

OVRHSP-80

Facility Wide Protection – 400A and below



Product features

- UL Listed 1449 4th edition for Type 1 and Type 2 SPD applications.
- Fail-safe design with individually fused Metal Oxide Varistors (MOVs) eliminating single point failure, protecting against both overcurrent and overvoltage events.
- 200kAIC short circuit rating permits direct bus connection to most electrical services.
- Low let through voltage ensured by the lowest possible impedance path to ground and equal current sharing during surge events.
- All weather sealed, powder-coated NEMA 4/IP65 housing is designed for any orientation and indoor/outdoor applications.
- 10-year standard warranty.

Available configurations

| Model number | Voltage | Configuration |
|---------------|----------|-----------------------------------|
| OVRHSP801201P | 120V | 1-phase, 2-wire + ground |
| OVRHSP802401P | 240V | 1-phase, 2-wire + ground |
| OVRHSP801202S | 120/240V | 2-phase, 3-wire + ground |
| OVRHSP801203Y | 120/208V | 3-phase Wye, 4-wire + ground |
| OVRHSP802203Y | 220/380V | 3-phase Wye, 4-wire + ground |
| OVRHSP802403Y | 240/415V | 3-phase Wye, 4-wire + ground |
| OVRHSP802773Y | 277/480V | 3-phase Wye, 4-wire + ground |
| OVRHSP802403H | 120/240V | 3-phase High-Leg, 4-wire + ground |
| OVRHSP802403D | 240V | 3-phase Delta, 3-wire + ground |

Product specifications

| Electrical | |
|----------------------------------------|---------------------------------------------------------------------------------|
| Maximum surge current rating | 80kA per phase, 40kA per mode |
| Nominal discharge current rating (I-n) | 10kA |
| Operating frequency | 47–63Hz |
| Connection method | Parallel to electrical distribution system |
| Modes of protection | All Modes (L-N, L-G, N-G, L-L) |
| Fault rating (SCCR) | 200kAIC – no upstream over-current protection device (breaker or fuse) required |
| Response time | Less than 1 nanosecond |
| Standard monitoring | Status indicator lights (one per phase) |
| Mechanical | |
| Weight | 4.5 kg (10 lbs.) |
| Enclosure type | Powder coated, impact-resistance steel, weather-proof NEMA 4 |
| Installation location | Indoor/outdoor |
| Mounting method | Dual mounting flanges |
| Operating environment | -40° to +70°C (-40° to +185°F) |
| Altitude | Up to 4000 m (13,000 ft.) |
| Product design | Parallel design with individually fused MOVs |
| Regulatory | |
| UL 1449 4th edition | Type 1 |
| UL 1283 | Yes |
| IEEE C62.41.1, .2, C62.45 | Yes |
| Listed by | ETL |
| EMI/RFI filter attenuation | |
| Max. attenuation frequency | 41dB @ 106kHz |
| Warranty | |
| | 10-years |

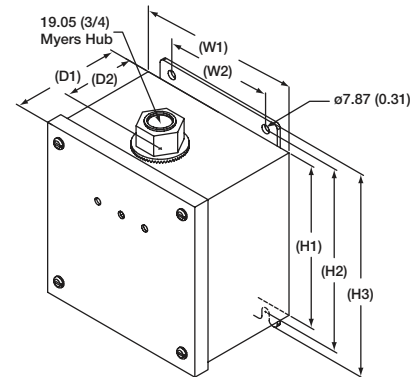


| Available options* | Suffix number |
|--------------------------------------------------------------------------------------------------------|----------------------|
| Advanced monitoring (Includes dry relay contacts, audible alarm, alarm silence button, fault light) | 1 |
| Transient filter (meets UL 1283) Not recommended when using telecommunication rectifiers. | 3 |
| Stainless steel enclosure | 4 |
| Advanced monitoring and transient filter | A |
| Transient filter and stainless steel enclosure | C |

*Add applicable suffix to the end of Model number.
Example: OVRHSP801201P1

| Stand alone option (To be ordered as a separate item) | |
|--------------------------------------------------------------|------------|
| Flush-mount plate kit | OVRHSP-FMP |

Dimensional specifications



| Dim | Millimeters (Inches) |
|------------|-----------------------------|
| H1 | 152.4 (6.00) |
| H2 | 171.5 (6.75) |
| H3 | 190.5 (7.50) |
| W1 | 152.4 (6.00) |
| W2 | 101.6 (4.00) |
| D1 | 105.7 (4.16) |
| D2 | 50.8 (2.00) |

Performance data

| Model number | Protection mode | MCOV | ANSI/IEEE C62.41.1-2002, C62.41.2-2002, & C62.45-2002 measured limiting voltage | | | |
|---------------|-----------------|------|------------------------------------------------------------------------------------|------------------------------|-----------------------------|-------------------------------------|
| | | | B3 ring wave 6kV, 500A | B3/C1 combo wave 6kV, 3kA | C3 combo wave 20kV, 10kA | UL 1449 4th edition 6kV, 3kA VPR |
| OVRHSP801201P | L-N | 150V | 202V | 587V | 1078V | 600V |
| | L-G | 150V | 529V | 564V | 1157V | 600V |
| | N-G | 150V | 548V | 594V | 1180V | 600V |
| OVRHSP802401P | L-N | 320V | 180V | 1036V | 1553V | 1200V |
| | L-G | 320V | 855V | 989V | 1483V | 1200V |
| | N-G | 150V | 840V | 989V | 1470V | 1200V |
| OVRHSP801202S | L-N | 150V | 202V | 587V | 1078V | 600V |
| | L-G | 150V | 529V | 564V | 1157V | 600V |
| | L-L | 300V | 290V | 1029V | 1667V | 1000V |
| | N-G | 150V | 548V | 594V | 1180V | 600V |
| OVRHSP801203Y | L-N | 150V | 202V | 587V | 1078V | 600V |
| | L-G | 150V | 529V | 564V | 1157V | 600V |
| | L-L | 300V | 290V | 1029V | 1667V | 1000V |
| | N-G | 150V | 548V | 594V | 1180V | 600V |
| OVRHSP802203Y | L-N | 320V | 180V | 1036V | 1553V | 1200V |
| | L-G | 320V | 855V | 989V | 1483V | 1200V |
| | L-L | 600V | 261V | 1847V | 2520V | 2000V |
| | N-G | 150V | 840V | 989V | 1470V | 1200V |
| OVRHSP802403Y | L-N | 320V | 180V | 1036V | 1553V | 1200V |
| | L-G | 320V | 855V | 989V | 1483V | 1200V |
| | L-L | 600V | 261V | 1847V | 2520V | 2000V |
| | N-G | 150V | 840V | 989V | 1470V | 1200V |
| OVRHSP802773Y | L-N | 320V | 180V | 1036V | 1553V | 1200V |
| | L-G | 320V | 855V | 989V | 1483V | 1200V |
| | L-L | 600V | 261V | 1847V | 2520V | 2000V |
| | N-G | 150V | 840V | 989V | 1470V | 1200V |
| OVRHSP802403H | L-N | 150V | 202V | 587V | 1078V | 600V |
| | H-N | 320V | 180V | 1036V | 1553V | 1200V |
| | L-G | 150V | 529V | 564V | 1157V | 600V |
| | H-G | 320V | 855V | 989V | 1483V | 1200V |
| | L-L | 300V | 290V | 1029V | 1667V | 1000V |
| | H-L | 470V | 840V | 1250V | 1640V | 1500V |
| | N-G | 150V | 548V | 594V | 1180V | 600V |
| | N-L | 150V | 548V | 594V | 1180V | 600V |
| OVRHSP802403D | L-G | 320V | 855V | 989V | 1553V | 1200V |
| | L-L | 300V | 855V | 989V | 1553V | 1000V |

All OVRHSP systems measured limited voltages are peak values ($\pm 10\%$) measured from the zero reference point and are in compliance with test and evaluation procedures outlined in NEMA LS1-1992 (2000), paragraphs 2.210 and 3.10.

ABB Power Protection LLC

EPSB

Low Voltage Products

5900 Eastport Blvd.

Richmond, VA 23231, USA

new.abb.com/low-voltage/products

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