EMC filter - FIL-1S-1-10A-230AC-UT

1292320

https://www.phoenixcontact.com/us/products/1292320

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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: 10 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	1292320
Packing unit	1 pc
Minimum order quantity	1 pc
Sales Key	00
Product Key	CLC151
GTIN	4063151525712
Weight per Piece (including packing)	261.2 g
Weight per Piece (excluding packing)	261.2 g
Customs tariff number	85363010
Country of origin	CN

Technical Data

Product properties

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

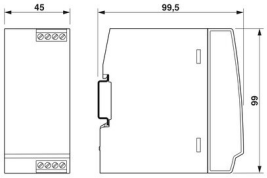
Electrical properties

Nominal frequency f_N	50 Hz (60 Hz)

Connection data

Connection method	Screw connection
Screw thread	M3
Tightening torque	0.5 Nm
Conductor cross section flexible	0.2 mm² ... 2.5 mm²
Conductor cross section solid	0.2 mm² ... 2.5 mm²
Conductor cross section AWG	24 ... 12

Dimensions

Dimensional drawing	
Width	45 mm
Height	99 mm
Depth	99.5 mm

Material specifications

Color	traffic grey A RAL 7042
	light grey RAL 7035
Flammability rating according to UL 94	V-0
Housing material	PC-GF10

Mechanical properties

Mechanical data

Open side panel	No

Protective circuit

Nominal frequency f_N	50 Hz (60 Hz)
Rated current	10 A (50 °C)
Residual current I_{PE}	≤ 0.2 mA

Input attenuation aE, sym.	> 75 dB (50 Ω / 1 MHz)
Input attenuation aE, asym.	> 35 dB (50 Ω / 1 MHz)
Capacity	2x 470 nF (X2)
	2x 2.2 nF (Y2)
Inductivity in series	2x 3.3 mH (with current compensation)
Max. required back-up fuse	6 A AC/DC (gG)
	10 A AC (MCB B)

Filter data

Discharge resistance	940 kΩ

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 (above mean sea level))
Permissible humidity (operation)	5 % ... 95 %
Shock (operation)	15g (Half-sine / 11 ms / 3x ±X, ±Y, ±Z)
Vibration (operation)	DNVGL-CG-0339 class A

Standards and regulations

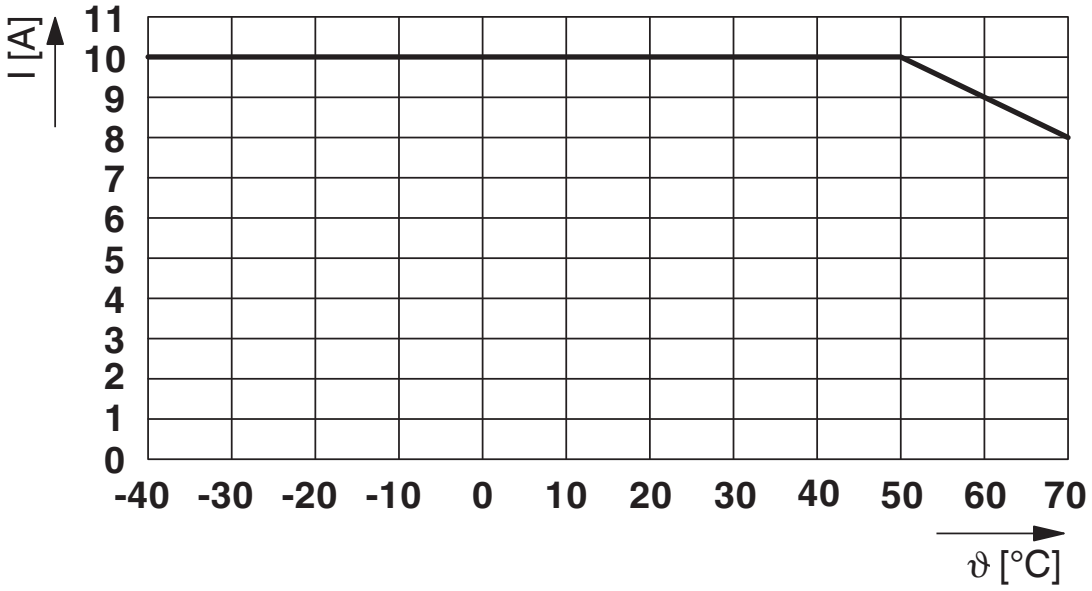
Standards/specifications	IEC 60939-1
Standards/specifications	EN 60939-1
Standards/specifications	IEC 60939-2
Standards/specifications	EN 60939-2
Standards/specifications	UL 60939-3

Mounting

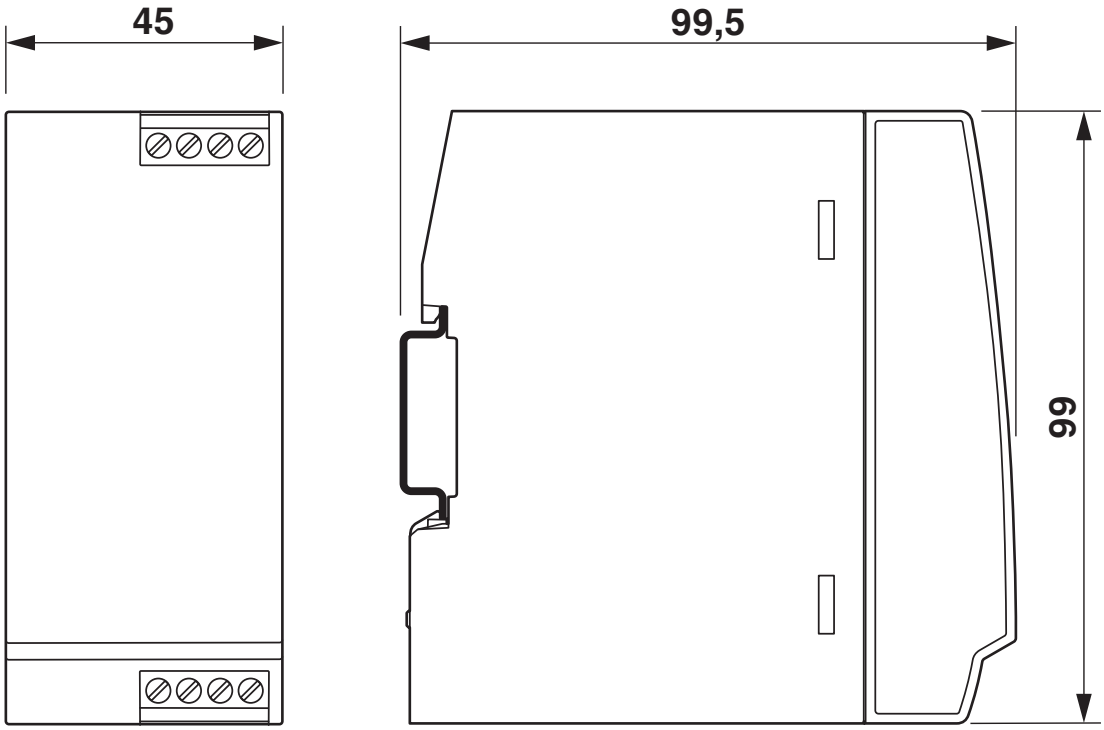
Mounting type	DIN rail: 35 mm

Drawings

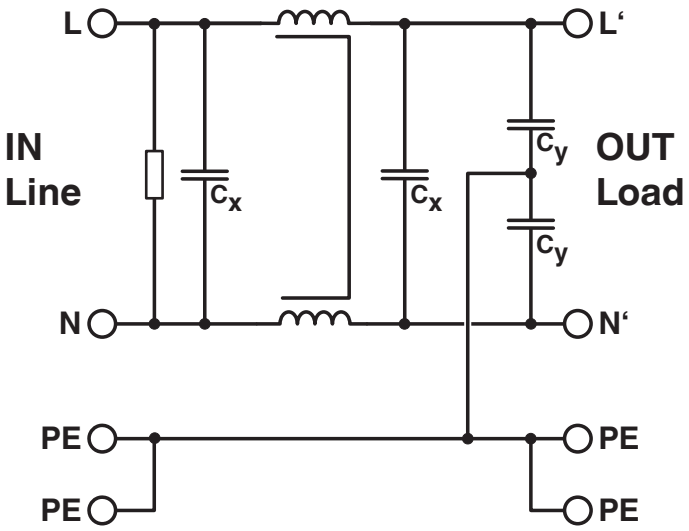
Diagram



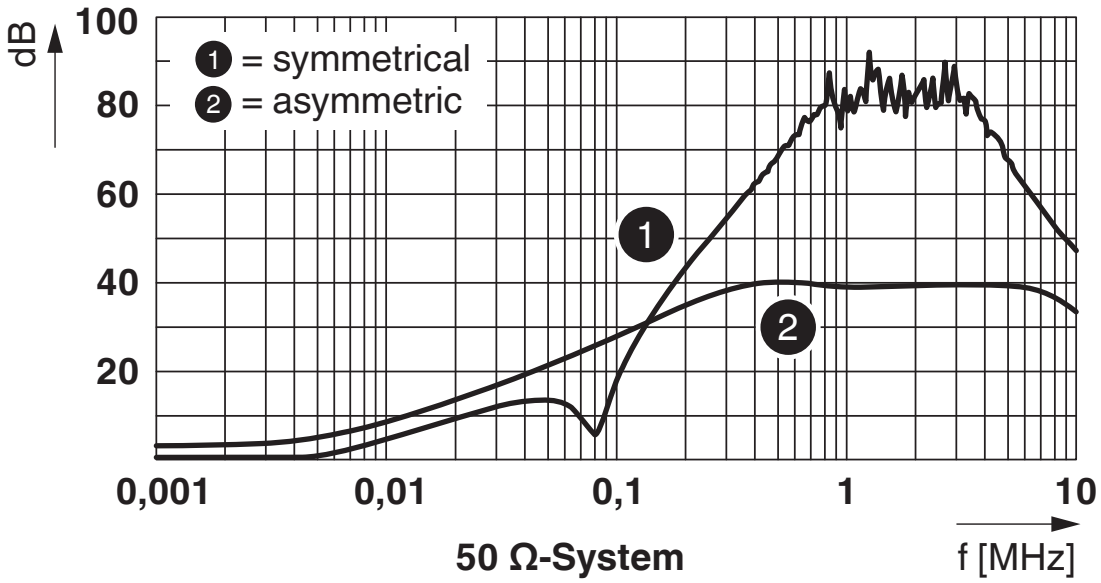
Dimensional drawing



Circuit diagram



Diagram



Approvals

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

cULus Recognized

Classifications

ECLASS

ECLASS-9.0	27130806
ECLASS-10.0.1	27130806
ECLASS-11.0	27420290

ETIM

ETIM 8.0	EC002564

UNSPSC

UNSPSC 21.0	39121500

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