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Un: 3x230/400 Vac

Fn: 50-60 Hz In: 60-400A

# Three-phase interference suppression filters - series C:

## for currents 60 - 400 A

#### Description:

It is a double LC circuit consisting of chokes and condensers. In three-phase filters of series SKY3FLxxC is a composed choke formed by 3 windings. 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 Extent of operating frequencies fn (for In) Extent of operating currents Short-term overcurrent capacity: 50% In

Thermal class : B

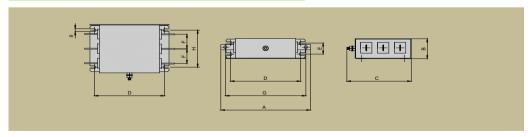
Protection class : IP00

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	
SKY3FL60CP	60	< 80	3,0	20x3 Ø9	308	61,5	171	257	34	45	284	114	
SKY3FL80CP	80	< 80	3,0	20x3 Ø9	308	61,5	171	257	34	45	284	114	
SKY3FL100CP	100	< 80	3,7	20x3 Ø9	353	61,5	171	302	34	45	329	114	
SKY3FL150CP	150	< 80	3,7	20x3 Ø9	353	61,5	171	302	34	45	329	114	
SKY3FL200CP	200	< 80	3,9	20x3 Ø9	357	61,5	171	302	34	45	333	114	
SKY3FL200CPIT	200	< 80	3,9	20x3 Ø9	357	61,5	171	302	34	45	333	114	
SKY3FL250CP	250	< 80	3,9	20x3 Ø9	357	61,5	171	302	34	45	333	114	
SKY3FL320CP	320	< 80	5,7	25x5 Ø11	395	61,5	202	332	34	60	361	138	
SKY3FL320CPIT	320	< 80	5,7	25x5 Ø11	395	61,5	202	332	34	60	361	138	
SKY3FL400CP	400	< 80	5,9	25x5 Ø11	395	61,5	202	332	34	60	361	138	

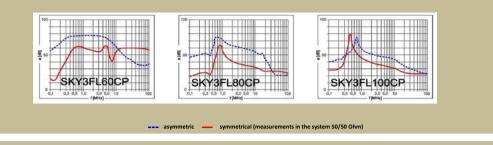
<sup>\*</sup> After a deal there is a possibility of modification of the filter construction according to the customer's request.

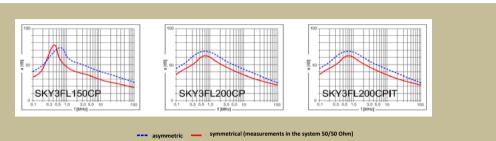
## Dimensional drawing for : SKY3FL60CP - SKY3FL400CP

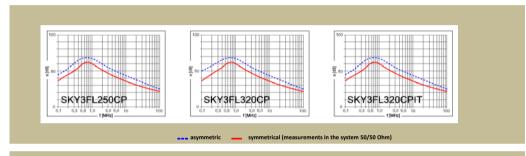


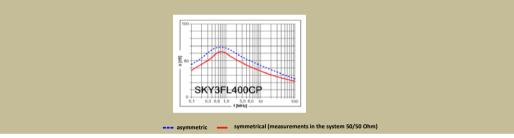
<sup>1\*)</sup> Leakage current measurement was performed according to the standard ČSN EN 60950.

### Attenuation characteristic:

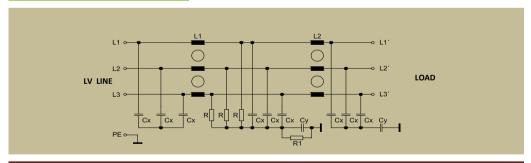








## Wiring diagram:



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.