imall

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Device surge protection filter to limit powerful surge voltages, mounting on NS 35.

Product Description

Device protection with interference filter



Key Commercial Data

Packing unit	1 pc
Weight per Piece (excluding packing)	620.0 g
Custom tariff number	85363010
Country of origin	Germany

Technical data

Dimensions

Height	93 mm
Width	112 mm
Depth	79 mm

Ambient conditions

Degree of protection	IP20
Ambient temperature (operation)	-25 °C 70 °C
Ambient temperature (storage/transport)	-40 °C 85 °C

General

Standards/specifications	IEC 61643-1 2005
	EN 61643-11/A11 2007
	UL 1449 ed. 3: 2006 T4 for type 2
	UL 1283 ed. 5: 2005
IEC test classification	III

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Technical data

General

	Т3
EN type	ТЗ
Mounting type	DIN rail: 35 mm
Color	black
	silver
Housing material	Aluminum
Flammability rating according to UL 94	V-0
Туре	Rail-mountable module, one-piece
Number of positions	2
Surge protection fault message	Optical, remote indicator contact
For country-specific use in	USA, CN, BR
Protective circuit	
Nominal frequency f _N	50 Hz
	60 Hz
Maximum continuous operating voltage U _C (L-N)	150 V AC
Maximum continuous operating voltage U _c (L-PE)	150 V AC
Nominal current I _N	5 A (72°C)
Rated load current IL	5 A (72°C)
Residual current I _{PE}	≤ 0.5 mA
Nominal discharge current I _n (8/20) µs (L-N)	3 kA
Nominal discharge current I _n (8/20) µs (L-PE)	3 kA
Operating effective current $I_{\rm C}$ at $U_{\rm C}$	≤ 10 mA
Max. discharge current I _{max} (8/20) μs maximum (L-N)	10 kA
Max. discharge current I _{max} (8/20) μs maximum (L-PE)	10 kA
Combination wave U _{oc}	6 kV (3 kA)
Energy absorption symmetrical	170 J
Enery absorption, asymmetrical	2x 170 J
Voltage protection level U _p (L-N)	\leq 450 V (at 6 kV/3 kA)
Voltage protection level U_p (L-PE)	≤ 450 V (at 6 kV/3 kA)
Voltage protection level U_p (N-PE)	≤ 450 V (at 6 kV/3 kA)
Residual voltage at In, (L-N)	≤ 450 V
Residual voltage at In, (L-PE)	≤ 450 V
Residual voltage at In, (N-PE)	≤ 450 V
Response time t _A (L-N)	$\leq 25 \text{ ns}$
Response time t _A (L-PE)	≤ 25 ns
Response time t _A (N-PE)	≤ 25 ns

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Technical data

Protective circuit

Inductivity in series	2x 1 mH ±30 % (with current compensation)
Capacity (L-N)	2 μF ±10 % (X2, FOW X2-250V)
Capacity (L-PE)	2.2 nF ±20 % (Y, FOW X2-250V)
Capacity (L-PEN)	2.2 nF ±20 % (Y, FOW X2-250V)
Max. required back-up fuse	20 A (gL / gG)
	20 A (MCB, > 125 V, AIC: 14 kA)
Input attenuation aE, sym.	typ. 40 dB (≥ 500 kHz / 50 Ω)
Input attenuation aE, asym.	typ. 30 dB (≥ 1 MHz / 50 Ω)

Indicator/remote signaling

Connection name	Remote fault indicator contact
Switching function	PDT, 1-pos.
Connection method	Pluggable screw connection
Screw thread	M2
Tightening torque	0.25 Nm
Stripping length	7 mm
Conductor cross section flexible min.	0.14 mm ²
Conductor cross section flexible max.	1.5 mm ²
Conductor cross section solid min.	0.14 mm ²
Conductor cross section solid max.	1.5 mm ²
Conductor cross section AWG min.	28
Conductor cross section AWG max.	16

Connection data

Connection name	Input/output
Connection method	Screw terminal blocks
Conductor cross section flexible min.	2.5 mm ²
Conductor cross section flexible max.	4 mm ²
Conductor cross section solid min.	2.5 mm ²
Conductor cross section solid max.	6 mm ²
Screw thread	M3
Tightening torque	0.5 Nm 0.6 Nm
	5 lb _f -in 7 lb _f -in.
Stripping length	8 mm

Protective circuit, filter

Discharge resistor	\leq 390 k Ω

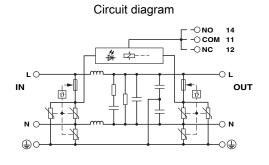


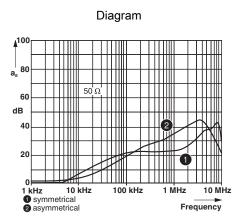
Classifications

eCl@ss

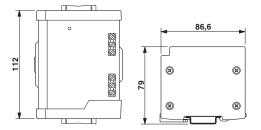
eCl@ss 5.1	27130801
eCl@ss 6.0	27130806
Approvals	
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UL Recognized / cUL Recognized / CSAus / CSA / cULus	Recognized / cCSAus
Ex Approvals	
UL Recognized / cUL Recognized / cULus Recognized	
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CSA	
cULus Recognized CNUs	
cCSAus	
Drawings	







Dimensional drawing



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