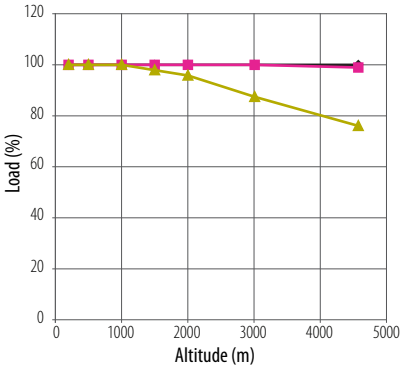
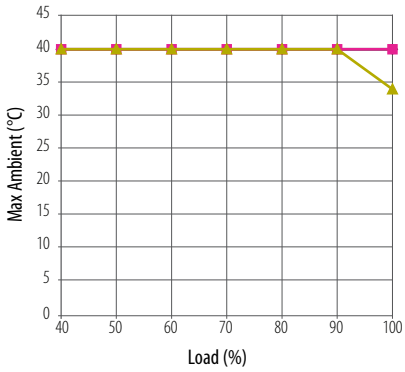
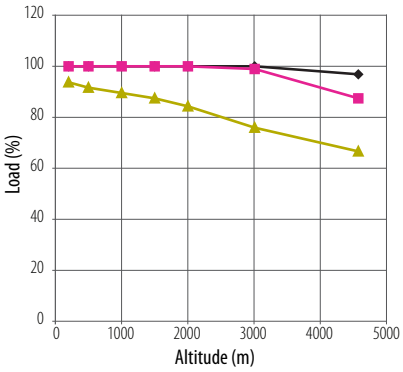
Catalog Number	Frame	400V AC Power Rating						Derating for IP21, UL Type 1 and IP54, UL Type 12	
		Light Duty		Normal Duty		Heavy Duty		Ambient Temperature/Load	Altitude/Load
		kW	Cont. Amps	kW	Cont. Amps	kW	Cont. Amps	1.33 kHz, 2 kHz, 4 kHz	1.33 kHz, 2 kHz, 4 kHz
20G…C650	8	400	750	355	650	315	540		
20G…C750	8	450	796	400	750	315	585		
20G…C770	8	450	832	400	770	355	650		
20G…C920	9	560	1040	500	920	400	770		

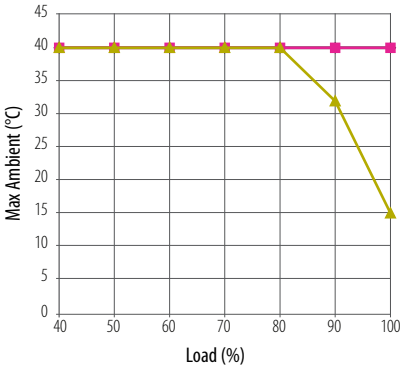
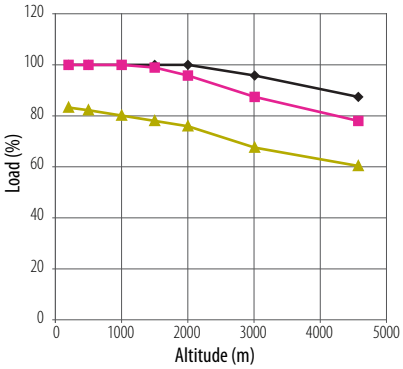
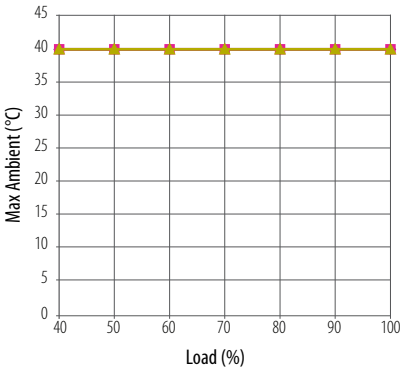
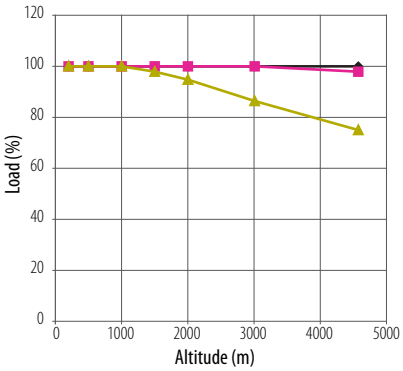
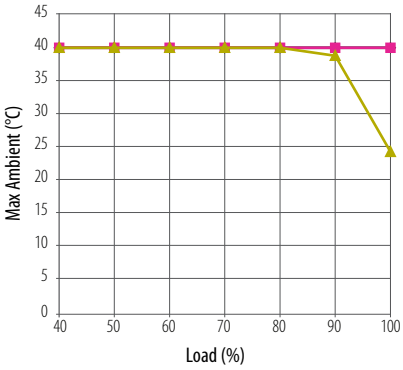
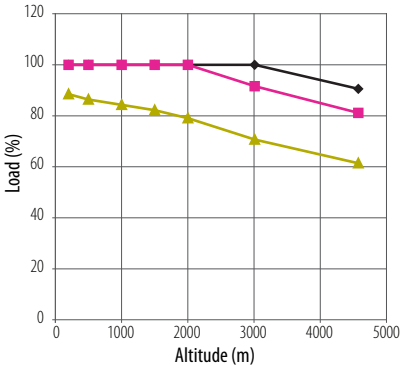
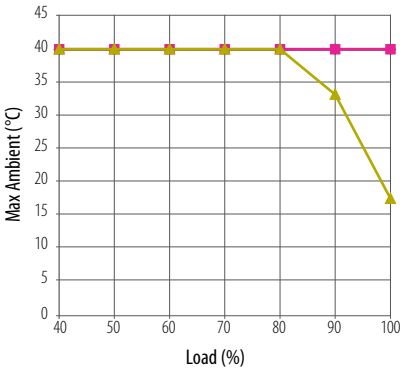
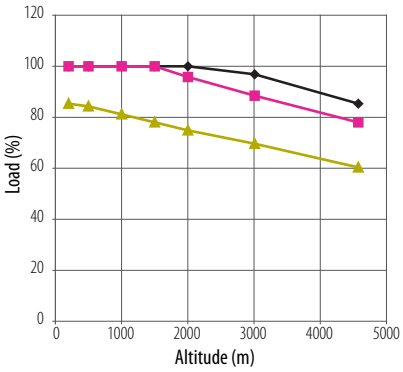
Catalog Number	Frame	400V AC Power Rating						Derating for IP21, UL Type 1 and IP54, UL Type 12	
		Light Duty		Normal Duty		Heavy Duty		Ambient Temperature/Load	Altitude/Load
		kW	Cont. Amps	kW	Cont. Amps	kW	Cont. Amps	1.33 kHz, 2 kHz, 4 kHz	1.33 kHz, 2 kHz, 4 kHz
20G…C1K0	9	630	1090	560	1040	500	920		
20G…C1K1	9	710	1182	630	1112	500	1040		
20G…C1K2	9	800	1465	710	1175	560	1090		
20G…C1K4	9	850	1581	800	1463	630	1175		

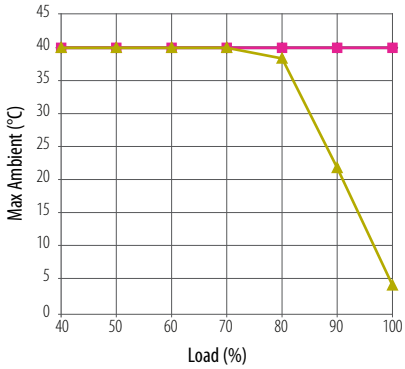
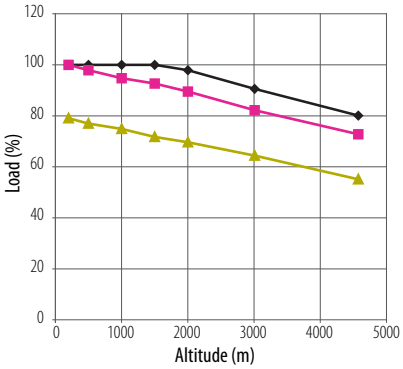
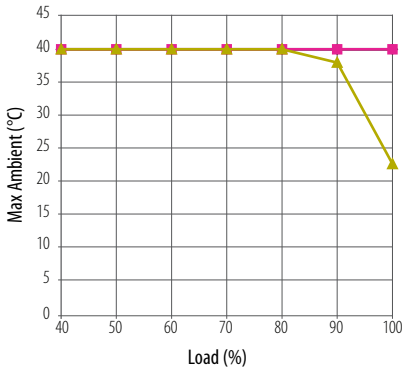
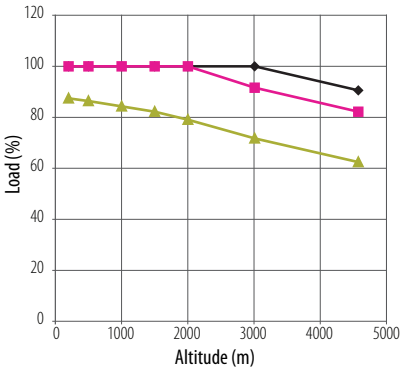
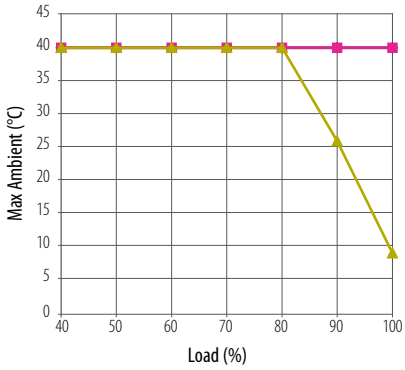
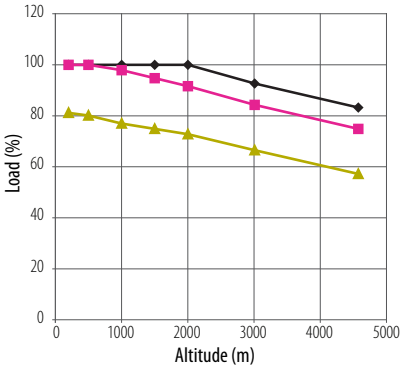
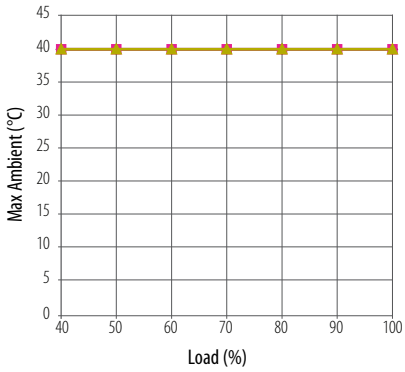
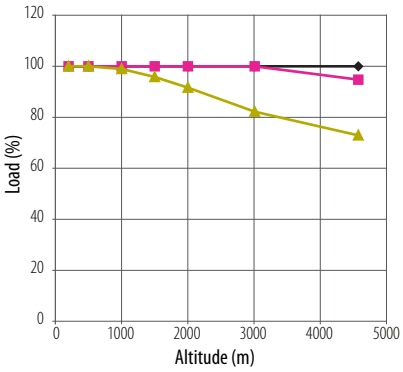
Catalog Number	Frame	400V AC Power Rating						Derating for IP21, UL Type 1 and IP54, UL Type 12	
		Light Duty		Normal Duty		Heavy Duty		Ambient Temperature/Load	Altitude/Load
		kW	Cont. Amps	kW	Cont. Amps	kW	Cont. Amps	1.33 kHz, 2 kHz, 4 kHz	1.33 kHz, 2 kHz, 4 kHz
20G…C1K6	10	1000	1715	850	1590	710	1465		
20G…C1K7	10	1250	2150	1000	1715	800	1480		
20G…C2K1 20G…C2K1	10 13	1400 2475	2330 4576	1250 2200	2156 4235	1000 1953	1715 3575		

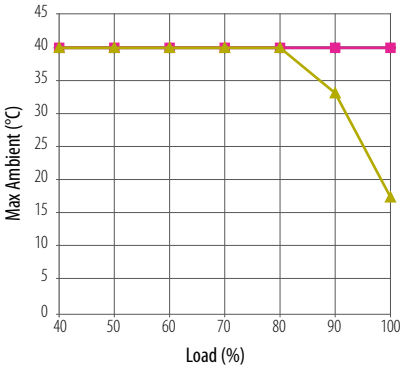
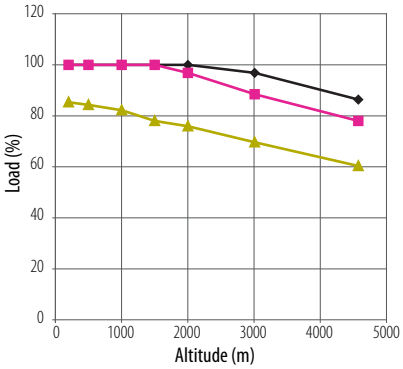
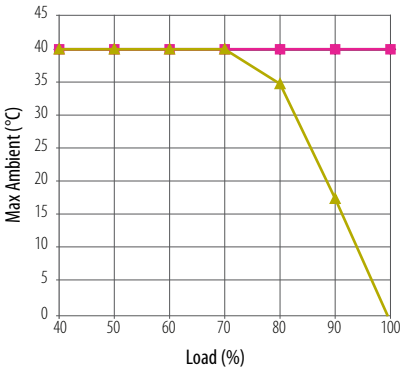
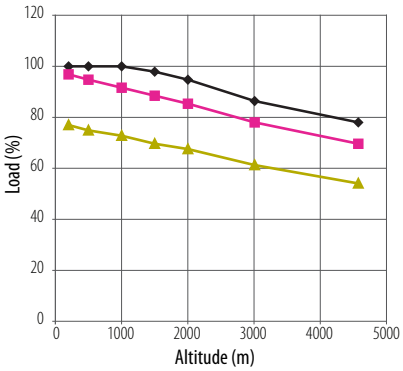
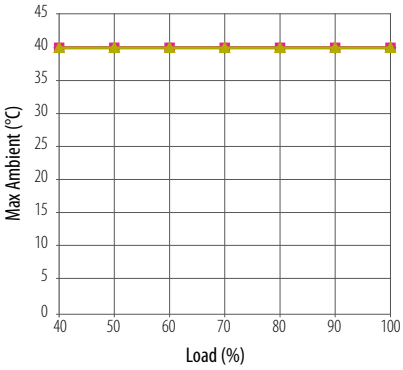
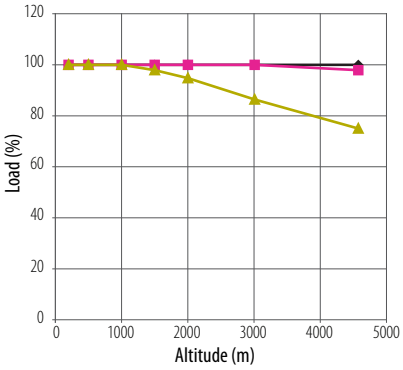
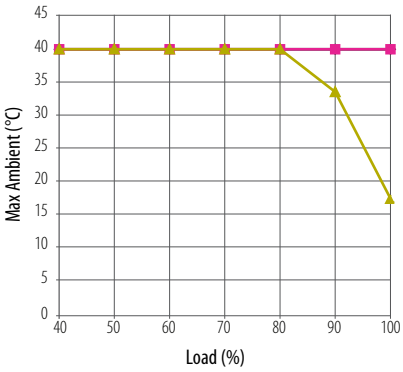
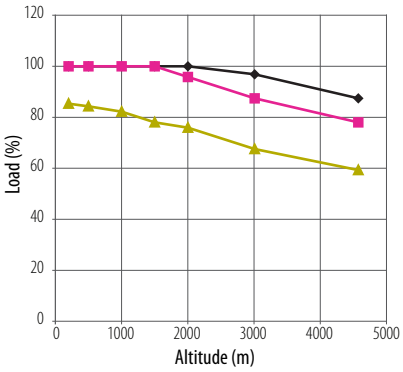
Catalog Number	Frame	400V AC Power Rating						Derating for IP21, UL Type 1 and IP54, UL Type 12	
		Light Duty		Normal Duty		Heavy Duty		Ambient Temperature/Load	Altitude/Load
		kW	Cont. Amps	kW	Cont. Amps	kW	Cont. Amps	1.33 kHz, 2 kHz, 4 kHz	1.33 kHz, 2 kHz, 4 kHz
20G…C2K8	11	1800	3078	1650	2849	1400	2330		
20G…C5K6	14	3285	6074	2920	5621	2592	4745		
20G…C3K5	12	2200	3846	2000	3542	1650	3032		
20G…C7K0	15	4095	7571	3640	7007	3231	5915		

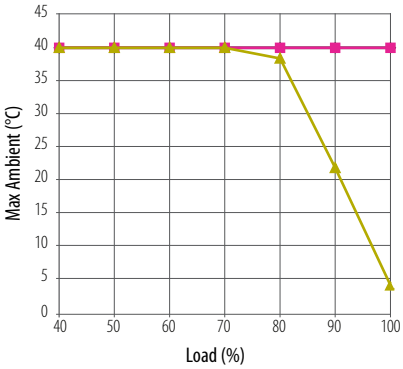
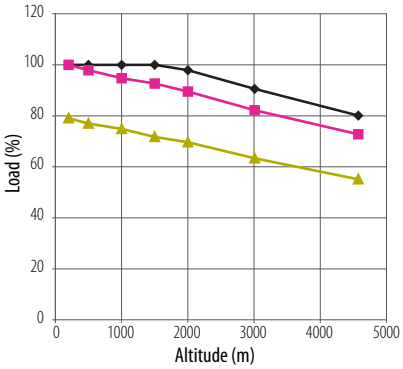
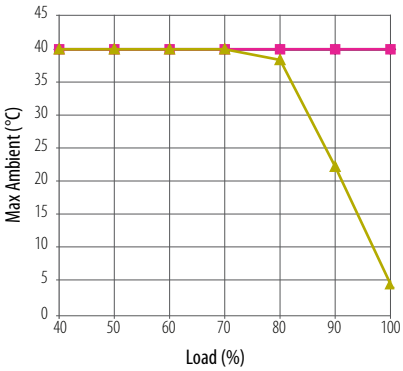
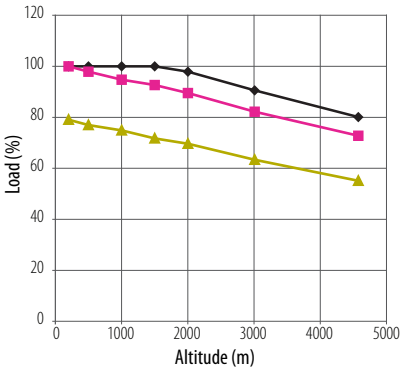
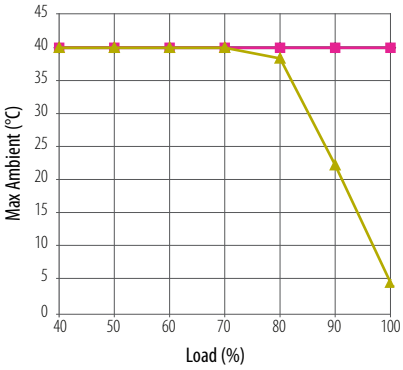
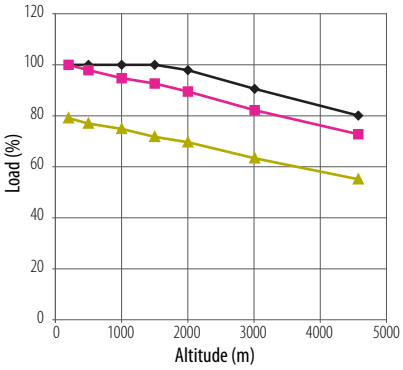
Catalog Number	Frame	480V AC Power Rating						Derating for IP21, UL Type 1 and IP54, UL Type 12	
		Light Duty		Normal Duty		Heavy Duty		Ambient Temperature/Load	Altitude/Load
		Hp	Cont. Amps	Hp	Cont. Amps	Hp	Cont. Amps	1.33 kHz, 2 kHz, 4 kHz	1.33 kHz, 2 kHz, 4 kHz
20G…D302	7	300	361	250	302	200	248		
20G…D361	7	350	430	300	361	250	302		
20G…D430	7	400	485	350	430	300	361		
20G…D505	7	450	545	400	505	350	430		

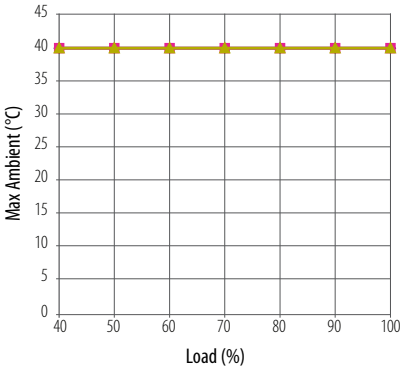
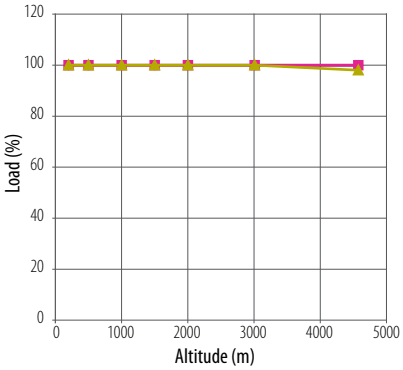
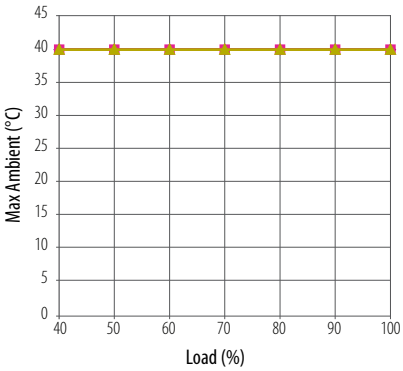
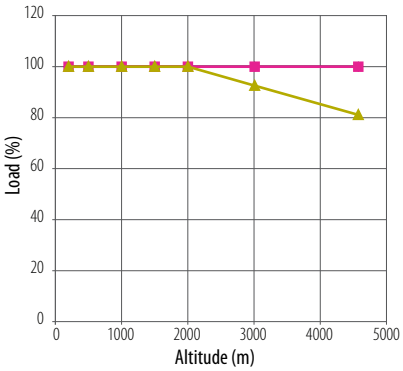
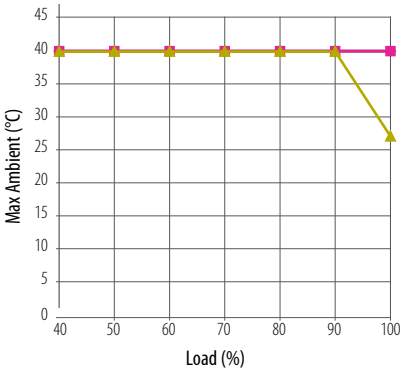
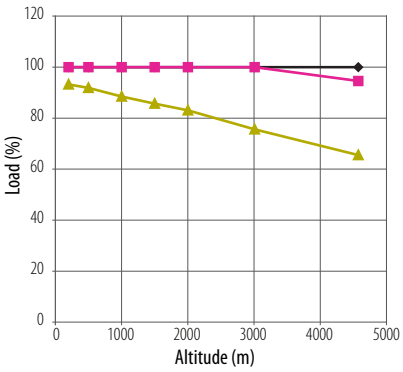
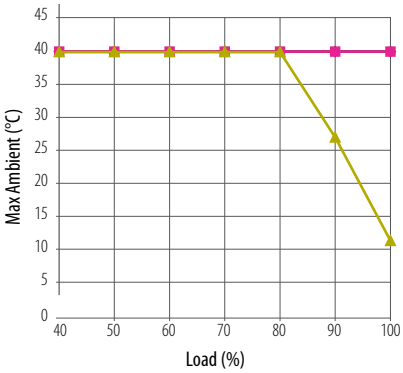
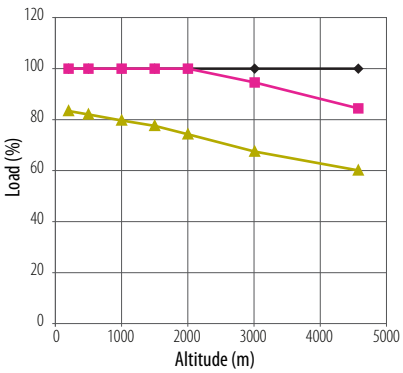
Catalog Number	Frame	480V AC Power Rating						Derating for IP21, UL Type 1 and IP54, UL Type 12	
		Light Duty		Normal Duty		Heavy Duty		Ambient Temperature/Load	Altitude/Load
		Hp	Cont. Amps	Hp	Cont. Amps	Hp	Cont. Amps	1.33 kHz, 2 kHz, 4 kHz	1.33 kHz, 2 kHz, 4 kHz
20G…D617	7	500	617	500	600	400	500		
20G…D302	8	300	361	250	302	200	248		
20G…D361	8	350	430	300	361	250	302		
20G…D430	8	400	485	350	430	300	361		

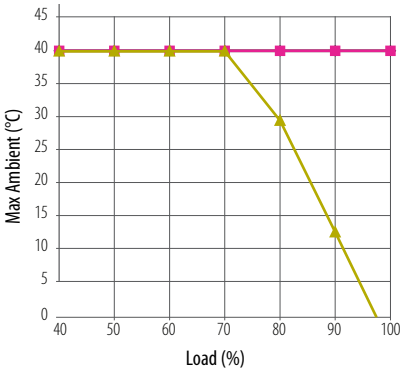
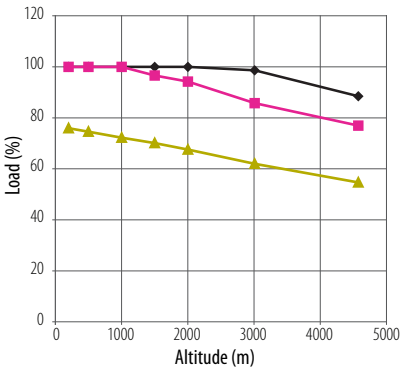
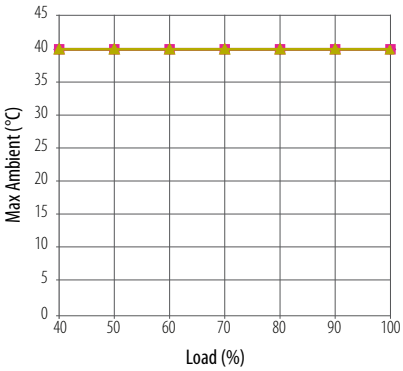
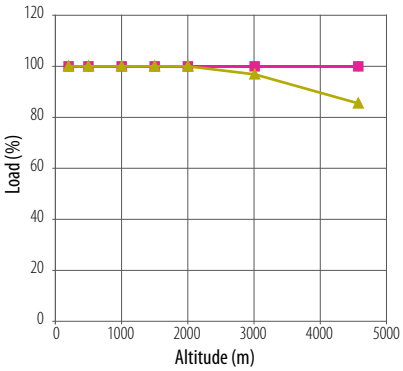
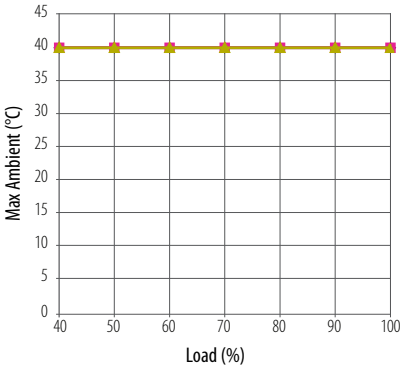
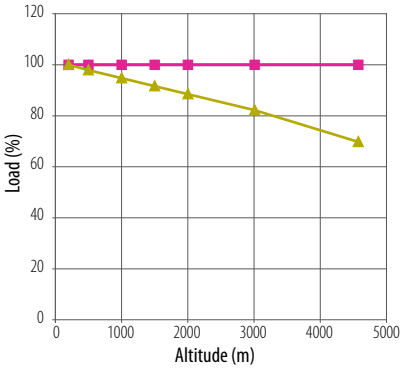
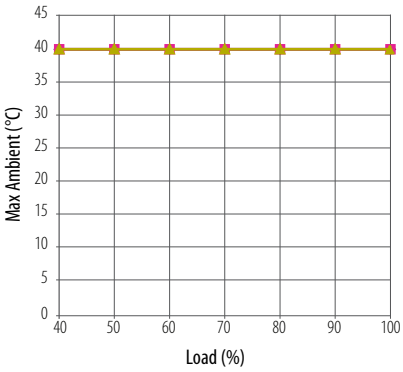
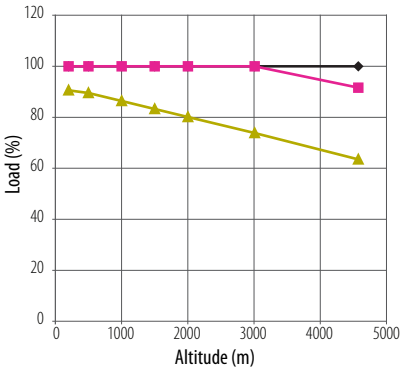
Catalog Number	Frame	480V AC Power Rating						Derating for IP21, UL Type 1 and IP54, UL Type 12	
		Light Duty		Normal Duty		Heavy Duty		Ambient Temperature/Load	Altitude/Load
		Hp	Cont. Amps	Hp	Cont. Amps	Hp	Cont. Amps	1.33 kHz, 2 kHz, 4 kHz	1.33 kHz, 2 kHz, 4 kHz
20G…D505	8	450	545	400	505	350	430		
20G…D545	8	500	617	450	545	350	454		
20G…D617	8	600	710	500	617	400	485		
20G…D710	8	650	765	600	710	450	545		

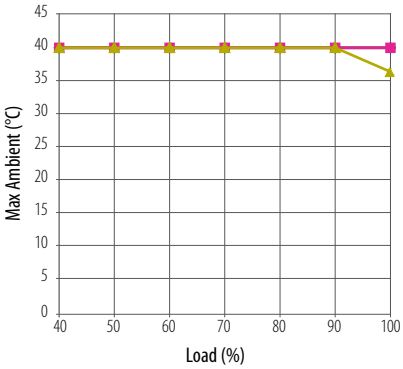
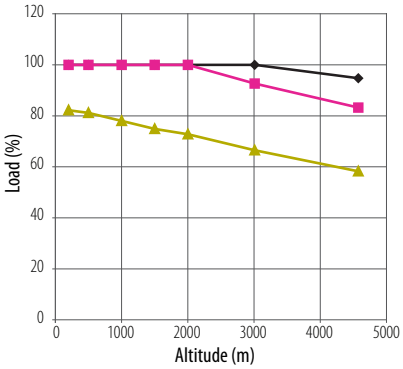
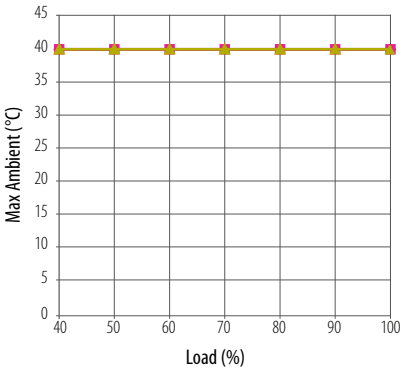
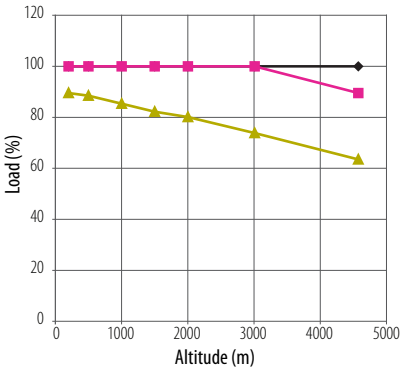
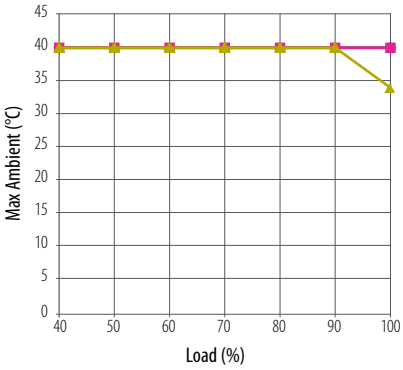
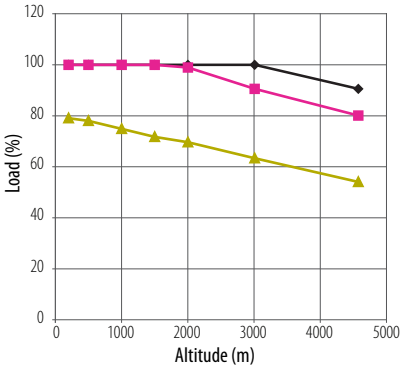
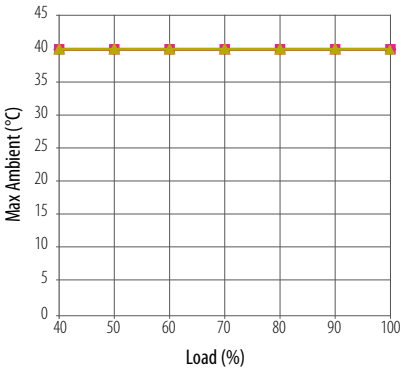
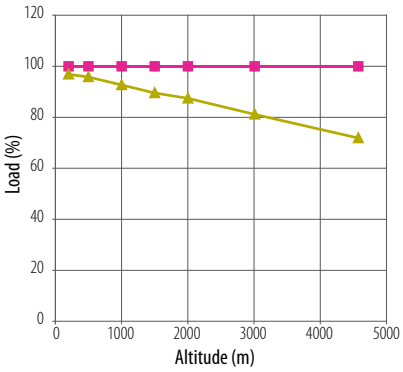
Catalog Number	Frame	480V AC Power Rating						Derating for IP21, UL Type 1 and IP54, UL Type 12	
		Light Duty		Normal Duty		Heavy Duty		Ambient Temperature/Load	Altitude/Load
		Hp	Cont. Amps	Hp	Cont. Amps	Hp	Cont. Amps	1.33 kHz, 2 kHz, 4 kHz	1.33 kHz, 2 kHz, 4 kHz
20G…D740	8	700	800	650	740	500	617		
20G…D800	9	800	960	700	800	600	740		
20G…D960	9	900	1045	800	960	700	800		
20G…D1K0	9	1000	1121	900	1045	750	960		

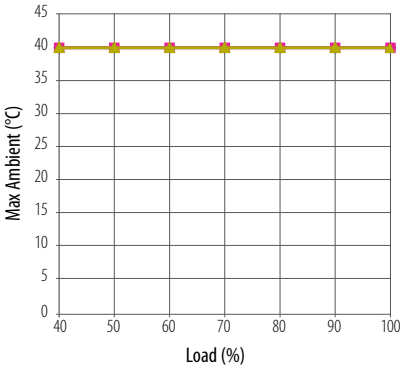
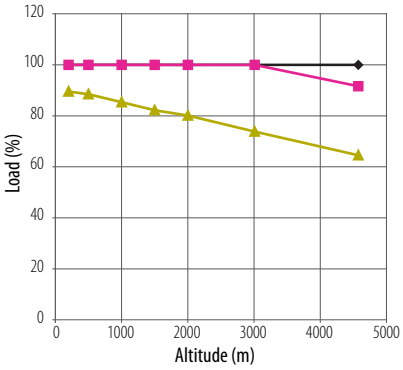
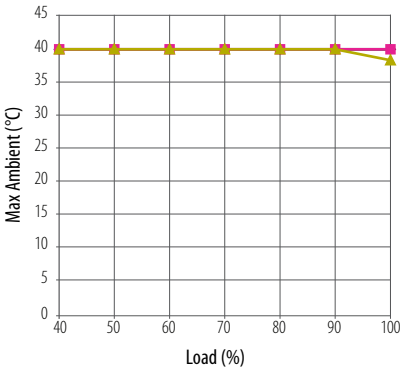
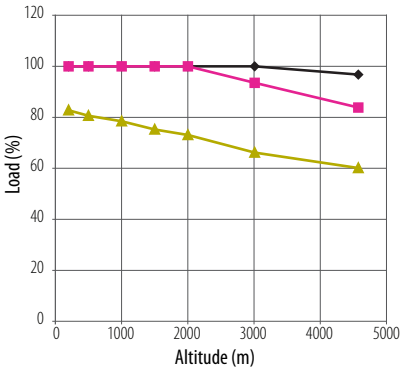
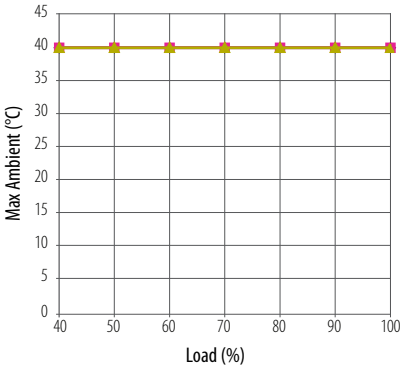
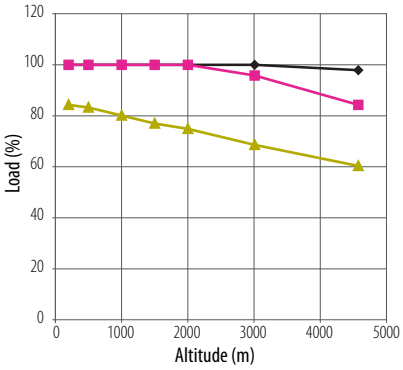
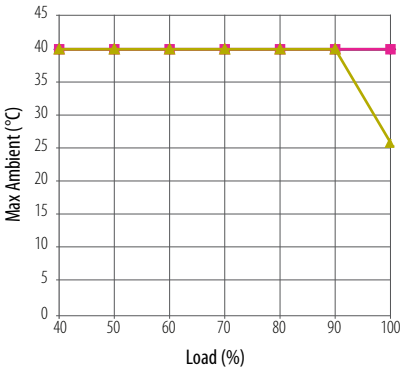
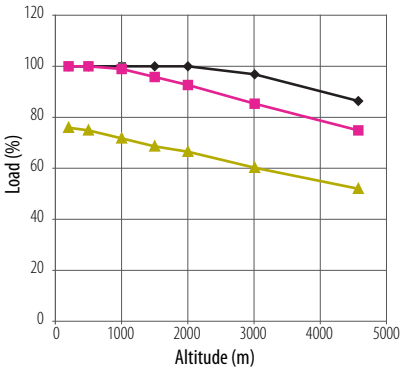
Catalog Number	Frame	480V AC Power Rating						Derating for IP21, UL Type 1 and IP54, UL Type 12	
		Light Duty		Normal Duty		Heavy Duty		Ambient Temperature/Load	Altitude/Load
		Hp	Cont. Amps	Hp	Cont. Amps	Hp	Cont. Amps	1.33 kHz ◆ 2 kHz ■ 4 kHz ▲	1.33 kHz ◆ 2 kHz ■ 4 kHz ▲
20G…D1K1	9	1100	1365	1000	1135	800	1045		
20G…D1K3	9	1250	1520	1100	1365	900	1135		
20G…D1K4	10	1500	1655	1250	1420	1000	1365		
20G…D1K6	10	1800	2070	1500	1655	1100	1420		

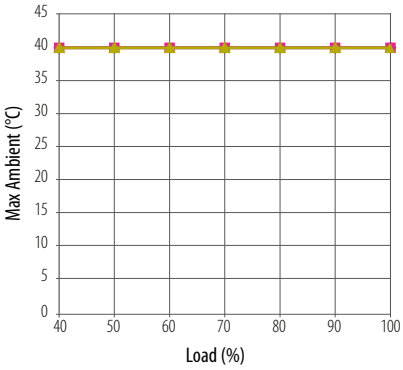
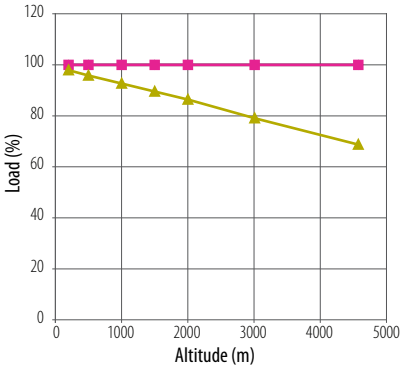
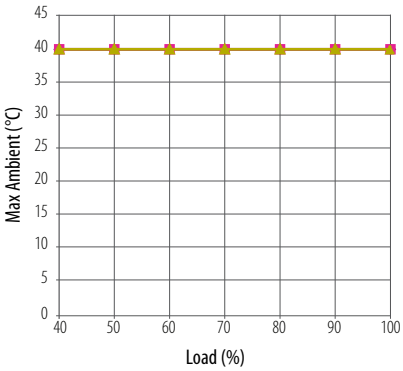
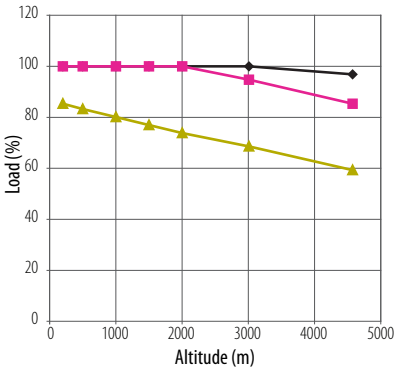
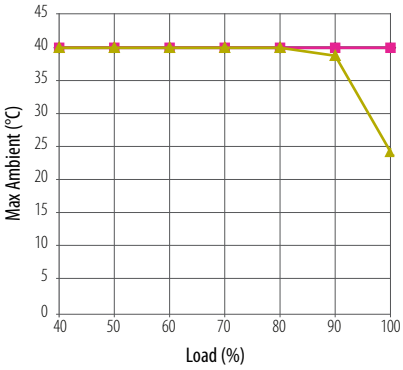
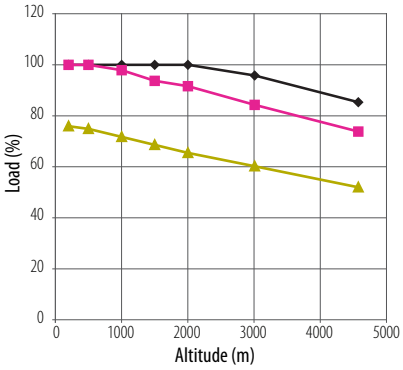
Catalog Number	Frame	480V AC Power Rating						Derating for IP21, UL Type 1 and IP54, UL Type 12	
		Light Duty		Normal Duty		Heavy Duty		Ambient Temperature/Load	Altitude/Load
		Hp	Cont. Amps	Hp	Cont. Amps	Hp	Cont. Amps	1.33 kHz ◆ 2 kHz ■ 4 kHz ▲	1.33 kHz ◆ 2 kHz ■ 4 kHz ▲
20G…D2K0	10	2000	2240	1800	2072	1500	1655		
20G…D4K0	13	3900	4400	3600	4070	2800	3394		
20G…D2K6	11	2600	2960	2400	2738	2000	2240		
20G…D5K4	14	5200	5840	4800	5402	3700	4504		
20G…D3K4	12	3300	3696	3000	3404	2400	2980		
20G…D7K0	15	6400	7280	600	6734	4600	5615		

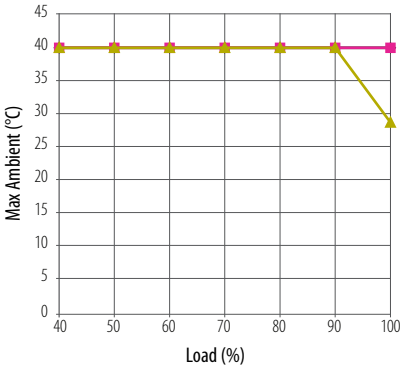
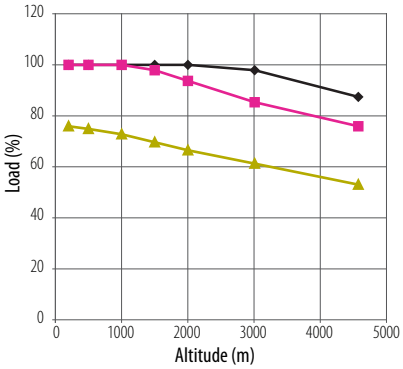
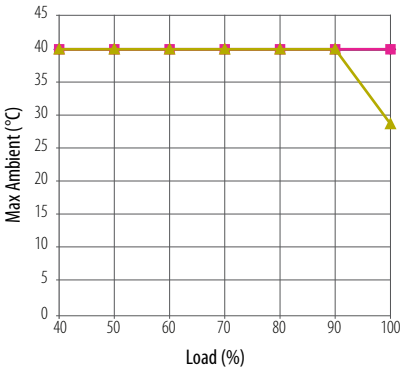
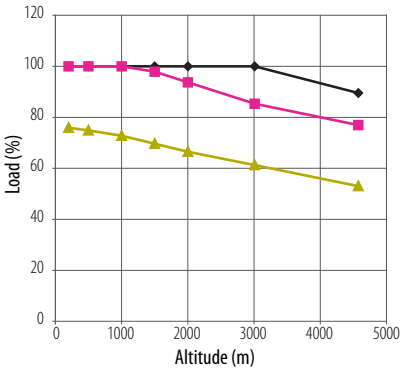
Catalog Number	Frame	600V AC Power Rating						Derating for IP21, UL Type 1 and IP54, UL Type 12	
		Light Duty		Normal Duty		Heavy Duty		Ambient Temperature/Load	Altitude/Load
		Hp	Cont. Amps	Hp	Cont. Amps	Hp	Cont. Amps	1.33 kHz, 2 kHz, 4 kHz	1.33 kHz, 2 kHz, 4 kHz
20G…E192	7	250	242	200	192	150	144		
20G…E242	7	300	295	250	242	200	192		
20G…E295	7	350	355	300	295	250	242		
20G…E355	7	400	395	350	355	300	295		

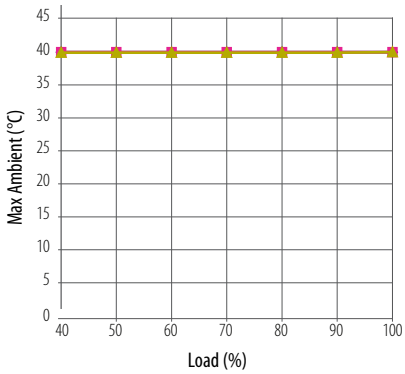
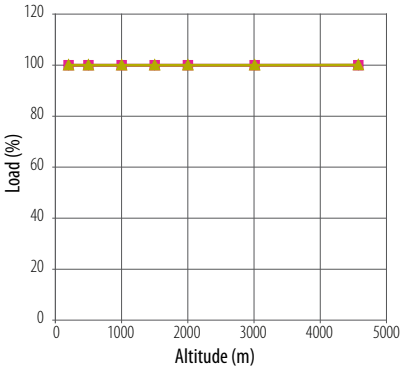
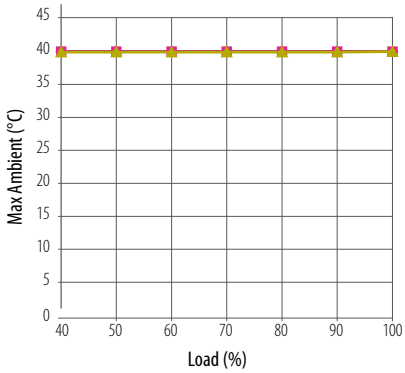
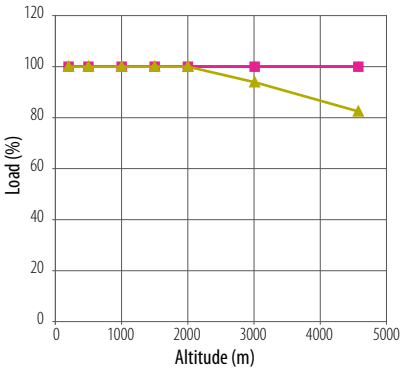
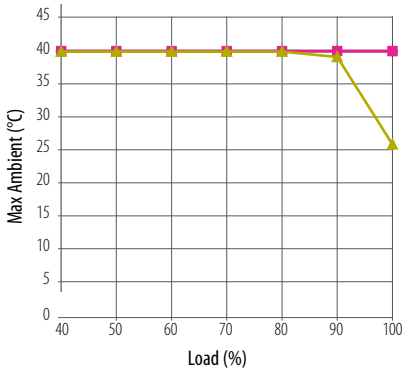
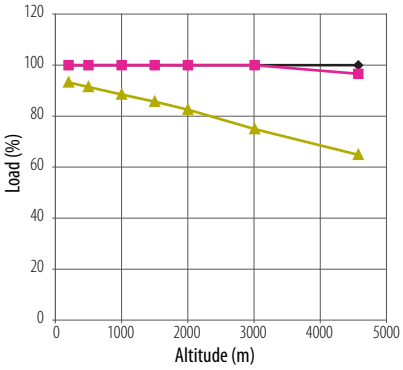
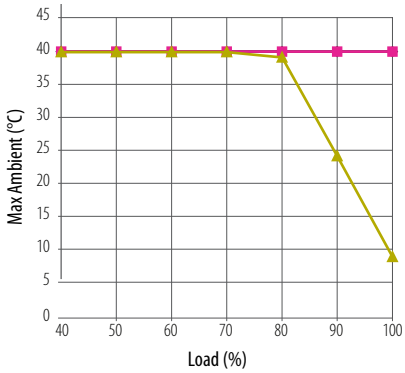
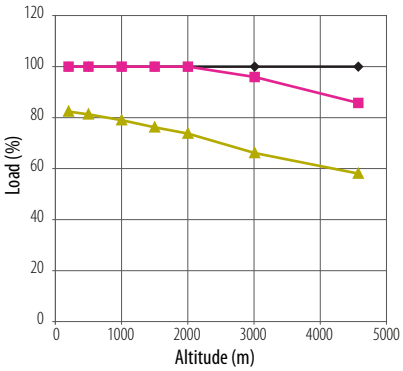
Catalog Number	Frame	600V AC Power Rating						Derating for IP21, UL Type 1 and IP54, UL Type 12	
		Light Duty		Normal Duty		Heavy Duty		Ambient Temperature/Load	Altitude/Load
		Hp	Cont. Amps	Hp	Cont. Amps	Hp	Cont. Amps	1.33 kHz, 2 kHz, 4 kHz	1.33 kHz, 2 kHz, 4 kHz
20G…E395	7	450	435	400	395	350	355		
20G…E242	8	300	295	250	242	200	192		
20G…E295	8	350	355	300	295	250	242		
20G…E355	8	400	395	350	355	300	295		

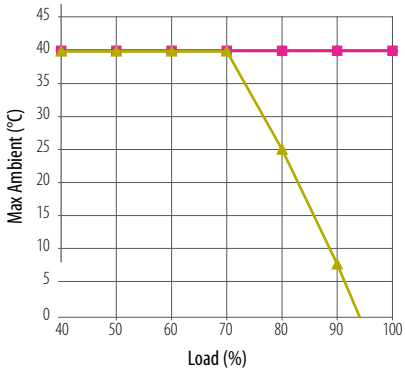
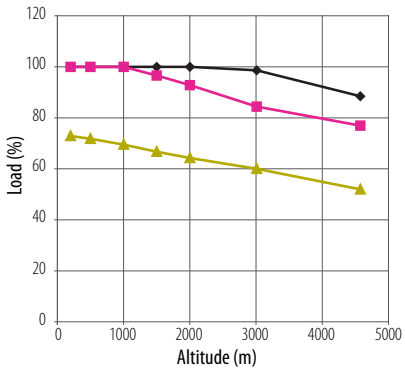
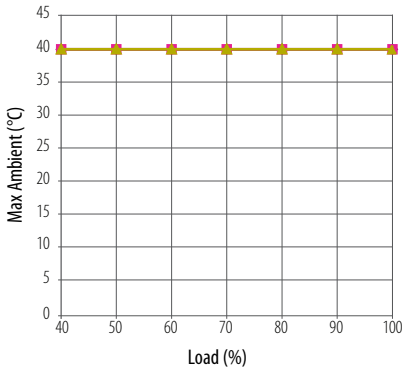
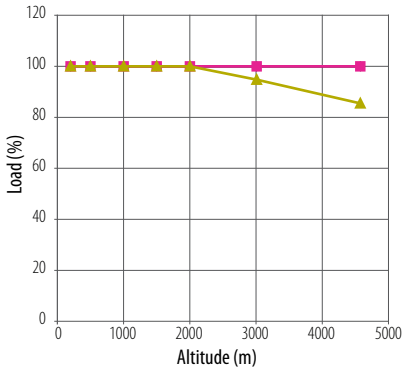
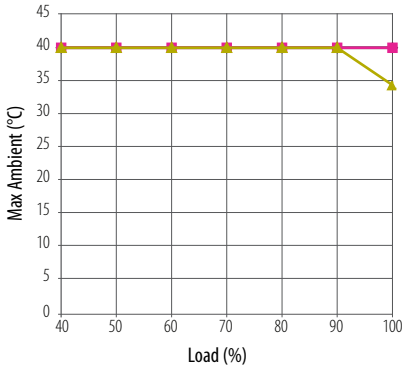
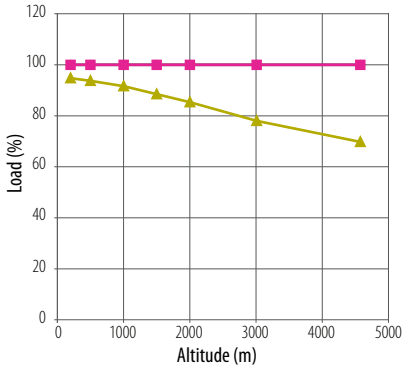
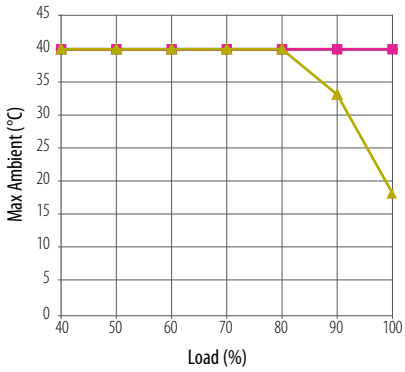
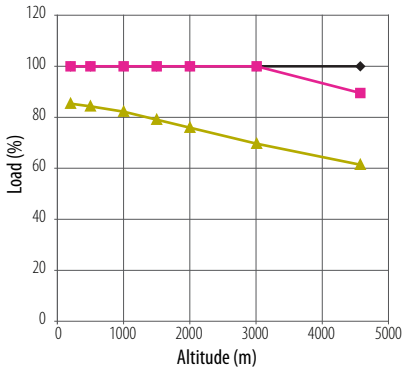
Catalog Number	Frame	600V AC Power Rating						Derating for IP21, UL Type 1 and IP54, UL Type 12	
		Light Duty		Normal Duty		Heavy Duty		Ambient Temperature/Load	Altitude/Load
		Hp	Cont. Amps	Hp	Cont. Amps	Hp	Cont. Amps	1.33 kHz ◆ 2 kHz ■ 4 kHz ▲	1.33 kHz ◆ 2 kHz ■ 4 kHz ▲
20G…E395	8	450	435	400	395	350	355		
20G…C435	8	500	510	450	435	400	395		
20G…E545	8	600	580	550	545	450	450		
20G…E595	9	700	690	600	580	550	545		

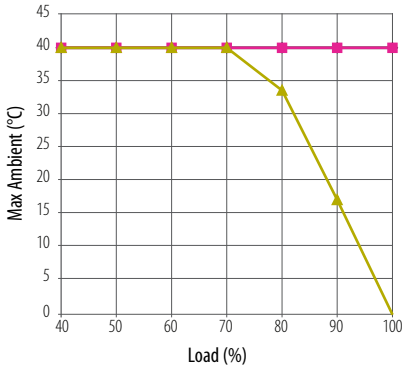
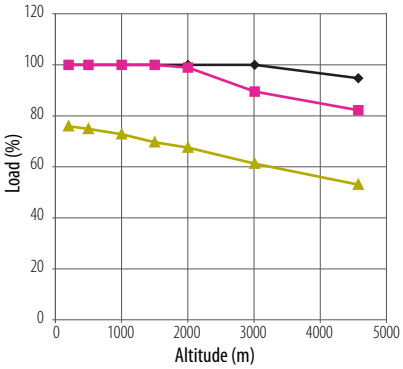
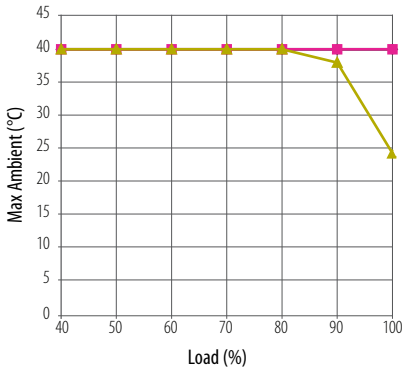
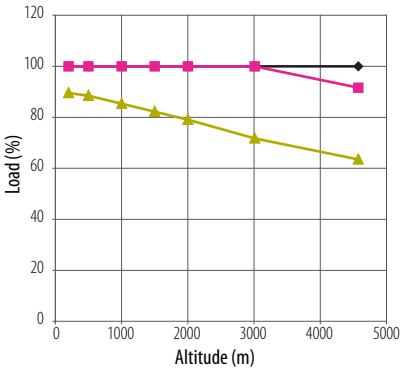
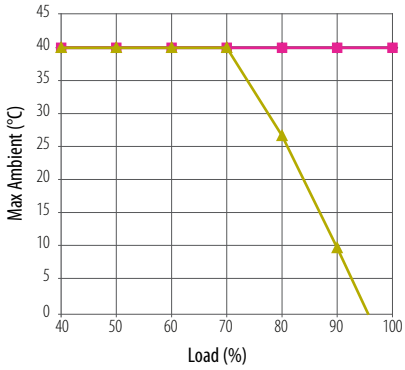
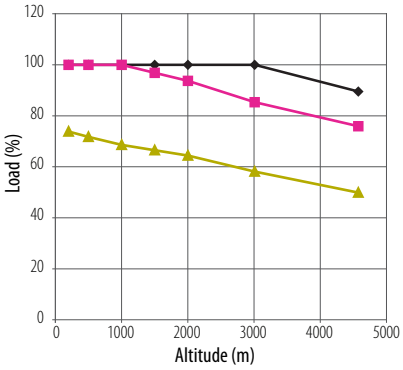
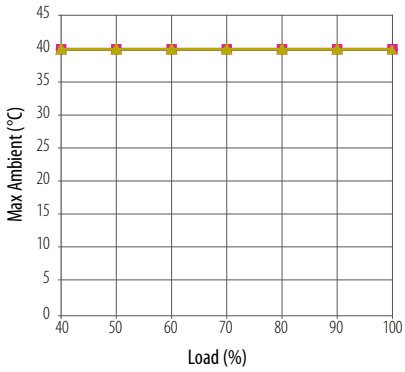
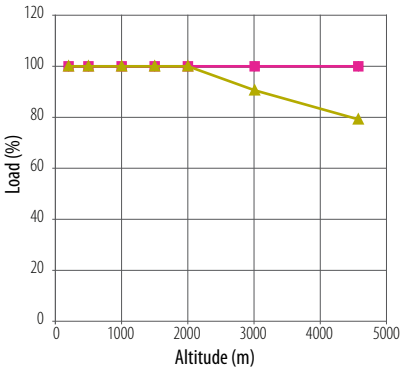
Catalog Number	Frame	600V AC Power Rating						Derating for IP21, UL Type 1 and IP54, UL Type 12	
		Light Duty		Normal Duty		Heavy Duty		Ambient Temperature/Load	Altitude/Load
		Hp	Cont. Amps	Hp	Cont. Amps	Hp	Cont. Amps	1.33 kHz ◆ 2 kHz ■ 4 kHz ▲	1.33 kHz ◆ 2 kHz ■ 4 kHz ▲
20G…E690	9	800	760	700	690	600	595		
20G…E760	9	900	825	800	760	700	690		
20G…E825	9	1000	980	900	825	800	760		
20G…E980	9	1100	1102	1000	980	900	825		

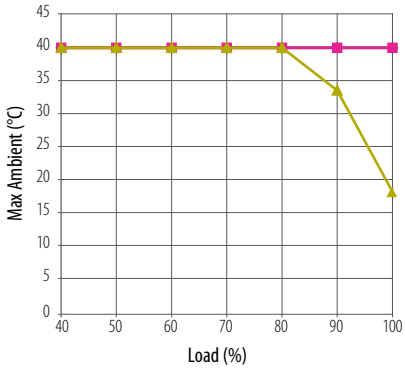
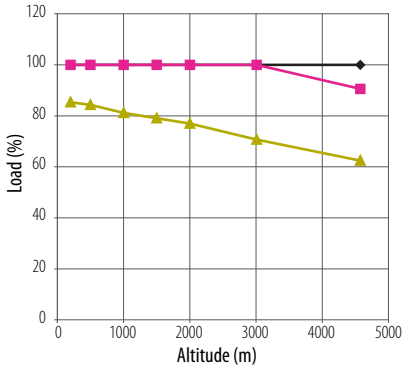
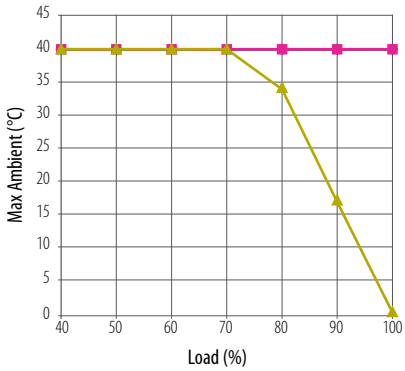
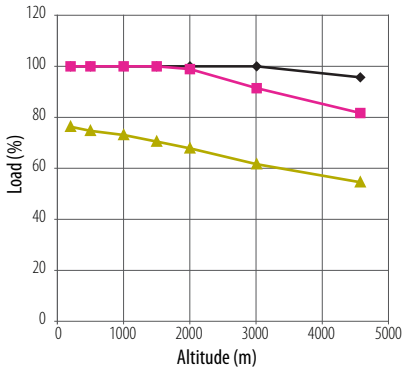
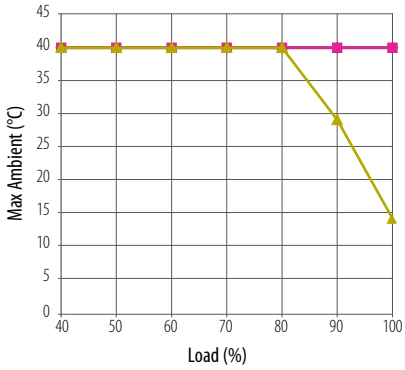
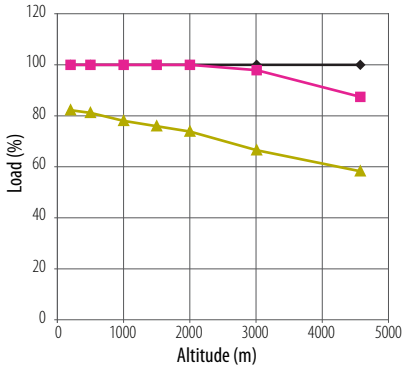
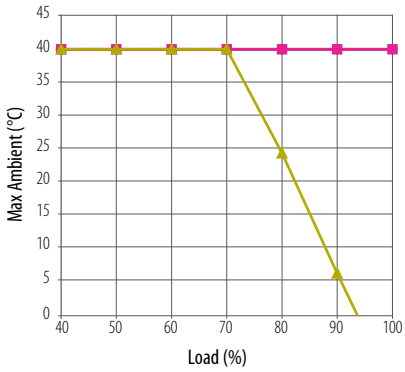
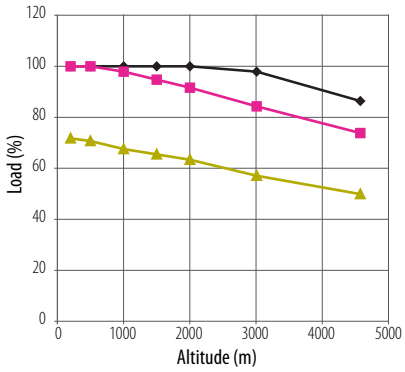
Catalog Number	Frame	600V AC Power Rating						Derating for IP21, UL Type 1 and IP54, UL Type 12	
		Light Duty		Normal Duty		Heavy Duty		Ambient Temperature/Load	Altitude/Load
		Hp	Cont. Amps	Hp	Cont. Amps	Hp	Cont. Amps	1.33 kHz ◆ 2 kHz ■ 4 kHz ▲	1.33 kHz ◆ 2 kHz ■ 4 kHz ▲
20G…E1K1	10	1250	1220	1100	1045	1000	980		
20G…E1K2	10	1500	1430	1250	1220	1100	1045		
20G…E1K5 20G…E2K9	10 13	1600 3300	1624 3190	1500 3100	1430 2998	1250 2500	1220 2475		

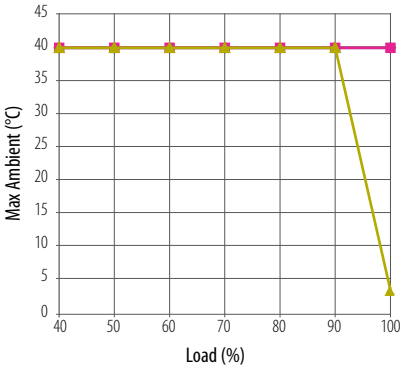
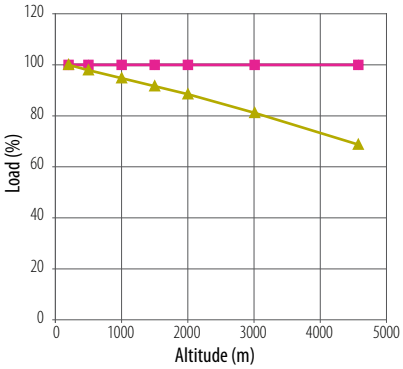
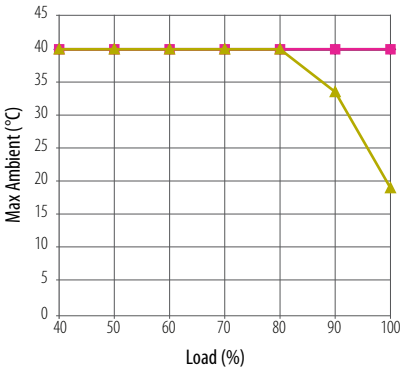
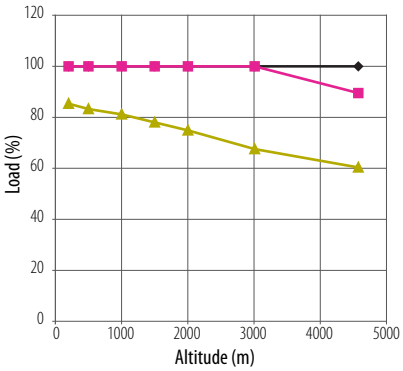
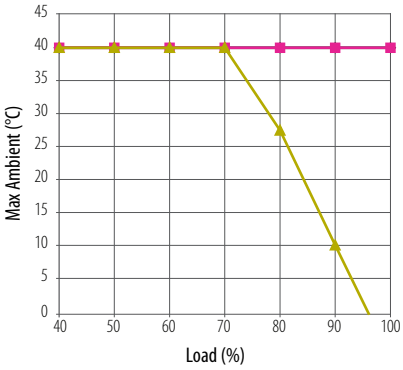
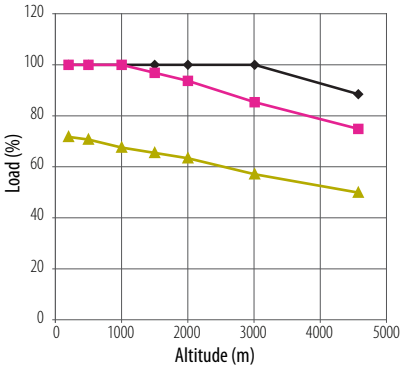
Catalog Number	Frame	600V AC Power Rating						Derating for IP21, UL Type 1 and IP54, UL Type 12	
		Light Duty		Normal Duty		Heavy Duty		Ambient Temperature/Load	Altitude/Load
		Hp	Cont. Amps	Hp	Cont. Amps	Hp	Cont. Amps	1.33 kHz, 2 kHz, 4 kHz	1.33 kHz, 2 kHz, 4 kHz
20G…E2K0	11	2100	2146	2000	1946	1800	1700		
20G…E3K9	14	4400	4234	4100	3979	3300	3285		
20G…E2K4	12	2600	2668	2500	2420	2100	2070		
20G…E4K9	15	5500	5278	5100	4960	4100	4095		

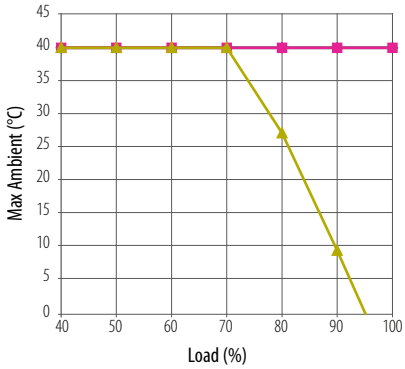
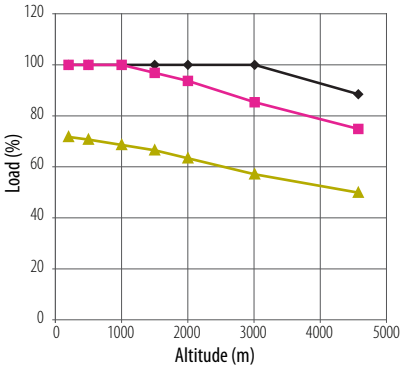
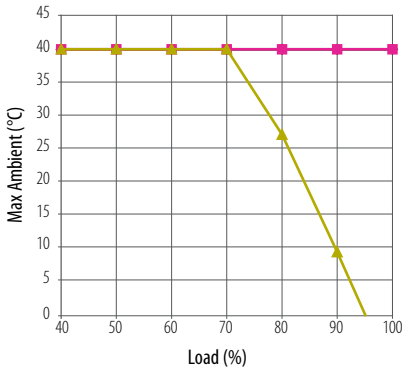
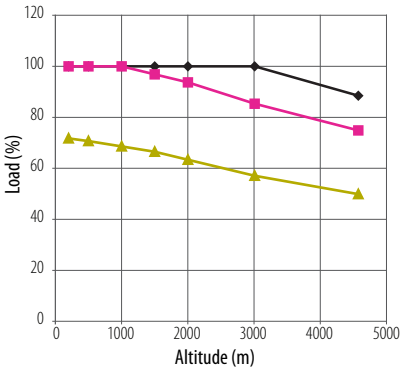
Catalog Number	Frame	690V AC Power Rating						Derating for IP21, UL Type 1 and IP54, UL Type 12	
		Light Duty		Normal Duty		Heavy Duty		Ambient Temperature/Load	Altitude/Load
		kW	Cont. Amps	kW	Cont. Amps	kW	Cont. Amps	1.33 kHz, 2 kHz, 4 kHz	1.33 kHz, 2 kHz, 4 kHz
20G…F171	7	200	215	160	171	132	142		
20G…F215	7	250	265	200	215	160	171		
20G…F265	7	315	330	250	265	200	215		
20G…F330	7	355	370	315	330	250	265		

Catalog Number	Frame	690V AC Power Rating						Derating for IP21, UL Type 1 and IP54, UL Type 12	
		Light Duty		Normal Duty		Heavy Duty		Ambient Temperature/Load	Altitude/Load
		kW	Cont. Amps	kW	Cont. Amps	kW	Cont. Amps	1.33 kHz, 2 kHz, 4 kHz	1.33 kHz, 2 kHz, 4 kHz
20G…F370	7	400	415	355	370	315	330		
20G…F215	8	250	265	200	215	160	171		
20G…F265	8	315	330	250	265	200	215		
20G…F330	8	355	370	315	330	250	265		

Catalog Number	Frame	690V AC Power Rating						Derating for IP21, UL Type 1 and IP54, UL Type 12	
		Light Duty		Normal Duty		Heavy Duty		Ambient Temperature/Load	Altitude/Load
		kW	Cont. Amps	kW	Cont. Amps	kW	Cont. Amps	1.33 kHz, 2 kHz, 4 kHz	1.33 kHz, 2 kHz, 4 kHz
20G…F370	8	400	415	355	370	315	330		
20G…F415	8	450	460	400	415	355	370		
20G…F505	8	560	565	500	505	400	415		
20G…F565	9	630	650	560	565	500	505		

Catalog Number	Frame	690V AC Power Rating						Derating for IP21, UL Type 1 and IP54, UL Type 12	
		Light Duty		Normal Duty		Heavy Duty		Ambient Temperature/Load	Altitude/Load
		kW	Cont. Amps	kW	Cont. Amps	kW	Cont. Amps	1.33 kHz, 2 kHz, 4 kHz	1.33 kHz, 2 kHz, 4 kHz
20G…F650	9	710	735	630	650	560	565		
20G…F735	9	800	820	710	735	630	650		
20G…F820	9	900	920	800	820	710	735		
20G…F920	9	1000	1074	900	920	800	820		

Catalog Number	Frame	690V AC Power Rating						Derating for IP21, UL Type 1 and IP54, UL Type 12	
		Light Duty		Normal Duty		Heavy Duty		Ambient Temperature/Load	Altitude/Load
		kW	Cont. Amps	kW	Cont. Amps	kW	Cont. Amps	1.33 kHz, 2 kHz, 4 kHz	1.33 kHz, 2 kHz, 4 kHz
20G…F1K0	10	1100	1150	1000	1030	900	920		
20G…F1K1	10	1250	1344	1100	1150	1000	1030		
20G…F1K4 20G…F2K7	10 13	1500 3080	1582 3108	1400 2750	1419 2778	1100 2200	1162 2283		

Catalog Number	Frame	690V AC Power Rating						Derating for IP21, UL Type 1 and IP54, UL Type 12	
		Light Duty		Normal Duty		Heavy Duty		Ambient Temperature/Load	Altitude/Load
		kW	Cont. Amps	kW	Cont. Amps	kW	Cont. Amps	1.33 kHz, 2 kHz, 4 kHz	1.33 kHz, 2 kHz, 4 kHz
20G…F1K8	11	2000	2091	1800	1865	1500	1535		
20G…F1K8	14	4088	4125	3650	3687	2920	3030		
20G…F2K3	12	2500	2599	2300	2318	2000	2020		
20G…F4K5	15	5096	5142	4550	4596	3640	3777		

Circuit Breaker Derating

Circuit breakers have the following derating based on altitude (UL and IEC ratings). The Emax circuit breaker is used in 400/480V Frames 11 and 12 only (highest current rating). All other voltages and frames use the Tmax breakers. See AC Precharge Circuit Breaker on page 93 for more information.

Tmax

Altitude m (ft.)	UL Rated Service Voltage (V)	IEC Rated Service Voltage (V)	UL Rated Current (%A)	IEC Rated Current (%A)
<2000 (<6600)	600	690	100	100
3000 (9900)	522	607	98	98
4000 (13200)	435	538	93	93
5000 (16500)	348	469	90	90

Emax

Altitude m (ft.)	UL Rated Service Voltage (V)	IEC Rated Service Voltage (V)	UL Rated Current (%A)	IEC Rated Current (%A)
<2000 (<6600)	600	690	100	100
3000 (9900)	600	607	98	98
4000 (13200)	500	538	93	93
5000 (16500)	440	469	90	90

Cable Considerations: Types Acceptable for 400…690V Installations

A variety of cable types are acceptable for drive installations. For an in-depth discussion of cable types, including a table of maximum motor cable lengths, refer to the PowerFlex 755TM IP00 Open Type Kits Installation Instructions, publication 750-IN101 or Wiring and Grounding Guidelines for Pulse Width Modulated (PWM) AC Drives, publication DRIVES-IN001.

Selection Considerations

Type		Cable Type	Description	Min. Insulation Rating
Input Power (1)(2)	Standard	–	All frame sizes: • Three tinned copper conductors with XLPE insulation. • Copper braid/aluminum foil combination shield and tinned copper drain wire, three drain wires per cable assembly. • PVC jacket. Frame 7 • Maximum 350 MCM dual conductor per phase. • Maximum 500 MCM single conductor per phase. Frame 8…15 • Maximum 500 MCM conductors.	600V, 75 °C (167 °F) (5)
Motor	Standard	–		400…600V systems: 600V, 75 °C (167 °F) 690V systems: 2000V, 90 °C (194 °F)
Signal (1)(3)(4)	Standard Analog I/O	–	0.750 mm^2 (18 AWG), twisted pair, 100% shield w/drain.	300V, 75…90 °C (167…194 °F)
	Remote Pot	–	0.750 mm^2 (18 AWG), 3 conductor, shielded.	
	Encoder/ Pulse I/O < 30 m (100 ft)	Combined	0.196 mm^2 (24 AWG) individually shielded pairs.	
	Encoder/ Pulse I/O 30...152 m (100...500 ft)	Signal	0.196 mm^2 (24 AWG) individually shielded pairs.	
		Power	0.750 mm^2 (18 AWG) in.dividually shielded pairs	
		Combined	0.330 mm^2 (22 AWG), power is 0.500 mm^2 (20 AWG) individually shielded pairs.	
	Encoder/ Pulse I/O 152...259 m (500...850 ft.)	Signal	0.196 mm^2 (24 AWG) individually shielded pairs.	
		Power	0.750 mm^2 (18 AWG) individually shielded pairs.	
		Combined	0.750 mm^2 (18 AWG) individually shielded pairs.	
Control Power	Unshielded	–	Per US NEC or applicable national or local code.	300V, 60 °C (140 °F)
Digital I/O Safety Inputs Homing Inputs (1)(3)(4)	Unshielded	–	Per US NEC or applicable national or local code.	300V, 60 °C (140 °F)
	Shielded	Multi-conductor shielded cable	0.750 mm^2 (18 AWG), 3 conductor, shielded.	

(1) Signal wires should be separated from power wires by at least 0.3 meters (1 foot).
(2) The use of shielded wire for AC input power is not required, but is always recommended.
(3) If the wires are short and contained within a cabinet which has no sensitive circuits, the use of shielded wire may not be necessary, but is always recommended.
(4) I/O terminals labeled "(–)" or "Common" are not referenced to earth ground and are designed to greatly reduce common mode interference. Grounding these terminals can cause signal noise. For CE installations, 115V I/O must use shielded cable or have a cable length less than 30 m (98 ft).
(5) The minimum insulation rating for input power wire must be at least equal to the nominal system voltage rating.

Required Enclosure Airflow Rates

The tables in this section provide the required airflow rates for each PowerFlex 755T product.

For these airflow tables, the following conventions apply:

- 1 CFM = 0.00047194745 CMS
- CFM = Cubic Feet per Minute
- CMS = Cubic Meter per Second

755TL and 755TR Drive (IP21 and IP54)

Frame Size	Input Bay (IB) Fans	CFM Per IB Fan	Number of Modules (LCL Filter + Line Side Converter + Motor Side Inverter)	CFM Per Module	Total CFM	Total CMS
7	—	—	3 (contained in one power bay)	810 (LCL Filter) 825 (Power Module)	2460	1.16
8	1	275	3 (contained in one power bay)	700	2375	1.12
9	1	275	5 (contained in two power bays)	700	3775	1.78
10	2	450	8 (contained in three power bays)	700	6500	3.07
11	2	450	10 (contained in four power bays)	700	7900	3.73
12	2	450	13 (contained in five power bays)	700	10000	4.72
13	4	900	16 (contained in six power bays)	700	11200	5.29
14	4	900	20 (contained in eight power bays)	700	14000	6.61
15	4	900	26 (contained in ten power bays)	700	18200	8.59

755TM Bus Supply (IP21 and IP54)

Frame Size	Input Bay (IB) Fans	CFM Per IB Fan	Number of Modules (LCL Filter + Line Side Converter)	CFM Per Module	Total CFM	Total CMS
7	—	—	2 (contained in one power bay)	810 (LCL Filter) 825 (Power Module	1635	0.77
8	1	275	2 (contained in one power bay)	700	1675	0.79
9	1	275	3 (contained in one power bay)	700	2375	1.12
10	2	450	5 (contained in two power bays)	700	4400	2.08
11	2	450	6 (contained in two power bays)	700	5100	2.41
12	2	450	8 (contained in three power bays)	700	6500	3.07
13	4	900	10 (contained in four power bays)	700	7000	3.30
14	4	900	12 (contained in four power bays)	700	8400	3.96
15	4	900	16 (contained in six power bays)	700	11200	5.29

755TM Common Bus Inverter (IP21 and IP54)

Frame Size	Control Bay (CB) Fans	CFM Per CB Fan	Number of Modules (Motor Side Inverter Only)	CFM Per Module	Total CFM	Total CMS
8	1	275	1 (contained in one power bay)	700	975	0.46
9	1	275	2 (contained in one power bay)	700	1675	0.79
10	1	275	3 (contained in one power bay)	700	2375	1.12
11	1	275	4 (contained in two power bays)	700	3075	1.45
12	1	275	5 (contained in two power bays)	700	3775	1.78
13	2	550	6 (contained in two power bays)	700	4200	1.98
14	2	550	8 (contained in four power bays)	700	5600	2.64
15	2	550	10 (contained in four power bays)	700	7000	3.30

Entry/Exit Wire Bay (IP21/IP54)

Frame Size	Wire Bay (WB) Fans	WB Width (mm)	CFM Per WB Fan	Total CFM	Total CMS
8…10, 13	1	400	147	58800	27.75
11, 12, 14, 15	1	800	350	280000	132.15

IP54 Roof Vent Fans

When installed on an IP54 rated power bay, the IP54 roof vent fan kits assist the LCL filter and power module fans to sustain the correct rate of airflow. The IP54 roof vent fans are required due to the high-resistance dust filter media in the IP54 door and roof vents. The airflow rates and number of roof vent kits that are required for power bays are included in this table.

IP54 Roof Vent Fan Airflow Rates

Power Bay Width *(mm)*	Number of Required IP54 Roof Vent Kits/Fans	CFM per Fan at 1.75 in-H20	Total CFM	m^3/hr per Fan at 435 Pa	Total m^3/hr
400	1	1400	1400	2379	2379
600	1	1400	1400	2379	2379
800	2	1400	2800	2379	4758

Enclosure Options

IMPORTANT IP21, UL Type 1 PowerFlex 750-Series drives must be installed in a clean, dry location. Contaminants such as oils, corrosive vapors and abrasive debris must be kept out of the enclosure. These enclosures are intended for indoor use primarily to provide a degree of protection against contact with enclosed equipment. These enclosures offer no protection against airborne contaminants. See the following tables for an explanation of enclosure options and the environmental specifications that are found on page 5. See Industry Installation Guidelines for Pulse Width Modulated (PWM) AC Drives, publication DRIVES-AT003 for additional information.

Pollution Degree Ratings According to EN 61800-5-1

Pollution Degree	Description
1	No pollution or only dry, non-conductive pollution occurs. The pollution has no influence.
2	Normally, only non-conductive pollution occurs. Occasionally, however, a temporary conductivity that is caused by condensation is to be expected, when the drive is out of operation.
3	Conductive pollution or dry non-conductive pollution occurs, which becomes conductive due to condensation, which is to be expected.
4	The pollution generates persistent conductivity that is caused, for example by conductive dust or rain or snow.

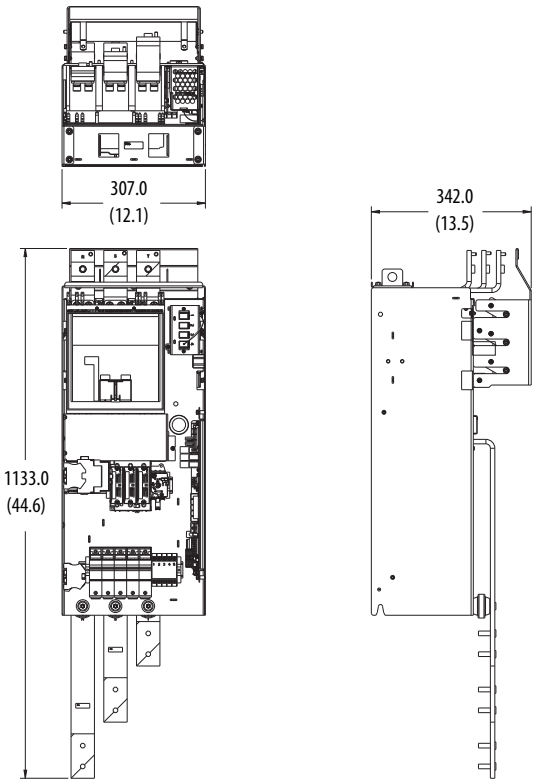
Product Enclosure Ratings

Frames	Enclosure Type	Pollution Degree
7…15	IP21, UL Type 1	(1)
	IP54, UL Type 12	(1)

(1) PowerFlex 755TM IP00 Open Type kits are designed to meet Pollution Degree 2 per UL61800-5-1.

Approximate Dimensions

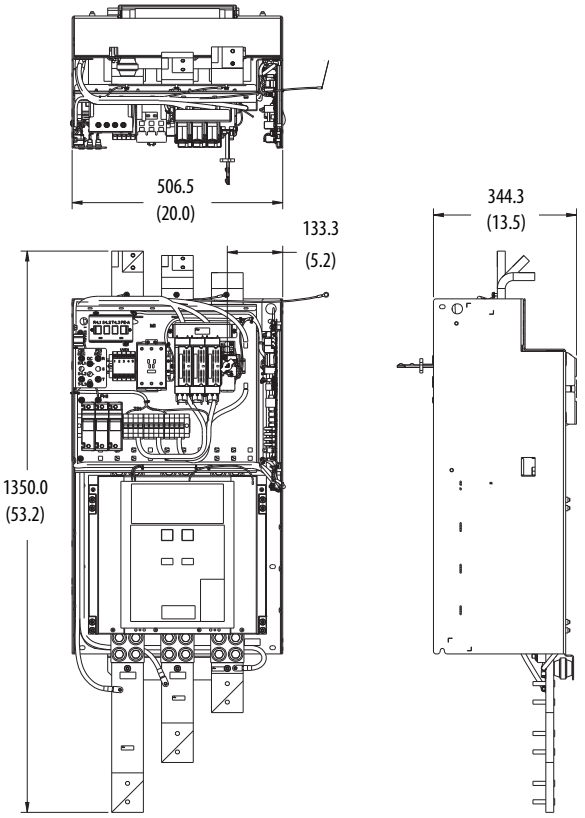
Frame 8 AC Precharge Module (Cat. No. 20-750-MACP-*xx*-F8M)



Dimensions are shown in millimeters and (inches).

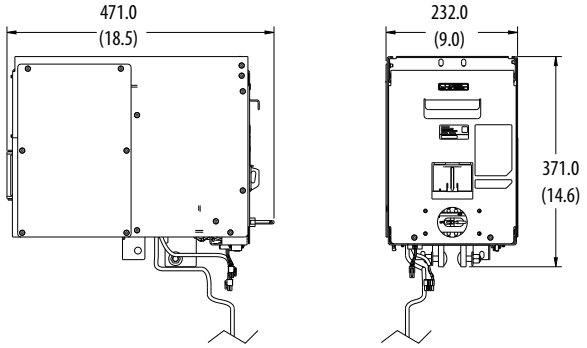
Frame 9 AC Precharge Module (Cat. No. 20-750-MACP-*xx*-F9M)

Dimensions are shown in millimeters and (inches).

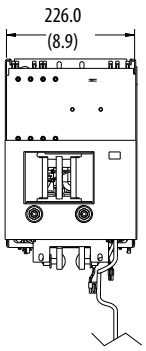


DC Precharge Module (Cat. No. 20-750-MDCP*n*-*xx*-F8M)

Front View

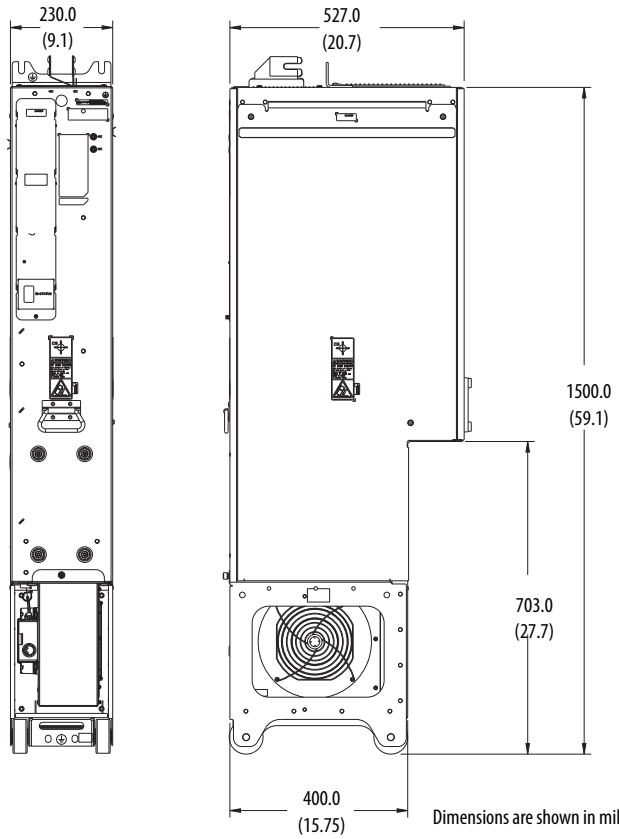


Rear View



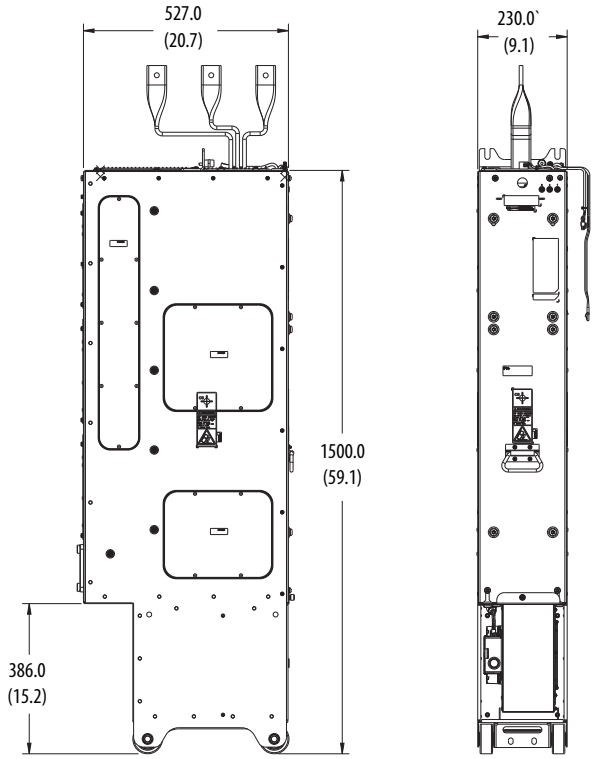
Dimensions are shown in millimeters and (inches).

Frame 8…15 Power Module (Cat. No. 20-750-MI1-nxxxnxxx, 20-750-MI2-nxxxnxxx, 20-750-MI3-nxxxnxxx)



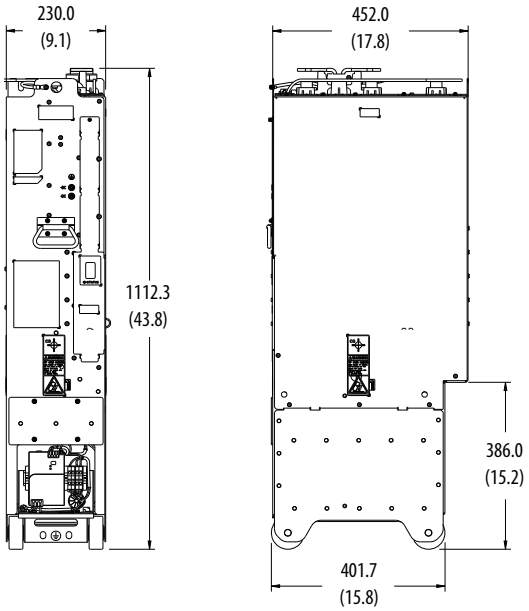
Dimensions are shown in millimeters and (inches).

Frame 8…15 LCL Filter Module (Cat. No. 20-750-ML1-xnnnxnnn)



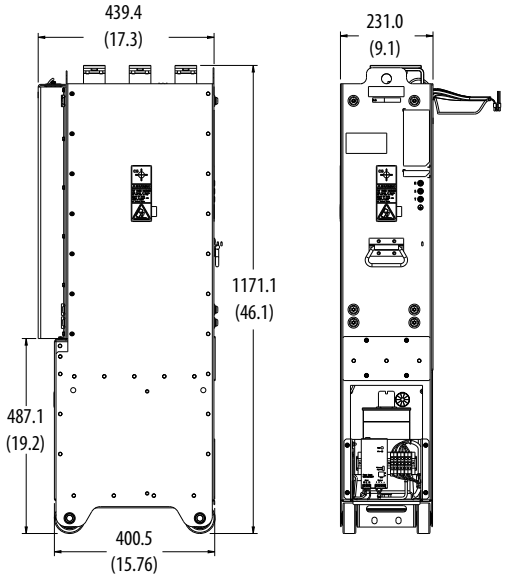
Dimensions are shown in millimeters and (inches).

Frame 7 Power Module (Cat. No. 20-750-MI4-nxxxnxxx)



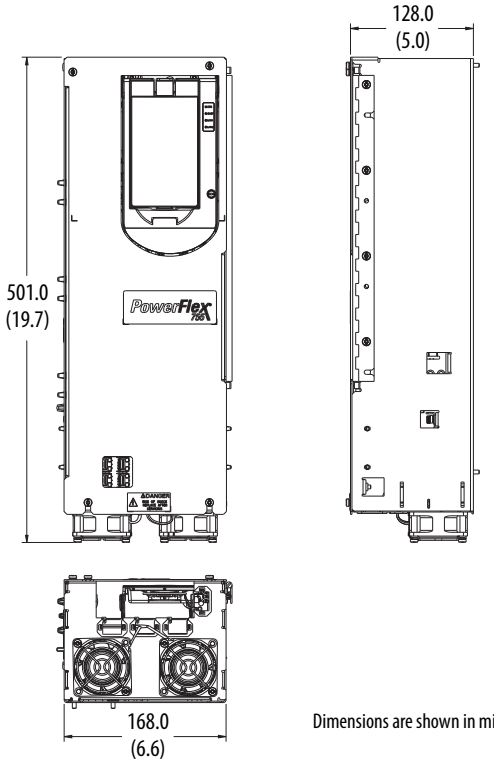
Dimensions are shown in millimeters and (inches).

Frame 7 LCL Filter Module (Cat. No. 20-750-ML4-xnnnxnnn)



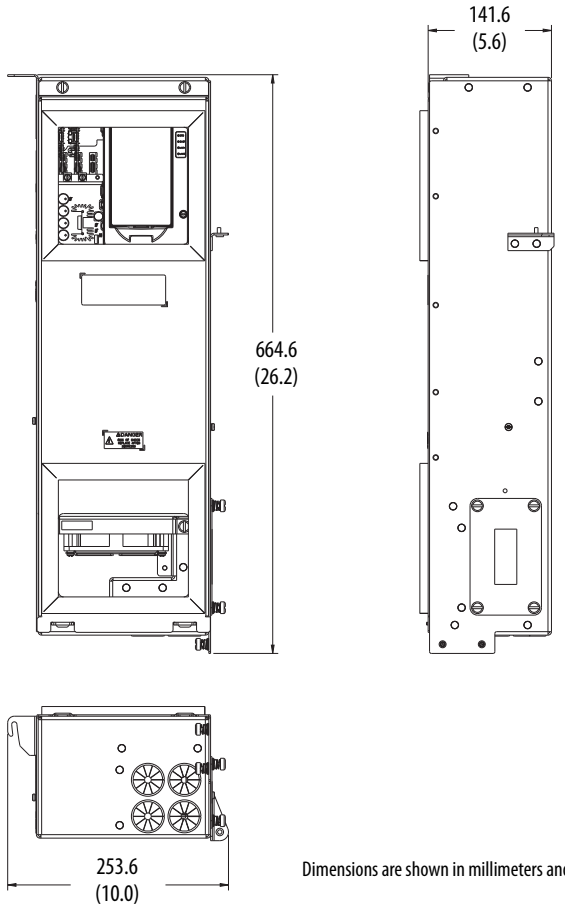
Dimensions are shown in millimeters and (inches).

Control Pod (Cat. No. 20-750-MCPOD*n*-F8M)



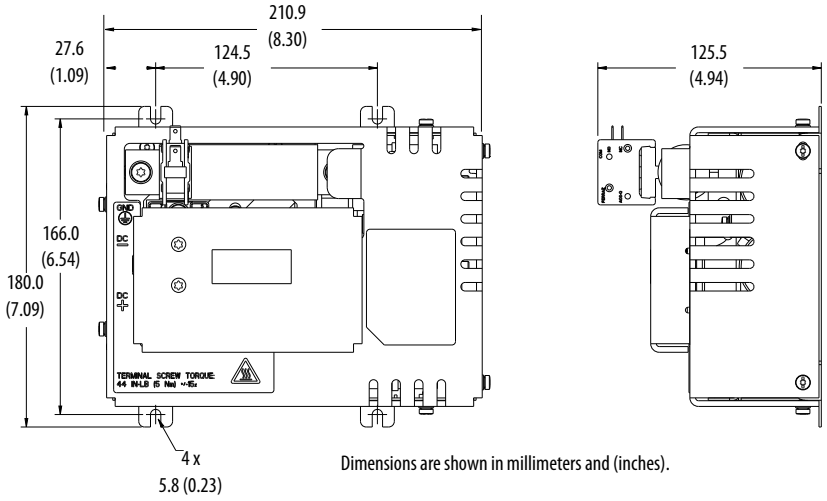
Dimensions are shown in millimeters and (inches).

Control Pod (Cat. No. 20-750-MCPODn-F7M)



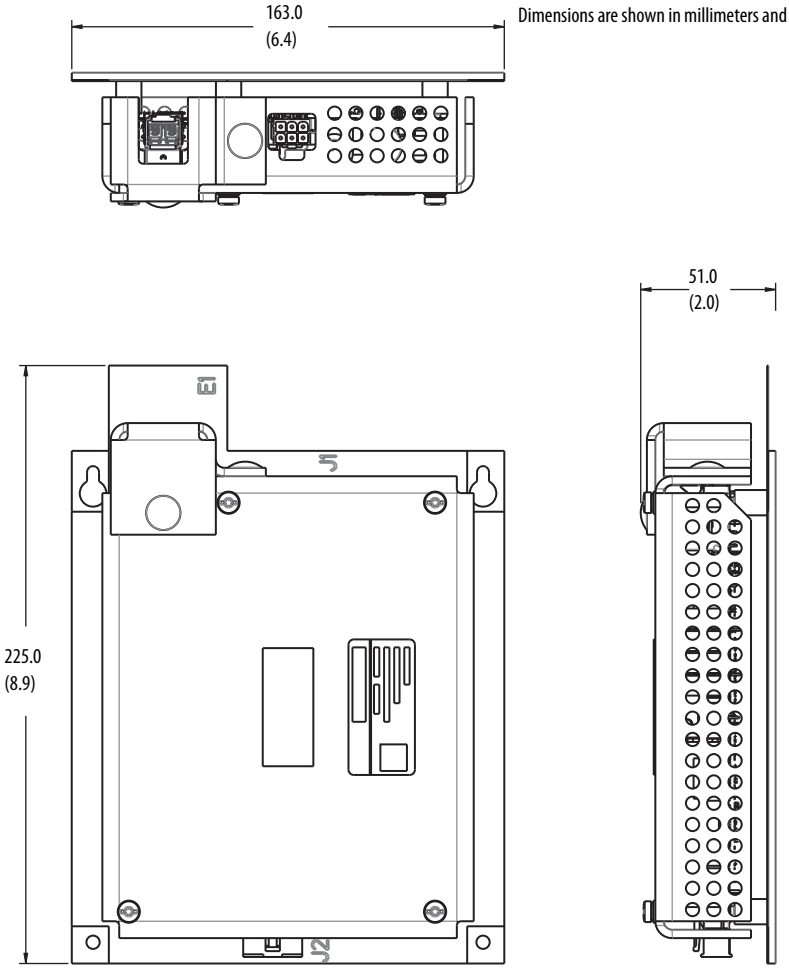
Dimensions are shown in millimeters and (inches).

DC Bus Conditioner Module (Cat. No. 20-750-MDCBUS-COND and 20-750-MDCBUS1-COND)



Dimensions are shown in millimeters and (inches).

Torque Accuracy Module (Cat. No. 20-750-MTAM1-*xx*)



Dimensions are shown in millimeters and (inches).

Additional Resources

These documents contain additional information concerning related products from Rockwell Automation.

Resource	Description
AC Drives Common Bus Application Techniques, publication 750-AT004	Provides basic information to properly wire and ground common bus PWM AC drives.
PowerFlex 750-Series Products with TotalFORCE Control Installation Instructions, publication 750-IN100	Provides the basic steps to install PowerFlex 755TL drives, PowerFlex 755TR drives, and PowerFlex 755TM bus supplies.
PowerFlex 755TM IP00 Open Type Kits Installation Instructions, publication 750-IN101	Provides instructions to install IP00 Open Type kits in user-supplied enclosures.
PowerFlex 755TM AC Precharge Modules Unpacking and Lifting Instructions, publication 750-IN102	These publications provide detailed information on: • Component weights • Precautions and recommendations • Hardware attachment points • Lifting the component out of the packaging
PowerFlex 755TM DC Precharge Modules Unpacking and Lifting Instructions, publication 750-IN103	
PowerFlex 755TM Power and Filter Modules Unpacking and Lifting Instructions, publication 750-IN104	
PowerFlex 750-Series Service Cart Instructions, publication 750-IN105	Provides detailed set-up and operating instructions for the module service cart and lift extension option.
PowerFlex 755TM Power and Filter Module Storage Hardware Instructions, publication 750-IN106	Provides detailed installation and usage instructions for this hardware accessory.
PowerFlex 755TM IP00 EMC C2 Filter Unpacking and Lifting Instructions, publication 750-IN109	Provides unpacking and lifting instructions for the IP00 / Open Type EMC C2 filter.
PowerFlex Drives with TotalFORCE Control Programming Manual (firmware revision 6.*xxx* and earlier), publication 750-PM100	Provides detailed information for firmware revisions 6.*xxx* and earlier on: • I/O, control, and feedback options • Parameters and programming • Faults, alarms, and troubleshooting
PowerFlex Drives with TotalFORCE Control Programming Manual (firmware revision 10.*xxx* and later), publication 750-PM101	Provides detailed information for firmware revisions 10.*xxx* and later on: • I/O, control, and feedback options • Parameters and programming • Faults, alarms, and troubleshooting
PowerFlex 750-Series Products with TotalFORCE Control Technical Data, publication 750-TD100	Provides detailed information on: • Drive and bus supply specifications • Option specifications • Fuse and circuit breaker ratings
PowerFlex 750-Series Products with TotalFORCE Control Hardware Service Manual, publication 750-TG100	Provides detailed information on: • Preventive maintenance • Component testing • Hardware replacement procedures
PowerFlex 750-Series Safe Speed Monitor Option Module Safety Reference Manual, publication 750-RM001	These publications provide detailed information on installation, set-up, and operation of the 750-Series safety option modules.
PowerFlex 750-Series Safe Torque Off Option Module User Manual, publication 750-UM002	
PowerFlex 750-Series ATEX Option Module User Manual, publication 750-UM003	
PowerFlex 755 Integrated Safety - Safe Torque Off Option Module User Manual, publication 750-UM004	
PowerFlex 755/755T Integrated Safety Functions Option Module User Manual, publication 750-UM005	
Wiring and Grounding Guidelines for Pulse Width Modulated (PWM) AC Drives, publication DRIVES-IN001	Provides basic information to properly wire and ground PWM AC drives.
Industry Installation Guidelines for Pulse Width Modulated (PWM) AC Drives, publication DRIVES-AT003	Provides basic information for different enclosure systems and environmental/location considerations (to help protect against environmental contaminants), and power and grounding considerations needed to properly install a Pulse Width Modulated (PWM) AC drive.
Industrial Components Preventive Maintenance, Enclosures, and Contact Ratings Specifications, publication IC-TD002	Provides a quick reference tool for Allen-Bradley industrial automation controls and assemblies.
Safety Guidelines for the Application, Installation, and Maintenance of Solid-state Control, publication SGI-1.1	Designed to harmonize with NEMA Standards Publication No. ICS 1.1-1987 and provides general guidelines for the application, installation, and maintenance of solid-state control in the form of individual devices or packaged assemblies incorporating solid-state components.
Industrial Automation Wiring and Grounding Guidelines, publication 1770-4.1	Provides general guidelines for installing a Rockwell Automation industrial system.
Product Certifications website, rok.auto/certifications.	Provides declarations of conformity, certificates, and other certification details.

You can view or download publications at rok.auto/literature.

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Literature Library	Find installation instructions, manuals, brochures, and technical data publications.	rok.auto/literature
Product Compatibility and Download Center (PCDC)	Download firmware, associated files (such as AOP, EDS, and DTM), and access product release notes.	rok.auto/pcdc

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