

Surge Protection Device - Surge Protective Device, 7-Mode, 120/208 VAC 3Ph Y, Type 2, EMI/RFI Filter, Surge Current Rating 200kA

Item H20S23Y1DG1



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

APPLICATIONS

- ▶ Distribution Panel
- ▶ Service Entrance

TECHNICAL DATA

| General                                    |                                                                                                        |
|--------------------------------------------|--------------------------------------------------------------------------------------------------------|
| Model Number                               | H20S23Y1DG1                                                                                            |
| Description                                | Surge Protective Device, 7-Mode, 120/208 VAC 3Ph Y, Type 2, EMI/RFI Filter, Surge Current Rating 200kA |
| UPC Code                                   | 078275152250                                                                                           |
| 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 (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 (L-G)            | 700                                                                                                    |
| Voltage Protection Rating (L-L)            | 1200                                                                                                   |
| Voltage Protection Rating (L-N)            | 700                                                                                                    |

|                                 |                         |
|---------------------------------|-------------------------|
| Voltage Protection Rating (N-G) | 700                     |
| Voltage                         | 120/208 VAC 3-Phase Wye |

Control Specifications

|                                |     |
|--------------------------------|-----|
| Surge Protection Type          | 2   |
| Surge Protection LED Indicator | Yes |

Mechanical Specifications

|                |              |
|----------------|--------------|
| Enclosure Type | NEMA Type 4X |
|----------------|--------------|

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 |
|-------|------|

Diagnostics Monitoring

|                       |                                                                |
|-----------------------|----------------------------------------------------------------|
| Diagnostics Indicator | Blue LED Status Indicator Per Phase; Red LED Service Indicator |
|-----------------------|----------------------------------------------------------------|

Benefits

|        |                |
|--------|----------------|
| Filter | EMI/RFI Filter |
|--------|----------------|

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) |
|-------------------------|--------------------------------------|

Standards and Certifications

|                                          |                                                                                                                                                                                                                                                                       |
|------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| UL Certification                         | ANSI/UL 1283; ANSI/UL 1449 4th Edition                                                                                                                                                                                                                                |
| 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 |
| California Proposition 65                | Lead                                                                                                                                                                                                                                                                  |
| RoHS Certification                       | Yes                                                                                                                                                                                                                                                                   |

DRAWINGS AND DIAGRAMS

