Modular Panelboard System

Catalog

Class 2010



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SQUARE D

Modular Panelboard System **Product Description**



Modular Panelboard System



Modular Panelboard System

Product Description

The Modular Panelboard System consists of I-Line® power panelboards and Transformer Assemblies in full-height compartments and NQOD, NF, and NF Powerlink[™] G3 lighting and appliance panelboards in stacked, full-height, or column-width compartments. The Modular Panelboard System is a compact electrical distribution equipment package that is suitable for use on ac systems. All panelboards are Underwriters Laboratories (UL®) Listed under File E33139.

To maximize flexibility, equipment space compartments with aluminum back pans are also available for the customer to mount building system equipment, such as comfort controls or lighting contactors. Standard panelboard enclosures are designed to provide easy, unobstructed access to components.

Features and Benefits

Installation and Space Savings

A variety of Modular Panelboard System configurations with stacked, full-height and column-width circuit breaker panelboards, Transformer Assemblies, and equipment space compartments are available. This new approach in modular panelboards reduces installation space and time by preconfiguring and assembling the system in vertical sections at the factory before shipment to the job site.

The Modular Panelboard System eliminates the use of connectors and conduit between power and lighting panels while shortening the service and feeder cables. The outcome is a lowered installation cost and a reduction in construction cycle time; therefore, your store or facility will open sooner, and you will derive revenue on your investment faster.

Features of the Modular Panelboard System include:

- Reduced equipment space ٠
- Reduced installation costs
- Reduced installation time
- Reduced material handling ٠

Compartmentalization

Structures are compartmentalized and built per UL and National Electrical Code[®] (NEC[®]) requirements.

Conduit Space

The structure has ample conduit space within the main and feeder sections. Stacked panelboard sections have a 9.5-inch (241 mm) depth to provide sufficient room for routing branch conductors. Branch conductors can exit out of the top or bottom of most Modular Panelboard System sections.



Modular Panelboard System



Modular Panelboard System

General and Application Information

The Modular Panelboard System consists of stacked and full-height compartments bolted together in a upright position to free up wall and floor space. The system is comprised of 86-inch (2184 mm) high vertical sections arranged according to customer requirements. Lighting panelboards may be stacked two-high maximum. Refer to the Modular Panelboard System Configurations and Ratings table beginning on page 8 to determine which interiors qualify to be stacked.

Panelboard	Description
NQOD	Contains QO(B) circuit breakers and accessories
NF	Contains ED, EG, and EJ circuit breakers and accessories
NF Powerlink G3	Contains ECB-G3 circuit breakers and accessories
I-Line	Contains I-Line circuit breakers and accessories

Equipment space compartments may contain, but are not limited to the following kinds of customer-installed building equipment.

Equipment Space	Description
Comfort controls	Used for HVAC systems
Lighting contactors	Used for lighting control systems
Building management systems	Used for power management

Typical Application

The Modular Panelboard System is suitable for use as the electrical service in the following applications:

- Retail stores/grocery stores
- Office buildings/public buildings
- Shopping malls/strip malls
- Schools/universities
- Restaurants/food service
- · Hotels/motels
- Warehouses/factories
- Light manufacturing facilities
- · Equipment rooms

Standards

The Modular Panelboard System is manufactured and tested to meet the following standards:

Standard	Description
UL 50	Standard for enclosures for electrical equipment
UL 67	Standard for panelboards
UL 98	Standard for enclosed and dead-front switches
UL 489	Standard for molded case circuit breakers
UL 891	Standard for dead-front switchboards
NFPA 70	National Electrical Code (NEC)
NEMA AB 1	Standard for molded case circuit breakers and molded case switches
NEMA KS 1	Standard for enclosed switches
NEMA PB 1	Standard for panelboards
NEMA 250	Enclosures for electrical equipment

The Modular Panelboard System is manufactured and tested to meet the following federal specifications:

Specification	Description
W–C 375B/GEN	Specification for molded case circuit breakers
W–P 115B Type 1 Class 1	Specification for circuit breaker panelboards

System Configurations

The Modular Panelboard System allows a variety of stacked, full-height, and column-width panelboard configurations containing NF, NQOD, NF Powerlink G3, and equipment space compartments. A full-height I-Line power panelboard or Transformer Assembly typically feeds stacked, full-height, or column-width lighting panelboard sections that can be mounted on the left, right, or both sides of the power panelboard.



Typical Modular Panelboard System

Installation Considerations

- Removable blank top endwalls can only be removed prior to bolting vertical sections together.
- Bottom trim is shortened to allow for up to 1-inch (25 mm) thick flooring material.
- Vertical sections are arranged in a manner that meets NEC and local code requirements for maximum fill of the wiring space for the service, feeder, and branch cables.
- Maximum recommended conduit stub height is 2 inches (51 mm) above the finished floor level.

MPS Layout Guidelines

To comply with the NEC wiring space requirements, Modular Panelboard System layouts shall not exceed the following guidelines:

- Interiors rated 125 A maximum—Up to six sections (12 stacked interiors) on each side of a power panel
- Interiors rated 225/250 A maximum—Up to three sections (six stacked interiors) on each side of a power panel
- Interiors rated 225/250 A maximum—Up to six full-height interiors on each side of a power panel
- Interiors rated 400 A maximum—Up to four full-height interiors on each side of a power panel
- Interiors rated 600 A maximum—Up to two full-height interiors on each side of a power panel

Notes:

- Guidelines are based on:
 - 3P4W interiors
 - Copper conductors sized at 100% of the mains rating
 - Type XHHW copper conductor
 - Conductor sized per NEC table 310.16 (75 degree table)
- The installing contractor must comply with NEC wiring space requirements and local codes as interpreted by the jurisdiction having authority (local inspector).
- For short-circuit current ratings and interrupting ratings, refer to the appropriate panelboard catalog or the *Switchboard/Panelboard Short-Circuit Current Ratings* data bulletin.

MPS Shipping Configuration Options

- MPS Bolted Together (Ahead)—Tubs are shipped ahead to the job site completely bolted together in shipping splits up to 84 in. (2134 mm) wide. Interiors and trims are shipped at a later date.
- MPS Bolted Together (Ship Tog)—Tubs are bolted together at the factory in shipping splits up to 84 in. (2134 mm) wide. Tubs, interiors, and trims are shipped to the job site as one shipment. (Interiors and trims are not factory-installed.)
- MPS Bolted Together (Ship Asy)—Tubs, interiors, and trims are completely assembled at the factory and shipped to the job site in shipping splits up to 84 in. (2134 mm) wide.

NOTE: These systems also can be factory-wired when the power cable option is selected.

- MPS Individual Section (Ahead)—Tubs are shipped ahead to the job site as individual full-height sections. Interiors and trims are shipped at a later date. With this option, individual sections must be bolted together at the job site.
- MPS Individual Sections (Ship Tog)—Tubs are shipped from the factory as individual sections along with individual interiors and trims. With this option, individual sections must be bolted together at the job site. (Interiors and trims are not factory-installed.)

Modular Panelboard System configurations and ratings are listed below.

System Voltage (Maximum)	Main	Maximum Number of One-Pole Breakers	Panelboard Location Options	
NQOD Stacked				
400/040 \/ 4 = h = = = 0	100 A vertical main circuit breaker	12, 20		
120/240 V; 1-pnase, 3-wire	225 A main lug	30, 42, [54 🖏		
	225 A main lug	30, 42, [54 🖏	Ton as he was	
208Y/120 V; 3-phase, 4-wire	100 A vertical main circuit breaker	12, 18, 24, 30	top or bollom	
240/120 V; 3-phase, 4-wire	150 A back-fed main circuit breaker	24, 36, 42		
	225 A vertical main circuit breaker	30 (T)		
NQOD Stacked with 200% Ra	ted Neutral			
	100 A main lug	30		
208V/120 \/: 2.phaso 4.wiro	225 A main lug	30, 42, [54 (T) 🐴		
	100 A back-fed main circuit breaker	30, 42, [54 (T) 🐴	Top or bottom	
240/120 V; 3-phase, 4-wire	150 A back-fed main circuit breaker	36, [42 (T)]		
	225 A vertical main circuit breaker	30 (T)		
NQOD Full-Height 🔶				
240/120 V/: 2 phone 4 wire	225/250 A vertical main circuit breaker	42, [54 😽		
240/120 V, 3-phase, 4-wire	400 A main lug or main circuit breaker	30, 42, [54 🛠]	Full-height	
208Y/120 V; 3-phase, 4-wire	600 A main lug or main circuit breaker	30, 42, [54 🛠]		
NQOD Full-Height with 200%	Rated Neutral ♦			
	225/250 A vertical main circuit breaker	42, [54 😽		
240/120 V; 3-phase, 4-wire	400 A main lug or main circuit breaker	30, 42, [54 😽	Full-height	
NQOB Column-width				
	100 A main lug or main circuit breaker	30		
208Y/120 V; 3-phase, 4-wire	225 A main lug or main circuit breaker	42	Full-height	
NF Stacked				
	125/250 A main lug	30, 42		
480Y/277 V; 3-phase, 4-wire	100 A vertical main circuit breaker	12, 18, 30	Top or bottom	
	125 A back-fed main circuit breaker	18, 30, 42		
NF Stacked with 200% Rated	Neutral			
	125/250 A main lug	30, 42		
480Y/277 V; 3-phase, 4-wire	100 A vertical main circuit breaker	12, 18, 30	Top or bottom	
	125 A back-fed main circuit breaker	18, 30, 42		
NF Full-Height ♦	•			
	250 A main lug	54 🛠		
	250 A main circuit breaker	30, 42, [54 😽		
480Y/277 V; 3-phase, 4-wire	400 A main lug or main circuit breaker	30, 42, [54 😽	Full-height	
	600 A main lug or main circuit breaker	30, 42, [54 😽		
NF Full-Height with 200% Rat	ed Neutral ♦			
	250 A main lug	54 🛠		
480Y/277 V; 3-phase, 4-wire	250 A main circuit breaker	30, 42, [54 😽	-	
	400 A main lug or main circuit breaker	30, 42, [54 😽	Full-height	
	600 A main lug or main circuit breaker	30, 42, [54 😽	-	
NF Column-Width			I	
	100 A main circuit breaker	30		
	225 A main circuit breaker	42		
480Y/277 V; 3-phase, 4-wire	125 A main lug	30	- Full-height	
	225 A main lug	42		

Modular Panelboard System Configurations and Ratings

System Voltage (Maximum)	Main Maximum Number of One-Pole Breakers		Panelboard Location Options	
NF Powerlink G3 Stacked	†			
	125 A back-fed main circuit breaker	42		
480Y/277 V; 3-phase, 4-wire	100 A vertical main circuit breaker	30	Top or bottom	
	225 A main lug	30, 42		
NF Powerlink G3 Full-Height		L		
	250 A main circuit breaker	30, 42, [54 🔥		
480Y/277 V; 3-phase, 4-wire	400 A main lug only or main circuit breaker	30, 42, [54 🔥	Full-height	
	600 A main lug only or main circuit breaker	30, 42, [54 👌		
NF Powerlink G3 Column-Wid				
	100 A main circuit breaker	30		
	225 A main circuit breaker	42		
480Y/277 V; 3-phase, 4-wire	125 A main lug	30	Full-height	
	225 A main lug	42	-	
I-Line	, i i i i i i i i i i i i i i i i i i i			
	400–1200 A main lug 99-inch and 108-inch without main lug only			
600 V	600–1200 A main circuit breaker	72-inch and 108-inch mounting without main circuit breaker	- Full-height	
Single-Row I-Line		·		
480Y/277 V; 3-phase, 4-wire	800 A back-fed main circuit breaker or main lug 54-inch mounting without main circuit breaker or main lug only kit		Full-height	
Equipment Space		·		
43 x 20 x 9.5 inches			Top or bottom	
86 x 10 x 9.5 inches	1			
86 x 20 x 9.5 inches	With hinged trim and aluminum back pan	Full-height		
86 x 26 x 9.5 inches				
Blank Space	•		•	
43 x 20 x 9.5 inches	With blank covers and box studs; no back pa	an or elevating brackets	Top or bottom	
Wireway	•			
86 x 10 x 9.5 inches	Hinged screw-on cover		Full-height	
NOTES:	-			
‡ Column-width slave panel–All bra Powerlink breakers.	Il branch mounting spaces are available for • Copper and/or aluminum bus available • Sub-feed lugs are available in full-hei		s available. in full-height only.	
 Split bus, sub-feed circuit breaker and thru-feed lugs available on full-height only. 		 Equipment space available t 200% rated neutrals available 	op or bottom located. le with NF Powerlink G3	
Height x Width x Depth.	nt x Width x Depth. • If an interior fits in an MH-29-44 box, it is star			
(T) Top located and top feed only.		 Thru-feed lugs available in s NOOD 42-circuit 225 A per 	tacked configuration only on	
Master panel–Six branch mountin (3) spaces for the power supply a	g spaces are unavailable for breakers. [Three nd three (3) spaces for the controller]	3e NGOD, 42-CITCUIL, 225 A pariers.		
Slave panel—Six branch mounting spaces are unavailable for Powerlink breakers, but can be used for standard breakers.				

Modular Panelboard System Configurations and Ratings

Refer to 42-circuit rule–NEC Articles 384-14 and 384-15.



Elevating Brackets

Structure (NEMA 1 Enclosure)

Elevating Brackets

Stacked compartments have elevating brackets with removable studs for mounting different interiors, providing maximum flexibility.

Knockouts

Large 4-inch (102 mm) diameter knockouts are provided in each panelboard and equipment space compartment to facilitate cable pulling. Edge guards are provided for each opening to protect conductors.

Dimensions

- MPS sections are 86.00 in. (2184 mm) H x 9.50 in. (241 mm) D.
- Stacked interiors have 43-inch (1092 mm) high boxes
- Full-height interiors have 86-inch (2184 mm) high boxes.
- Section widths are: 10.00, 20.00, 26.00, 42.00, and 44.00 inches (254, 508, 660, 1067, 1118 mm)

MPS CAD drawings can be obtained from www.SquareD.com. Search for "Modular Panelboard Systems".

Endwalls

Blank top endwalls provide the installer with maximum flexibility for positioning conduits. Four-inch (102 mm) knockouts permit cables to be routed between enclosures. Bottom endwalls have a removable plate to accommodate conduits stubbed up from the floor.





Hole with Edge Guards for Cable Transition



Removable Bottom Plate

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Stacked NQOD Panelboard



Full-Height NQOD Panelboard

NQOD Circuit Breaker Panelboard

Туре

NQOD circuit breaker panelboards are for use on ac systems and are UL Listed under File E33139. NQOD circuit breaker panelboards accept QO[®] and QOB branch circuit breakers. Refer to the *NQOD Circuit Breaker Panelboards* catalog or to the Technical Library at http://www.SquareD.com for detailed information.

Features

- 240 Vac maximum
- · 600 A maximum main circuit breaker or main lugs
- 150 A maximum branch circuit breakers
- 200 kA maximum RMS symmetrical amperes short-circuit current rating (SCCR)
- · Fully-rated or series-rated systems are available
- · Interiors available with tin-plated copper or aluminum bus
- An interior accepts bolt-on or plug-on branch circuit breakers
- Interiors may be mounted for top or bottom feed
- VISI-TRIP® indicator on branch circuit breakers
- · Suitable for use as service equipment
- Monoflat® trims with locks are standard

Options

- 200% rated neutrals up to 225 A
- 1000 A/in² tin-plated copper bus
- 750 A/in² tin-plated aluminum bus
- · Split bus interiors
- Transient Voltage Surge Suppressor (TVSS)
- · Lighting contactors
- Sub feed lugs are available in stacked- or full-height, standard-width enclosures only.
- · Thru feed lugs are available in full-height, standard-width enclosures only
 - Sub-feed circuit breakers available in full-height, standard-width only
 - One sub-feed circuit breaker per 225 A main lug or 250 A main breaker interior
 - Two sub-feed circuit breakers per 400–600 A main breaker interiors

NOTE: Column-width is available using NQOB construction.



Stacked NF Panelboard (Also Available in Full-Height and Column-Width)

NF Circuit Breaker Panelboard

Туре

NF circuit breaker panelboards are for use on ac systems and are UL Listed under File E33139. NF circuit breaker panelboards accept EDB, EGB, and EJB branch circuit breakers. Refer to the *NF Circuit Breaker Panelboards* catalog or to the Technical Library at http://www.SquareD.com for detailed information.

Features

- 480Y/277 Vac maximum
- 600 A maximum main circuit breaker
- 800 A maximum main lugs
- 125 A maximum branch mounted circuit breakers
- 200 kA maximum RMS symmetrical amperes short-circuit current rating (SCCR)
- · Fully-rated or series-rated systems are available
- · Interiors available with tin-plated copper or aluminum bus
- Interiors may be mounted for top or bottom feed
- VISI-TRIP indicator on EDB, EGB, and EJB branch circuit breakers
- · Suitable for use as service equipment
- · Monoflat trims with locks are standard

Options

- 200% rated neutrals up to 250 A
- 1000 A/in² tin-plated copper bus
- 750 A/in² tin-plated aluminum bus
- Sub feed lugs are available in stacked- or full-height, standard-width enclosures only.
- Thru feed lugs are available in full-height, standard-width enclosures only.
- Sub-feed circuit breakers available in full-height, standard-width enclosures only
 - One sub-feed KA, KH, or KC circuit breaker per 250 A panelboard
 - Two sub-feed KA, KH, or KC circuit breakers per 400 a panelboard
 - One sub-feed LA, LH, or LC circuit breaker (400 A maximum) and one KA, KH, or KC circuit breaker or two sub-feed KA, KH, or KC circuit breakers per 600 A or 800 A panelboard [‡]
 - (‡ LC and KC may not be combined.)

NF Powerlink G3 Circuit Breaker Panelboards

Туре

NF Powerlink G3 circuit breaker panelboards are for use on ac systems and are UL Listed under File E33139. NF Powerlink G3 circuit breaker panelboards accept ECB-G3 and EDB, EGB, and EJB bolt-on circuit breakers. Refer to the *Powerlink™ G3 TM Lighting Control Systems* catalog or to the Technical Library at http://www.SquareD.com for detailed information.

Features: NF Powerlink G3 circuit breaker panel interiors

- 480Y/277 Vac maximum
- 225 A maximum main lugs or main breaker in column-width
- 800 A maximum main lugs (600 A main breaker) in standard-width enclosures
- · Copper or aluminum plated bus interiors
- SCCR ratings to 100 kA @ 240 volts and 65 kA at 480Y/277
- Standard or remotely operated branch circuit breakers.
- · Copper bus standard
- Interiors may be mounted for top or bottom feed
- · Monoflat trims with locks are standard

Features: POWERLINK G3 remotely-operated circuit beaker

- Bolt-on line connectors
- · Oversized load terminals
- · Integral ON/OFF/trip status position indicator
- Manual override
- Modular control connector
- Rated for 200,000 remote operations
- UL Listed switch duty rated (SWD), and heating, air-conditioning, refrigeration rated (HACR), and high intensity discharge lighting (HID)

Options

- 200% rated neutrals up to 250 A
- 1000 A/in² tin-plated copper bus
- Thru-feed lugs available in full-height, standard-width only
- Sub-feed circuit breakers available in full-height, standard-width only
- Sub-feed lugs are available in full-height and stacked, standard-width enclosures only
- TVSS units

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I-Line Panelboard Type HCR-U

I-Line[®] Circuit Breaker Power Distribution Panelboard

Туре

I-Line[®] circuit breaker power distribution panelboards are for use on ac systems and are UL Listed under File E33139. I-Line circuit breaker power distribution panelboards have HCW, HCWM, and HCR-U interiors rated 400–1200 A. Refer to the *I-Line Circuit Breaker Panelboards* catalog or to the Technical Library at http://www.SquareD.com for detailed information.

Features

- 600 Vac maximum
- 1200 A maximum main circuit breaker or main lugs
- UL Listed for use on ac systems up to 200 kA maximum RMS symmetrical amperes available fault current when using current limiting main or branch circuit breakers
- · Fully-rated and series-rated systems
- · Interiors available with plated aluminum or copper bus
- · Interiors may be mounted for top or bottom feed
- · Interior, front, and circuit breakers require only a screwdriver for installation
- · Circuit breakers do not require any additional external mounting hardware
- Circuit breaker connections are "blow-on" type that draw the plug-on jaws together, providing a firmer grip under high level short-circuit conditions
- · Well-suited for rearranging circuits
- Suitable for use as service equipment

Options

- 200% rated neutrals up to 600 A
- 1000 A/in² tin-plated copper bus
- Micrologic[®] microprocessor and/or thermal magnetic main and branch circuit breakers
- Equipment ground fault protection available on main or branch circuit breaker
- Six-circuit QO plug-on distribution panel
- Sub-feed lugs through 1200 A
- · Locks are available with optional door kits

Single-Row I-Line[®] Circuit Breaker Power Distribution Panelboard



Single-Row I-Line Panelboard

Туре

I-Line circuit breaker power distribution panelboards are for use on ac systems and are UL Listed under File E33139. Single-row I-Line circuit breaker power distribution panelboards have an HCP5486-8SU interior rated 800 A maximum. Refer to the Technical Library at http://www.SquareD.com for detailed information.

Features

- 480Y/277 Vac maximum
- 800 A maximum main circuit breakers or main lug
- 600 A maximum branch circuit breakers
- Standard tin-plated copper bus
- · Fully-rated and series-rated systems up to 65 kA
- Interiors may be mounted for top or bottom feed
- · Interior, front, and circuit breakers require only a screwdriver for installation
- Circuit breakers do not require any additional external mounting hardware
- Circuit breaker connections are "blow-on" type that draw the plug-on jaws together, providing a firmer grip under high level short-circuit conditions
- Suitable for use as service equipment

Options

- Micrologic microprocessor and/or thermal magnetic main and branch circuit breakers
- Six-circuit QO plug-on distribution panelboard
- Sub-feed and thru-feed lugs through 800 A
- Locks are available with optional door kits



Transformer Assembly–Uncovered



Transformer Assembly-Covered

Transformer Assemblies

Туре

Transformer Assemblies are for use on ac systems and are UL Listed under File E8681. Refer to the *Transformer Assemblies for Power-Style*[®] *QED Switchboards* handout or to the Technical Library at http://www.SquareD.com for detailed information.

Features

- 37.5-167 kVA single-phase 480-120/240
- 45-225 kVA three-phase 480 Delta-208Y/120
- H-220C insulation with 150 °C (302 °F) rise
- NEMA 1 enclosure
- Suitable for one or two transformers per enclosure (refer to the Stacking Rules for Stacked and Non-Stacked Transformer Sections table on page 17)
- · Provisions for close coupling to MPS lineup

Options

- · Factory-supplied cables ready to connect
- Aluminum or copper windings
- General purpose lighting transformers
- Energy-efficient (EE) transformers
- Electrostatic shield
- Stacking configurations
 - Single-phase transformers
 - Three-phase transformers
 - Combination of single- and three-phase transformers

Single-Phase Transformers kVA Rating							
Top transformer (in kVA)	Blank	Blank	Blank	Blank	Blank		
Bottom transformer (in kVA)	37.5	50	75	100	167		
Enclosure width/depth (in inches)	24 x 24	24 x 24	30 x 36	30 x 36	36 x 36		
Top transformer (in kVA)	37.5	37.5	37.5	37.5	37.5		
Bottom transformer (in kVA)	37.5	50	75	100	167		
Enclosure width/depth (in inches)	24 x 24	24 x 24	30 x 36	30 x 36	36 x 36		
Top transformer (in kVA)		50	50	50	50		
Bottom transformer (in kVA)	—	50	75	100	167		
Enclosure width/depth (in inches)		30 x 36	30 x 36	30 x 36	36 x 36		
Top transformer (in kVA)			75	75	75		
Bottom transformer (in kVA)	—	—	75	100	167		
Enclosure width/depth (in inches)			30 x 36	30 x 36	36 x 36		
Top transformer (in kVA)				100	100		
Bottom transformer (in kVA)	—	_	—	100	167		
Enclosure width/depth (in inches)				36 x 36	36 x 36		
Three-Phase Transformers kVA Rating							
Top transformer (in kVA)	Blank	Blank	Blank	Blank	Blank		
Bottom transformer (in kVA)	45	75	112.5	150	225		
Enclosure width/depth (in inches)	24 x 24	30 x 36	30 x 36	30 x 36	36 x 36		
Top transformer (in kVA)	45	45	45	45	45		
Bottom transformer (in kVA)	45	75	112.5	150	225		
Enclosure width/depth (in inches)	24 x 24	30 x 36	30 x 36	30 x 36	36 x 36		
Top transformer (in kVA)		75	75	75	75		
Bottom transformer (in kVA)	—	75	112.5	150	225		
Enclosure width/depth (in inches)		30 x 36	30 x 36	30 x 36	36 x 36		
Top transformer (in kVA)			112.5	112.5	112.5		
Bottom transformer (in kVA)	—	_	112.5	150	225		
Enclosure width/depth (in inches)			30 x 36	30 x 36	36 x 36		
Combination: Single	e-Phase on T	op/Three-Ph	ase on Botte	om kVA Rati	ng		
Top transformer (in kVA)	37.5	37.5	37.5	37.5	37.5		
Bottom transformer (in kVA)	45	75	112.5	150	225		
Enclosure width/depth (in inches)	24 x 24	30 x 36	30 x 36	30 x 36	36 x 36		
Top transformer (in kVA)	50	50	50	50	50		
Bottom transformer (in kVA)	45	75	112.5	150	225		
Enclosure width/depth (in inches)	24 x 24	30 x 36	30 x 36	30 x 36	36 x 36		
Top transformer (in kVA)		75	75	75	75		
Bottom transformer (in kVA)	—	75	112.5	150	225		
Enclosure width/depth (in inches)		30 x 36	30 x 36	30 x 36	36 x 36		
Top transformer (in kVA)			100	100	100		
Bottom transformer (in kVA)	_	—	112.5	150	225		
Enclosure width/depth (in inches)			36 x 36	36 x 36	36 x 36		

Stacking Rules for Stacked and Non-Stacked Transformer Sections

Transformer Assemblies / Stacked and Non-Stacked Layouts



I-Line, HCP-SU, HCP, HCWM, or HCR-U 208Y/120 volt panel with backfed MB does not require MPS wireway





requires MPS wireway

Lighting Contactors

Туре

Lighting contactors are for use on ac systems and are UL Listed under File E131840 for use in MPS construction. Class 8903 Type L/ LX, Class 8903 Type SM, and Class 8910 Type DPA lighting contactors are available in MPS construction. Refer to the Lighting Contactor Catalogs or to the Technical Library at http://www.SquareD.com for detailed information.

Features

Lighting contactor features are listed below:

- Class 8903, Type L/LX
 - 30 A ballast lighting rating, 20 A tungsten lighting rating
 - Voltage systems
 - -120/240 Vac; single-phase, three-wire
 - -208Y/120 Vac; three-phase, four-wire
 - -480Y/277 Vac; three-phase, four-wire
 - Available with 2 to 12 N.O. poles
 - Up to 8 N.C. poles maximum
 - Field-convertible poles (N.O. to N.C.) standard
 - Contactor status indicator standard
 - Electrically or mechanically held
- Class 8903, Type SM
 - 30 A mixed load rating (lighting/motor)
 - Voltage systems
 - -208Y/120 Vac; three-phase, four-wire
 - -480Y/277 Vac three-phase, four-wire
 - Available with 2 to 5 N.O. poles
 - Contactor status indicator standard
 - Electrically or mechanically held
- Class 8910, Type DPA
 - 30 A ballast and tungsten lighting rating
 - Voltage systems
 - -120/240 Vac; single-phase, three-wire
 - -208Y/120 Vac; three-phase, four-wire
 - -277 Vac; three-phase, four-wire (ballast only)
 - Available with 2 to 4 N.O. poles
 - Contactor status indicator standard
 - Electrically held





Type SM—Electrically-Held



Type LX—Mechanically-Held

Type SM—Mechanically-Held

Type DPA—Electrically-Held



Options

Lighting contactor options are listed below:

- · Factory-installed contactor options
 - Lighting contactors (no wiring)
 - Lighting contactors with lineside wiring (branch breakers to lineside)
 - Lighting contactors with lineside and loadside wiring (branch breaker to lineside, loadside to terminal blocks)
- Lighting contactor enclosure dimensions
 - 20 in. (W) x 43 in. (H) x 9.5 in. (D) (508 x 1092 x 241 mm) (stacked)
 - 10 in. (W) x 86 in. (H) x 9.5 in. (D) (254 x 2184 x 241 mm) (full-height)
 - 20 in. (W) x 86 in. (H) x 9.5 in. (D) (508 x 2184 x 241 mm) (full-height)
 - 26 in. (W) x 86 in. (H) x 9.5 in. (D) (660 x 2184 x 241 mm) (full-height)

Refer to data bulletin 2010DB0201, *Lighting Contactors and Terminal Blocks in Modular Panelboard System (MPS) and Integrated Power Center (IPC)* or to the Panelboard Product Selector Help screens for panelboard/lighting contactor short-circuit current ratings.

Contactor Layout Guide

Use the following contactor layout guide to determine the correct MPS equipment space for your application.

- Class 8903, Type L; 8903 Type SM; or 8910 Type DPA electrically-held contactors with Type 9080 GR6/GC6 terminal blocks:
 - Eight (8) contactors maximum in a stacked 20 in. (508 mm) (W) x 43 in. (1092 mm) (H) equipment space
 - Eight (8) contactors maximum in one (1) full-height 10 in. (254 mm)
 (W) x 86 in. (2184 mm) (H) equipment space
 - 16 contactors maximum in one (1) full-height 20 in. (508 mm) (W) x 86 in. (2184 mm) (H) equipment space
 - 16 contactors maximum in one (1) full-height 26 in. (660 mm) (W) x 86 in. (2184 mm) (H) equipment space
- Class 8903, Type LX or Class 8903, Type SM mechanically-held contactors with Type 9080 GR6/GC6 terminal blocks:
 - Six (6) contactors maximum in a stacked 20 in. (508 mm) (W) x 43 in. (1092 mm) (H) equipment space
 - Six (6) contactors maximum in one (1) full-height 10 in. (254 mm) (W) x 86 in. (2184 mm) (H) equipment space
 - 12 contactors maximum in one full-height 20 in. (508 mm) (W) x 86 in. (2184 mm) (H) equipment space
 - 12 contactors maximum in one full-height 26 in. (660 mm) (W) x 86 in. (2184 mm) (H) equipment space

Dimensions

MPS NQOD Panelboard



Non- Box L	MPS ength	,	A	E Top	3 Box	l Botto	3 m Box
IN	mm	IN	mm	IN	mm	IN	mm
29.00	737	22.00	559	9.47	241	9.47	241
32.00	813	27.00	686	6.47	164	9.47	241
35.00	889	30.00	762	3.47	88	6.47	164
38.00	965	33.00	838	3.47	88	6.47	164
41.00	1041	36.00	914	3.47	88	3.47	88
44.00	1118	39.00	991	1.57	40	_	—

Notes:

Refer to catalog class 1630 for additional information.

MPS NQOD panelboards are UL Listed.

Box: Code gauge galvanized steel top box has blank top endwall and bottom endwall has knockouts; bottom box has top endwall with knockouts and bottom endwall has cutout.

Front: Monoflat construction with concealed trim screws and door hinges; ANSI 49 gray baked enamel finish electrodeposited over cleaned phosphatized steel. Lock: Flush lock with brushed, stainless steel escutcheon; NSR–251 key change.

Modular Panelboard System Dimensions

Sample Layout / Transformer Assemblies



Section Width (W)		Section Depth (D)			
IN	mm	IN	mm		
24	610	24	610		
30	762	36	914		
36	914	36	914		
We due and share the same the start for the LVA sector of the target formation and					

Width and depth vary based on the kVA rating of the transformers.
Increased depth and/or width are available when requested.

 Cable feeding the primary terminals of the transformer can enter from the left side or from the right side of the section.

Transformer secondary cable can exit to the right side or to the left side of the section.

 Transformer terminals face the same direction as the secondary cables exit the section (e.g., secondary cables exit to the right, and the transformer terminals face to the right side of the section).

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