

NEF 1- 3 - EMC filter



2794110
<https://www.phoenixcontact.com/in/products/2794110>

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Mains interference filter, with universal foot for mounting on NS 32 and NS 35/7.5, nominal current: 3 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	2794110
Packing unit	10 pc
Minimum order quantity	1 pc
Sales key	CLC
Product key	CLC111
Catalog page	Page 211 (C-4-2019)
GTIN	4017918072803
Weight per piece (including packing)	92.7 g
Weight per piece (excluding packing)	85.12 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

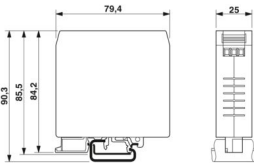
Electrical properties

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	25 mm
Height	79.4 mm
Depth	84.15 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

Protective circuit

Direction of action	1L-N & N-PE
Maximum continuous 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	3 A (40 °C)
Operating effective current I_C at U_C	≤ 0.25 mA
Residual current I_{PE}	≤ 0.5 mA
Input attenuation aE, sym.	> 55 dB (50 Ω / 1 MHz)
Input attenuation aE, asym.	> 35 dB (50 Ω / 1 MHz)
Capacity	2x 100 nF (X2)
	2x 2.2 nF (Y2)
Inductivity in series	2x 2.7 mH (with current compensation)
Max. required back-up fuse	3 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

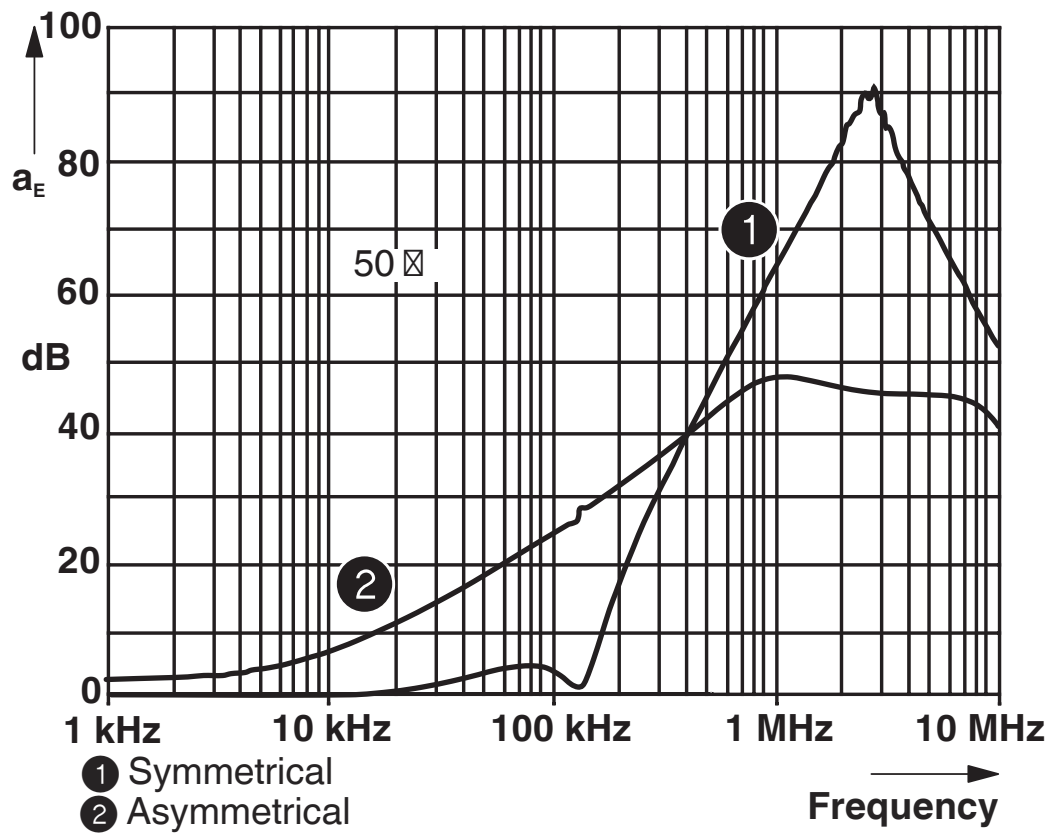
Standards/regulations	IEC 60664-1 / VDE 0110-1
Standards/specifications	IEC 60939-2
Standards/specifications	EN 60939-2

Mounting

Mounting type	DIN rail: 35 mm
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Drawings

Diagram



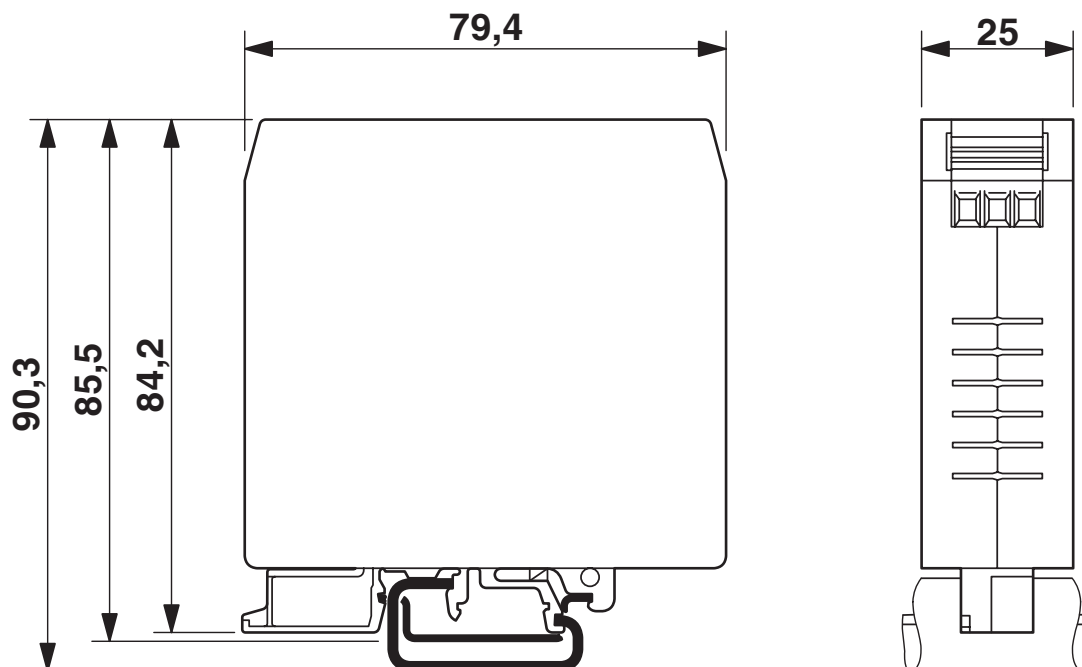
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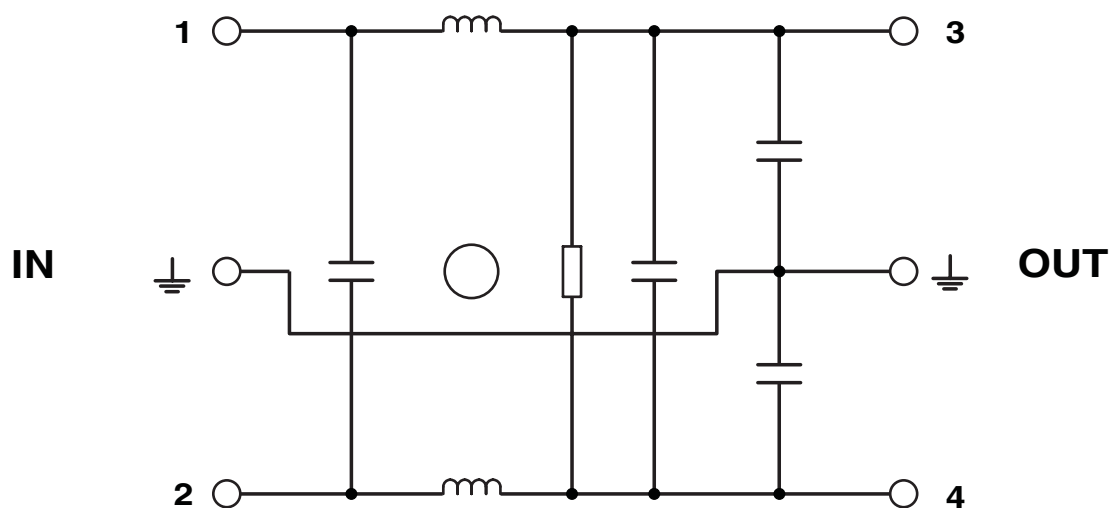
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Dimensional drawing



Circuit diagram



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Approvals

To download certificates, visit the product detail page: <https://www.phoenixcontact.com/in/products/2794110>

	UL Recognized Approval ID: FILE E 118989			
	Nominal voltage U_N	Nominal current I_N	Cross section AWG	Cross section mm^2
	250 V	3 A	22 - 12	-

EAC	EAC Approval ID: EAC-Zulassung
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DNV GL	DNV GL Approval ID: TAA00002R5
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EAC	EAC Approval ID: RU C-DE.*09.B.00169
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	VDE Zeichengenehmigung Approval ID: 40008521			
	Nominal voltage U_N	Nominal current I_N	Cross section AWG	Cross section mm^2
Mark approval certificate	250 V	3 A	-	- 2.5

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Classifications

ECLASS

ECLASS-11.0	27130806
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ETIM

ETIM 8.0	EC000942
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UNSPSC

UNSPSC 21.0	39121600
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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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