

1292413

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EMC filter (mains filter) for single-phase AC systems, for mounting on NS 35, integrated surge protective device (type 2 SPD), nominal voltage: 230 V AC, nominal current: 20 A

Your advantages

- · Reliable protection of sensitive equipment against high-frequency conducted interference and against surge voltage and surge current pulses
- Effective attenuation with current-coupled coils and X and Y capacitors
- · Versatile in use with universal circuit design
- · Effective surge protection on the input and output side of the EMC filter
- · User-friendly handling thanks to easy assembly and installation with Push-in connection technology (PT)

Commercial data

Item number	1292413
Packing unit	1 pc
Minimum order quantity	1 pc
Sales key	CL29
Product key	CLC161
GTIN	4063151525545
Weight per piece (including packing)	812 g
Weight per piece (excluding packing)	620 g
Customs tariff number	85480090
Country of origin	CN



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Technical data

Notes

General	
Note	Only for use in IT systems between L-PE if the exposed conductive parts of the equipment of the low-voltage electrical installation are connected to the grounding system of the transformer station. (common grounding of the HV transformer station and the exposed conductive parts of the LV consumer installation. RE = RA in accordance with IEC 60364-4-44:2007 Figure 44.A1 and Table 44.A1).

Product properties

Product type	EMC filters
IEC power supply system	TN
	TT
	IT
Туре	DIN rail module, one-piece
Number of positions	2
Surge protection fault message	Optical, remote indicator contact
Insulation characteristics	
Overvoltage category	III
Pollution degree	2

T2

T2

Two

Electrical properties

Number of ports

EN type

IEC test classification

Maximum power dissipation for nominal condition	≤ 6 W
Indicator/remote signaling	
Connection name	Remote fault indicator contact
Switching function	Changeover contact
Operating voltage	12 V AC 250 V AC
	250 V DC (250 mA DC)
Operating current	100 mA AC 1 A AC
	1 A DC (48 V DC)

Connection data

Connection method	Push-in connection
Conductor cross-section flexible	0.5 mm² 6 mm²
Conductor cross-section rigid	0.5 mm² 4 mm²
Conductor cross-section AWG	20 10



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Dimensions

Dimensional drawing	59.7
Width	60 mm
Height	130 mm
Depth	133 mm

Material specifications

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

Mechanical properties

Mechanical data

Protective circuit

Mode of protection	L-N
	L-PE
	N-PE
Nominal voltage U _N	240 V AC (TN)
	240 V AC (TT - only in use with RCD)
	240 V AC (IT - see note)
Nominal frequency f _N	50 Hz (60 Hz)
Maximum continuous operating voltage $\mathbf{U}_{\mathbf{C}}$	264 V AC
Rated load current I _L	20 A (50 °C)
Protective conductor current I _{PE}	≤ 0.5 mA
Reference test voltage U _{REF}	264 V AC
Nominal discharge current I _n (8/20) μs	5 kA
Voltage protection level U _p	≤ 1.1 kV
TOV behavior at U _T (L-N)	457 V AC (5 s / withstand mode)
	457 V AC (120 min / safe failure mode)
TOV behavior at U _T (L-PE)	457 V AC (5 s / withstand mode)
	457 V AC (120 min / withstand mode)
	1464 V AC (200 ms / safe failure mode)



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TOV behavior at U _T (N-PE)	1200 V AC (200 ms / safe failure mode)
Response time t _A	≤ 100 ns
Capacity (L-N)	2x 1 µF ±20 % (X2-250 V)
	10 nF ±20 % (X2-275 V)
Capacity (L-PE)	2.2 nF ±20 % (Y2-250 V)
Capacity (N-PE)	2.2 nF ±20 % (Y2-250 V)
Max. required back-up fuse	20 A (MCB B)
Input attenuation aE, sym.	20 dB (≥ 100 kHz / 50 Ω)
Input attenuation aE, asym.	30 dB (≥ 1 MHz / 50 Ω)
Short-circuit current rating I _{SCCR}	6 kA AC
Filter data	
Discharge resistance	940 kΩ (±1 %)

Environmental and real-life conditions

Ambient conditions

Degree of protection	IP20
Ambient temperature (operation)	-40 °C 70 °C
Ambient temperature (storage/transport)	-40 °C 70 °C
Altitude	≤ 2000 m (amsl)
Permissible humidity (operation)	5 % 95 %
Shock (operation)	15g (Half-sine / 6 ms / 100x ±X, ±Y, ±Z)
Vibration (operation)	1g (1-150 Hz/10 cycles/XYZ)

Standards and regulations

Standards/specifications	IEC 61643-11
Note	2011
Standards/specifications	EN 61643-11
Note	2012 + A11:2018
Standards/specifications	EN 60939-2
Note	2006 + AMD1:2023

Mounting

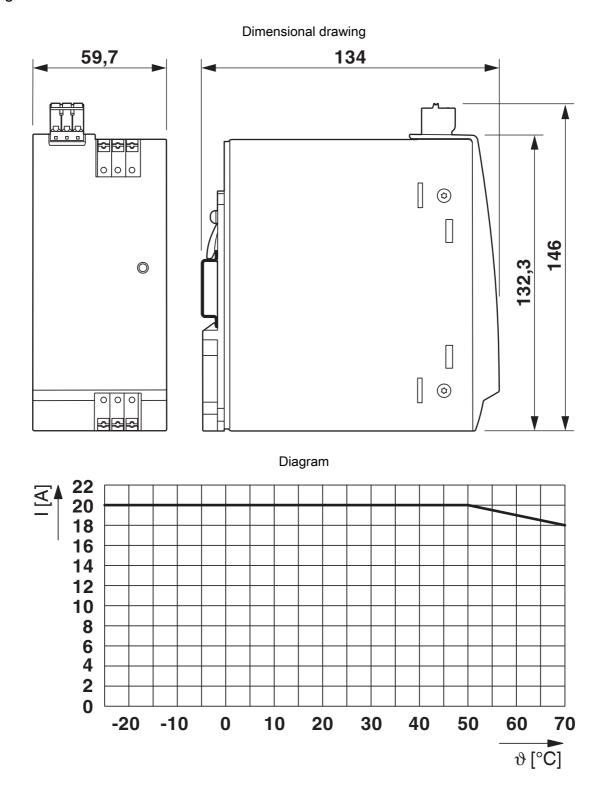
Mounting type	DIN rail: 35 mm



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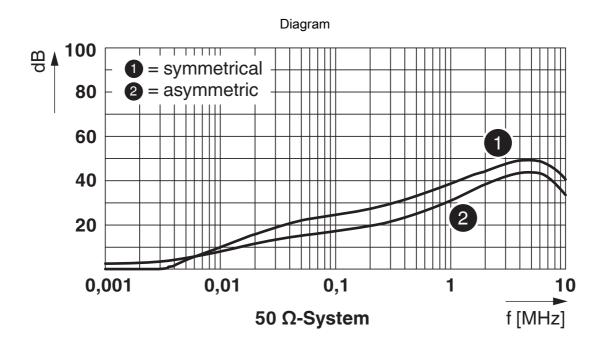
Drawings

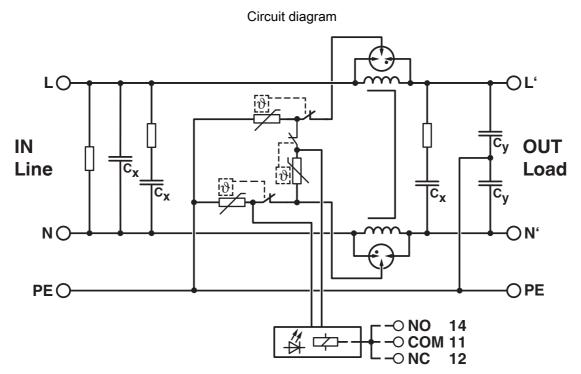




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Approvals

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VDE Zeichengenehmigung Approval ID: 40060084



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Classifications

ECLASS

	ECLASS-13.0	27420208		
	ECLASS-15.0	27420208		
ETIM				
	ETIM 9.0	EC002564		
UN	ISPSC			

UNSPSC 21.0	39121500



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Environmental product compliance

EU RoHS

Fulfills EU RoHS substance requirements	Yes
Exemption	7(a)
China RoHS	
Environment friendly use period (EFUP)	EFUP-25
	An article-related China RoHS declaration table can be found in the download area for the respective article under "Manufacturer declaration". For all articles with EFUP-E, no China RoHS declaration table issued and required.
EU REACH SVHC	
REACH candidate substance (CAS No.)	Hexahydromethylphthalic anhydride(CAS: n/a)
	Lead(CAS: 7439-92-1)

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