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Three-phase interference suppression filters TZS series

Description:

4FL series are a radio frequency three-phase interference suppression filter with high attenuation. Low pass filter is created by multiple 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. They are intended for five-conductor TNS network with asymmetrical load.

SKY4FL16BE

SKY4FL16-1kHz

SKY4FL25CITsc

SKY4FL32A

SKY4FL32A-rev.2

SKY4FL63C-E

SKY4FL63-LISN

TECHNICAL PARAMETERS:

SKY4FL16BE

Nominal operating voltage	Un: 3x230 / 400 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	

TECHNICAL PARAMETERS:

SKY4FL16-1kHz

Nominal operating voltage	Un: 3x230 / 400 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	

TECHNICAL PARAMETERS:

SKY4FL25CITsc

Nominal operating voltage	Un: 3x400 / 230 Vac
Extent of operating frequencies fn (for In)	Fn: 50-60 Hz
Extent of operating currents	In:25 A
Short-term overcurrent capacity : 50% In	
Thermal class : B	
Protection class : IP20	
Extent of operating temperature : 0°C + 40°C	

TECHNICAL PARAMETERS:

SKY4FL32A

Nominal operating voltage	Un: 3x230 / 400 Vac
Extent of operating frequencies fn (for In)	Fn: 50-60 Hz
Extent of operating currents	In: 32 A
Short-term overcurrent capacity : 50% In	
Thermal class : B	
Protection class : IP20	
Extent of operating temperature : 0°C + 40°C	

TECHNICAL PARAMETERS:

SKY4FL32A-rev.2

Nominal operating voltage	Un: 3x230 / 400 Vac
Extent of operating frequencies fn (for In)	Fn: 50-60 Hz
Extent of operating currents	In: 32 A
Short-term overcurrent capacity : 50% In	
Thermal class : B	
Protection class : IP00	
Extent of operating temperature : 0°C + 40°C	

TECHNICAL PARAMETERS:

SKY4FL63C-E

Nominal operating voltage	Un: 3x230/400 Vac
Extent of operating frequencies fn (for In)	Fn: 50-60 Hz
Extent of operating currents	In: 63 A
Short-term overcurrent capacity : 50% In	
Thermal class : B	
Protection class : IP00	
Extent of operating temperature : 0°C + 40°C	

TECHNICAL PARAMETERS:

SKY4FL63-LISN

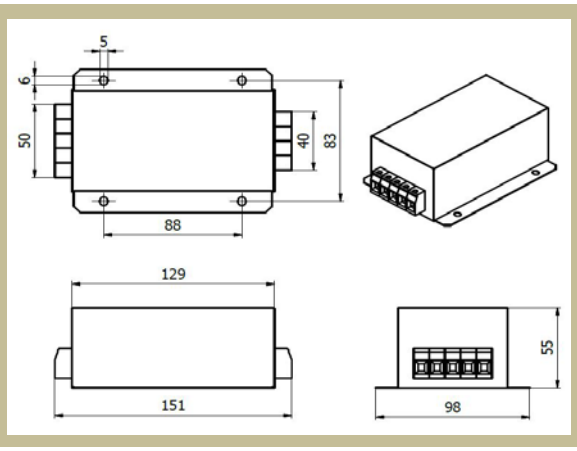
Nominal operating voltage	Un: 3x300/520 Vac
Extent of operating currents	In: 63 A

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
SKY4FL16BE	16	< 14	1,1	4-6	151	55	98	88	83
SKY4FL16-1kHz	16	< 30	1,2	4-6	355	61,5	262	332	120
SKY4FL25CITsc	25	-	1,7	6-10	226	60	103	155	87
SKY4FL32A	32	-	1,1	6-10	133	87	87	115	40
SKY4FL32A-rev.2	32	-	1	30x5 Ø11	133	87	87	115	40
SKY4FL63C-E	63	< 21	6,2	CYA 1	385	62	180	332	80
SKY4FL63-LISN	63	< 236	57,2	20x3 Ø9	624	512	148	-	-

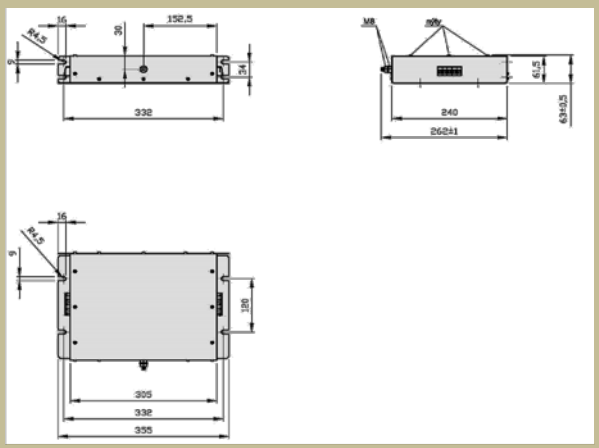
* After a deal there is a possibility of modification of the filter construction according to the customer's request.

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

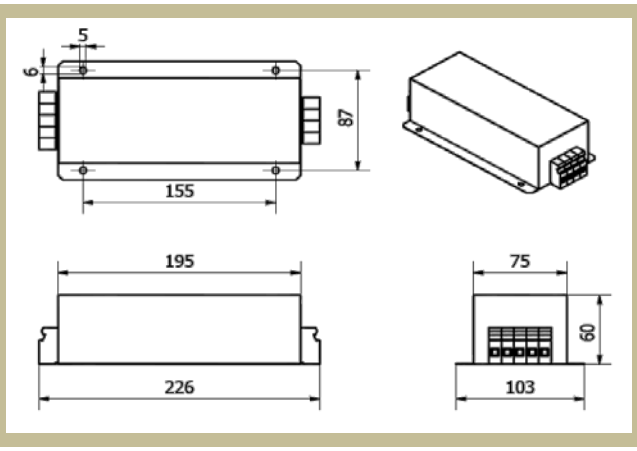
Dimensional drawing for : SKY4FL16BE



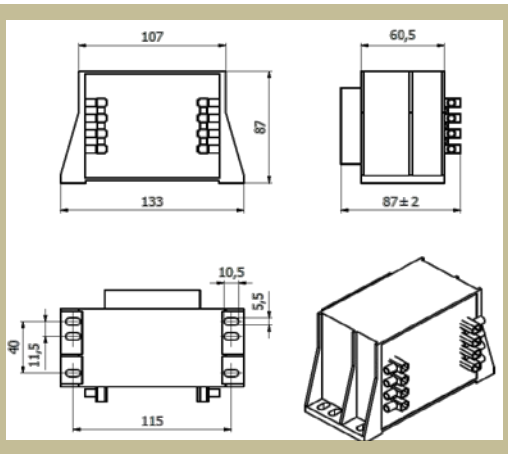
Dimensional drawing for : SKY4FL16-1kHz



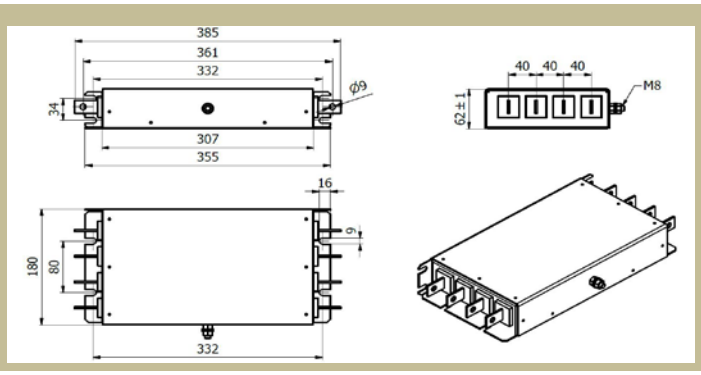
Dimensional drawing for : SKY4FL25CITsc



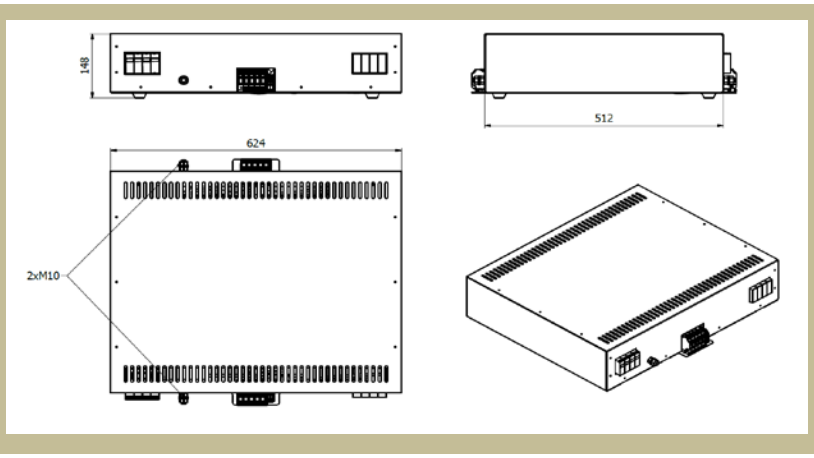
Dimensional drawing for : SKY4FL32A, SKY4FL32A-rev.2



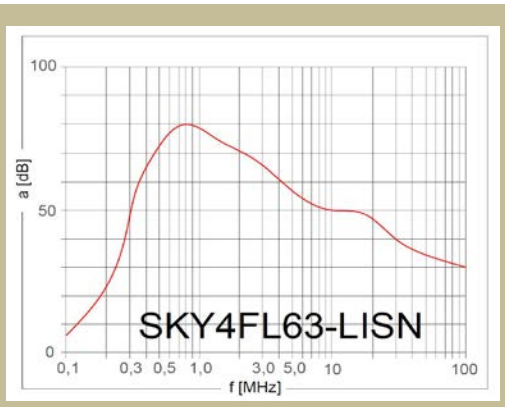
Dimensional drawing for : SKY4FL63C-e



Dimensional drawing for : SKY4FL63-LISN

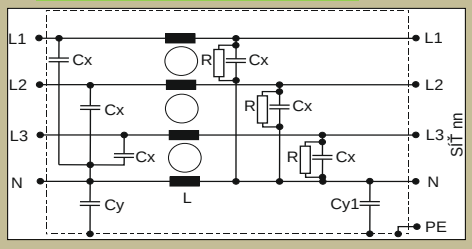


Attenuation characteristic:

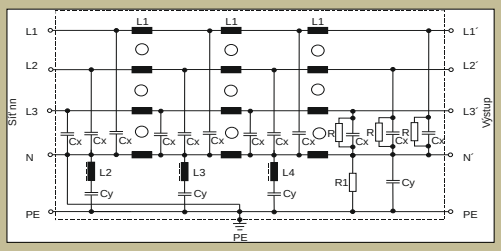


Wiring diagram:

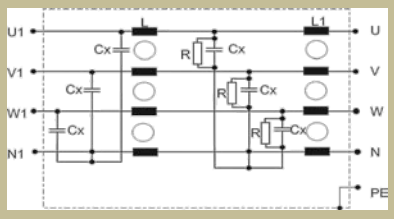
SKY4FL16BE



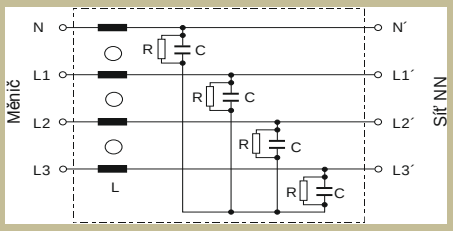
SKY4FL16kHz



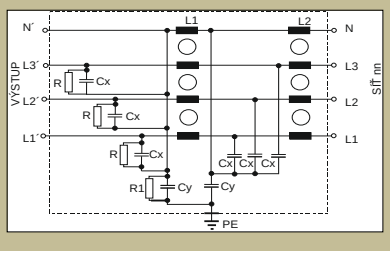
SKY4FL25CITsc



SKY4FL32A, SKY4FL32A-rev.2



SKY4FL63C-E



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.