Product datasheet

OVRHS3 (-TNC, -TNS, -TT, -IT)
Surge protective devices
Medium duty for residential or industrial applications

Product features

– Listed to UL 1449 4th edition for Type 2 SPD applications.

– Individual fusing for each Metal Oxide Varistors (MOVs).

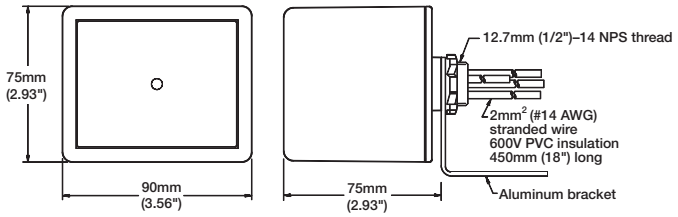
– There is a OVRHS3 model for each power system configuration (neutral grounding practice) as defined in EN60950:

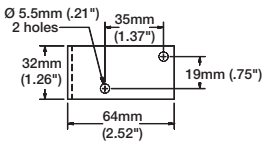
For TNC grounded systems use “I” suffix – Neutral and PE (protected earth conductor) are combined throughout the system while TNCS splits the combined PEN into a separate neutral and PE at the service entry; the U.S. practice is a variation of this. The neutral is earthed at the transformer for both types. The model OVHRS3402301P1 is suited for both I and TNCS systems.

For TNS grounded systems use “J” suffix – Neutral is earthed at the transformer; however, is not bonded to earth or the PE elsewhere. The PE is carried to the site from the transformer and bonded to site earth. Model OVRHS3402301PJ is intended for use on this system; it can also be used on TNCS as well as on U.S. 120/240V services without the neutral.

For TT grounded systems use “L” suffix – Neutral is earthed at the transformer. The PE originates at site; however, is not bonded to the neutral. There is no interconnection between the PE and transformer earth. The OVRHS3402301PL is for use on this system; it can also be employed upon J, TNCS and U.S. services without neutral.

For IT and IT-L grounded systems use “K” suffix – The transformer is unearthed or earthed through high impedance. The PE originates at site; however, is not bonded to a service conductor. No conductor in this system is designated as neutral. The OVRHS3402301PK is suited for this application; it can also be used on L, J, TNCS and U.S. services without neutral power systems.





Bracket detail

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Product specifications

Available configurations

Model number/ Product ID	kA per phase	Voltage	Configuration
OVRHS3402301PI 2CJB404230I0000	40kA	230V	1-phase, 2-wire + ground (TNC)
OVRHS3402301PJ 2CJB404230J0000	40kA	230V	1-phase, 2-wire + ground (TNS)
OVRHS3402301PL 2CJB404230L0000	40kA	230V	1-phase, 2-wire + ground (TT)
OVRHS3402301PK 2CJB404230K0000	40kA	230V	1-phase, 2-wire + ground (IT, IT-L)

"I" for TNC grounded systems

"J" for TNS grounded systems

"L" for TT grounded systems

"K" for IT and IT-L grounded systems

Available option	Model number*	Product ID*
Mounting bracket	6	6

Warranty

1-year

*Add applicable suffix to the end of Model number and after the "I, J, L, or K" in the Product ID.

Examples: Model number OVRHS3402301PI6

Product ID 2CJB404230I60000

Electrical	
Nominal discharge current rating (I-n)	20kA
Operating frequency	50–60Hz
Connection methods	Parallel to load (shunt) 2mm² (#14 AWG) wires 30A max breaker
Modes of protection	Model dependent
Fault rating (SCCR)	100kAIC
Response time	Less than 1 nanosecond (one per phase)
Standard monitoring	LED status indicator lights

Mechanical	
Weight	.9 kg (2 lbs.)
Enclosure type	NEMA 1, non-metallic
Installation location	Indoor
Mounting method	12.7mm (1/2")–14 NPT thread (Aluminum bracket optional)
Operating environment	-40° to +80°C (-40° to +176°F)
Altitude	Up to 5000 m (16,400 ft.)
Product design	Individually fused MOVs Overcurrent fusing Thermal fusing

Regulatory	
UL 1449 4th edition type	Type 2
UL 1283	No
IEEE C62.41.1, .2, C62.45	Yes
Listed by	UL

c UL us LISTED

RoHS Compliant

Performance data

Model number	Protection mode	MCOV	UL 1449 4th edition 6kV, 3kA VPR
OVRHS3402301PI	L-N	300	1200
	N-G	0	1200
OVRHS3402301PJ	L-N	300	1200
	L-G	300	1200
	N-G	0	1200
OVRHS3402301PL	L-N	300	1800
	L-G	300	1200
	N-G	0	1800
OVRHS3402301PK	L-N	300	1200
	L-G	480	1800
	N-G	0	1800

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