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<u>Three-phase interference suppression filters (unsymmetric</u> consumption) - series B : for currents 60-400 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 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.



TECHNICAL PARAMETERS:

Nominal operating voltage Un: 3x230/400 Vac Extent of operating frequencies fn (for In) Fn: 50-60 Hz Extent of operating currents In: 60-400A

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

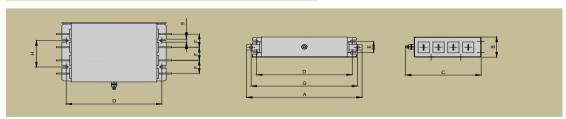
Protection class : IP00

Extent of operating temperature : -10°C + 40°C

Туре	Nominal current	Leakage current 1*)	Weight	Conductor cross section	basic dimensions [mm]							
	[A]	[mA]	[kg]	[mm]	Α	В	С	D	Е	F	G	Н
					length	height	width	pitch	pitch	pitch	pitch	pitch
SKY4FL60BP	60	< 28	2,1	20x3 Ø9	310	61,5	203	257	34	40	286	80
SKY4FL80BP	80	< 28	2,2	20x3 Ø9	310	61,5	203	257	34	40	286	80
SKY4FL100BP	100	< 28	3,2	20x3 Ø9	310	61,5	203	257	34	40	286	80
SKY4FL150BP	150	< 28	3,2	20x3 Ø9	310	61,5	203	257	34	40	286	80
SKY4FL200BP	200	< 28	3,8	20x3 Ø9	310	61,5	203	257	34	40	286	80
SKY4FL250BP	250	< 28	3,8	20x3 Ø9	310	61,5	203	257	34	40	286	80
SKY4FL320BP	320	< 28	8,7	25x5 Ø9	395	61,5	203	332	34	40	361	120
SKY4FL400BP	400	< 28	8,7	25x5 Ø9	395	61,5	203	332	34	40	361	120

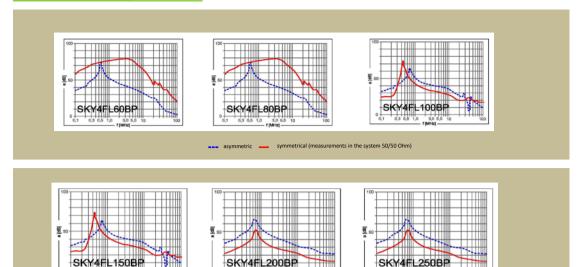
^{*} After a deal there is a possibility of modification of the filter construction according to the customer's request.

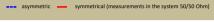
<u>Dimensional drawing for : SKY4FL60BP - SKY4FL400BP</u>

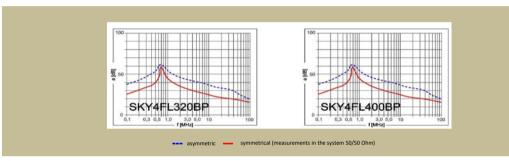


^{1*)} Leakage current measurement was performed according to the standard ČSN EN 60950.

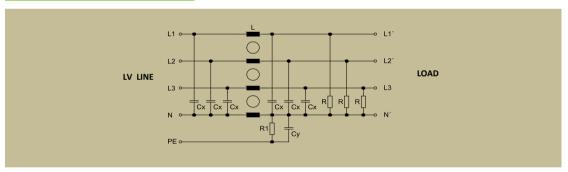
Attenuation characteristic:







Wiring diagram:



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.