

NEF 1-10 - EMC filter

2788977

<https://www.phoenixcontact.com/us/products/2788977>

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Mains interference filter, with universal foot for mounting on NS 32 and NS 35/7.5, nominal current: 10 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	2788977
Packing unit	5 pc
Minimum order quantity	1 pc
Sales key	CL06
Product key	CLC111
GTIN	4017918072001
Weight per piece (including packing)	186.7 g
Weight per piece (excluding packing)	162.67 g
Customs tariff number	85363010
Country of origin	DE

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Technical data

Product properties

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

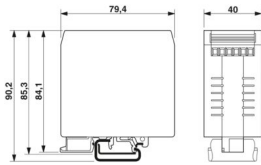
Electrical properties

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 mm ² ... 2.5 mm ²
Conductor cross-section rigid	0.2 mm ² ... 4 mm ²
Conductor cross-section AWG	24 ... 12

Dimensions

Dimensional drawing	
Width	40 mm
Height	79.4 mm
Depth	84.1 mm

Material specifications

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

Mechanical properties

Mechanical data

Open side panel	No
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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)

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Nominal frequency f_N	50 Hz (60 Hz)
Rated current	10 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.	> 80 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 1.8 mH (with current compensation)
Max. required back-up fuse	10 A (gL)

Filter data

Discharge resistance	1 M Ω
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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	IEC 60664-1 / VDE 0110-1
Standards/specifications	IEC 60939-2
Standards/specifications	EN 60939-2

Mounting

Mounting type	DIN rail: 35 mm
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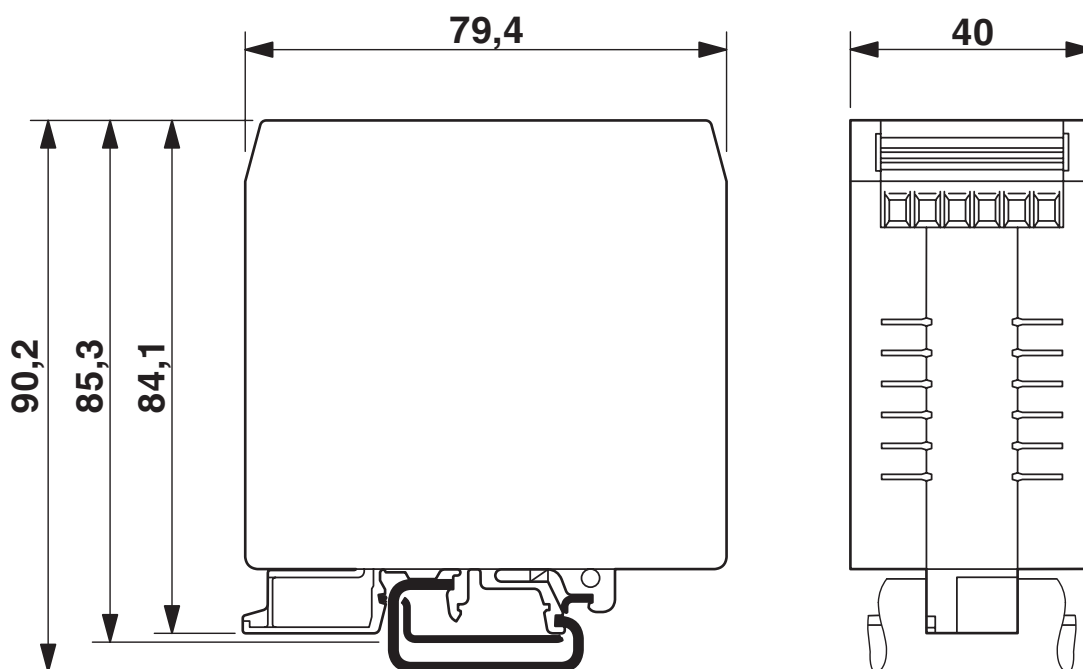
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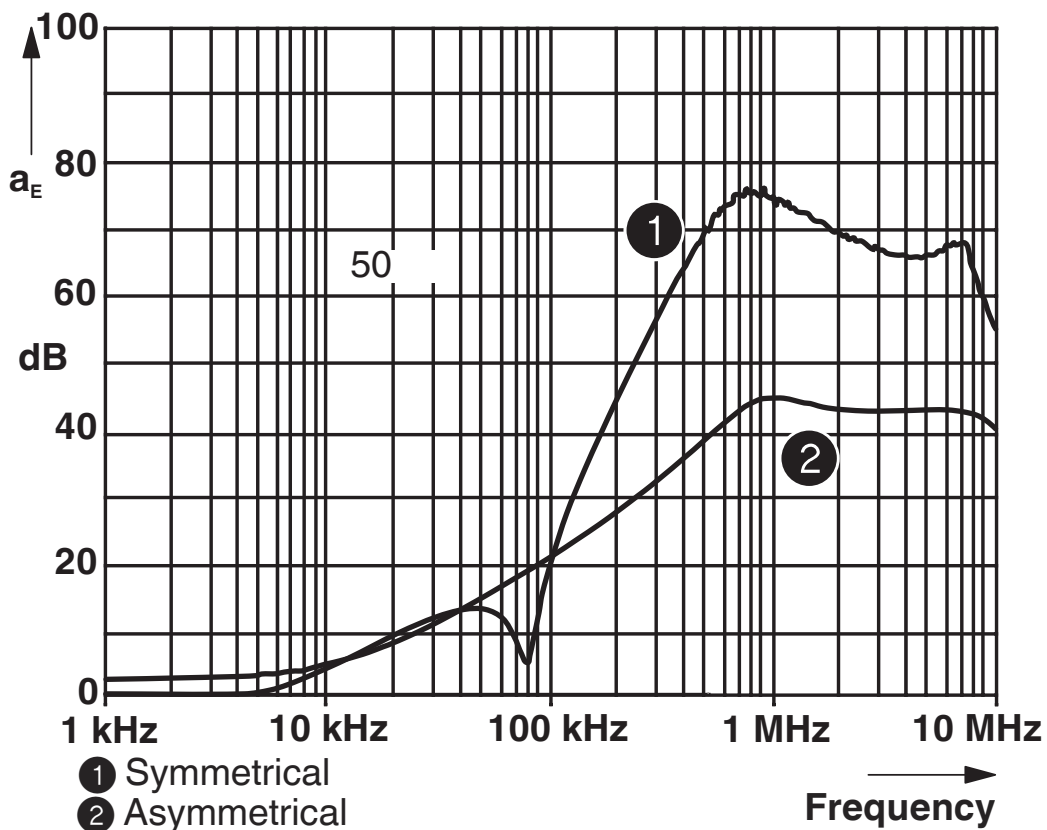


Drawings

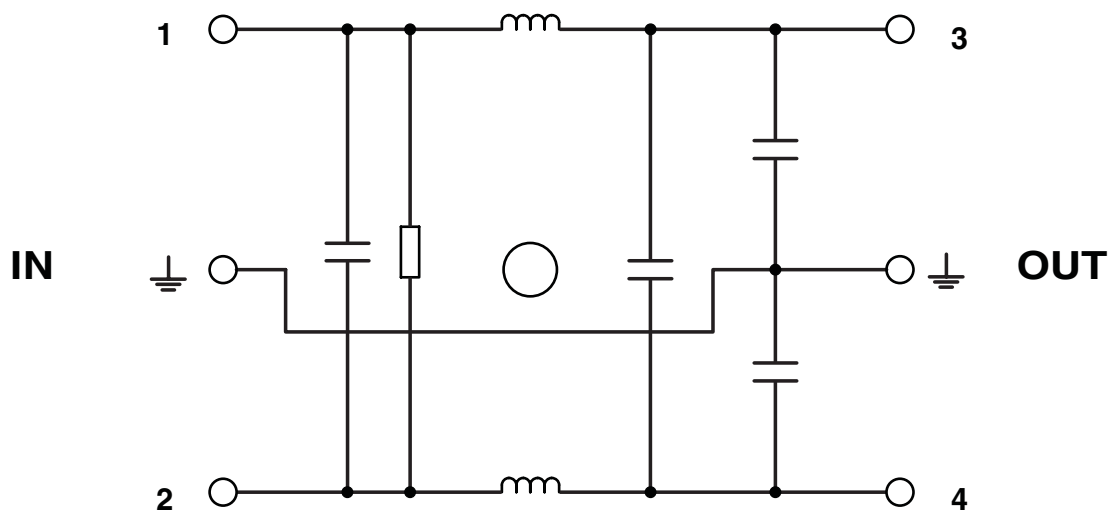
Dimensional drawing



Diagram



Circuit diagram



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Classifications

UNSPSC

UNSPSC 21.0	39121600
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Environmental product compliance

EU RoHS

Fulfills EU RoHS substance requirements	Yes, No exemptions
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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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