

## Surge Protection Device - Surge Protective Device, 7-Mode, 120/240 VAC 3Ph High Leg Delta, Type 2, EMI/RFI Filter, Surge Current Rating 200kA

Item H20S23D1DG1



### PRODUCT DESCRIPTION

Intermatic PANELGUARD® Surge Protective Devices are designed to react quickly and eliminate surges providing optimal protection to downstream equipment. PANELGUARD Industrial/Commercial-grade series are Parallel Connected Surge Protective Devices designed to protect all types of loads fed from individual disconnects, sub-panels, distribution panels and service entrance locations.

### FEATURES

- ▶ Type 2 surge protection
- ▶ Optional audible alarm and dry relay contacts
- ▶ 7 Modes of protection
- ▶ NFPA 780, UL 96A Lightning system protection compliant
- ▶ NEMA 4X enclosure for indoor or outdoor installation
- ▶ Individually integrated disconnect TPMOV surge protection technology
- ▶ Optional advanced electrical noise filter (UL 1283)
- ▶ Blue LED status indicator per phase, red LED service indicator
- ▶ UL Listed to ANSI/UL 1449 4th edition

### APPLICATIONS

- ▶ Distribution Panel
- ▶ Service Entrance

### TECHNICAL DATA

#### General

Model Number	H20S23D1DG1
Description	Surge Protective Device, 7-Mode, 120/240 VAC 3Ph High Leg Delta, Type 2, EMI/RFI Filter, Surge Current Rating 200kA
UPC Code	078275152212
Brand	Intermatic
Country of Origin (Intermatic)	U.S.A.
Warranty Period	10-Year limited

#### Electrical Specifications

Modes of Protection	7
Short Circuit Current Rating	200 kA
Nominal Discharge Current	20 kA
Maximum Surge Current Rating Per Phase	200 kA
Maximum Surge Current Rating Per Mode	100 kA
Surge Protection Technology	Individually integrated thermal disconnect technology TPMOV
AC Sinewave Tracking (EMI/RFI) Level	Sinewave tracking (EMI/RFI) level is up to 54 dB from 2 kHz to 100 MHz
Maximum Continuous Operating Voltage HG	300
Maximum Continuous Operating Voltage HL	300
Maximum Continuous Operating Voltage (L-G)	150
Maximum Continuous Operating Voltage (L-L)	300
Maximum Continuous Operating Voltage (L-N)	150
Maximum Continuous Operating Voltage (N-G)	150

Voltage Protection Rating HG	1200
Voltage Protection Rating HL	2000
Voltage Protection Rating HN	1200
Voltage Protection Rating (L-G)	700
Voltage Protection Rating (L-L)	1200
Voltage Protection Rating (L-N)	800
Voltage Protection Rating (N-G)	700
Voltage	120/240 VAC 3-Phase High Leg Delta

### Control Specifications

Surge Protection Type	2
Surge Protection LED Indicator	Yes

### Mechanical Specifications

Enclosure Type	NEMA Type 4X
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### Dimensions

Product Dimensions (H x W x D) in	10.59 x 5.25 x 3.29 in
Wire Lead Length (in)	18"
Wire Size Max	#10 AWG
Conduit Size	3/4"

### Material Specifications

Color	Gray
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### Diagnostics Monitoring

Diagnostics Indicator	Blue LED Status Indicator Per Phase; Red LED Service Indicator
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### Benefits

Filter	EMI/RFI Filter
Maximum Continuous Operating Voltage HN	300

### Packaging

Shipping Weight (lbs)	0.6
Unit Carton Dimensions (H x W x L) in	4.375 x 6.375 x 12.625 in
Product Weight (kg)	0.27
Product Weight (lbs)	0.6

### Environmental Specifications

Temperature (operation)	-40 °F to 176 °F / (-40 °C to 80 °C)
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### Standards and Certifications

UL Certification	ANSI/UL 1283; UL
CSA Certification	CSA C22.2 No. 269.2-13, and No. 8-13 (VZCA, VZCA7, FOKY, KOKY7)

Other Certifications and Compatibilities  
 2020 National Electric Code, Article 242 (previously NEC, Art. 285), 700.10 & 708.20;  
 ANSI/IEEE C62.72-2016, ANSI/IEEE C62.41.1, C62.41.2-2002; C62.45-2002, ANSI/IEEE  
 C62.62-2010 environments: Categories: A, B & C; NFPA 780 & UL 96A Lightning protection

systems

UL Standard	Ansi/UL 1449 4th Edition
California Proposition 65	Lead
RoHS Certification	Yes

**DRAWINGS AND DIAGRAMS**

