

SET for solar power stations

SKY840FOGSIT

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.



TECHNICAL PARAMETERS :

Nominal operating voltage
Extent of operating currents
Extent of operating temperature : 0°C + 40°C

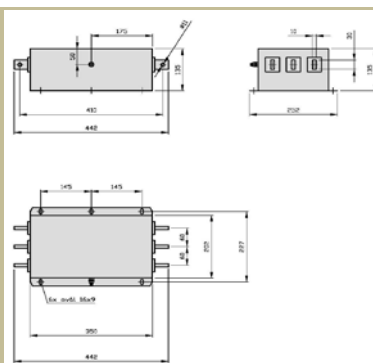
Un : 3x230/400Vac
In : 840A

Type	Nominal current [A]	Nominal voltage	Weight [kg]	Conductor cross section [mm 2]	basic dimensions [mm]					
					length	height	width	pitch	pitch	other
SKY3FL1000B	1000	3x230/400Vac	12	30x10 Ø11	442	135	252	350	202	9x16
SKY3TL840-0,04	840	3x230/400Vac	120	lug 500x16,5	450	385	306	410	230	13x20
SKY3FSM840-400	840	3x230/400Vac	320	lug 400x12	550	484	778,5	510	430	13x20
SKY1FLDC1000C	1000	1200Vdc	14	40x10	390	130	221	200	194	11x15

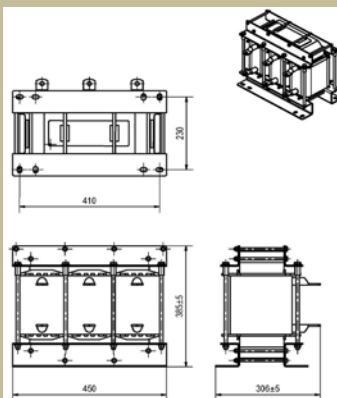
* After a deal there is a possibility of modification of the filter construction according to the customer's request.

Dimensional drawing :

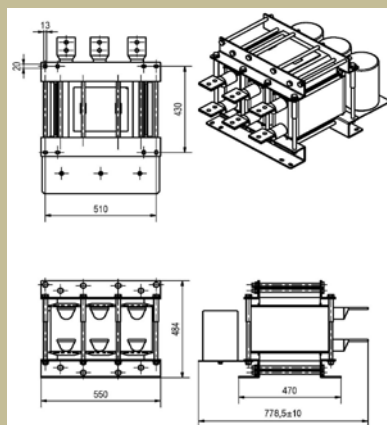
SKY3FL1000B



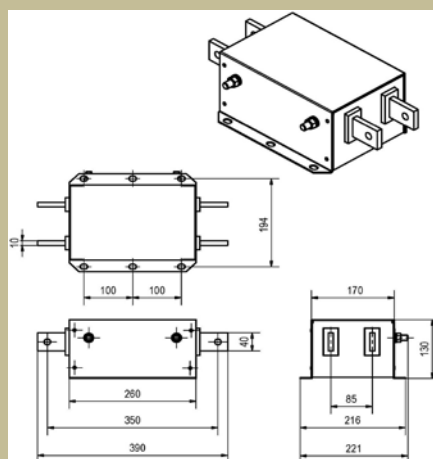
SKY3TL840-0,04



SKY3FSM840-400

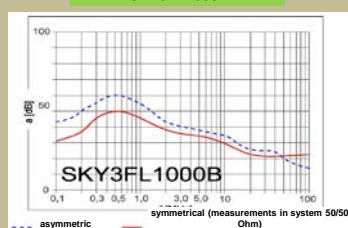


SKY1FLDC1000C



Attenuation characteristics:

SKY3FL1000B



SKY1FLDC1000C

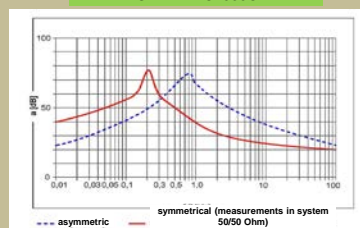
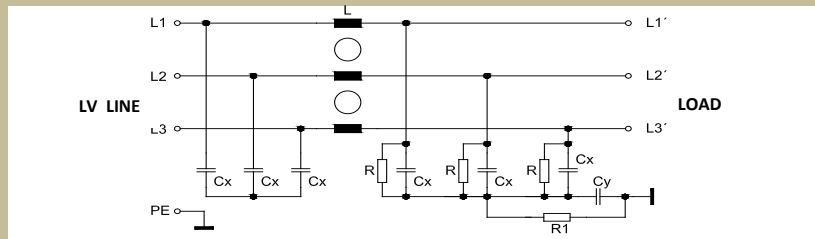
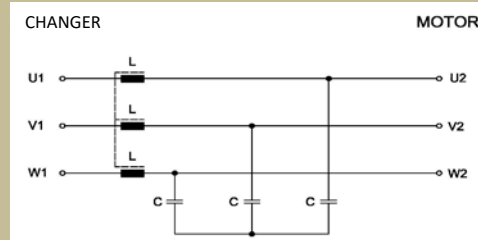


Diagram:

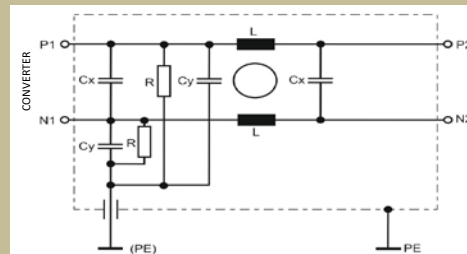
SKY3FL1000B



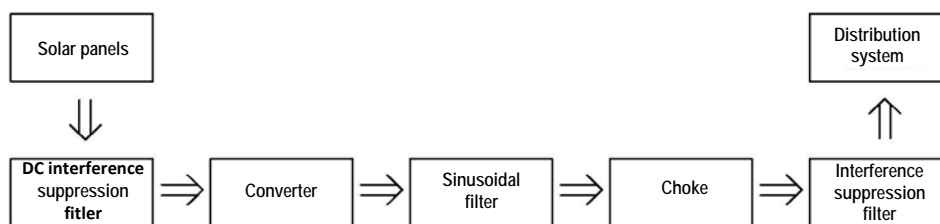
SKY3FSM840-400



SKY1FLDC1000C



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.