OVRHSP-160

Facility Wide Protection – 1,000A 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
OVRHSP1601201P	120V	1-phase, 2-wire + ground
OVRHSP1602401P	240V	1-phase, 2-wire + ground
OVRHSP1601202S	120/240V	2-phase, 3-wire + ground
OVRHSP1601203Y	120/208V	3-phase Wye, 4-wire + ground
OVRHSP1602203Y	220/380V	3-phase Wye, 4-wire + ground
OVRHSP1602403Y	240/415V	3-phase Wye, 4-wire + ground
OVRHSP1602773Y	277/480V	3-phase Wye, 4-wire + ground
OVRHSP1603473Y	347/600	3-phase Wye, 4-wire + ground
OVRHSP1602403H	120/240V	3-phase High-Leg, 4-wire + ground
OVRHSP1602403D	240V	3-phase Delta, 3-wire + ground
OVRHSP1603803D	380V	3-phase Delta, 3-wire + ground
OVRHSP1604803D	480V	3-phase Delta, 3-wire + ground
OVRHSP1606003D	600V	3-phase Delta, 3-wire + ground

Product specifications

Electrical	
Maximum surge current rating	160kA per phase, 80kA per mode
Nominal discharge current rating (I-n)	20kA
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)
	Standard dry (Form “C”) relay contacts
	Audible alarm with silence button
Mechanical	
Weight	9 kg (20 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	UL
EMI/RFI filter attenuation	
Max. attenuation frequency	41dB @ 106kHz
Warranty	10-years

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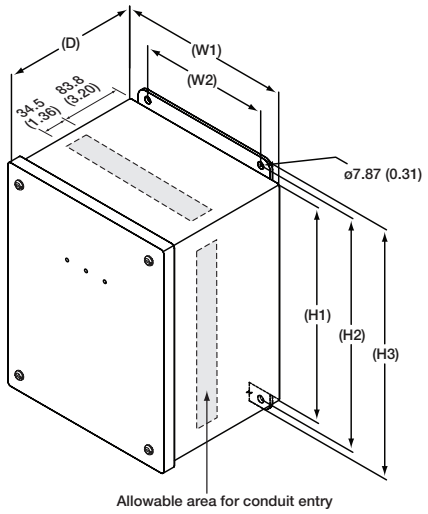
RoHS Compliant

Available options*	**Suffix number**
Surge counter	2
Transient filter (meets UL 1283) Not recommended when using telecommunication rectifiers.	3
Stainless steel enclosure	4
Transient filter and surge counter	B
Transient filter and stainless steel enclosure	C
Surge counter and stainless steel enclosure	D
Transient filter, surge counter and stainless steel enclosure	T

*Add applicable suffix to the end of Model number.
Example: OVRHSP1601201P2

Dimensional specifications



Dim	**Millimeters (Inches)**
H1	254.0 (10.00)
H2	273.1 (10.75)
H3	292.1 (11.50)
W1	203.2 (8.00)
W2	152.4 (6.00)
D	157.5 (6.20)

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
OVRHSP1601201P	L-N	150V	440V	629V	1413V	700V
	L-G	150V	496V	640V	1360V	700V
	N-G	150V	464V	624V	1360V	700V
OVRHSP1602401P	L-N	320V	347V	525V	1069V	1000V
	L-G	320V	1145V	565V	1117V	1000V
	N-G	320V	1090V	507V	930V	1000V
OVRHSP1601202S	L-N	150V	440V	629V	1413V	700V
	L-G	150V	496V	640V	1360V	700V
	L-L	300V	544V	971V	1707V	1200V
	N-G	150V	464V	624V	1360V	700V
OVRHSP1601203Y	L-N	150V	440V	629V	1413V	700V
	L-G	150V	496V	640V	1360V	700V
	L-L	300V	544V	971V	1707V	1200V
	N-G	150V	464V	624V	1360V	700V
OVRHSP1602203Y	L-N	320V	347V	525V	1069V	1000V
	L-G	320V	1145V	565V	1117V	1000V
	L-L	640V	491V	860V	1443V	1800V
	N-G	320V	1090V	507V	930V	1000V
OVRHSP1602403Y	L-N	320V	347V	525V	1069V	1000V
	L-G	320V	1145V	565V	1117V	1000V
	L-L	640V	491V	860V	1443V	1800V
	N-G	320V	1090V	507V	930V	1000V
OVRHSP1602773Y	L-N	320V	347V	525V	1069V	1000V
	L-G	320V	1145V	565V	1117V	1000V
	L-L	640V	491V	860V	1443V	1800V
	N-G	320V	1090V	507V	930V	1000V
OVRHSP1603473Y	L-N	420V	715V	1250V	1910V	1500V
	L-G	420V	829V	1340V	1960V	1500V
	L-L	840V	1130V	2300V	2910V	2500V
	N-G	420V	670V	1230V	1880V	1500V
OVRHSP1602403H	L-N	150V	440V	629V	1413V	700V
	H-N	320V	347V	525V	1069V	1000V
	L-G	150V	496V	640V	1360V	700V
	H-G	320V	1145V	565V	1117V	1000V
	L-L	300V	544V	971V	1707V	1000V
	H-L	470V	980V	1250V	1640V	1500V
	N-G	150V	512V	568V	1090V	800V
OVRHSP1602403D	L-G	320V	759V	982V	1630V	1000V
	L-L	320V	640V	1070V	1550V	1000V
OVRHSP1603803D	L-G	550V	1050V	1500V	2260V	1800V
	L-L	550V	860V	1720V	2340V	1800V
OVRHSP1604803D	L-G	550V	1050V	1500V	2260V	1800V
	L-L	550V	860V	1720V	2340V	1800V
OVRHSP1606003D	L-G	750V	1260V	1960V	2760V	2500V
	L-L	750V	1070V	2260V	2950V	2500V

All OVRHSP systems measured limited voltages are peak values (±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.

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