

NFD2-4-10-275

AC Powerline Noise Filters

Novaris DIN mount NFD noise filters are suitable for installation in AC power distribution systems where conducted electrical noise needs to be reduced. The NFD range has been engineered to protect sensitive loads from disturbances, particularly those arriving in a common mode format, i.e. between the power lines and earth. They are suitable for use in power distribution systems in noisy environments such as electrified railways and industrial facilities where the conducted disturbances may affect sensitive connected equipment.

Compact Design

Their compact design makes them an ideal choice for space restricted applications where the AC load current does not exceed 4A.

All Mode Filtering

Surge protection and noise filtering is provided for all combinations of lines L1-L2 and L1/L2 -PE ensuring the maximum level of protection is provided against all conducted disturbance possibilities.

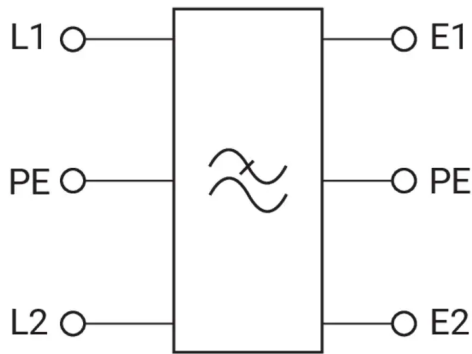
Multi-layer Protection

Novaris noise filters have 2 stages of varistor protection separated by a low pass LC filter. As well as this there are two stages of common mode filtering providing good attenuation at the higher frequencies that can affect sensitive equipment.

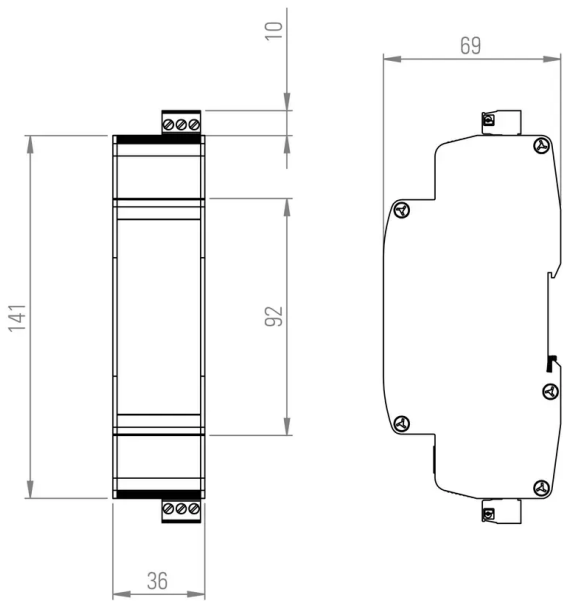


Image for illustrative purposes only

Wiring



Dimensions



Product Datasheet

Electrical Specifications

Connection type		Series
Modes of protection		L-L, L-PE
Number of ports		2
Number of phases		2
Location		Indoor
Nominal voltage	U_0	230VAC
Short circuit withstand level	I_{SCCR}	10kA
Maximum backup fuse		4A
Recommended MCB		4A
Earth leakage current	I_{PE}	<1.5mA

Electrical (L-L) Specifications

Maximum load current	I_L	4A
Maximum continuous voltage AC	U_c	275VAC
3dB frequency @ 50Ω		4.4kHz
Maximum voltage drop (% of U_0)		<1%
Maximum discharge current (8/20 μs)	I_{max}	10kA
Nominal discharge current (8/20 μs)	I_n	4kA
Voltage protection level (3kA 8/20μs)	U_p	<700V
Voltage protection level (In)	U_p	<900V
Response time	t_A	Instantaneous
Voltage withstand (5s)	U_T	335V

Electrical (L-PE) Specifications

Maximum continuous voltage AC	U_c	275VAC
3dB frequency @ 50Ω		950Hz
Maximum discharge current (8/20 μs)	I_{max}	10kA
Nominal discharge current (8/20 μs)	I_n	4kA
Voltage protection level @ 3 kA 8/20 μs	U_p	<700V
Voltage protection level (In)	U_p	<900V
Response time	t_A	<25ns
Voltage withstand (200ms)	U_T	1200V

Indication Specifications

Display		LED power
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Mechanical Specifications

Minimum operating temperature		-40°C
Maximum operating temperature		70°C
Minimum operating humidity		5%
Maximum operating humidity		95%
Mounting method		TS35 DIN Rail
Environmental rating		IP20
Enclosure material		Aluminium
Enclosure finish		Black powdercoat
Terminal capacity - power		2.5mm²
Terminal screw torque - power		0.5Nm
Length		141mm
Width		36mm
Height		69mm

Standard Specifications

IEC 61643-11	SPD connected to low-voltage power systems - Type 2, 3
AS 1768	AC power system SPD - Cat C, B
UL 1449	Low voltage SPD - Type 2
IEEE 62.41.2	Low voltage SPD - Cat B

Shipping Specifications

Weight		325g
Customs tariff		85363000, 85363010

Other Specifications

Product Code		NFD2-4-10-275
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