NQ, NF, I-Line, and QMB Panelboard Products

Square D Panelboard Family

Developed with extensive input from electrical contractors, Square D™ panelboards are built to last, easy to install, and are designed for optimum space and labor savings. Supported by the largest distribution, sales, and service organization in the industry, Square D panelboards are readily available to meet the needs of contractors, consultants, and end-users.

Only Square D has a line of panelboards that does not require extra breaker mounting hardware.

Application

	Commercial	Industrial	OEM	Utility	Residential
NQ	• Schools/Universities • Public Buildings • Restaurants • Strip Malls • Hotels/Motels • Nursing Homes	• Hospitals • Factories • Chemical Plants • Water Treatment Plants	• Computer Power • HVAC • Panelboard Assemblers	• Equipment Rooms • Municipal Water/ • Wastewater Facilities	• High-Rise Apartments
NF	• High Bay Lighting • Shopping Malls • Office Buildings	• Automotive • Refineries • Textile Mills • Wastewater Treatment Plants	• Integrated Generator • IEnclosures • Panelboard Assemblers	• Equipment Rooms • Power Generation Facilities • Municipal Water/Wastewater Facilities	• High-Rise Apartments
I-Line Combo Panelboard	• Office Builders • Strip Malls • Retail Stores • Grocery Stores • Nursing Homes	• Automotive Plants • Paper Mills • Hospitals • Factories	• Panelboard Assemblers • HVAC	• Equipment Rooms • Power Generation Facilities	• High-Rise Apartments
I-Line	• Office Buildings • Strip Malls • Retail Stores • Grocery Stores • Nursing Homes	• Automotive Plants • Paper Mills • Hospitals • Factories	• Panelboard Assemblers • HVAC	• Equipment Rooms • Power Generation Facilities	• High-Rise Apartments
QMB	• Strip Malls • Retail Stores • Grocery Stores	• Automotive Plants • Manufacturing Facilities • Refineries • Textiles	• Food Service Industry • Panelboard Assemblers	• Equipment Rooms • Power Generation Facilities	• High-Rise Apartments

Product table

Features	NQ	NF	Column Width NQ	Column Width NF	I-Line Combo Panelboard	I-Line	QMB
AC Voltage (max)	240	600Y/347	240	600Y/347	600Y/347	600	600
DC Voltage (max)	48	—	—	—	48	250	250
Main Device Amps (max)	600	600	225	225	1,200	1,200	800
Main Lugs Amps (max)	600	800	225	225	1,200	1,200	1,600
SCCR kAIC (max) (*Series Rating)	*200	*200	*200	*200	*200	200	200
Plug-On/Bolt-On Branch	Both	Bolt	Both	Bolt	Both	Plug	Plug
Top or Bottom Feed	Yes	Yes	Yes	Yes	Yes	Yes	Yes
UL and cUL Service Equipment	Yes	Yes	Yes	Yes	US Only	Yes	Yes
Enclosure Types	1, 3R, 4/4X, 5, 12	1, 3R, 4/4X 5, 12	1	1	1, 3R, 4/4X, 5, 12	1, 3R, 4/4X, 5, 12	1, 3R, 4/4X, 5, 12

NQ Lighting Panelboards

240 Vac Maximum

The NQ Lighting panelboards are designed to meet the evolving needs of customers with electrical lighting and distribution applications.

The innovative designs increase the availablity and adaptability of these panelboards by offering complete ready-to-install kits.

Available Interiors

> 3P4W and 1P3W available
> Maximum 600 A Main Breaker or Main Lug available
> 18, 30, 42, 54, 72, and 84 circuits
> Main breaker or main lugs
> 10,000, 22,000, and 65,000 fully rated branches at 208Y/120 Vac
> Series ratings to 200,000 A at 208Y/120 Vac

Available Enclosures

Types

> Type 1 (Indoor)
> Type 2 (Driphood)
> Type 3R (Outdoor, Rain, and Sleet protection)
> Type 4/4X (Stainless, corrosion protection)
> Type 5 (Settling dust and dripping liquids protection)
> Type 12 (Circulating dust and dripping liquids protection)

Trims

> Surface and flush non-vented Mono-Flat™ trims for 250 A and below
> Surface and flush screwed-to-box vented for 400 A and above
> Hinged trim available; meets door-in-door specifications
> Separate trim not required for Type 3R, 4, 4X, 5, and 12 enclosures

*

NQ panelboards meet 240 Vac applications and accept both the QO plug-on and QOB bolt-on circuit breakers.

Available Options

> Copper bussing, copper lugs, copper neutrals
> Copper and aluminum, mechanical and crimp lugs
> Rail and dead front extension kits providing space only for future addition of ready-to-install kits (extensions of 6", 12", and 18" available)
> Increased side gutters 3", 6", and 12"
> Captive mounting hardware
> Visi Trip breakers

> Split bus
> Contactors
> Equipment space
> Locks (most common brands)
> Sub-feed lugs*
> Sub-feed breakers*
> Feed-through lugs*
> 200% neutrals*
> Surge Protection available up to 240kA*

* Field-installable

NF Lighting Panelboards

600Y/347 Vac Maximum

The NF panelboard offers superior performance and application flexibility for commercial and industrial electrical systems up to 600Y/347 Vac. This versatile lighting and power distribution panelboard features a wide selection of circuit breakers, accessories, and ready-to-install kits, as well as 200% rated neutrals for non-linear loads.

NF panelboards offer application flexibility for commercial and industrial electrical systems up to 600Y/347 Vac.

Available Interiors

> 3P4W and 1P3W available
> 18, 30, 42, 54, 66, and 84 circuits
> Main breaker (600 A) or main lug (800 A)
> Fully rated branches:
> — 480Y/277 Vac: 18,000 A, 35,000 A, and 65,000 A
> — 600Y/347 Vac: 14,000 A, 18,000 A, and 25,000 A

Series Ratings

> 480Y/277 Vac: 200,000 A maximum
> 600Y/347 Vac: 200,000 A maximum

Available Enclosures

Types

> Type 1 (Indoor)
> Type 2 (Driphood)
> Type 3R (Outdoor, rain and sleet protection)
> Type 4/4X (Stainless, corrosion protection)
> Type 5 (Settling dust and dripping liquids protection)
> Type 12 (Circulating dust and dripping liquids protection)

Trims

> Surface and flush non-vented Mono-Flat trims for 250 A and below
> Surface and flush screwed-to-box vented for 400 A and above
> Hinged trim available; meets door-in-door specs
> Separate trim not required for Type 3R, 4, 4X, 5, and 12 enclosures

Available Options

> Copper bussing, copper lugs, copper neutrals
> Copper and aluminum, mechanical and crimp lugs
> Rail and dead front extension kits provide space only for future addition of ready-to-install kits (extensions of 6", 12", and 18" available)
> Increased side gutters 3", 6", and 12"
> Split bus
> Contactors
> Captive mounting hardware
> Lighting control with Powerlink
> Equipment space
> Locks (most common brands)
> In-line surge suppression
> Sub-feed lugs*
> Sub-feed breakers*
> Feed-through lugs*
> 200% neutrals*

* Field-installable

I-Line Combo Panelboards

600Y/347 Vac Maximum

The new Square D I-Line™ Combo Panelboard will change the way you install panelboards. Its simple, flexible, and innovative design uses a smaller footprint and delivers significant savings on installation time, labor expenses, and materials costs.

A wide variety of customizable assemblies are available for field or factory installation.

Available Interiors:

> 3P4W, 3P3W, 1P3W, and 1P2W available
> 1,200 A main circuit breakers or 800 A main lugs
> Single or Duplex configurations available
> — 18" or 22.5" of I-Line mounting space; up to 54 available lighting circuits
> — 22.5" or 31.5" of I-Line mounting space; up to 84 lighting circuits
> — 22.5" or 31.5" of I-Line mounting space; up to 54 lighting circuits and optional mounting space for customizable assemblies
> Fully rated and series rated systems available

Available Enclosures

Types

> Type 1 (Indoor)
> Type 2 (Driphood)
> Type 3R (Outdoor, Rain, and Sleet protection)
> Type 4/4X (Stainless, Corrosion protection)
> Type 5 (Settling dust and dripping liquids protection)
> Type 12 (Circulating dust and dripping liquids protection)

Trims

> Standard trims available (door not included)
> Four-piece Surface or Flush construction
> Optional four-piece trim with door

Accessories

> Plated copper or aluminum bus
> 6", 9", or 12" box extensions
> 14" side car enclosures
> Optional 200% rated neutrals through 1,200 A
> Communication capabilities available using PowerPact breakers with Micrologic Trip Units

Available Options

The I-Line Combo Duplex Panelboard, with optional mounting space, provides the capability for future site growth.

> No breaker mounting hardware required

Ready-to-Install Kits

> Additional 42-circuit section assembly

Factory Assembled Options

> Powerlink™ lighting section in 42 or 54 circuit configurations

I-Line Power Panelboards

600 Vac Maximum

The I-Line power distribution panelboard is the most versatile on the market and features the Schneider Electric™ unique breaker engagement system. It is used to feed NQ and NF lighting and appliance panelboards and is capable of feeding large motor loads. Wherever electricity is distributed or controlled, you'll find I-Line Power Panelboards.

The industry exclusive I-Line stacked bus structure was designed with the installer in mind ensuring simple and quick breaker installation.

Available Interiors:

> 3P4W, 3P3W, 1P3W, and 1P2W available
> 1,200 A main circuit breaker or main lugs
> Up to 108 inches of I-Line circuit breaker mounting space
> Fully rated and series rated systems available

Available Enclosures

Types

> Type 1 (Indoor)
> Type 2 (Driphood)
> Type 3R (Outdoor, Rain, and Sleet protection)
> Type 4/4X (Stainless, Corrosion protection)
> Type 5 (Settling dust and dripping liquids protection)
> Type 12 (Circulating dust and dripping liquids protection)

Trims

> Standard trims available (door not included)
> Four-piece Surface or Flush construction
> Optional four-piece trim with door

Available Options

A wide variety of accessories are available for field or factory installation of I-Line power panelboards.

> Plated copper or aluminum bus
> Sub-feed or through-feed lugs through 1,200 A
> 6", 9" or 12" box extensions
> Split bus bar
> Optional 200% rated neutrals through 1,200 A
> Optional customer metering with PowerLogic™ power meters or circuit monitors
> 100,000 A to 240,000 A plug-on SPD modules
> Six circuit QO 240 V plug-in distribution module
> Ground fault protection available on main or branch circuit breakers
> Innovative plug-on breaker design
> No breaker mounting hardware required

QMB Power Panelboards

600 Vac Maximum

When specifications or electrical codes call for a fusible panelboard, the QMB family offers unbeatable performance and time-saving installation features. The QMB power distribution panelboard feeds motors, transformers, and lighting systems.

The reliability of the QMB power panelboard makes it the product of choice for large commercial and industrial applications.

Available Interiors:

> 600 Vac, 250 Vdc maximum
> Maximum main lugs 1,200 A
> Maximum main switch 800 A
> Fusible switches are rated for 200 K RMS symmetrical amperes with appropriate Class J, L, R, or T fuses installed
> Branch devices include 30 A – 800 A fusible switches, 15 A – 400 A circuit breakers

Available Enclosures

Types

> Type 1 (Indoor)
> Type 3R (Outdoor, Rain, and Sleet protection)

Trims

> Four-piece, surface

Fuse Selection Guide for Main and Branch Switches					
UL Class	Voltage	Ampere Ratings	AIC	Fuse Type	Loads
H	600 V	1 – 600 A	10,000 A	One-time	Miscellaneous loads
J	600 V	1 – 600 A	200,000 A	Time-delay	Motors, welders, etc.
J	600 V	1 – 600 A	200,000 A	Fast-acting	Non-motor loads
L	600 V	601 – 800 A	200,000 A	Time-delay	All type loads
L	600 V	601 – 800 A	200,000 A	Time-delay	Non-motor loads
RK1	600 V	1 – 400 A	200,000 A	Dual element time-delay	All type loads
RK1	600 V	401 – 600 A	100,000 A	Dual element time-delay	All type loads
RK5	600 V	1 – 400 A	200,000 A	Dual element time-delay	Motors, welders, transformers
RK5	600 V	401 – 600 A	100,000 A	Dual element time-delay	Motors, welders, transformers
T	600 V	1 – 800 A	200,000 A	Fast-acting	Non-motor loads

The Square D brand is an integral part of the Schneider Electric portfolio.

As the global specialist in energy management, we deliver proven reliability, expertise, and comprehensive solutions.

Ask your authorized distributor for more information,
visit **www.schneider-electric.ca**, or call **1-800-565-6699**.