HSF3-40-100-275



Hybrid surge filter

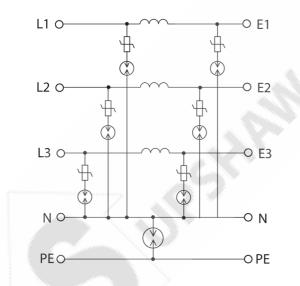
The Novaris HSF is a hybrid surge filter with primary and secondary hybrid surge protection components plus a low pass filter. The hybrid design means the filter can continuously withstand phase to phase voltage between its phase and neutral terminals yet its performance equals that of other Novaris surge filters. This makes it ideal for applications where voltage regulation is poor and power line faults common.

All Mode Protection. Protection is provided for all combinations of lines (L-N, L-PE, N-PE) ensuring the maximum level of protection is achieved at all times.

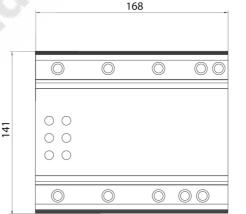
Safe Metal Enclosure. Novaris surge protection products are housed in safe, all metal enclosures. Under extreme fault conditions they will not catch fire or explode.

Dimensions

Wiring



IEC 61643-11:2011 AS/NZS 1768:2007 UL 1449 3rd edition IEEE 62.41.2:2002





Standards

SPD connected to low-voltage power systems - Type 1+2 A.C. power system SPD - Cat C, B Low voltage SPD - Type 2 Low voltage SPD - Cat B



Specifications

Electrical Specifications

Connection type	¥	Series	
Modes of protection	ĥ	L-N, L-PE, N-PE	
Number of phases	≔	3	
Nominal voltage	U _o	230VAC	
Short circuit withstand level	I _{sscr}	25kA	

Electrical (L-N) Specifications

Maximum load current	I,	40A
Maximum continuous voltage	U _c	275VAC
Maximum voltage drop (% of Uo)		<1%
Maximum discharge current (8/20 µs)	l _{max}	100kA
Nominal discharge current (8/20 µs)	I,	40kA
Lightning impulse current (10/350 µs)	I _{imp}	12.5kA
Voltage protection level (3kA 8/20µs)	U	<650V
Response time	t	Instantaneous

Mechanical Specifications			
Minimum operating temperature	ß	-40°C	
Maximum operating temperature	. S	70°C 5%	
Minimum operating humidity			
Maximum operating humidity	٨	95%	
Mounting method	an C	TS35 DIN Rail	
Environmental rating	$\widehat{\mathcal{A}}$	IP20	
Enclosure material	¢	Aluminium	
Enclosure finish		Black powdercoat	
Terminal capacity - power	۲	16mm ²	
Terminal screw torque - power	C	2Nm	
Terminal capacity - alarms	۲	2.5mm ²	
Terminal screw torque - alarms	G	0.5Nm	
Length	2	141mm	
Width	\leftrightarrow	168mm	
Height	I	69mm	

Electrical (N-PE) Specifications

Maximum continuous voltage	U _c	255VAC
Maximum discharge current (8/20 µs)	l _{max}	60kA
Lightning impulse current (10/350 µs)	I _{imp}	15kA
Nominal discharge current (8/20 µs)	I,	50kA
Voltage protection level (1kV/µs)	U _p	<700V
Response time	t	<100ns
Voltage protection level (In)	U _p	<1300V
Voltage withstand (200ms)	U _T	1200V
Follow current interrupt rating	I _{fi}	100A

Indication Specifications

Display	₽	LED power and thermal failure
Alarm	Ţ	SPDT power and thermal failure
Alarm isolation	55	4kV

Other Specifications

Product Code IIII HSF3-40

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HSF3-40-100-275
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Shipping Specifications

Weight 🌲 500g

