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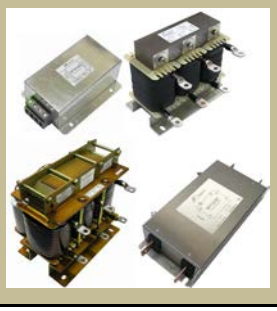
SET for solar power stations
SKY48FOGSIT

Description:

The set for the solar power stations consists of a DC input radio-frequency interference suppression filter, sinusoidal filter, choke and line radio-frequency interference suppression filter. In case of synchronous operation of the inverters is possible to add a three-phase sinusoidal filter consisting of three single-phase chokes.

SKY48FOGSIT



TECHNICAL PARAMETERS :

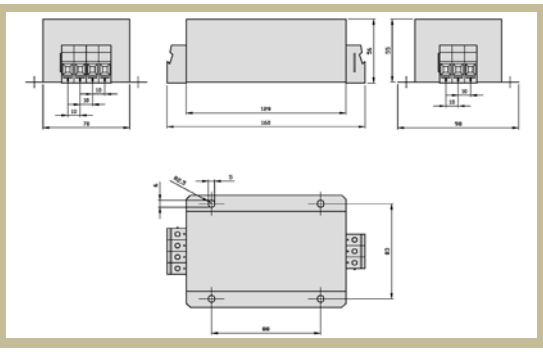
Nominal operating voltage **Un : 3x230/400Vac**
Extent of operating currents **In : 48A**
Extent of operating temperature : 0°C + 40°C

Type	Nominal current [A]	Nominal voltage	Weight [kg]	Conductor cross section [mm 2]	basic dimensions [mm]					
					length	height	width	pitch	pitch	other
SKY3FL50B	50	3x230/400Vac	1,1	6 - 10	160	56	98	88	83	5x6
SKY3TL50-0,6	50	3x230/400Vac	9	6 - 10	180	156	147	122	86	7x13
SKY3FSM48-400	48	3x230/400Vac	22	lug 35x8	240	240	220	200	121	9x15
SKY1FLDC50C	50	1200Vdc	3,5	20x3	357	61,5	176	302	114	9x16

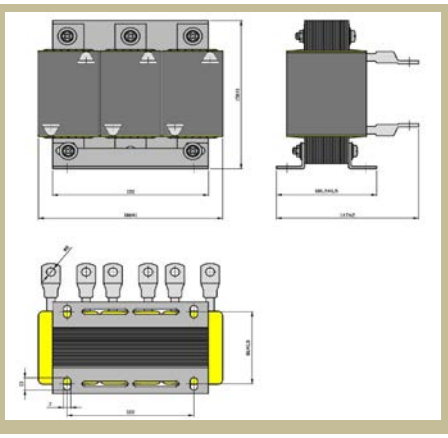
* After a deal there is a possibility of modification of the filter construction according to the customer's request.

Dimensional drawing :

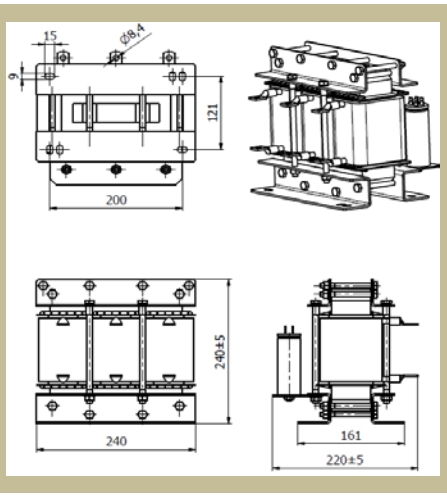
SKY3FL50B



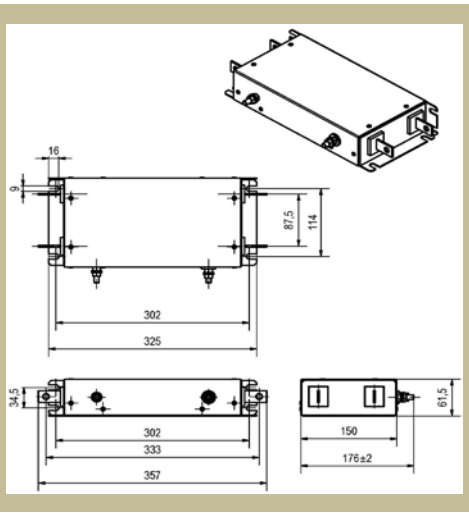
SKY3TL50-0,6



SKY3FSM48-400

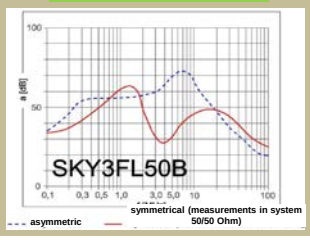


SKY1FLDC50C



Attenuation characteristics:

SKY3FL50B



SKY1FLDC50C

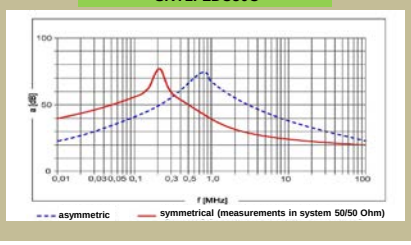
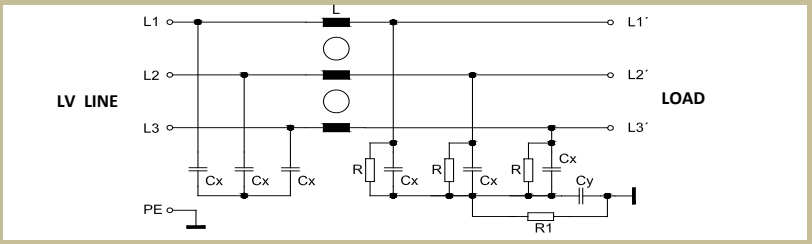
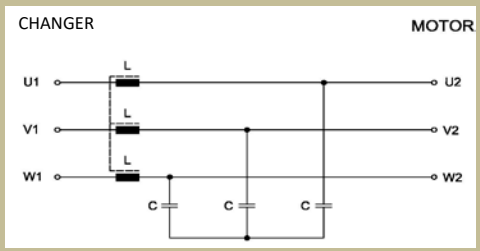


Diagram:

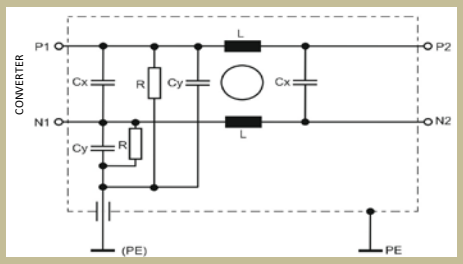
SKY3FL50B



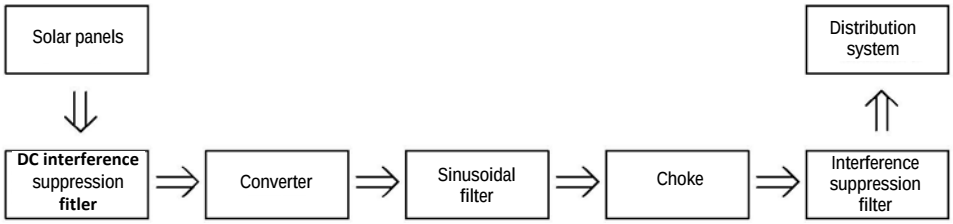
SKY3FSM48-400



SKY1FLDC50C



Principle diagram:



Dimensioning, wiring:

The DC interference suppression filter is supposed to be wired between the solar panels and converter. A low-frequency LCL filter, which consists of the sinusoidal filter and output choke, is supposed to be wired to the output side of the converter. The LC sinusoidal filter creates sinusoidal voltage from PWM converter. The L choke reduces inrush currents between the solar power station and LV line. The radio-frequency interference suppression filter, which reduces size of radio-frequency interference to distribution system from the converter, is supposed to be wired behind the output low-frequency LCL filter.