



Technical Information

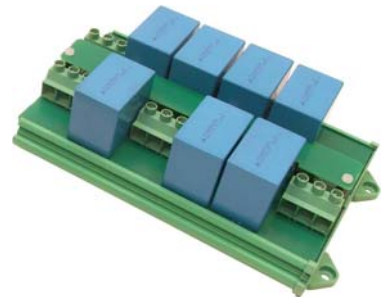
LINE FILTER SK CIF-323-20

Part No. 276997070

Overtoltage filter – CSA filter

Technical characteristics:

Voltage limitation filter pursuant to CSA 22.2 No. 14-5 / UL508C Ch. 48 for reduction of a 5 kV surge pulse (rising edge 1.2 µs/trailing edge 50 µs) to max. 300% of the amplitude of the rated voltage (230 VAC/240VAC for SK CIF 323i20).



Module SK CIF-323-20 must be used in combination with a suitable mains choke only ($L_{\min} = 3 \times 0.73 \text{ mH}$). The permanent current flowing through the choke must not be less than the resulting typical input current of the connected frequency inverter(s).

CAUTION!



When using a single-phase frequency inverter (SK 2xxE-XXX-123-...) L1 and also L2/N must be wired to a choke. To do so, you can use a 2-phase ($L_{\min} = 2 \times 0.73 \text{ mH}$) or a 3-phase input choke ($L_{\min} = 3 \times 0.73 \text{ mH}$).

Note

With the use of a line choke, the effective input currents of the frequency inverters reduce to approximately the values of the output currents, depending on inductance and load. Several frequency inverters can be connected to a choke/filter combination. When doing so, the sum of input currents must not exceed the rated/nominal current of the filter and/or the choke.

Area of application:

Frequency inverter SK 5xxE-250-323-A ... SK 5xxE-301-323-A
 SK 2xxE-250-123-A ... SK 2xxE-111-123-A
 SK 2xxE-250-323-A ... SK 2xxE-401-323-A

It is also possible to connect several frequency inverters to an appropriate filter. In this case, the resulting typical input current (see technical data of FI) is definitive.

Technical parameters:

Rated voltage	[V]	1/3~ 200 ... 240 ± 10%
Mains voltages	[V]	1/3~ 230 / 1/3~ 240
Rated frequency	[Hz]	47 – 63
Rated current (FLA)	[A]	20 (max.) (input/output current)
max. line fuse	[A]	25*
Weight	[kg]	0,61
Protection class		IP 20
Ambient temperature	[°C]	0 ... +50
Operating mode		S1 – 100% duty cycle

Certifications

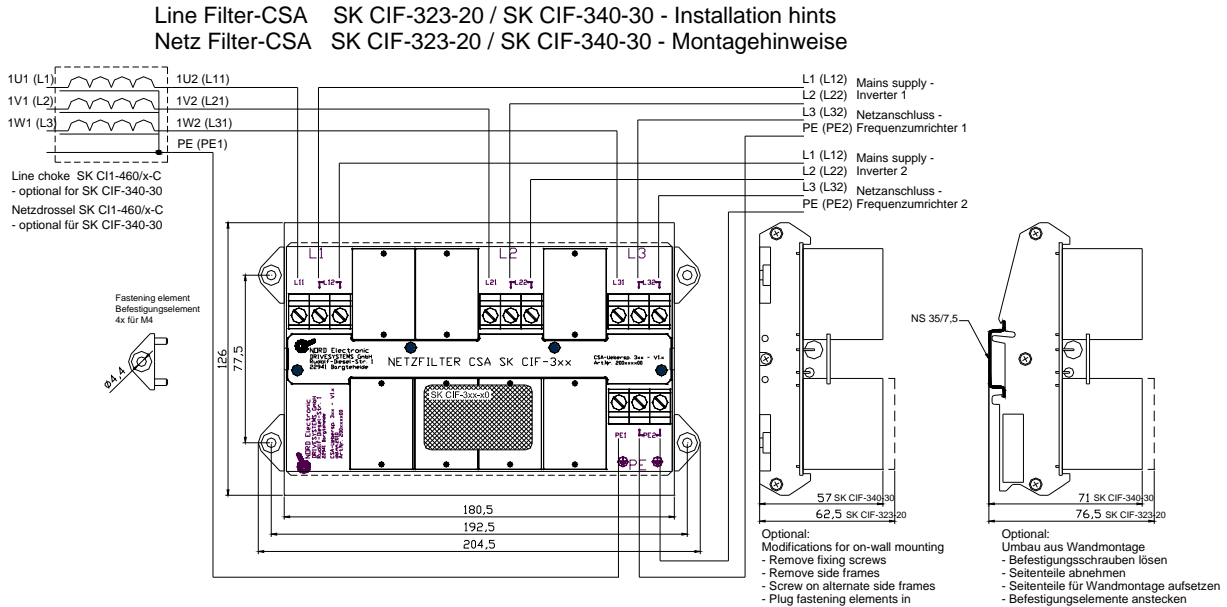
CE; cURus; RoHS

* Class, type and rating of fuse according to connected frequency inverters

Connections:

Input and output	Screw/plug-in terminal	0,2 ... 4 mm ² L1/L2/L3/PE
Terminal screw tightening torque		0.5 ... 0.6 Nm (5 ... 7 lb-in)

Schematic circuit diagram of electrical connection:



Installation data:

Dimensions:	[mm]	L 180,5 x W 126 x D 76,5 (Snap-on rail mounting) L 204,5 x B 126 x T 62,5 (on-wall mounting)
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Scope of delivery:

Voltage limitation filter without additional accessories with 4 off removable fastening elements for on-wall mounting.

UL/cUL approval (supplement to specifications in the frequency inverter manual):

"Use 75°C Copper Conductors Only"

"Connection of copper cable with an insulation rating of at least 75°C"

(only refers to connection cables (mains and motor cables but not control cables))

"These products are intended for use in a pollution degree 2 environment"

"The product is suitable for operation in a pollution degree 2 environment"

"Total SCCR of the combination (drive and transient surge suppression device) will be determined by the max. SCCR rating of the drive according the drive manual or label, type and rating of the Branch Circuit Protection.", or equivalent. Protection as described in drive manual, for example type J, T fuses or inverse time trip type circuit breaker.

The total short-circuit current rating of the combination (SK CIF and frequency inverter) is determined by the maximum short-circuit current rating of the connected frequency inverter. Protection as described in the frequency inverter manual by approved lead cut-outs or circuit breakers.

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1.0	First edition	03.11.10	Rck	TI 030 276997070	2/2
1.1	Supplement to UL/cUL approval conditions, tightening torques in lb-in	24.02.12	Rck		
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