

FIL-1S-1-1A-230AC-UT - EMC filter

1292329

<https://www.phoenixcontact.com/us/products/1292329>



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.



EMC filter (mains filter) for single-phase AC and DC systems (nominal voltage: up to 230 V AC, up to 220 V DC), for mounting on NS 35, nominal current: 1 A

Your advantages

- Reliable protection of sensitive equipment against high-frequency conducted interference
- Effective attenuation with current-coupled coils and X and Y capacitors
- Versatile in use with universal circuit design
- Improved filter effect with additional PE terminals, for connection to the local protective bonding
- User-friendly handling thanks to easy assembly and installation with screw connection technology (UT)

Commercial data

Item number	1292329
Packing unit	1 pc
Minimum order quantity	1 pc
Sales key	CL28
Product key	CLC151
GTIN	4063151525743
Weight per piece (including packing)	170.1 g
Weight per piece (excluding packing)	165.1 g
Customs tariff number	85480090
Country of origin	CN

FIL-1S-1-1A-230AC-UT - EMC filter



1292329

<https://www.phoenixcontact.com/us/products/1292329>

Technical data

Product properties

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

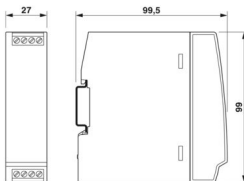
Electrical properties

Nominal frequency f_N	50 Hz (60 Hz)
Nominal voltage U_N	230 V AC (TN-S/TT)
	230 V AC (IT, L-L)
	120 V AC (TN-S/TT)
	120 V AC (IT, L-L)
	220 V DC
Rated voltage (U_R)	250 V AC
	250 V DC

Connection data

Connection method	Screw connection
Screw thread	M3
Tightening torque	0.5 Nm
Conductor cross-section flexible	0.2 mm ² ... 2.5 mm ²
Conductor cross-section rigid	0.2 mm ² ... 2.5 mm ²
Conductor cross-section AWG	24 ... 12

Dimensions

Dimensional drawing	
Width	27 mm
Height	99 mm
Depth	99.5 mm

Material specifications

Color	gray (RAL 7042)
	light gray (RAL 7035)
Flammability rating according to UL 94	V-0
Housing material	PC-GF10

Mechanical properties

FIL-1S-1-1A-230AC-UT - EMC filter



1292329

<https://www.phoenixcontact.com/us/products/1292329>

Mechanical data

Open side panel	No
-----------------	----

Protective circuit

Nominal frequency f_N	50 Hz (60 Hz)
Rated current	1 A (50 °C)
Protective conductor current I_{PE}	≤ 0.2 mA
Input attenuation aE, sym.	> 65 dB (50 Ω / 1 MHz)
Input attenuation aE, asym.	> 45 dB (50 Ω / 1 MHz)
Capacity	2x 100 nF (X2)
	2x 2.2 nF (Y2)
Inductivity in series	2x 5.6 mH (with current compensation)
Short-circuit current rating I_{SCCR}	10 kA AC
	6 kA DC
Max. required back-up fuse	1 A AC/DC (FF, gR, Class J)
	1 A AC (MCB B)
	1 A AC (MCB, UL 489 Tripping Curve Z or B)
	1 A AC (MCB, CSA C22.2 No. 5-02 Tripping Curve Z or B)

Filter data

Discharge resistance	940 k Ω
----------------------	----------------

Environmental and real-life conditions

Ambient conditions

Degree of protection	IP20
Ambient temperature (operation)	-40 °C ... 70 °C (dependent on the derating curve)
Ambient temperature (storage/transport)	-40 °C ... 70 °C
Ambient temperature (assembly)	-5 °C ... 70 °C
Altitude	≤ 2000 m (amsl)
Permissible humidity (operation)	5 % ... 95 %
Shock (operation)	15g (Half-sine / 11 ms / 3x $\pm X$, $\pm Y$, $\pm Z$)
Vibration (operation)	DNVGL-CG-0339 class A

Standards and regulations

Standards/specifications	IEC 60939-1
Standards/specifications	EN 60939-1
Standards/specifications	IEC 60939-2
Standards/specifications	EN 60939-2
Standards/specifications	UL 60939-3
Standards/specifications	UL 1283
Standards/specifications	UL 121201
Standards/specifications	CSA C22.2 No. 8-13
Standards/specifications	CSA C22.2 No. 213-17

FIL-1S-1-1A-230AC-UT - EMC filter

1292329

<https://www.phoenixcontact.com/us/products/1292329>



Mounting

Mounting type	DIN rail: 35 mm
---------------	-----------------

FIL-1S-1-1A-230AC-UT - EMC filter

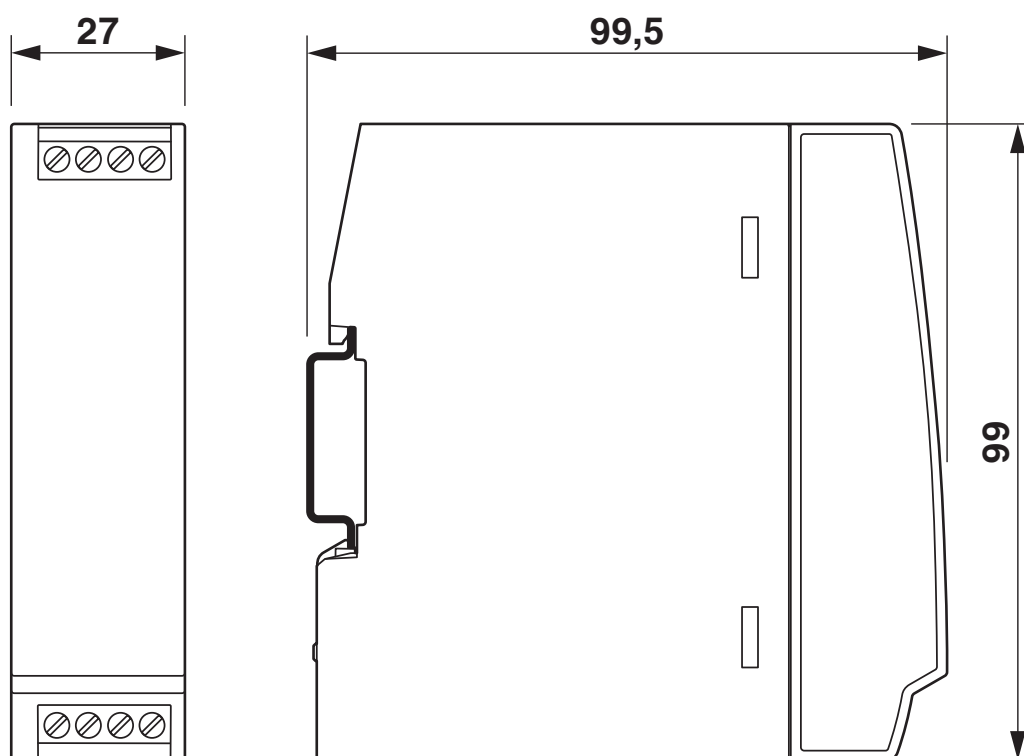
1292329

<https://www.phoenixcontact.com/us/products/1292329>

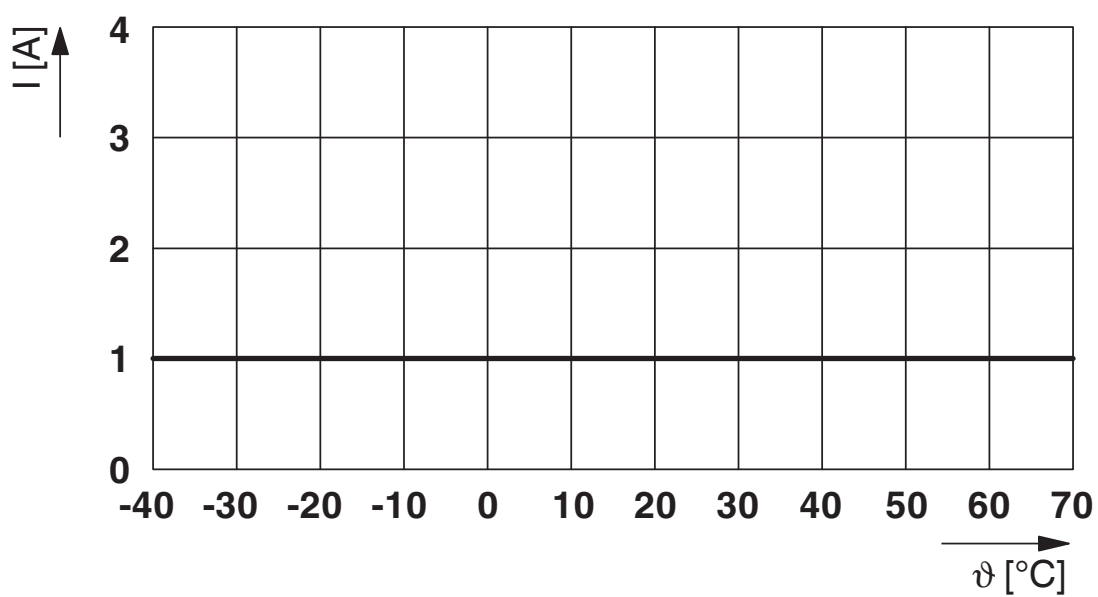


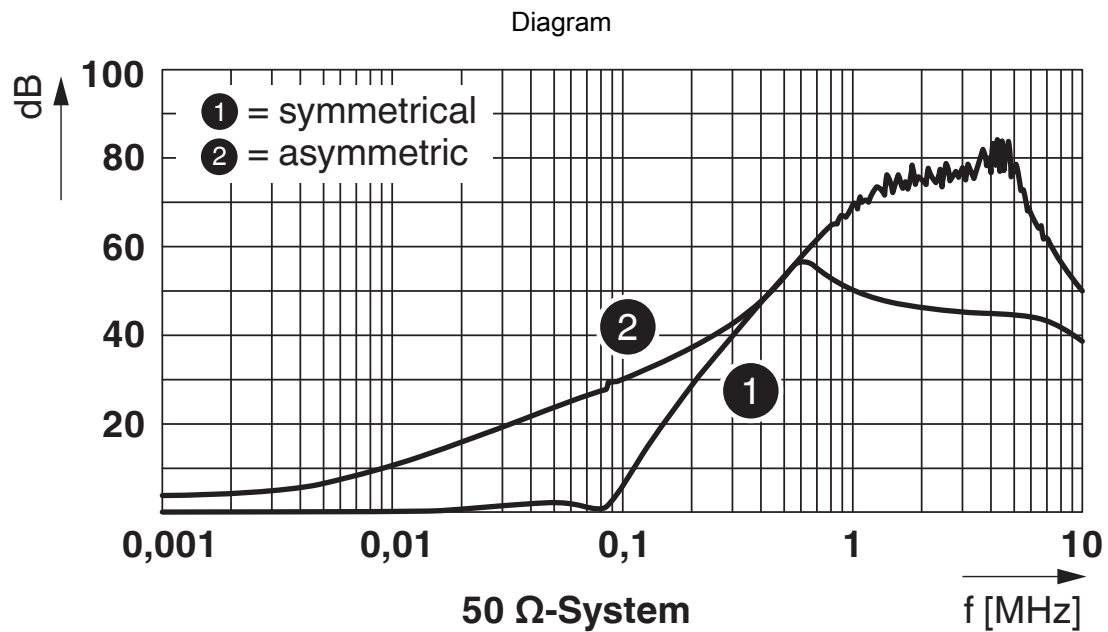
Drawings

Dimensional drawing

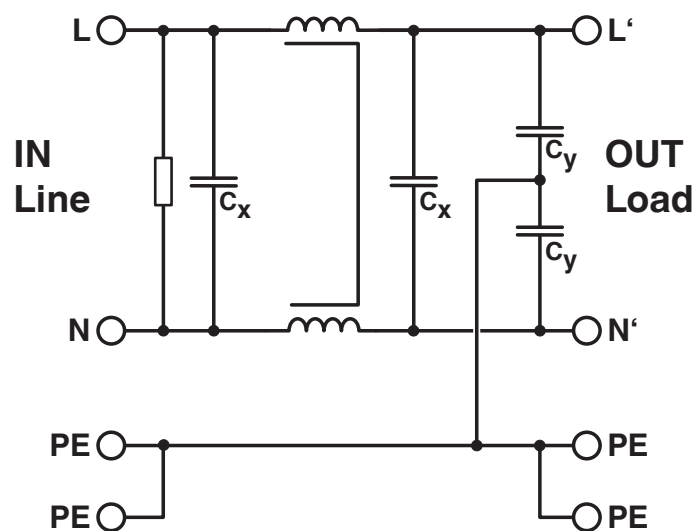


Diagram





Circuit diagram



FIL-1S-1-1A-230AC-UT - EMC filter



1292329

<https://www.phoenixcontact.com/us/products/1292329>

Approvals

To download certificates, visit the product detail page: <https://www.phoenixcontact.com/us/products/1292329>



cUL Recognized
Approval ID: FILE E 526585



UL Recognized
Approval ID: FILE E 526585



IECEE CB Scheme
Approval ID: DE1-66248



VDE Zeichengenehmigung
Approval ID: 40054877

CCA

Approval ID: DE1-34877-A1



DNV GL
Approval ID: TAA0000384



CSA
Approval ID: 80228707



CSAus
Approval ID: 80228707



cULus Recognized
Approval ID: E118989



cUL Recognized
Approval ID: FILE E 532830



UL Recognized
Approval ID: FILE E 532830

FIL-1S-1-1A-230AC-UT - EMC filter



1292329

<https://www.phoenixcontact.com/us/products/1292329>



cUL Recognized
Approval ID: E340736



UL Recognized
Approval ID: E340736



CSA
Approval ID: 80228706



CSAus
Approval ID: 80228706

FIL-1S-1-1A-230AC-UT - EMC filter



1292329

<https://www.phoenixcontact.com/us/products/1292329>

Classifications

ECLASS

ECLASS-13.0	27420208
ECLASS-15.0	27420290

ETIM

ETIM 9.0	EC002564
----------	----------

UNSPSC

UNSPSC 21.0	39121500
-------------	----------

FIL-1S-1-1A-230AC-UT - EMC filter



1292329

<https://www.phoenixcontact.com/us/products/1292329>

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 2025 © - 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