

# NEF 1- 6 - EMC filter

2783082

<https://www.phoenixcontact.com/us/products/2783082>

Please be informed that the data shown in this PDF document is generated from our online catalog. Please find the complete data in the user documentation. Our general terms of use for downloads are valid.



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

# NEF 1- 6 - EMC filter

2783082

<https://www.phoenixcontact.com/us/products/2783082>

## Technical data

### Product properties

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

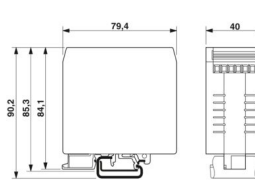
### Electrical properties

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 <sup>2</sup> ... 2.5 mm <sup>2</sup>
Conductor cross-section rigid	0.2 mm <sup>2</sup> ... 4 mm <sup>2</sup>
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)

# NEF 1- 6 - EMC filter



2783082

<https://www.phoenixcontact.com/us/products/2783082>

	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 $U_C$	$\leq 0.25$ mA
Protective conductor current $I_{PE}$	$\leq 0.5$ mA
Input attenuation aE, sym.	> 70 dB (50 $\Omega$ / 1 MHz)
Input attenuation aE, asym.	> 40 dB (50 $\Omega$ / 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 M $\Omega$
----------------------	--------------

## 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
---------------	-----------------

# NEF 1- 6 - EMC filter

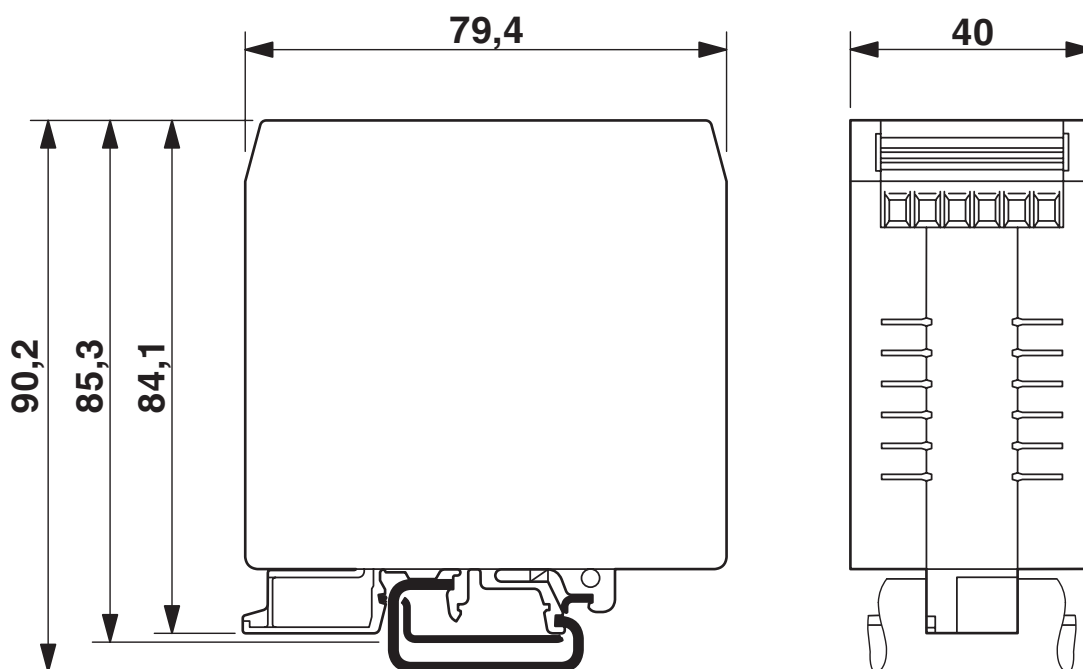
2783082

<https://www.phoenixcontact.com/us/products/2783082>

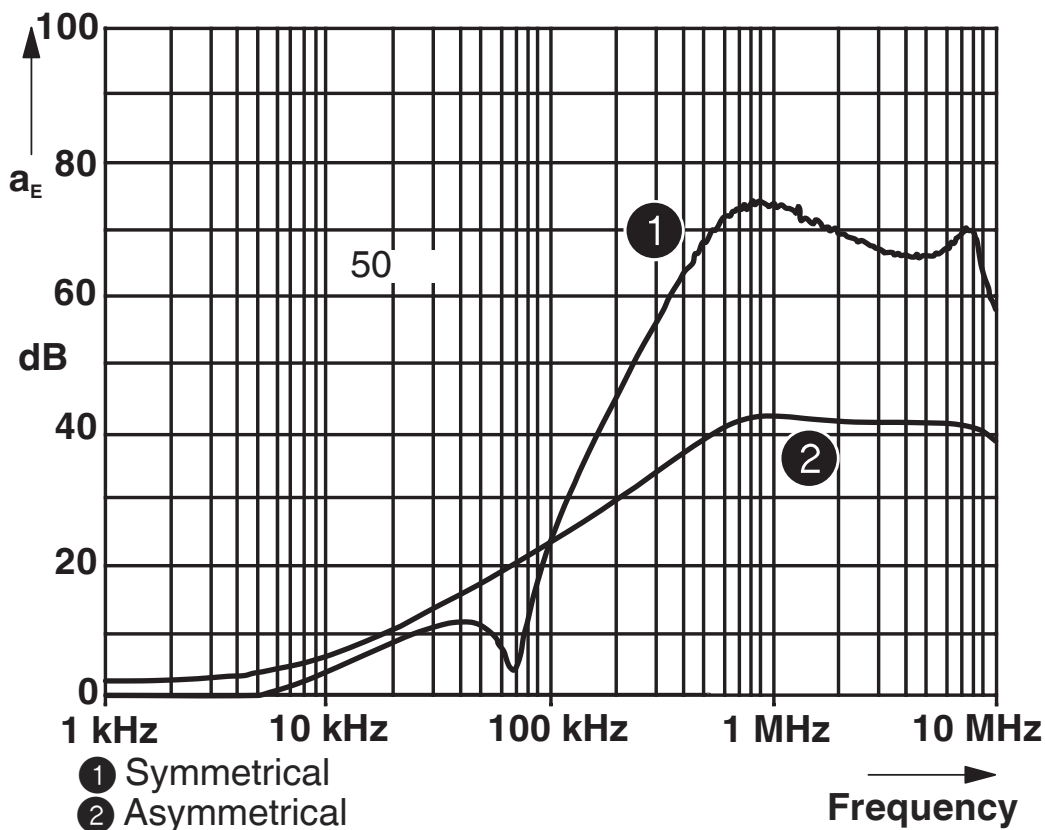


## Drawings

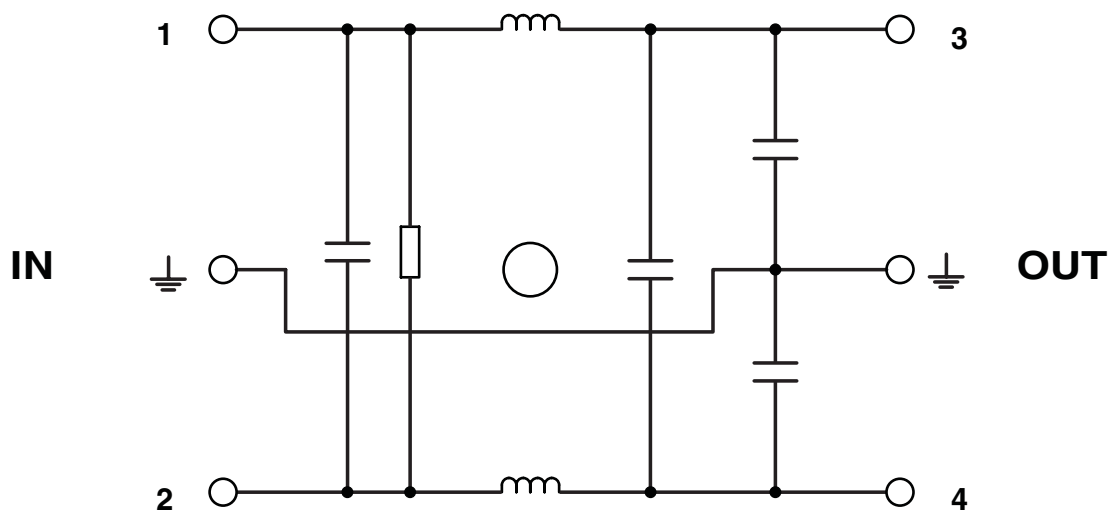
Dimensional drawing



Diagram



Circuit diagram



# NEF 1- 6 - EMC filter

2783082

<https://www.phoenixcontact.com/us/products/2783082>



## Classifications

### UNSPSC

UNSPSC 21.0	39121600
-------------	----------

# NEF 1- 6 - EMC filter



2783082

<https://www.phoenixcontact.com/us/products/2783082>

## 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%
-------------------------------------	----------------------------

Phoenix Contact 2026 © - all rights reserved  
<https://www.phoenixcontact.com>

Phoenix Contact USA  
586 Fulling Mill Road  
Middletown, PA 17057, United States  
(+717) 944-1300  
[info@phoenixcon.com](mailto:info@phoenixcon.com)