

Surge Protection Device - Surge Protective Device, 7-Mode, 120/240 VAC 3Ph High Leg Delta, Type 2, EMI/RFI Filter, Audible Alarm, Form C Contact, Surge Current Rating 100kA

Item H10S23D1DG2



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 5th Edition

APPLICATIONS

- ▶ Distribution Panel
- ▶ Service Entrance

TECHNICAL DATA

| General                                    |                                                                                                                                                    |
|--------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------|
| Model Number                               | H10S23D1DG2                                                                                                                                        |
| Description                                | Surge Protective Device, 7-Mode, 120/240 VAC 3Ph High Leg Delta, Type 2, EMI/RFI Filter, Audible Alarm, Form C Contact, Surge Current Rating 100kA |
| UPC Code                                   | 078275152069                                                                                                                                       |
| 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     | 100 kA                                                                                                                                             |
| Maximum Surge Current Rating Per Mode      | 50 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 HN    | 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               | 1800                               |
| Voltage Protection Rating HN               | 1200                               |
| 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                                    | 120/240 VAC 3-Phase High Leg Delta |

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

| Mechanical Specifications |              |
|---------------------------|--------------|
| Enclosure Type            | NEMA Type 4X |

| 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; Audible Alarm Indicator; Form C Dry Relay Contacts |

| 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 (lbs)                  | 0.6                       |
| Product Weight (kg)                   | 0.27                      |

| Environmental Specifications |                                      |
|------------------------------|--------------------------------------|
| Temperature (operation)      | -40 °F to 176 °F / (-40 °C to 80 °C) |
| Filter                       | EMI/RFI Filter                       |

| Standards and Certifications             |                                                                                                                                                                                                                                                                                     |
|------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| UL Certification                         | cULus                                                                                                                                                                                                                                                                               |
| 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; Green Energy |
| UL Standard                              | ANSI/UL 1449 5th Edition                                                                                                                                                                                                                                                            |
| California Proposition 65                | Lead                                                                                                                                                                                                                                                                                |



|                    |   |
|--------------------|---|
| RoHS Certification | Y |
|--------------------|---|