

1292315

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EMC filter (mains filter) for 1-phase AC systems, for mounting on NS 35, integrated surge protective device (UL Type 2CA SPD, IEC Type 2 SPD), nominal voltage: 120 V AC, nominal current: 5 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 screw connection technology (UT)

Commercial data

Item number	1292315
Packing unit	1 pc
Minimum order quantity	1 pc
Sales key	CL29
Product key	CLC161
GTIN	4063151525026
Weight per piece (including packing)	707.2 g
Weight per piece (excluding packing)	707.2 g
Customs tariff number	85480090
Country of origin	CN



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Technical data

Notes

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).
roduct properties	
Product type	FMC filters

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Product type	EMC filters
IEC power supply system	TN
	ТТ
	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

Overvoltage category	III
Pollution degree	2
IEC test classification	T2
EN type	T2
Number of ports	Two

Electrical properties

Maximum power dissipation for nominal condition	≤ 1 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	Screw terminal blocks
Screw thread	M3
Tightening torque	0.6 Nm 0.8 Nm
Conductor cross-section flexible	0.5 mm² 6 mm²
Conductor cross-section rigid	0.5 mm² 6 mm²
Conductor cross-section AWG	20 10



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Dimensions

Dimensional drawing	59.7 194 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
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

Open side panel	No
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Protective circuit

Mode of protection	L-N
	L-PE
	N-PE
Nominal voltage U _N	120 V AC (TN)
	120 V AC (TT - only in use with RCD)
	120 V AC (IT - see note)
Nominal frequency f _N	50 Hz (60 Hz)
Maximum continuous operating voltage $\mathbf{U}_{\mathbf{C}}$	150 V AC
Rated load current I _L	5 A (70 °C)
Protective conductor current I _{PE}	≤ 0.5 mA
Reference test voltage U _{REF}	132 V AC
Nominal discharge current I _n (8/20) μs	5 kA
Voltage protection level U _p	≤ 0.6 kV
TOV behavior at U _T (L-N)	229 V AC (5 s / withstand mode)
	229 V AC (120 min / withstand mode)
TOV behavior at U _T (L-PE)	229 V AC (5 s / withstand mode)
	175 V AC (120 min / withstand mode)
	1332 V AC (200 ms / safe failure mode)
TOV behavior at U _T (N-PE)	1200 V AC (200 ms / safe failure mode)
Response time t _A	≤ 100 ns



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Capacity (L-N)	2x 1 μF ±20 % (X2-250 V)
	10 nF ±20 % (X2-275 V)
Capacity (L-PE)	3.3 nF ±20 % (Y2-250 V)
Capacity (N-PE)	3.3 nF ±20 % (Y2-250 V)
Max. required back-up fuse	10 A (MCB C)
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	
Tiller Uala	
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)

Approvals

Conformity	αA\v	provals

DC operating voltage

AC operating current

UL, USA / Canada	Class I, Div. 2, Groups A, B, C, D
UL specifications	
Maximum continuous operating voltage MCOV	150 V AC
Short-circuit current rating (SCCR)	10 kA
Voltage protection rating VPR	500 V
Nominal discharge current I _n	5 kA
Mode of protection	L-N
	L-G
	N-G
Nominal voltage	120 V AC
Rated load current I _L	5 A (60 °C)
Power distribution system	Single phase
Nominal frequency	50/60 Hz
SPD Type	2CA
UL indicator/remote signaling	
Operating voltage	12 V AC 250 V AC

250 V DC (250 mA DC)

100 mA AC ... 1 A AC



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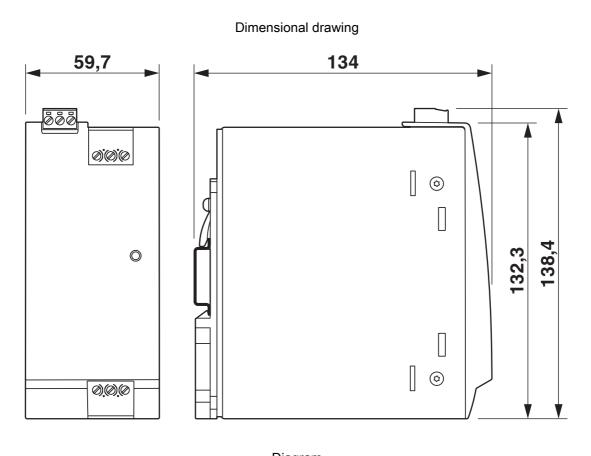
DC operating current	1 A DC (48 V DC)
UL connection data	
Tightening torque	5 lb _f -in 7 lb _f -in.
Conductor cross-section AWG	12 10
Standards and regulations	
Standards/specifications	IEC 61643-11
Note	2011
Standards/specifications	EN 61643-11
Note	2012 + A11:2018
Standards/specifications	EN 60939-2
Note	2006 + AMD1:2023
Mounting	
Mounting type	DIN rail: 35 mm

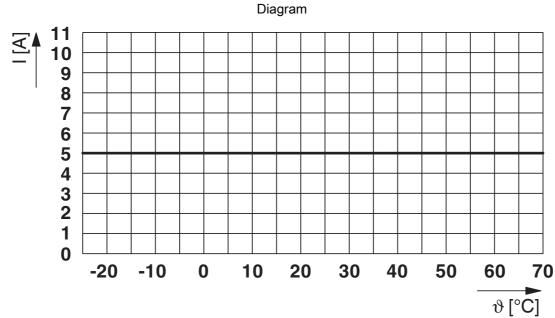


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Drawings

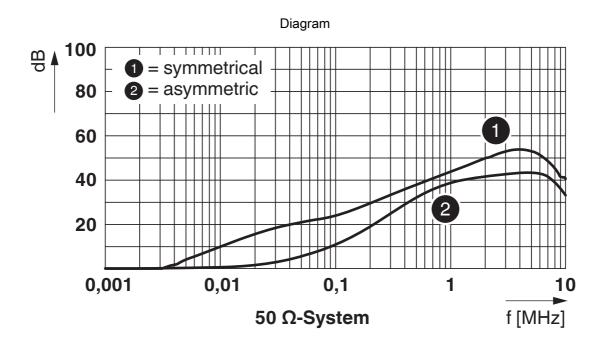


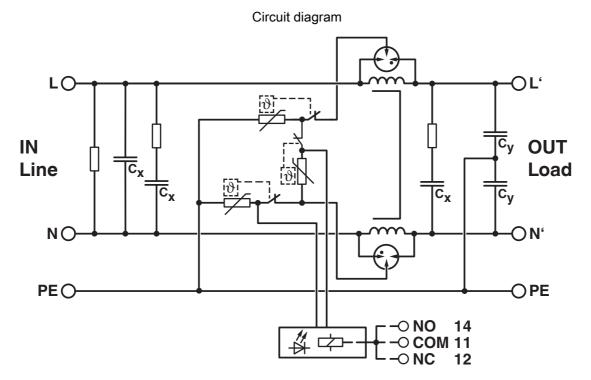




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Approvals

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cUL Recognized

Approval ID: FILE E 330181



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Approval ID: 80231371

UL Comp Hazloc CA US

Approval ID: E340736



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Classifications

ECLASS

	ECLASS-13.0	27420208			
	ECLASS-15.0	27420208			
ETIM					
	ETIM 9.0	EC002564			
UNSPSC					
	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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