Technical Data

Original Instructions

Allen-Bradley

DySC Dynamic Voltage Sag Corrector Specifications

Bulletin Number 1608

Topic	Page
Summary of Changes	2
Overview	2
Bulletin 1608N MiniDySC Dynamic Sag Correctors	3
Bulletin 1608P Dynamic Sag Correctors	7
Bulletin 1608M MegaDySC Dynamic Sag Correctors	12
Additional Resources	15

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Summary of Changes

This publication contains new and updated information as indicated in the following table.

Topic	Page
Added Product Overview	2
Added 1608N Product Selection	3
Added Bulletin 1608N Accessories	6
Added 1608P Product Selection	7
Added Bulletin 1608P Accessories	11
Added Bulletin 1608M Product Selection	12
Added Additional Resources section	15

Overview

The Bulletin 1608 line of Dynamic Sag Correctors (DySC) are a unique and exclusive industrial power quality solution. Each DySC uses patented double conversion inverter technology that protects against the voltage sags and momentary outages that account for much manufacturing downtime.

- Protects against short-term sags and interruptions that can impact production
- Machine to facility-wide protection
- Single- and three-phase products
- Up to 5 seconds of ride through
- Battery-free solution - eliminates requirement to swap batteries every 3...5 years

Overview

Bulletin	**1608N**		**1608P**			**1608M**
Type	MiniDySC		ProDySC			MegaDySC
Amp Range	2…6	12…50	25…50	100/110	200	400…2400
Voltage Range	120…240V AC		208…480V AC			380…480V AC
Mounting	DIN Rail Mount	Panel Mount	Panel Mount	Floor Mount		
Phase / Wiring	Single Phase / L-L and L-N		Three Phase/ 3-Wire and 4-Wire			
Ride Through	up to 5 s					
Batteries	Not required					
Enclosure	NEMA Type 1					
Operating Temperature Range	0…40 °C (32…104 °F)					

Bulletin 1608N MiniDySC Dynamic Sag Correctors

1608N Product Selection

MiniDySC Single Phase Voltage Sag Corrector - DIN Rail Mount

Rated Current [A]	Line Voltage [V]	Wiring Category	Runtime	Cat. No.
2 A	120V	L-N	Standard	1608N-002A120V2S
		L-N	Extended	1608N-002A120V2E
	208V	L-L	Standard	1608N-002A208V1S
		L-L	Extended	1608N-002A208V1E
	240V	L-L	Standard	1608N-002A240V1S
		L-L	Extended	1608N-002A240V1E
		L-N	Standard	1608N-002A240V2S
		L-N	Extended	1608N-002A240V2E
3 A	208V	L-L	Standard	1608N-003A208V1S
		L-L	Extended	1608N-003A208V1E
	230V	L-N	Standard	1608N-003A230V2S
		L-N	Extended	1608N-003A230V2E
	240V	L-L	Standard	1608N-003A240V1S
		L-L	Extended	1608N-003A240V1E
		L-N	Standard	1608N-003A240V2S
		L-N	Extended	1608N-003A240V2E
6 A	120V	L-N	Standard	1608N-006A120V2S
		L-N	Extended	1608N-006A120V2E

MiniDySC Single Phase Voltage Sag Corrector - Panel Mount

Rated Current [A]	Line Voltage [V]	Wiring Category	Runtime	Cat. No.
12 A	120V	L-N	Standard	1608N-012A120V2S
		L-N	Standard	1608N-012A120V2S-R
	208V	L-L	Standard	1608N-012A208V1S
	220V	L-N	Standard	1608N-012A220V2S
	230V	L-N	Standard	1608N-012A230V2S
	240V	L-L	Standard	1608N-012A240V1S
		L-N	Standard	1608N-012A240V2S
25 A	120V	L-N	Standard	1608N-025A120V2S
		L-N	Extended	1608N-025A120V2E
	208V	L-L	Standard	1608N-025A208V1S
		L-L	Extended	1608N-025A208V1E
	220V	L-N	Standard	1608N-025A220V2S
		L-N	Extended	1608N-025A220V2E

MiniDySC Single Phase Voltage Sag Corrector - Panel Mount (Continued)

25 A	230V	L-N	Standard	1608N-025A230V2S
		L-N	Extended	1608N-025A230V2E
	240V	L-L	Standard	1608N-025A240V1S
		L-L	Extended	1608N-025A240V1E
		L-N	Standard	1608N-025A240V2S
		L-N	Extended	1608N-025A240V2E
50 A	120V	L-N	Standard	1608N-050A120V2S
		L-N	Extended	1608N-050A120V2E
	208V	L-L	Standard	1608N-050A208V1S
		L-L	Extended	1608N-050A208V1E
	220V	L-N	Standard	1608N-050A220V2S
		L-N	Extended	1608N-050A220V2E
	230V	L-N	Standard	1608N-050A230V2S
		L-N	Extended	1608N-050A230V2E
	240V	L-L	Standard	1608N-050A240V1S
		L-L	Extended	1608N-050A240V1E
		L-N	Standard	1608N-050A240V2S
		L-N	Extended	1608N-050A240V2E

1608N Specifications

Electrical Input/Output (Normal Mode—Static Switch)

	2…6 A	**12…50 A**
Connection Configuration	Series-connected with load. Under normal line condition, the static switch passes utility voltage directly to the load	
Standard Input Voltage DySC	1 PH: 120, 208, 220, 230, 240V	
Voltage Range	±10%	
Current Overload (Trip above these levels)	110% continuous, 150% @ 10 s, 200% @ 0.5 s, 300% @ 10 cycles, 400% @ 3 cycles, 1000% Instantaneous	—
Current Overload (Static Switch) for 12A, 50A models	—	200% @ 30 s, 400% @ 5 s, 600% @ 0.5 s
Current Overload (Static Switch) for 25A models	—	200% @ 30 s, 280% @ 5 s, 450% @ 0.5 s
Frequency	50/60 Hz Auto Sensing	
Frequency Range (tracking)	45…65 Hz	
Surge Protection Device (SPD)	Built-in 3-Layers consisting of MOVs and Capacitors	
Efficiency	250 VA >94%, 500 VA>97%, 750 VA >96%	> 98%
Phase (wiring)	1 phase (L-L & L-N)	
Detection Voltage	88.5% of rated voltage	
Response Time (typical)	0.7 ms detection, 1.2 ms inverter reaction (<2 ms)	

Electrical Output (Sag Correction Mode—Inverter)

Output Voltage	Matches pre-sag input voltage
Voltage Regulation	+/- 5% typical, +5% / -13% of nominal max
Output Current	Rated RMS
Crest Factor (at rated load)	1.45
Load	Power factor range -0.5…+0.9, DC component <2% of rated current
Voltage Waveform (typical)	Sine wave

Voltage Sag Correction Times

Single Event	
87% to 50% voltage remaining	5 s SR and ER
Sags to zero voltage remaining	50 ms or 200 ms (standard or extended run time DySCs). Based on nameplate ratings with a power factor of 0.7
Multiple Events	
Max Sag Correction Time	5 s cumulative usage
Sequential Sag Recovery	0 s (assuming cumulative run-time available)
Full Recovery Time	Max 5 min

Mechanical Specifications

	2…6 A	**12…50 A**
Enclosure Ratings	NEMA 1 (IP20)	
Cooling	Forced air (500VA, 750VA) or natural convection(250VA)	Forced Air
Access	Lower front for connections	Lower front for servicing and connections
Accessibility (Wiring)	Pluggable compression terminal block	DIN compression terminal block

Communications / User Interface

	2…6 A	**12…50 A**
Indicators	3 LEDs: Overload Trip, Normal, Alarm	Normal and Alarm LEDs
Connectivity	Form C contacts rated 120 VAC @0.5A or 30Vdc@1A	OUTPUT OK and ALARM contacts, Form A, 24V DC at 1 A

Environmental

	2…6 A	**12…50 A**
Ambient Temperature	0…+50 °C (+32…+122 °F)	0…+40 °C (+32…+104 °F)
Storage Temperature	-40°C…+75 °C (-40…+167 °F)	
Relative Humidity	0…95% non-condensing	
Altitude	Rated current available to 1000 m (3300 ft). De-rate output current 10% per 1000 m, from 1000…3000 m (9900 ft).	
Audible Noise	<50 dBA at 1 m	

1608N Approximate Dimensions

Approximate dimensions are shown in inches (mm) unless otherwise indicated. Dimensions are not to be used for manufacturing purposes.

2…6 Amp – DIN Rail Mount

Run Time	Rating (VA)	H x W x D in. [mm]	Shipping Weight lb. [kg]
Standard (SR)	250	8.3 x 3.4 x 6.3 [210.8 x 86.4 x 160]	4.8 [2.18]
	500	9.3 x 3.4 x 7.8 [236.2 x 86.4 x 198.1]	6.3 [2.86]
	750	9.3 x 3.4 x 7.8 [236.2 x 86.4 x 198.1]	6.7 [3.04]
Extended (ER)	250	8.3 x 5.8 x 6.3 [210.8 x 147.3 x 160]	8.0 [3.63]
	500	9.3 x 5.8 x 7.8 [236.2 x 147.3 x 198.1]	9.5 [4.31]
	750	9.3 x 5.8 x 7.8 [236.2 x 147.3 x 198.1]	10.2 [4.63]

12…50 Amp – Panel Mount

Run Time	Rating (A)	H x W x D in. [mm]	Shipping Weight lb. [kg]
Standard (SR)	12, 25	22 x 10 x 4 [550.8 x 254 x 101.6]	18.6 [8.44]
	50	21 x 19 x 4 [533.4 x 482.6 x 101.6]	34.5 [15.5]
Extended (ER)	25	21 x 19 x 4 [533.4 x 482.6 x 101.6]	32.5 [14.7]
	50	21 x 19 x 7 [533.4 x 482.6 x 177.8]	51.5 [23.4]

1608N Accessories

Bulletin 1608 Accessories

Type	Description	Cat. No.
Bulletin 1608N - Single Phase	Bypass, Single Phase, 25A, up tp 240V, L-L	1608N-BP025A240V1
	Bypass, Single Phase, 25A, up to 240V, L-N	1608N-BP025A240V2
	Bypass, Single Phase, 50A, up to 240V, L-L	1608N-BP050A240V1
	Bypass, Single Phase, 50A, up to 240V, L-N	1608N-BP050A240V2

Bulletin 1608P Dynamic Sag Correctors

1608P Product Selection

ProDySC Three Phase Voltage Sag Corrector

Rated Current [A]	Line Voltage [V]	Wiring Category	Runtime	Cat. No.
25 A	208V	3-Wire	Standard	1608P-025A208V3S
		3-Wire	Extended	1608P-025A208V3E
		4-Wire	Standard	1608P-025A208V4S
		4-Wire	Extended	1608P-025A208V4E
	380V	3-Wire	Standard	1608P-025A380V3S
		3-Wire	Extended	1608P-025A380V3E
		4-Wire	Standard	1608P-025A380V4S
		4-Wire	Extended	1608P-025A380V4E
	400V	3-Wire	Standard	1608P-025A400V3S
		3-Wire	Extended	1608P-025A400V3E
		4-Wire	Standard	1608P-025A400V4S
		4-Wire	Extended	1608P-025A400V4E
	415V	3-Wire	Standard	1608P-025A415V3S
		3-Wire	Extended	1608P-025A415V3E
		4-Wire	Standard	1608P-025A415V4S
		4-Wire	Extended	1608P-025A415V4E
	480V	3-Wire	Standard	1608P-025A480V3S
		3-Wire	Extended	1608P-025A480V3E
		4-Wire	Standard	1608P-025A480V4S
		4-Wire	Extended	1608P-025A480V4E
50 A	208V	3-Wire	Standard	1608P-050A208V3S
		3-Wire	Extended	1608P-050A208V3E
		4-Wire	Standard	1608P-050A208V4S
		4-Wire	Extended	1608P-050A208V4E
	380V	3-Wire	Standard	1608P-050A380V3S
		3-Wire	Extended	1608P-050A380V3E
		4-Wire	Standard	1608P-050A380V4S
		4-Wire	Extended	1608P-050A380V4E
	400V	3-Wire	Standard	1608P-050A400V3S
		3-Wire	Extended	1608P-050A400V3E
		4-Wire	Standard	1608P-050A400V4S
		4-Wire	Extended	1608P-050A400V4E
	415V	3-Wire	Standard	1608P-050A415V3S
		3-Wire	Extended	1608P-050A415V3E
		4-Wire	Standard	1608P-050A415V4S
		4-Wire	Extended	1608P-050A415V4E

ProDySC Three Phase Voltage Sag Corrector (Continued)

Rated Current [A]	Line Voltage [V]	Wiring Category	Runtime	Cat. No.
50 A (cont'd)	480V	3-Wire	Standard	1608P-050A480V3S
		3-Wire	Extended	1608P-050A480V3E
		4-Wire	Standard	1608P-050A480V4S
		4-Wire	Extended	1608P-050A480V4E
100 A	208V	3-Wire	Standard	1608P-100A208V3S
		3-Wire	Extended	1608P-100A208V3E
		4-Wire	Standard	1608P-100A208V4S
		4-Wire	Extended	1608P-100A208V4E
	380V	3-Wire	Standard	1608P-100A380V3S
		3-Wire	Extended	1608P-100A380V3E
		4-Wire	Standard	1608P-100A380V4S
		4-Wire	Extended	1608P-100A380V4E
	400V	3-Wire	Standard	1608P-100A400V3S
		3-Wire	Extended	1608P-100A400V3E
		4-Wire	Standard	1608P-100A400V4S
		4-Wire	Extended	1608P-100A400V4E
	415V	3-Wire	Standard	1608P-100A415V3S
		3-Wire	Extended	1608P-100A415V3E
		4-Wire	Standard	1608P-100A415V4S
		4-Wire	Extended	1608P-100A415V4E
	480V	3-Wire	Standard	1608P-100A480V3S
		3-Wire	Extended	1608P-100A480V3E
		4-Wire	Standard	1608P-100A480V4S
		4-Wire	Extended	1608P-100A480V4E
110 A	480V	3-Wire	Standard	1608P-110A480V3S
		3-Wire	Extended	1608P-110A480V3E
		3-Wire	Extended	1608P-110A480V3E-HC
		4-Wire	Standard	1608P-110A480V4S
		4-Wire	Extended	1608P-110A480V4E
		4-Wire	Extended	1608P-110A480V4E-HC

ProDySC Three Phase Voltage Sag Corrector (Continued)

Rated Current [A]	Line Voltage [V]	Wiring Category	Runtime	Cat. No.
200 A	208V	3-Wire	Standard	1608P-200A208V3S
		4-Wire	Standard	1608P-200A208V4S
	380V	3-Wire	Standard	1608P-200A380V3S
		4-Wire	Standard	1608P-200A380V4S
	400V	3-Wire	Standard	1608P-200A400V3S
		4-Wire	Standard	1608P-200A400V4S
	415V	3-Wire	Standard	1608P-200A415V3S
		4-Wire	Standard	1608P-200A415V4S
	480V	3-Wire	Standard	1608P-200A480V3S
		4-Wire	Standard	1608P-200A480V4S
		3-Wire	Standard	1608P-200A480V3S-HC (1)
		4-Wire	Standard	1608P-200A480V4S-HC (1)

(1) 1608P-*xx*. . .-HC 200 A devices provide 78 ms ride-through time at zero volts, and includes an integrated three breaker bypass.

1608P Specifications

Electrical Input/Output (Normal Mode—Static Switch)

	25/50 A	110/110A	200 A	200 A HC
Connection Configuration	Series-connected with load. Under normal line condition, the static switch passes utility voltage directly to the load			
Standard Input Voltage DySC	3 PH: 208, 380, 400, 415, 480V			480V
Voltage Range	±10%			
Current Overload	150% @ 30 s, 400% @ 5 s, 600% @ 0.5 s	200% @ 30 s, 400% @ 5 s, 600% @ 0.5 s	150% @ 30 s 400% @ 5 s 600% @ 0.5 s	
Frequency	50/60 Hz Auto Sensing			
Frequency Range (tracking)	45…65 Hz		48…62 Hz	
Surge Protection Device (SPD)	Built-in 3-Layers consisting of MOVs and Capacitors			
Efficiency	> 99% @ 480V			
Phase (wiring)	3 PH (3-Wire and 4-Wire)			
Detection Voltage	88.5% of rated voltage			
Response Time (typical)	0.7 ms detection, 1.2 ms inverter reaction (<2 ms)			

Electrical Output (Sag Correction Mode—Inverter)

	25/50 A	110/110A	200 A	200 A HC
Output Voltage	Pre-sag rms voltage			
Voltage Regulation	+/- 5% typical, +5% / -13% of nominal max			
Output Current	Rated RMS, Not rated for DC loads: max allowable 2% DC loading.			
Crest Factor (at rated load)	1.45			
Load	Power factor range -0.5…+0.9, DC component <2% of rated current			
Voltage Waveform (typical)	Sine wave			

Voltage Sag Correction Times

	25/50 A	110/110A	200 A	200 A HC
Single Event				
87…50% voltage remaining	5 s			
All three phases to zero voltage remaining	50 ms or 200 ms (SR or ER). Based on load at nameplate ratings with a power factor of 0.7	33...50 ms or 133...200 ms (SR or ER). Based on load at nameplate ratings with a power factor of 0.7	50 ms based on nameplate ratings with a power factor of 0.7	78 ms based on nameplate ratings with a power factor of 0.7
Multiple Events				
Max Sag Correction Time	5 s cumulative usage			
Sequential Sag Recovery	0 s (assuming cumulative run-time available)			
Full Recovery Time	Max 5 min			

Mechanical Specifications

	25/50 A	110/110A	200 A	200 A HC
Enclosure Ratings	NEMA 1 (IP20)			
Cooling	Filtered forced air			
Access	Front for servicing and connections			
Accessibility (Wiring)	Screw terminal blocks	Mechanical lugs		

Communications / User Interface

	25/50 A	110/110A	200 A	200 A HC
Indicators	LCD Screen			
Connectivity	SAG EVENT, OUTPUT OK, and ALARM contacts, Form A, 24V DC at 1 A			

Environmental

	25/50 A	110/110A	200 A	200 A HC
Ambient Temperature	0…+40 °C (+32…+104 °F)			
Storage Temperature	-40°C…+75°C (-40…+167 °F)			
Relative Humidity	0…95% non-condensing			
Altitude	Rated current available to 1000 m (3300 ft). De-rate output current 10% per 1000 m, from 1000…3000 m (9900 ft).			
Audible Noise	< 55 dBA at 1 m		<67 dBA at 1 m	

1608P Approximate Dimensions

Approximate dimensions are shown in inches (mm) unless otherwise indicated. Dimensions are not to be used for manufacturing purposes.

25…50 Amp

Run Time	Rating (A)	H x W x D in. [mm]	Shipping Weight lb. [kg]
Standard (SR)	25	32 x 26 x 14 [813 x 660 x 356]	277 [126]
	50	38 x 38 x 14 [965 x 965 x 356]	330 [150]
Extended (ER)	25	32 x 26 x 14 [813 x 660 x 356]	307 [140]
	50	38 x 38 x 14 [965 x 965 x 356]	398 [181]

100/110 Amp

Run Time	Wiring Type	H x W x D in. [mm]	Shipping Weight lb. [kg]
Standard (SR)	3-Wire	57.1 x 29 x 24.7 [1449 x 737 x 627]	787 [357]
	4-Wire		772 [351]
Extended (ER)	3-Wire	77.1 x 29 x 24.7[1957 x 737 x 627]	937 [426]
	4-Wire		922 [419]

200 Amp

Wiring Type	H x W x D in. [mm]	Shipping Weight lb. [kg]
3-Wire	78.6 x 42.4 x 34.6 [1983 x 1076 x 878]	1,470 [667]
4-Wire		1,408 [639]

1608P Accessories

Bulletin 1608 Accessories

Type	Description	Cat. No.
Bulletin 1608P - Three Phase	Bypass, Three Phase, 25A, up to 480V	1608P-BP025A480V3
	Bypass, Three Phase, 50A, up to 480V	1608P-BP050A480V3
	Bypass, Three Phase, 110A, up to 480V	1608P-BP110A480V3

Bulletin 1608M MegaDySC Dynamic Sag Correctors

1608M Product Selection

Rated Current [A]	Line Voltage [V]	Wiring Category	Runtime	Cat. No.
400A	380V	3-Wire	Standard	1608M-400A380V3S
			Extended	1608M-400A380V3E
		4-Wire	Standard	1608M-400A380V4S
			Extended	1608M-400A380V4E
	400V	3-Wire	Standard	1608M-400A400V3S
			Extended	1608M-400A400V3E
		4-Wire	Standard	1608M-400A400V4S
			Extended	1608M-400A400V4E
	415V	3-Wire	Standard	1608M-400A415V3S
			Extended	1608M-400A415V3E
		4-Wire	Standard	1608M-400A415V4S
			Extended	1608M-400A415V4E
	460V	3-Wire	Standard	1608M-400A460V3S
			Extended	1608M-400A460V3E
		4-Wire	Standard	1608M-400A460V4S
			Extended	1608M-400A460V4E
	480V	3-Wire	Standard	1608M-400A480V3S
			Extended	1608M-400A480V3E
		4-Wire	Standard	1608M-400A480V4S
			Extended	1608M-400A480V4E

Contact your local Rockwell Automation sales office or Allen-Bradley distributor for MegaDySC systems over 400 A.

To ensure successful integration, the MegaDySC unit requires commissioning from factory authorized personnel.

Bulletin 1608M Specifications

Electrical Input/Output (Normal Mode—Static Switch)

Connection Configuration	Series-connected with load. Under normal line condition, the static switch passes utility voltage directly to the load
Standard Input Voltage DySC	3 PH: 380, 400, 415, 480V
Voltage Range	±10%
Static Bypass Current	100% rated rms continuous, 150…400% @ 5 s, 400…600% @ 0.5 s, 600% @ 0.1 s
Frequency	50/60 Hz Auto Sensing
Frequency Range (tracking)	45…65 Hz
Surge Protection Device (SPD)	Output SPD, 80kA/mode
Efficiency	>99%
Phase (wiring)	3 phases + Ground (3-wire models) or 3 phases + Neutral + Ground (4-wire models)
Detection Voltage	88.5% of rated voltage
Response Time (typical)	0.7 ms detection, 1.2 ms inverter reaction (2 ms)

Electrical Output (Sag Correction Mode—Inverter)

Output Voltage	Pre-sag rms voltage
Voltage Regulation	+/- 5% typical, +5% / -13% of nominal max
Output Current	Rated RMS Not rated for DC loads; max. allowable 2% DC loading
Crest Factor (at rated load)	1.45
Load	Power factor range -0.5…+0.9, DC component <2% of rated current
Voltage Waveform (typical)	Sine wave

Voltage Sag Correction Times

Single Event	
87…50% voltage remaining	5 s SR and ER
All three phases to zero voltage remaining	50 ms or 200 ms (standard or extended run time DySCs). Based on nameplate ratings with a power factor of 0.7
Multiple Events	
Max Sag Correction Time	5 s cumulative usage
Sequential Sag Recovery	0 s (assuming cumulative run-time available)
Full Recovery Time	Max 5 min

Mechanical Specifications

Enclosure Ratings	NEMA 1 (IP20)
Cooling	Filtered forced air
Cable Entry	Top or bottom of switchboard
Access	Front for servicing and connections
Accessibility (Wiring)	Mechanical Lugs

Communications / User Interface

Indicators	LCD screen
Connectivity	SAG EVENT, OUTPUT OK, and ALARM contacts, Form A, 24V DC at 1 A

Environmental

Ambient Temperature	0…+40°C (32…+104 °F)
Storage Temperature	-40°C…+75°C (-40…+167 °F)
Relative Humidity	0…95% non-condensing
Altitude	Rated current available to 1000 m (3300 ft). De-rate output current 10% per 1000 m, from 1000…3000 m (9900 ft).
Audible Noise	<70dBA at 1 m

1608M Approximate Dimensions

Approximate dimensions are shown in inches (mm) unless otherwise indicated. Dimensions are not to be used for manufacturing purposes.

Rated Current [A]	Run Time	Wiring Type	H x W x D in. [mm]	Shipping Weight lb. [kg]
400	Standard	3-Wire	94 X 69.3 X 33.1 [2388 X 1759 X 840]	2867 lb [1300kg]
		4-Wire		2831 lb [1284 kg]
	Extended	3-Wire	94 X 87.3 X 33.1 [2388 X 2216 X 840]	3731 lb [1692 kg]
		4-Wire		3695 lb [1676 kg]
800	Standard	3-Wire	103 X 128.5 X 51.1 [2614 X 3264 X 1297]	7800 lb [3538kg]
		4-Wire		7800 lb [3538kg]
	Extended	3-Wire	103 X 164.5 X 51.1 [2614 X 4178 X 1297]	8632 lb [3915 kg]
		4-Wire		8632 lb [3915 kg]
1200	Standard	3-Wire	103 X 165.5 X 51.1 [2614 X 4204 X 1297]	10,350 lb [1300kg]
		4-Wire		10,350 lb [1300kg]
	Extended	3-Wire	103 X 219.5 X 51.1 [2614 X 5575 X 1297]	11,598 lb [1692 kg]
		4-Wire		11,598 lb [1692 kg]
1600	Standard	3-Wire	103 X 202.5 X 51.1 [2614 X 5144 X 1297]	13,300 lb [6033kg]
		4-Wire		13,300 lb [6033kg]
	Extended	3-Wire	103 X 274.5 X 51.1 [2614 X 6972 X 1297]	14,964 lb [6788 kg]
		4-Wire		14,964 lb [6788 kg]
2000	Standard	3-Wire	103 X 239.5 X 51.1 [2614 X 6083 X 1297]	16,250 lb [7371kg]
		4-Wire		16,250 lb [7371kg]
	Extended	3-Wire	103 X 329.6 X 51.1 [2614 X 8372 X 1297]	18,330 lb [8314 kg]
		4-Wire		18,330 lb [8314 kg]
2400	Standard	3-Wire	103 X 276.5 X 51.1 [2614 X 7023 X 1297]	18,800 lb [8528kg]
		4-Wire		18,800 lb [8528kg]
	Extended	3-Wire	103 X 384.6 X 51.1 [2614 X 9769 X 1297]	21,296 lb [9660 kg]
		4-Wire		21,296 lb [9660 kg]

Additional Resources

These documents contain additional information concerning related products from Rockwell Automation.

Resource	Description
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 http://www.rockwellautomation.com/global/literature-library/overview.page.

Rockwell Automation Support

Use the following resources to access support information.

Technical Support Center	Knowledgebase Articles, How-to Videos, FAQs, Chat, User Forums, and Product Notification Updates.	www.rockwellautomation.com/knowledgebase
Local Technical Support Phone Numbers	Locate the phone number for your country.	www.rockwellautomation.com/global/support/get-support-now.page
Direct Dial Codes	Find the Direct Dial Code for your product. Use the code to route your call directly to a technical support engineer.	www.rockwellautomation.com/global/support/direct-dial.page
Literature Library	Installation Instructions, Manuals, Brochures, and Technical Data.	www.rockwellautomation.com/literature
Product Compatibility and Download Center (PCDC)	Get help determining how products interact, check features and capabilities, and find associated firmware.	www.rockwellautomation.com/global/support/pcdc.page

Documentation Feedback

Your comments will help us serve your documentation needs better. If you have any suggestions on how to improve this document, complete the How Are We Doing? form at http://literature.rockwellautomation.com/idc/groups/literature/documents/du/ra-du002_-en-e.pdf.

Rockwell Automation maintains current product environmental information on its website at http://www.rockwellautomation.com/rockwellautomation/about-us/sustainability-ethics/product-environmental-compliance.page.

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