

Surge Protection Device - Surge Protective Device, 7-Mode, 277/480 VAC 3Ph Y, Type 2, EMI/RFI Filter, Audible Alarm, Form C Contact, Surge Current Rating 200kA

Item H20S23Y2DG2



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 | H20S23Y2DG2 |
| Description | Surge Protective Device, 7-Mode, 277/480 VAC 3Ph Y, Type 2, EMI/RFI Filter, Audible Alarm, Form C Contact, Surge Current Rating 200kA |
| UPC Code | 078275152304 |
| Brand | Intermatic |
| Country of Origin (Intermatic) | U.S.A. |
| Warranty Period | 10-Year limited |

Electrical Specifications

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|--|--|
| 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) | 320 |
| Maximum Continuous Operating Voltage (L-L) | 640 |
| Maximum Continuous Operating Voltage (L-N) | 320 |
| Maximum Continuous Operating Voltage (N-G) | 320 |
| Voltage Protection Rating (L-G) | 1200 |
| Voltage Protection Rating (L-L) | 2500 |

| | |
|---------------------------------|-------------------------|
| Voltage Protection Rating (L-N) | 1200 |
| Voltage Protection Rating (N-G) | 1200 |
| Voltage | 277/480 VAC 3-Phase Wye |

Control Specifications

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

Mechanical Specifications

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

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

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| Color | Gray |
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Diagnostics Monitoring

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| Diagnostics Indicator | Blue LED Status Indicator Per Phase; Red LED Service Indicator; Audible Alarm Indicator; Form C Dry Relay Contacts |
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Benefits

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| Filter | EMI/RFI Filter |
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Packaging

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

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|-------------------------|--------------------------------------|
| Temperature (operation) | -40 °F to 176 °F / (-40 °C to 80 °C) |
|-------------------------|--------------------------------------|

Standards and Certifications

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| 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

