

Three-phase interference suppression filters, type TZS

Description:

3FN series are radio frequency three-phase interference suppression filters with a commutating choke. Low pass filter is created by combination of inductance L and condensers C. The low pass filter restricts radio frequency interference which is spread back to a feed array and also it increases interference resistance of the device coming from this feed array.

The commutating choke is good for restriction of deformation backward operation to LV line and also for decrease of current harmonic components. It restricts commutating rectifier current.



TECHNICAL PARAMETERS:

SKY3FN3

Nominal operating voltage	Un: 3x230 / 400 Vac
Extent of operating frequencies fn (for In)	Fn: 50-60 Hz
Extent of operating currents	In: 3 A
Short-term overcurrent capacity : 50% In	
Thermal class : B	
Protection class : IP20	
Extent of operating temperature : 0°C + 40°C	

TECHNICAL PARAMETERS:

SKY3FN3P

Nominal operating voltage	Un: 3x230 / 400 Vac
Extent of operating frequencies fn (for In)	Fn: 50-60 Hz
Extent of operating currents	In: 3 A
Short-term overcurrent capacity : 50% In	
Thermal class : B	
Protection class : IP20	
Extent of operating temperature : 0°C + 40°C	

TECHNICAL PARAMETERS:

SKY3FN16B

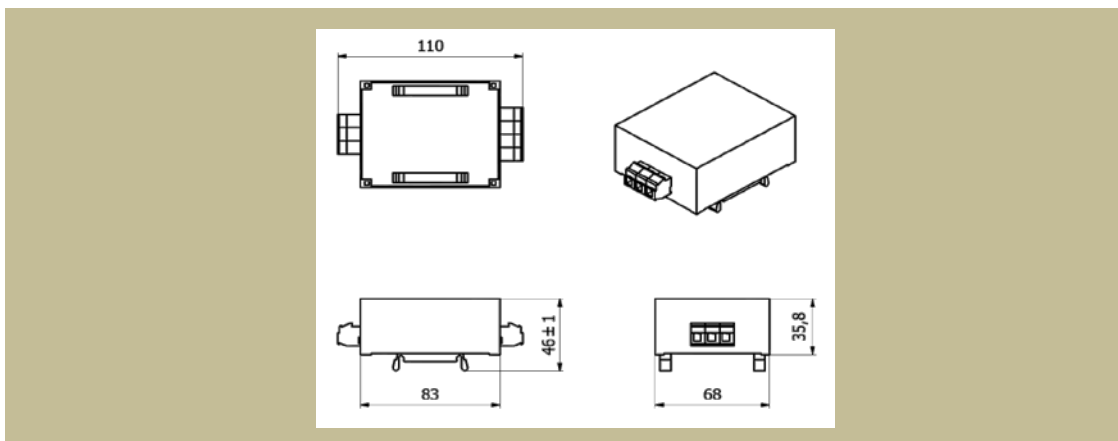
Nominal operating voltage	Un: 3x400 / 230 Vac
Extent of operating frequencies fn (for In)	Fn: 50-60 Hz
Extent of operating currents	In: 16 A
Short-term overcurrent capacity : 50% In	
Thermal class : B	
Protection class : IP20	
Extent of operating temperature : 0°C + 40°C	

Type	Nominal current [A]	Leakage current 1*) [mA]	Weight [kg]	Conductor cross section [mm 2]	basic dimensions [mm]				
					A	B	C	D	E
					length	height	width	pitch	pitch
SKY3FN3	3	< 3,5	0,6	4-6	110	36	68	DIN	lišta
SKY3FN3P	3	< 3,5	0,6	4-6	110	36	79	DIN	lišta
SKY3FN16B	16	< 3,5	4,8	4-6	182	80	160	120	145

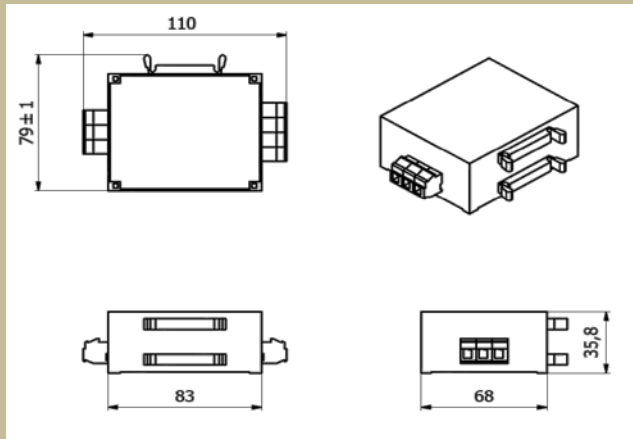
* After a deal there is a possibility of modification of the filter construction according to the customer's request.

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

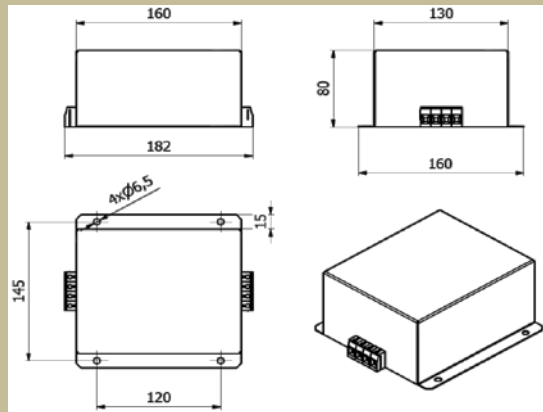
Dimensional drawing for : SKY3FN3



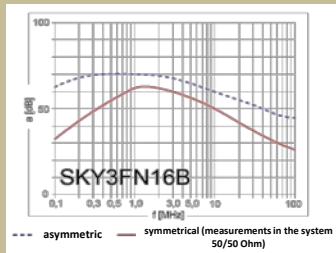
Dimensional drawing for : SKY3FN3P



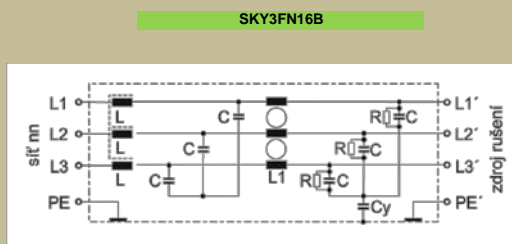
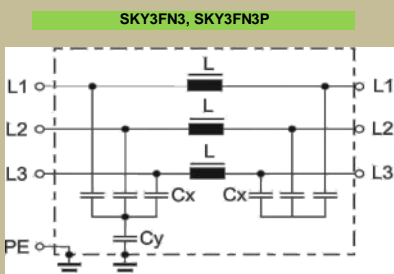
Dimensional drawing for : SKY3FN16B



Attenuation characteristic:



Wiring diagram:



Use:

They are intended for frequency converters into exacting surroundings with vibrations for high protection.

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.
