

Internal Modular SPDs

Square D Internally Mounted Surge Protective Devices

Square D™ brand Surgelogic™ internal modular Surge Protective Devices (SPDs) deliver specification grade performance for service entrance or critical branch panel applications. This multi-phase system provides suppression for all critical modes inside electrical equipment and shorter lead lengths with superior SPD performance.



by **Schneider** Electric

Internal Modular SPDs Features



Internal panel modular Surge Protective Devices (SPDs) provide superior design and service life for a wide variety of commercial, industrial, or institutional applications. Square D brand Surgellogic SPDs offer first-rate performance and surge suppression for demanding service entrance applications or as part of a suppression network. The robust modular construction reduces possible down time and maintenance costs.

Superior Performance

Surgellogic SPDs utilize a high-energy suppression circuit that provides 10 modes of suppression from 100,000 to 480,000 peak Amps of surge current rating per phase. Modular SPDs feature circuitry that provides not only transient surge suppression, but also noise filtration.

Installation

Integral solutions come professionally pre-wired into electrical gear and panels from the factory insuring short lead lengths and high performance. All units are tested at the factory before delivery to their final destination, maintaining Square D brand's high standard of quality. There is also no need for additional enclosures or installation labor costs.

Warranty

Surgellogic internal modular SPDs have a 10-year warranty.

FEATURES	ADVANTAGES	BENEFITS
Integral to electrical gear and panels	SPDs are professionally installed inside electrical gear and panels	Delivers high levels of SPD performance and saves on enclosure and installation expenses
100,000 to 480,000 Amp Capacity (depending on model)	Longer service life and suppression against high-energy lightning strikes	High performance surge suppression even in severe electrical conditions
EMI/RFI Noise Rejection	Increased transient suppression	Improves surge suppression to the equipment
Advanced Diagnostics	Allows for visual indication/testing of the suppressor's functionality	Provides immediate response if suppressor is damaged
Suppression Status Alarms	Allows multiple methods of alarm notification	Provides immediate notification through audible, visual and remote signaling if reduced suppression occurs
Coordinated Fuse Technology	Coordinated fusing allows disconnection methods for thermal and high-current events	Provides premium surge suppression while managing both thermal and high-current end-of-life events

Internal Modular SPDs

Features (continued)

NQ/NF Panelboard



NQ and NF panelboards are primarily used for lighting and power distribution up to 600 Amps. These panelboards, following the 2008 National Electric Code changes, provide electrical capacity up to 84 circuit breakers. Both types of panels are designed with 200% rated copper neutrals for non-linear loads. (NQ max volts 240 Vac, NF max volts 600/347 Vac)

SPD available surge current ratings: 120, 160, 240 kA

QED Switchboard



QED Switchboards are made for use as service entrance equipment or as distribution centers in commercial, institutional, and industrial applications. QEDs are extremely versatile providing front accessible load connections with multiple breaker and fusible switch options. QEDs enable easy access to power monitoring equipment such as products from our Square D brand PowerLogic™ brand. (Max volts 600 Vac, max current 4,000 Amps)

SPD available surge current ratings:

120, 160, 240, 320, 480 kA

Internal SPDs



Performance

Surge Current Rating per Phase	Up to 480kA
Short Circuit Current Rating	200kA
Modes of Protection	6, 10
Fusing	Individually fused MOVs
Thermal Fusing	Yes
Overcurrent Fusing	Yes
Sine Wave Tracking	Yes
EMI/RFI Filtering	Up to -42 dB
Operating Frequency	50/60 Hz

Mechanical Description

Connection Method	#10-#2 AWG Terminals
Mounting Method/Circuit Type	Parallel
Operating Altitude	Sea Level-12,000' (3,658 m)
Storage Temperature	-40° F (-40° C) to 149° F (65° C)
Operating Temp.	-4° F (-20° C) to 149° F (65° C)
LCD Operating Temp.	32° F (0° C) to 149° F (65° C)
Operating Humidity	0 to 95% non-condensing

Diagnostics

Push to test diagnostic switches, red and green status LEDs per phase (internal redundant status LEDs are green), module status LEDs per mode, dry contacts, audible alarm with disable switch, surge counter.

Options

- Remote monitor

Safety and Performance

Type 2 SPD: cURus per UL 1449 3rd Edition and CAN/CSA C22.2 No. 8-M1986.
Complies with UL 96A 12th Edition Master Label requirements for Lightning Protection Systems.

Type 1 SPD: URus per UL 1449 3rd Edition and CAN/CSA C22.2 No. 8-M1986.
Complies with UL 96A 12th Edition Master Label requirements for Lightning Protection Systems.

Internal Modular SPDs Features (continued)

Power-Zone Switchgear



The Square D brand Power-Zone™ 4 low voltage metal-enclosed drawout switchgear is designed to provide superior electrical distribution and power quality management. Power-Zone 4 switchgear is designed to deliver maximum uptime, system selectivity, and ease of maintenance. All of these features are packed into one of the smallest footprints available for low voltage drawout switchgear. (Max volts 600 Vac, max current 5,000 Amps)

SPD available surge current ratings:
120, 160, 240, 320, and 480 kA

QMB Panelboard



When specifications or electrical codes call for a fusible panelboard, the QMB family offers superior performance and time-saving installation features. The reliability of the QMB panelboard makes it the product of choice for large commercial and industrial applications. (Max volts 600 Vac, max current 400 Amps)

SPD available surge current ratings: 120, 160, 240 kA

Motor Control Center



The feature-rich modular design minimizes space and maximizes ease-of-use and accessibility of motor control devices. The Model 6 MCC has integrated industry-leading components into the smallest and one of the most flexible footprints possible to meet industry's power, control, and automation needs. (Max volts 480 Vac, max current 2,500 Amps)

SPD available surge current ratings: 120, 160, 240 kA

Busway



Square D brand I-Line™ Busway is engineered to replace old cable and conduit systems. This next-generation power distribution system is loaded with exceptional features, including a 200% neutral and a 100% isolated ground path. (Max volts 600 Vac, max current 5,000 Amps)

SPD available surge current ratings: 120, 160, 240 kA

Internal Modular SPDs Specifications

WYE Configured SPD Specifications

	Surge Current per Phase	Modes of Protection	Configuration	Model Number	MCOV	I _n	VPR				
Voltage							L-N	L-G	L-L	N-G	
120/240V	120kA	6	1 Ø, 3-wire+G	TVS11MA12_	150V	20kA	700V	800V	1200V	700V	
208Y/120V ■	120kA	10	3 Ø, Wye, 4-wire+G	TVS21MA12_	150V	20kA	700V	800V	1200V	700V	
480Y/277V ▲	120kA	10	3 Ø, Wye, 4-wire+G	TVS41MA12_	320V	20kA	1200V	1200V	2000V	1200V	
600Y/347V	120kA	10	3 Ø, Wye, 4-wire+G	TVS81MA12_	420V	20kA	1500V	1500V	2500V	1500V	
120/240V	160kA	6	1 Ø, 3-wire+G	TVS11MA16_	150V	20kA	700V	800V	1200V	700V	
208Y/120V ■	160kA	10	3 Ø, Wye, 4-wire+G	TVS21MA16_	150V	20kA	700V	800V	1200V	700V	
480Y/277V ▲	160kA	10	3 Ø, Wye, 4-wire+G	TVS41MA16_	320V	20kA	1200V	1200V	2000V	1200V	
600Y/347V	160kA	10	3 Ø, Wye, 4-wire+G	TVS81MA16_	420V	20kA	1500V	1500V	2500V	1500V	
120/240V	240kA	6	1 Ø, 3-wire+G	TVS11MA24_	150V	20kA	700V	800V	1200V	700V	
208Y/120V ■	240kA	10	3 Ø, Wye, 4-wire+G	TVS21MA24_	150V	20kA	700V	800V	1200V	700V	
480Y/277V ▲	240kA	10	3 Ø, Wye, 4-wire+G	TVS41MA24_	320V	20kA	1200V	1200V	2000V	1200V	
600Y/347V	240kA	10	3 Ø, Wye, 4-wire+G	TVS81MA24_	420V	20kA	1500V	1500V	2500V	1500V	
120/240V	320kA	6	1 Ø, 3-wire+G	TVS11MA32_	150V	20kA	700V	800V	1200V	700V	
208Y/120V ■	320kA	10	3 Ø, Wye, 4-wire+G	TVS21MA32_	150V	20kA	700V	800V	1200V	700V	
480Y/277V ▲	320kA	10	3 Ø, Wye, 4-wire+G	TVS41MA32_	320V	20kA	1200V	1200V	2000V	1200V	
600Y/347V	320kA	10	3 Ø, Wye, 4-wire+G	TVS81MA32_	420V	20kA	1500V	1500V	2500V	1500V	
120/240V	480kA	6	1 Ø, 3-wire+G	TVS11MA48_	150V	20kA	700V	800V	1200V	700V	
208Y/120V ■	480kA	10	3 Ø, Wye, 4-wire+G	TVS21MA48_	150V	20kA	700V	800V	1200V	700V	
480Y/277V ▲	480kA	10	3 Ø, Wye, 4-wire+G	TVS41MA48_	320V	20kA	1200V	1200V	2000V	1200V	
600Y/347V	480kA	10	3 Ø, Wye, 4-wire+G	TVS81MA48_	420V	20kA	1500V	1500V	2500V	1500V	

■ 208Y/120 series also applies to the following voltage 220Y/127

▲ 480Y/277 series also applies to the following voltages 380Y/220, 400Y/230, and 415Y/240

High-Leg Delta (HLD) Configured SPD Specifications

Voltage	Surge Current per Phase	Modes of Protection	Configuration	Model Number	MCOV	I _n	VPR						
							L-N	H-N	L-G	H-G	L-L	H-L	N-G
240/120HLD	120kA	10	3 Ø, HLD*, 4-wire+G	TVS31MA12_	150V	20kA	700V	1200V	800V	1200V	1200V	1500V	700V
240/120HLD	160kA	10	3 Ø, HLD*, 4-wire+G	TVS31MA16_	150V	20kA	700V	1200V	800V	1200V	1200V	1500V	700V
240/120HLD	240kA	10	3 Ø, HLD*, 4-wire+G	TVS31MA24_	150V	20kA	700V	1200V	800V	1200V	1200V	1500V	700V
240/120HLD	320kA	10	3 Ø, HLD*, 4-wire+G	TVS31MA32_	150V	20kA	700V	1200V	800V	1200V	1200V	1500V	700V
240/120HLD	480kA	10	3 Ø, HLD*, 4-wire+G	TVS31MA48_	150V	20kA	700V	1200V	800V	1200V	1200V	1500V	700V

Model numbers not recognized as line items in Schneider Electric ordering system until a suffix code is applied

TYPE 2 WYE AND HLD MODEL NUMBER SUFFIX CODES

P NQ/NF panelboard (Not available in 320 and 480 kA)
 B QED switchboard
 B2 QED series 2 switchboard
 Z PZ3/PZ4 switchgear (Not available in TVS1 or TVS3)
 Q QMB panelboard (Not available in 320 and 480 kA)
 M Motor Control Center (Not available in 320 and 480 kA)

TYPE 1 WYE AND HLD MODEL NUMBER SUFFIX CODES

P1 NQ/NF panelboard (Not available in 320 and 480 kA)
 B1 QED switchboard
 B21 QED series 2 switchboard
 Z1 PZ3/PZ4 switchgear (Not available in TVS1 or TVS3)
 Q1 QMB panelboard (Not available in 320 and 480 kA)
 M1 Motor Control Center (Not available in 320 and 480 kA)

Internal Modular SPDs

Specifications (continued)

Delta Configured SPD Specifications

Voltage	Surge Current per Phase	Modes of Protection	Configuration	Model Number	MCOV	I _n	VPR			
							L-N	L-G	L-L	N-G
240V DELTA	100kA	6	3 Ø, Delta, 3-wire+G	TVS6IMA10_	300V	20kA	N/A	1200V	1200V	N/A
480V DELTA	100kA	6	3 Ø, Delta, 3-wire+G	TVS5IMA10_	640V	20kA	N/A	1800V	2000V	N/A
600V DELTA	100kA	6	3 Ø, Delta, 3-wire+G	TVS9IMA10_	700V	10kA	N/A	2500V	2500V	N/A
240V DELTA	120kA	6	3 Ø, Delta, 3-wire+G	TVS6IMA12_	300V	20kA	N/A	1200V	1200V	N/A
480V DELTA	120kA	6	3 Ø, Delta, 3-wire+G	TVS5IMA12_	640V	20kA	N/A	1800V	2000V	N/A
600V DELTA	120kA	6	3 Ø, Delta, 3-wire+G	TVS9IMA12_	700V	10kA	N/A	2500V	2500V	N/A
240V DELTA	160kA	6	3 Ø, Delta, 3-wire+G	TVS6IMA16_	300V	20kA	N/A	1200V	1200V	N/A
480V DELTA	160kA	6	3 Ø, Delta, 3-wire+G	TVS5IMA16_	640V	20kA	N/A	1800V	2000V	N/A
600V DELTA	160kA	6	3 Ø, Delta, 3-wire+G	TVS9IMA16_	700V	10kA	N/A	2500V	2500V	N/A
600V DELTA	180kA	6	3 Ø, Delta, 3-wire+G	TVS9IMA18_	700V	10kA	N/A	2500V	2500V	N/A
240V DELTA	200kA	6	3 Ø, Delta, 3-wire+G	TVS6IMA20_	300V	20kA	N/A	1200V	1200V	N/A
480V DELTA	200kA	6	3 Ø, Delta, 3-wire+G	TVS5IMA20_	640V	20kA	N/A	1800V	2000V	N/A
600V DELTA	200kA	6	3 Ø, Delta, 3-wire+G	TVS9IMA20_	700V	10kA	N/A	2500V	2500V	N/A
240V DELTA	240kA	6	3 Ø, Delta, 3-wire+G	TVS6IMA24_	300V	20kA	N/A	1200V	1200V	N/A
480V DELTA	240kA	6	3 Ø, Delta, 3-wire+G	TVS5IMA24_	640V	20kA	N/A	1800V	2000V	N/A
600V DELTA	240kA	6	3 Ø, Delta, 3-wire+G	TVS9IMA24_	700V	10kA	N/A	2500V	2500V	N/A
240V DELTA	320kA	6	3 Ø, Delta, 3-wire+G	TVS6IMA32_	300V	20kA	N/A	1200V	1200V	N/A
480V DELTA	320kA	6	3 Ø, Delta, 3-wire+G	TVS5IMA32_	640V	20kA	N/A	1800V	2000V	N/A
600V DELTA	320kA	6	3 Ø, Delta, 3-wire+G	TVS9IMA32_	700V	10kA	N/A	2500V	2500V	N/A
240V DELTA	480kA	6	3 Ø, Delta, 3-wire+G	TVS6IMA48_	300V	20kA	N/A	1200V	1200V	N/A
480V DELTA	480kA	6	3 Ø, Delta, 3-wire+G	TVS5IMA48_	640V	20kA	N/A	1800V	2000V	N/A

Model numbers not recognized as line items in Schneider Electric ordering system until a suffix code is applied

TYPE 2 DELTA MODEL NUMBER SUFFIX CODES

- B** QED switchboard
B2 QED series 2 switchboard
Z PZ3/PZ4 switchgear (Not available in TVS1 or TVS3)

TYPE 1 DELTA MODEL NUMBER SUFFIX CODES

- B1** QED switchboard
B21 QED series 2 switchboard
Z1 PZ3/PZ4 switchgear (Not available in TVS1 or TVS3)

Internal Modular SPDs

Specifications (continued)

High Resistance Ground (HRG) Configured SPD Specifications

Voltage	Surge Current per Phase	Modes of Protection	Configuration	Model Number	MCOV	I_n	VPR			
							L-N	L-G	L-L	N-G
480Y/277V ▲	100kA	6	3 Ø, HRG, 3-wire+G	TVS4HIMA10_	550V L-G, 640V L-L	20kA	N/A	1800V	2000V	N/A
600Y/347V	100kA	6	3 Ø, HRG, 3-wire+G	TVS8HIMA10_	700V L-G, 700V L-L	10kA	N/A	2500V	2500V	N/A
480Y/277V ▲	120kA	6	3 Ø, HRG, 3-wire+G	TVS4HIMA12_	550V L-G, 640V L-L	20kA	N/A	1800V	2000V	N/A
600Y/347V	120kA	6	3 Ø, HRG, 3-wire+G	TVS8HIMA12_	700V L-G, 700V L-L	10kA	N/A	2500V	2500V	N/A
480Y/277V ▲	160kA	6	3 Ø, HRG, 3-wire+G	TVS4HIMA16_	550V L-G, 640V L-L	20kA	N/A	1800V	2000V	N/A
600Y/347V	160kA	6	3 Ø, HRG, 3-wire+G	TVS8HIMA16_	700V L-G, 700V L-L	10kA	N/A	2500V	2500V	N/A
600Y/347V	180kA	6	3 Ø, HRG, 3-wire+G	TVS8HIMA18_	700V L-G, 700V L-L	10kA	N/A	2500V	2500V	N/A
480Y/277V ▲	200kA	6	3 Ø, HRG, 3-wire+G	TVS4HIMA20_	550V L-G, 640V L-L	20kA	N/A	1800V	2000V	N/A
600Y/347V	200kA	6	3 Ø, HRG, 3-wire+G	TVS8HIMA20_	700V L-G, 700V L-L	10kA	N/A	2500V	2500V	N/A
480Y/277V ▲	240kA	6	3 Ø, HRG, 3-wire+G	TVS4HIMA24_	550V L-G, 640V L-L	20kA	N/A	1800V	2000V	N/A
600Y/347V	240kA	6	3 Ø, HRG, 3-wire+G	TVS8HIMA24_	700V L-G, 700V L-L	10kA	N/A	2500V	2500V	N/A
480Y/277V ▲	320kA	6	3 Ø, HRG, 3-wire+G	TVS4HIMA32_	550V L-G, 640V L-L	20kA	N/A	1800V	2000V	N/A
600Y/347V	320kA	6	3 Ø, HRG, 3-wire+G	TVS8HIMA32_	700V L-G, 700V L-L	10kA	N/A	2500V	2500V	N/A
480Y/277V ▲	480kA	6	3 Ø, HRG, 3-wire+G	TVS4HIMA48_	550V L-G, 640V L-L	20kA	N/A	1800V	2000V	N/A

■ 208Y/120 series also applies to the following voltage 220Y/127

▲ 480Y/277 series also applies to the following voltages 380Y/220, 400Y/230, and 415Y/240

Model numbers not recognized as line items in Schneider Electric ordering system until a suffix code is applied

TYPE 2 HRG MODEL NUMBER SUFFIX CODES

- M** Motor Control Center (Not available in 320 and 480 kA; 600Y/347V HRG not available in 200, 240, 320kA)
B QED switchboard
B2 QED series 2 switchboard
Z PZ3/PZ4 switchgear (Not available in TVS1 or TVS3)

TYPE 1 HRG MODEL NUMBER SUFFIX CODES

- M1** Motor Control Center (Not available in 320 and 480 kA; 600Y/347V HRG not available in 200, 240, 320kA)
B1 QED switchboard
B21 QED series 2 switchboard
Z1 PZ3/PZ4 switchgear (Not available in TVS1 or TVS3)

SPD OPTIONS

Remote Monitor TVS12RMU

Schneider Electric USA, Inc.

1751 S. 4800 W.
 Salt Lake City, UT 84104
 Telephone: (801)-977-9009
 www.surgeologic.com

Schneider Electric México, S.A. de C.V.

Calz. J. Rojo Gómez 1121-A
 Col. Gpe. del Moral 09300 México, D.F.
 Tel. 55-5804-5000
 www.schneider-electric.com.mx

Schneider Electric Canada, Inc.

5985 McLaughlin Road
 Mississauga, ON L5R 1B8 Canada
 Tel: 1-800-565-6699
 www.schneider-electric.ca

Shop Drawing Submittal Review

Transmitted To: Cannon Design

Date: July 19, 2016

Attention: stl-cac@cannondesign.com

Contact Person / WTA Field Inspector:
Patrick Garner

Project Name: Webster University-**ISB**

Reviewed by: Bill Shaw

Project No. WT 14127.01

☐

UPS

☐

Courier

☒

Email

Copies	No.	Description
1 PDF	264000E01	(Submittal No. 264000-001) Electrical Distribution

Submittal Review Comments

Circuit breaker size and position shall match panel schedules on sheets E0503, 504, 505, & 506.

c: Kelvin Patel
Kpatel@cannondesign.com

☐ Furnish as Submitted

☐ Furnish as Noted

☐ Rejected

☒ ***Revise & Resubmit**

☐ Reviewed

☐

Corrections or comments made on shop drawings during this review do not relieve contractor from compliance with requirements of drawings and specifications. This check is only for review of general conformance with the design concept of project and general compliance with information given in contract documents. Contractor is responsible for: confirming and correlating all quantities and dimensions; selecting fabrication processes and techniques of construction; coordinating his work with that of all other trades; and performing his work in a safe and satisfactory manner.

WTASHOP - Webster ISB - 26 4000-001

From: STL-CAC <STL-CAC@CANNONDESIGN.COM>
To: 'Patrick Garner' <pgarner@wmtao.com>, WTASHOP <wtashop@wmtao.com>
Date: 7/5/2016 11:40 AM
Subject: Webster ISB - 26 4000-001
Cc: "Patel, Kelvin" <kpatel@CANNONDESIGN.COM>, "Grossman, Lynn" <lgrossman@C...>
Attachments: 264000-001 Electrical Distribution.pdf

Attached for review.

Melissa Pirtle
Construction Admin

CANNONDESIGN

1100 Clark Ave
St. Louis, Missouri 63102
T [314.425.8797](tel:314.425.8797) • M
cannondesign.com



77 Westport Plaza
Suite 250
St. Louis, MO 63146

TRANSMITTAL

No. 15051-0114

Paric Corporation

PROJECT: 15051-Webster University Interdisciplinary Science Building

DATE: 07/05/2016

TO: Cannon Design
1100 Clark Ave
St Louis MO 63102

RE: Electrical Distribution

ATTN: Kelvin Patel

JOB: 15051

WE ARE SENDING:	SUBMITTED FOR:	ACTION TAKEN:
☐ Shop Drawings	☒ Approval	☐ Approved as Submitted
☐ Letter	☐ Your Use	☐ Approved as Noted
☐ Prints	☐ As Requested	☐ Returned After Loan
☐ Change Order	☐ Review and Comment	☐ Resubmit
☐ Plans		☐ Submit
☐ Samples	SENT VIA:	☐ Returned
☐ Specifications	☐ Attached	☐ Returned for Corrections
☒ Other: Product Data	☐ Separate Cover Via:	☐ Due Date:

Item	Package	Code	Rev.	Copies	Date	Description	Status
Submittal		264000-001	1		07/05/2016	Electrical Distribution	Submitted

NOTES:

CC: Paric Corporation, Kathy Bathe

Project Coordinator: Paric Corporation, Kathy Bathe

Signed: _____
Devin Gates

Transmittal

To Paric Corporation

Date 7/1/16

Job Number 11317

Job Name Webster Univ. ISB Building

Attention Devin Gates

Transmittal Number 11317-005

We are sending you:

☒ Attached

☐ Under separate cover, the following:

☐ Preliminary Drawings

☐ Samples

☐ Construction Drawings

☐ Copy of Letter

☐ Specifications

☐ Other _____

Quantity	Drawing #	Date/Revision	Description
1			Submittal for Distribution - Spec Section
			26 40 00

These are transmitted as checked:

☒ For Your Review & Comment

☐ Approved As Noted

☒ For Approval

☐ Returned For Corrections

☐ For Your File

☐ Approved As Submitted

☐ As Requested

Copy:

Transmittal

Enclosure

Rick Branstetter

Signed: Rick Branstetter, Project Manager

Webster University ISB

Approval Drawing Package

Factory Order #: 37999262

06/13/2016

Distributor:
Graybar

Contractor/Installer:
Guarantee Electric / TD4

Consulting Engineer:
Wm Tao & Associates

Lou Feldhaus
Sales Representative

Jake Kaufman
Project Manager
North American Operating Division
(636) 329-2265
jacob.kaufman@schneider-electric.com

Life Is On

Schneider
Electric

TABLE OF CONTENTS

UNIT SUBSTATIONS

BILL OF MATERIALS AND DRAWINGS

UNIT SUBSTATION 1: US-1

METAL-ENCLOSED SWITCHGEAR: US-1

POWER-DRY II TRANSFORMER: US-1

SWITCHBOARD: US-1

UNIT SUBSTATION LITERATURE

Unit Substation Brochure

HVL 5...38 kV Load Interrupter Switchgear - Brochure

Power Dry II- Dry-Type, Small Power Transformer Brochure

Model 98A Digital Temperature Controller For Medium Voltage Transformers

Power-Style QED-2 Switchboard Brochure

Internal Modular SPD Brochure

PowerLogic PM8000 Series Intermediate Metering Technical Data Sheet

NW Breaker Brochure

Micrologic Trip Units for Masterpact Circuit Breakers Brochure

INTEGRATED POWER CENTERS

BILL OF MATERIALS AND DRAWINGS

SB1

SB2

1EH1 - 1EL1

1EL1

1SH1 - 1SL1

LITERATURE

Integrated Power Center 2 (IPC2)

PANELBOARDS

PANELBOARD SCHEDULE AND DRAWINGS

LITERATURE

I-Line Panelboard Handout

NF Panelboard Handout

NQ Panelboard Handout

I-Line SPD

Internal Modular SPD Brochure

SurgeLoc SPD for NQ Panelboards

CONTACTORS AND STARTERS

BILL OF MATERIALS AND DRAWINGS

8538SCG

8538SCA - EF-1

8538SCA - KEF-1

2510FG

LITERATURE

Manual Starters - Type F

Manual Starters - Type M and T

8538 Combination Starter Catalog

SAFETY SWITCHES

BILL OF MATERIALS AND DRAWINGS

D211N

H365

HU361

H361

HU362

POWER MONITORING AND CONTROL

BILL OF MATERIALS

LITERATURE

MCTAS-485 Terminator

FUSE

BILL OF MATERIALS

LITERATURE

LPJ Fuses 1 - 60 Amps

LPJ Fuses 70 - 600 Amps