HSF1-63-100-275



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.

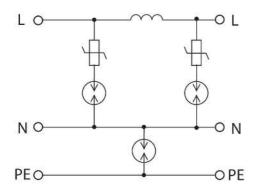
All Mode Protection

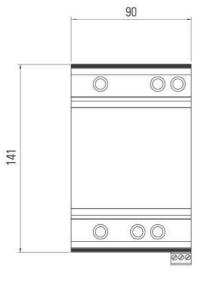
Protection is provided for all combinations of lines (L-N, L-PE, N-PE) ensuring the maximum level of protection is achieved at all times.

Safe Metal Enclosure

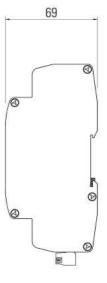
Novaris surge protection products are housed in safe, all metal enclosures. Under extreme fault conditions they will not catch fire or explode.

Wiring





Dimensions



Standards

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



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Product Datasheet

Electrical Specifications

۶	Series
h	L-N, L-PE, N-PE
	2
≔	1
	Indoor
Uo	230VAC
I	25kA
₽	63A
	ע י= ע₀

Minimum operating temperature	ß	-40°C
Maximum operating temperature	l	70°C
Minimum operating humidity	۲	5%
Maximum operating humidity	٨	95%
Mounting method	₽ ^C	TS35 DIN Rail
Environmental rating	ŵ	IP20
Enclosure material	Ø	Aluminium
Enclosure finish		Black powdercoat
Terminal capacity - power	0	16mm²
Terminal screw torque - power	C	2Nm
Terminal capacity - alarms	٥	2.5mm ²
Terminal screw torque - alarms	C	0.5Nm
Length	2	141mm
Width	↔	90mm
Height	1	69mm

Mechanical Specifications

Electrical (L-N) Specifications

Maximum continuous voltage AC U _c	480VAC
Maximum voltage drop (% of Uo)	<1%
3dB frequency @ 50Ω	≤88.5kHz
Maximum discharge current (8/20 µs) I _{max}	100kA
Nominal discharge current (8/20 μ s) I _n	40kA
Lightning impulse current (10/350 µs) I _{imp}	12.5kA
Voltage protection level (3kA 8/20 μ s) U_p	<650V
Response time t _A	Instantaneous

Other Specifications

Product Code IIII HSF1-63-100-275

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
Voltage protection level (In)	U _p	<1300V
Response time	t _A	<100ns
Voltage withstand (200ms)	U,	1200V
Follow current interrupt rating	l _{fi}	100A

Indication Specifications

Display	Ţ	LED power and thermal failure
Alarm	¢	SPDT power and thermal failure
Alarm isolation	<u>کې</u>	4kV



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