

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



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	CL28
Product key	CLC151
GTIN	4063151525712
Weight per piece (including packing)	261.2 g
Weight per piece (excluding packing)	261.2 g
Customs tariff number	85480090
Country of origin	CN

Technical data

Product properties

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

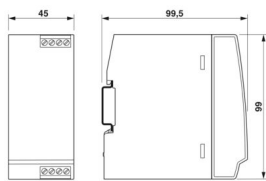
Electrical properties

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	45 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

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Mechanical data

Open side panel	No
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Protective circuit

Nominal frequency f_N	50 Hz (60 Hz)
Rated current	10 A (50 °C)
Protective conductor 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)
Short-circuit current rating I_{SCCR}	10 kA AC (gG, Class J)
	3 kA AC (MCB B)
	3 kA AC (MCB, UL 489 Tripping Curve Z or B)
	3 kA AC (MCB, CSA C22.2 No. 5-02 Tripping Curve Z or B)
	6 kA DC (gG, Class J)
Max. required back-up fuse	6 A AC/DC (gG, Class J)
	10 A AC (MCB B)
	10 A AC (MCB, UL 489 Tripping Curve Z or B)
	10 A AC (MCB, CSA C22.2 No. 5-02 Tripping Curve Z or B)

Filter data

Discharge resistance	940 k Ω
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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

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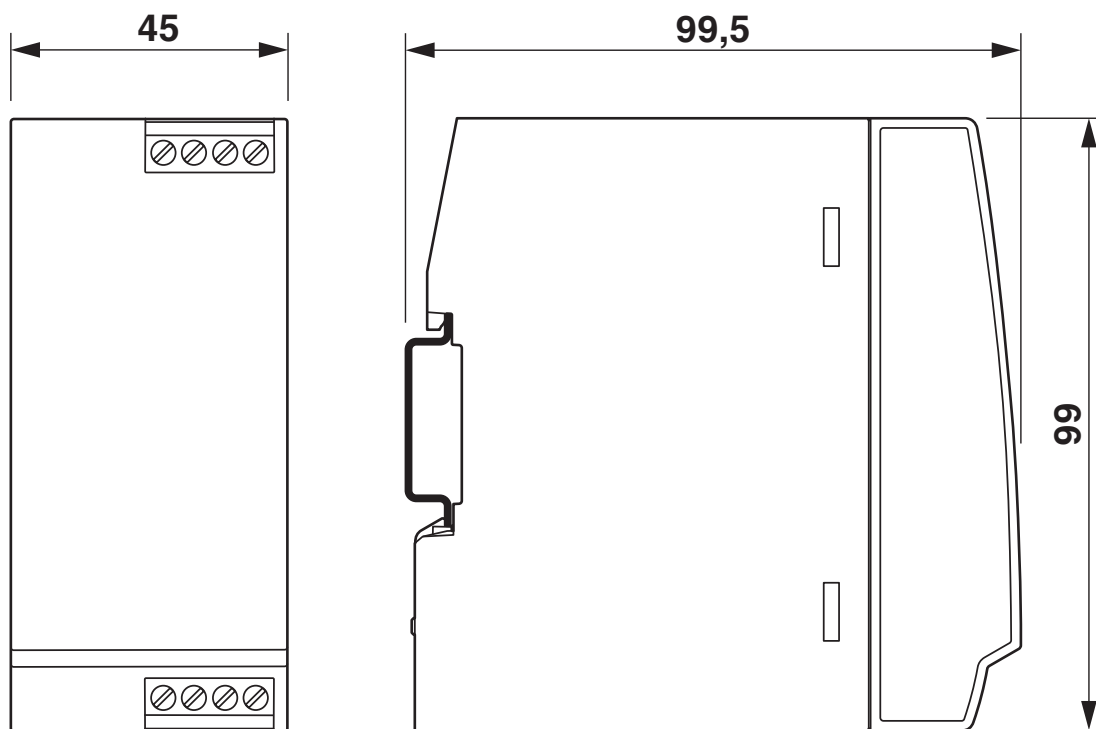
Standards/specifications	CSA C22.2 No. 8-13
Standards/specifications	CSA C22.2 No. 213-17

Mounting

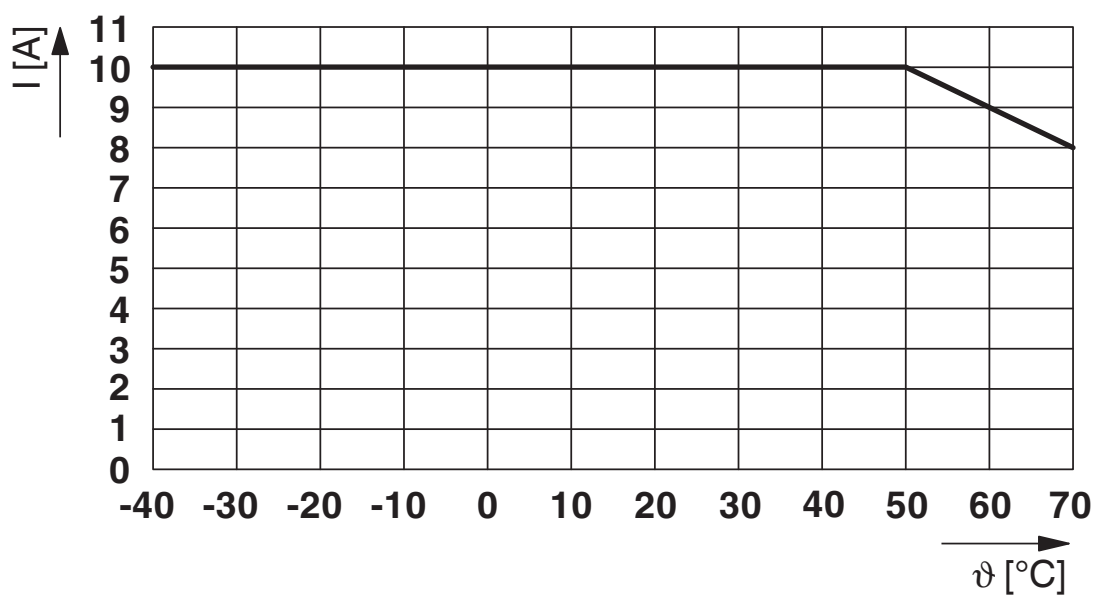
Mounting type	DIN rail: 35 mm
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Drawings

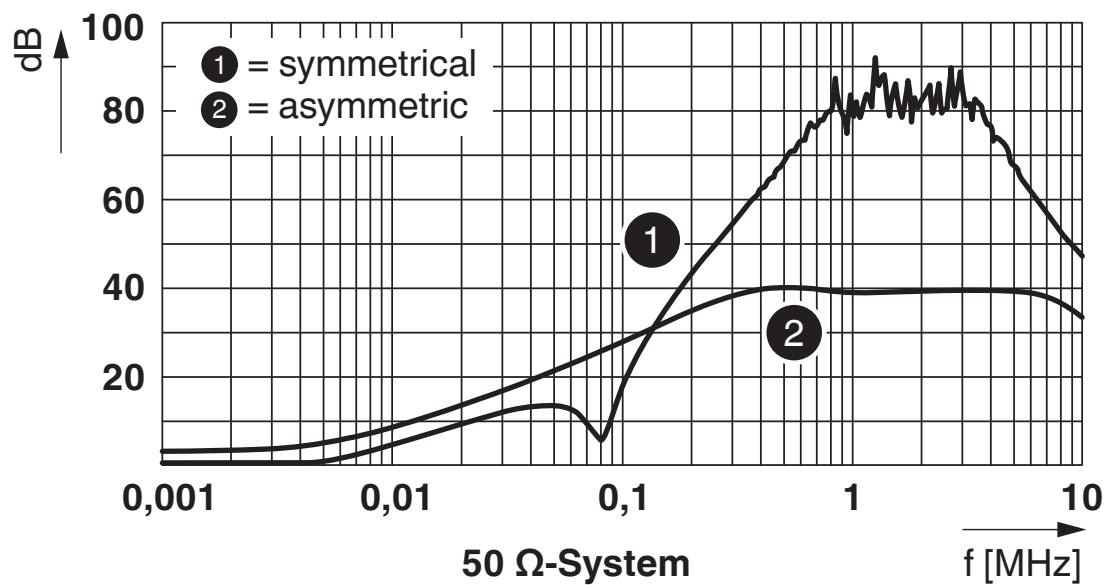
Dimensional drawing



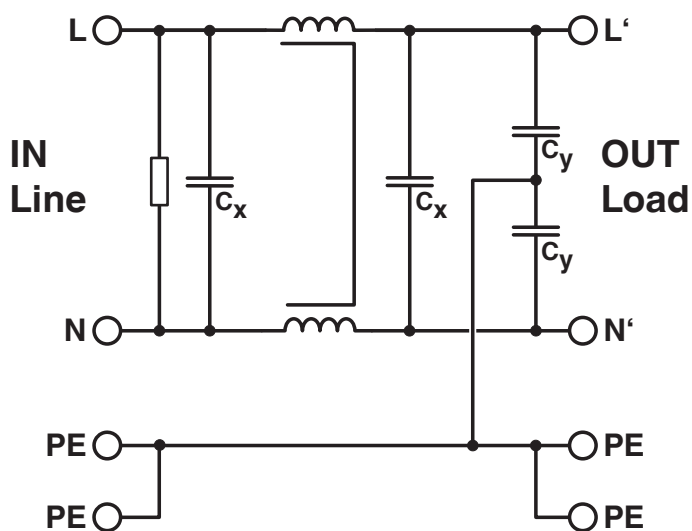
Diagram



Diagram



Circuit diagram



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Approvals

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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

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cUL Recognized
Approval ID: E340736



UL Recognized
Approval ID: E340736



CSA
Approval ID: 80228706



CSAus
Approval ID: 80228706

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Classifications

ECLASS

ECLASS-13.0	27420208
ECLASS-15.0	27420208

ETIM

ETIM 9.0	EC002564
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UNSPSC

UNSPSC 21.0	39121500
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