

U Mototechny 107 251 62 Tehovec Czech Republic Tel.: +420 323605511 +420 323660013 Fax: +420 323607922 http://www.skybergtech.com

E-mail: info@skybergtech.com

<u>Three-phase interference suppression filters (unsymmetric</u> consumption) - series B : for currents 3-16 A

Description:

It is a single LC circuit consisting of chokes and condensers. In three-phase filters of series SKY4FLxxB a composed choke has 4 windings on a common core. The filter is used for five-conductor network. The used safety condensers of type X are being wired among phases for filtration of symmetrical component. The condensers of type Y are being wired towards the ground for filtration of asymmetric component. They are delivered with terminals in a plastic and metal case.

Functions of the interference suppression filters:

The LC filter is formed by low-pass filter 0 – 9kHz. It reduces a level of radio frequency interference in conductors from the side of appliance and also increases its resistance to interference from the surroundings. The filters function either way. The most effective they are from 150kHz to 30MHz.





 Nominal operating voltage
 Un: 3x230/400 Vac

 Extent of operating frequencies fn (for In)
 Fn: 50-60 Hz

 Extent of operating currents
 In: 3-16A

 Short-term overcurrent capacity : 50% In
 Thermal class : B

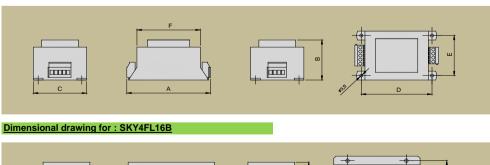
 Protection class : IP00
 Extent of operating temperature : -10°C + 40°C

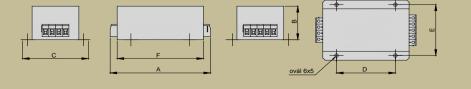
Conducto basic dimensions [mm] Nominal Leakage cross Туре Weight current 1 current section [A] [mA] [kg] [mm 2] D width pitch other height pitch ength SKY4FL3B 3 < 14 0.3 2.5 91 47.5 58 77 47.5 69 SKY4FL6B 91 47,5 58 47,5 6 < 14 0,3 69 2,5 SKY4FL10B < 14 0,3 91 47,5 58 77 47,5 69 SKY4FL16B 16 < 14 1.1 4-6 150 55 98.5 88 83.5 129

* After a deal there is a possibility of modification of the filter construction according to the customer's request.

1*) Leakage current measurement was performed according to the standard ČSN EN 60950.

Dimensional drawing for : SKY4FL3B - SKY4FL10B





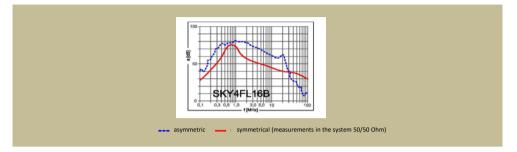
Attenuation characteristic:

--- asymmetric --- symmetrical (measurements in the system 50/50 Ohm)

SKY4FL6B

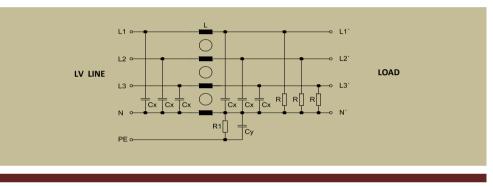
0.3 0,5 1,0

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Wiring diagram:

SKY4FL3B



Use:

It is used to frequency converters and appliances which need supplemental interference suppression. For example: soft starters, pulse resources, thyristor controls, electronic units and whole switchboards.

Dimensioning, wiring:

They are dimensioned according to indicated label nominal voltage and current values. Short-circuit protection must not exceed nominal current value. When installing into switchboards it is necessary to count with power loss of the filters although it is not as large as the power loss in chokes or in sinusoidal filters. But also it is necessary to provide for sufficient heat removal. When connecting it is necessary to meet the EMC requirements. There must not be any paralleling of interference-suppressed and non-interference-suppressed circuits. The grounding connections must be as short as possible.