NEF 1- 6 - EMC filter

2783082

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Mains interference filter, with universal foot for mounting on NS 32 and NS 35/7.5, nominal current: 6 A

Your advantages

- Effective high-frequency interference attenuation with current-coupled coils and X and Y capacitors
- Space-saving and cost-saving with a compact design
- Versatile in use with universal circuit design

Commercial data

Item number	2783082
Packing unit	5 pc
Minimum order quantity	5 pc
Sales key	CL06
Product key	CLC111
GTIN	4017918069803
Weight per piece (including packing)	179.52 g
Weight per piece (excluding packing)	161 g
Customs tariff number	85363010
Country of origin	DE

Technical data

Product properties

Product type	EMC filters
Product family	NEF
Type	DIN rail module, one-piece
Number of positions	2

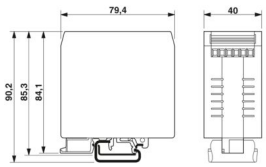
Electrical properties

Nominal frequency f_N	50 Hz (60 Hz)
Rated voltage	240 V AC (L-N)

Connection data

Connection method	Screw connection
Screw thread	M3
Tightening torque	0.8 Nm
Conductor cross-section flexible	0.2 mm² ... 2.5 mm²
Conductor cross-section rigid	0.2 mm² ... 4 mm²
Conductor cross-section AWG	24 ... 12

Dimensions

Dimensional drawing	
Width	40 mm
Height	79.4 mm
Depth	90.2 mm

Material specifications

Color	black (RAL 9005)
	silver-colored
Flammability rating according to UL 94	V-2
Housing material	PA

Mechanical properties

Mechanical data

Open side panel	No

Protective circuit

Direction of action	1L-N & N-PE
Maximum continuous operating voltage U_C	264 V AC (L-N)

	264 V AC (L-PE)
Nominal frequency f_N	50 Hz (60 Hz)
Rated current	6 A (40 °C)
Operating effective current I_C at U_C	≤ 0.25 mA
Protective conductor current I_{PE}	≤ 0.5 mA
Input attenuation aE, sym.	> 70 dB (50 Ω / 1 MHz)
Input attenuation aE, asym.	> 40 dB (50 Ω / 1 MHz)
Capacity	2x 470 nF (X2)
	2x 2.2 nF (Y2)
Inductivity in series	2x 2.7 mH (with current compensation)
Max. required back-up fuse	6.3 A (gL/C)

Filter data

Discharge resistance	1 MΩ

Environmental and real-life conditions

Ambient conditions

Degree of protection	IP20
Ambient temperature (operation)	-25 °C ... 100 °C (HMF)

Standards and regulations

Air clearances and creepage distances

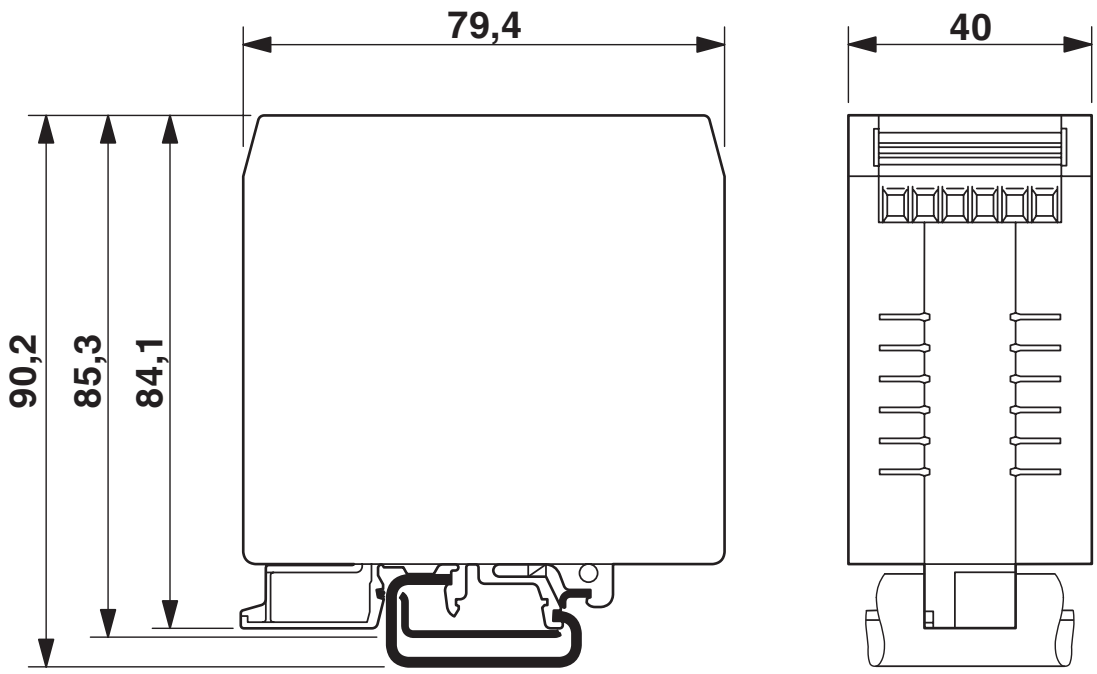
Standards/regulations	VDE 0110-1
Standards/specifications	IEC 60939-2
Standards/specifications	EN 60939-2
Standards/specifications	IEC 60664-1

Mounting

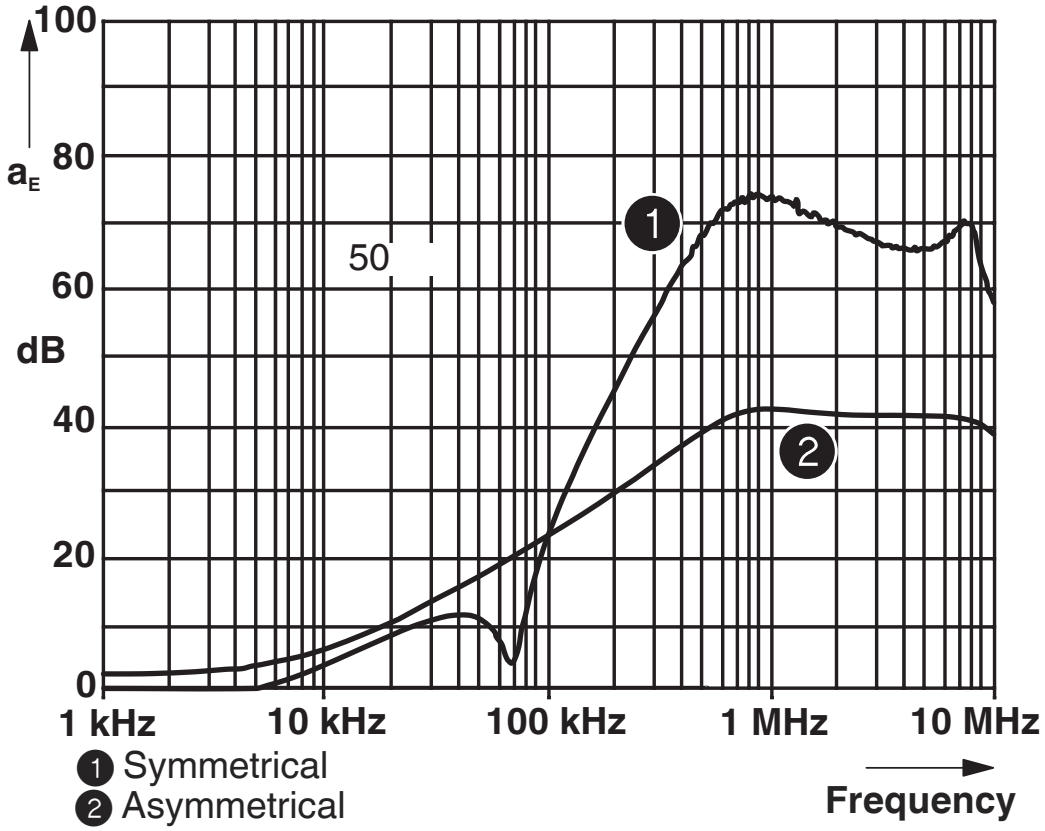
Mounting type	DIN rail: 35 mm

Drawings

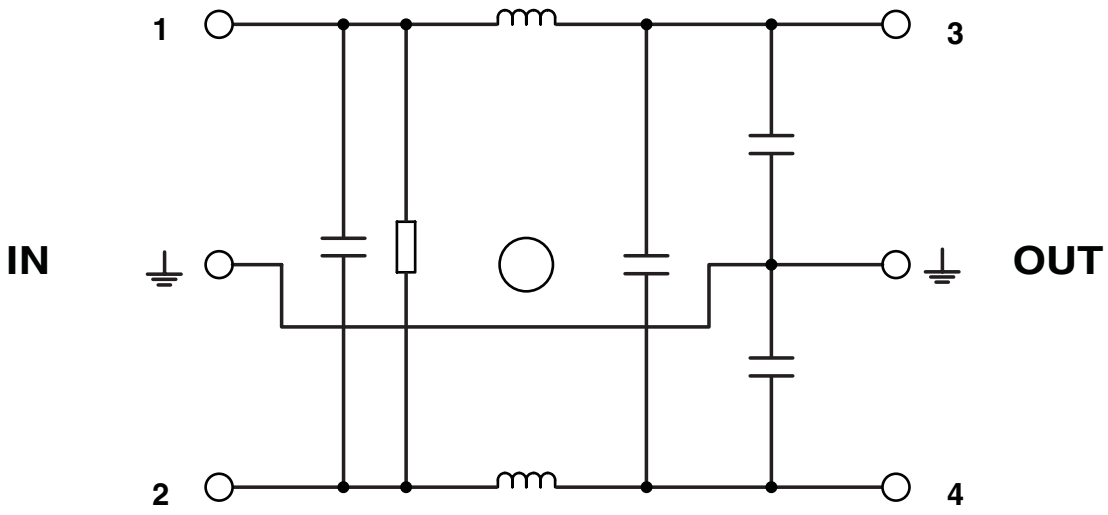
Dimensional drawing



Diagram



Circuit diagram



Classifications

UNSPSC

UNSPSC 21.0	39121600

Environmental product compliance

EU RoHS

Fulfills EU RoHS substance requirements	Yes, No exemptions

China RoHS

Environment friendly use period (EFUP)	EFUP-E
	No hazardous substances above the limits

EU REACH SVHC

REACH candidate substance (CAS No.)	No substance above 0.1 wt%

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