

Single-phase surge voltage protectors with interference suppression filter

SFL series

Description:

Surge voltage protectors with interference suppression filter **SKYSFL10**, **SKYSFL16** are intended for protection from the effects of impulse overvoltage and radio-frequency interference incoming along LV line.

They function as overvoltage protection of type D. The interference suppression filter is formed from low pass filter 0 -10kHz and it restricts radio-frequency interference in the 0,1-100 MHz range and also it effectively suppresses very rapid impulses.

Contacts S1, S2 serve for indication of overloading of the surge voltage protector. When it comes to opening of contact between S1 and S2, the surge voltage protector will not be functional.

It is designed for an assembly onto a DIN rail into switchboards or straight into the appliance.

SKYSFL10



TECHNICAL PARAMETERS:

Nominal operating voltage	230 Vac
Extent of operating frequencies f_n (for In)	50-60 Hz
Extent of operating currents	10A
Nominal impulse current (L-N) , (L,N-PE) 8/20us	6,5kA,6,5kA
Short-term overcurrent capacity: 50% In	
Thermal class: B	
Protection class: IP20	
Extent of operating temperature: -10°C + 40°C	

SKYSFL16



TECHNICAL PARAMETERS:

Nominal operating voltage	230 Vac
Extent of operating frequencies f_n (for In)	50-60 Hz
Extent of operating currents	16A
Nominal impulse current (L-N) , (L,N-PE) 8/20us	6,5kA,6,5kA
Short-term overcurrent capacity: 50% In	
Thermal class: B	
Protection class: IP20	
Extent of operating temperature: -10°C + 40°C	

SKYSFL10-2c



TECHNICAL PARAMETERS:

Nominal operating voltage	230 Vac
Extent of operating currents	10A
Nominal impulse current (L-N) , (L,N-PE) 8/20us	3kA
Short-term overcurrent capacity : 50% In	
Thermal class : B	
Protection class: IP20	
Extent of operating temperature : -10°C + 40°C	

SKYSFL16-2c



TECHNICAL PARAMETERS:

Nominal operating voltage	230 Vac
Extent of operating currents	16A
Nominal impulse current (L-N) , (L,N-PE) 8/20us	3kA
Short-term overcurrent capacity : 50% In	
Thermal class : B	
Protection class: IP20	
Extent of operating temperature : -10°C + 40°C	

SKYSFL20**TECHNICAL PARAMETERS:**

Nominal operating voltage 230 Vac
 Extent of operating currents 20A
 Nominal impulse current (L-N) , (L,N-PE) 8/20us 6,5kA,6,5kA
 Short-term overcurrent capacity : 50% In
 Thermal class : B
 Protection class: IP20
 Extent of operating temperature : -25°C + 40°C

SKYSFL25**TECHNICAL PARAMETERS:**

Nominal operating voltage 230 Vac
 Extent of operating currents 25A
 Nominal impulse current (L-N) , (L,N-PE) 8/20us 6,5kA,6,5kA
 Short-term overcurrent capacity : 50% In
 Thermal class : B
 Protection class: IP20
 Extent of operating temperature : -25°C + 40°C

SKYSFL3**TECHNICAL PARAMETERS:**

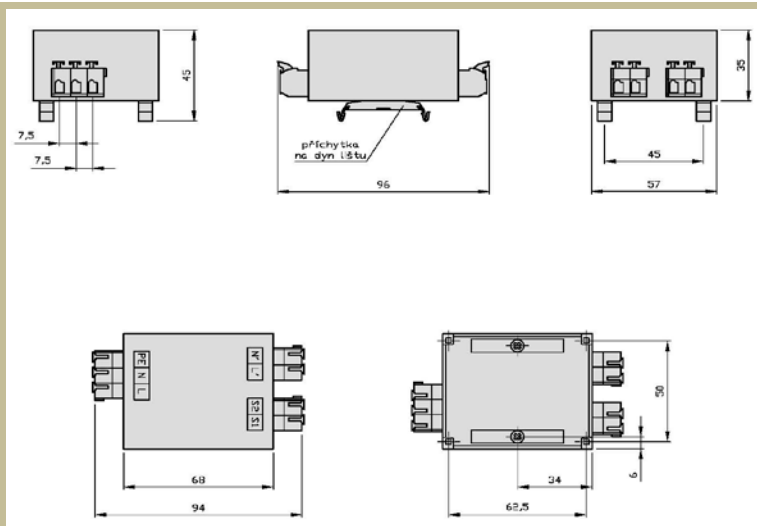
Nominal operating voltage 230 Vac
 Extent of operating currents 3A
 Nominal impulse current (L-N) , (L,N-PE) 8/20us 6kA
 Protection class: IP20

Type	Nominal current [A]	Leakage current 1*) [mA]	Weight [kg]	basic dimensions [mm]					
				A	B	C	D	E	F
				length	height	width	pitch	pitch	other
SKYSFL10	10	< 0,7	0,26	96	35	57	62,5	50	-
SKYSFL16	16	< 0,7	0,26	96	35	57	62,5	50	-
SKYSFL10-2c	10	< 0,75	0,27	89,4	58,6	53,2	-	-	-
SKYSFL16-2c	16	< 0,75	0,27	89,4	58,6	53,2	-	-	-
SKYSFL20	20	< 0,7	0,3	96	35	57	62,5	50	-
SKYSFL25	25	< 0,7	0,3	96	35	57	62,5	50	-
SKYSFL3	3	-	0,3	83	42,5	47	64	36,5	-

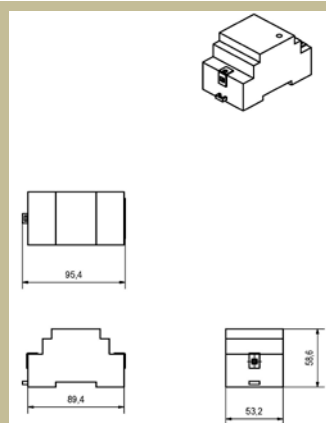
* After a deal there is a possibility of modification of the filter construction according to the customer's request.

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

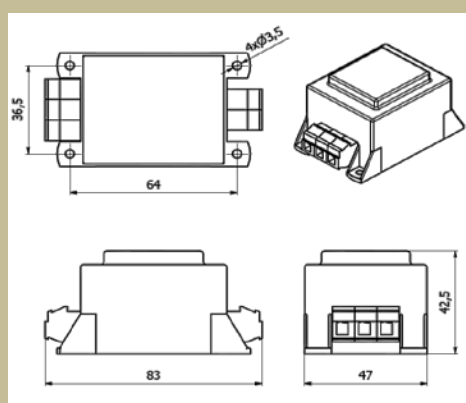
Dimensional drawing : SKYSFL10, SKYSFL16, SKYSFL20, SKYSFL25



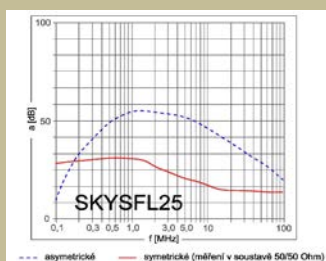
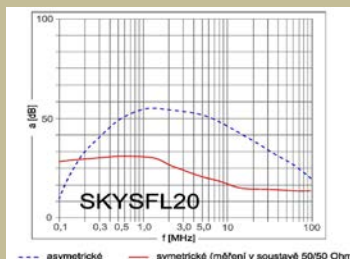
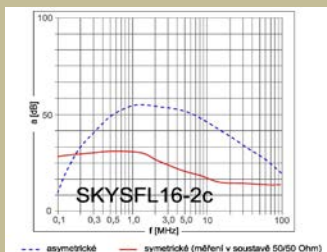
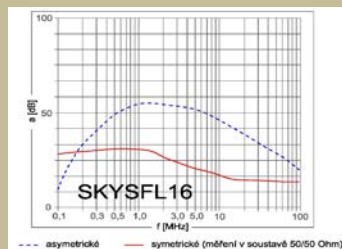
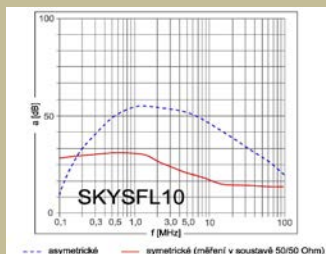
Dimensional drawing : SKYSFL10-2c, SKYSFL16-2c



Dimensional drawing : SKYSFL3

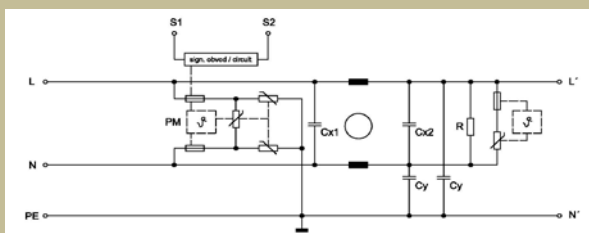


Attenuation characteristics:

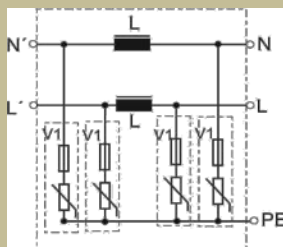


Wiring diagram : SKYSFL10,SKYSFL16,SKYSFL20,SKYSFL25

SKYSFL10, SKYSFL16, SKYSFL20, SKYSFL25



SKYSFL3



Use:

They are used for appliances which we want to protect from impulse overvoltage and radiofrequency interference.

Dimensioning, wiring:

They are dimensioned according to the indicated label nominal voltage and current values. Short-circuit protection must not exceed nominal current value. 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.

Výrobce si vyhrazuje právo na změnu specifikací a vzhledu produktů bez předchozího upozornění.