

SET for solar power stations

SKY1160FOGSIT

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 it is possible to add a three-phase sinusoidal filter consisting of three single-phase chokes.



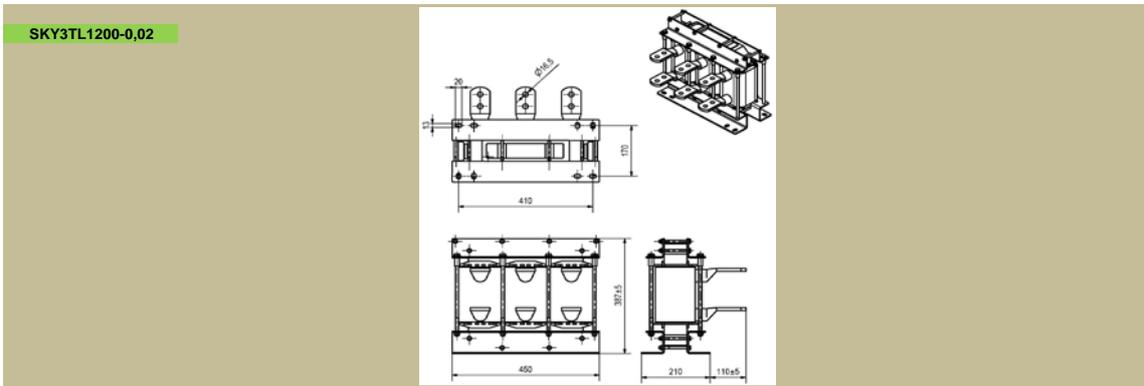
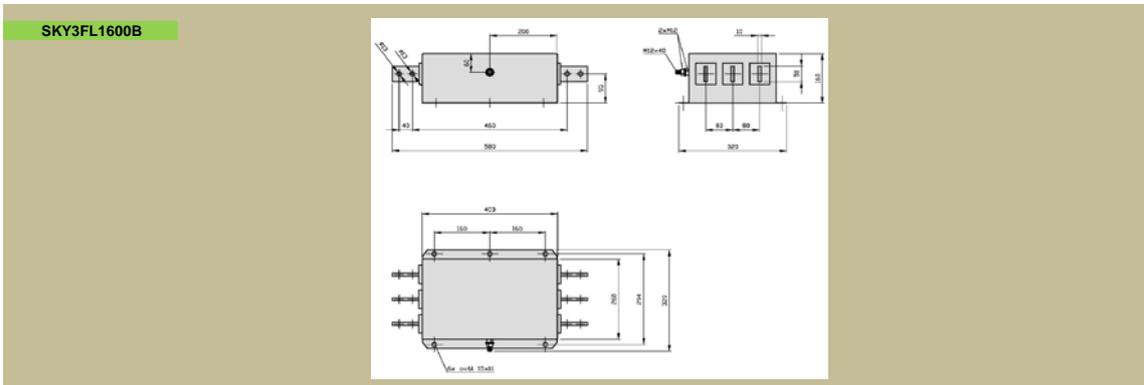
TECHNICAL PARAMETERS :

Nominal operating voltage Un : 3x230/400Vac
 Extent of operating currents In : 1160A
 Extent of operating temperature : 0°C + 40°C

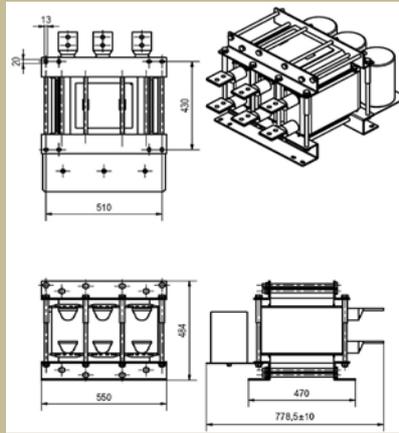
Type	Nominal current [A]	Nominal voltage	Weight [kg]	Conductor cross section [mm 2]	basic dimensions [mm]					
					length	height	width	pitch	pitch	other
SKY3FL1600B	1600	3x230/400Vac	25	50x10 2xØ13	580	160	329	330	294	11x15
SKY3TL1200-0,02	1200	3x230/400Vac	120	lug 800x16x2	450	387	320	410	170	13x20
SKY3FSM1160-400	1160	3x230/400Vac	330	lug 600x12	550	484	778,5	510	430	13x20
SKY1FLDC1200C	1200	1200Vdc	14	50x10	410	130	231	200	204	11x15

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

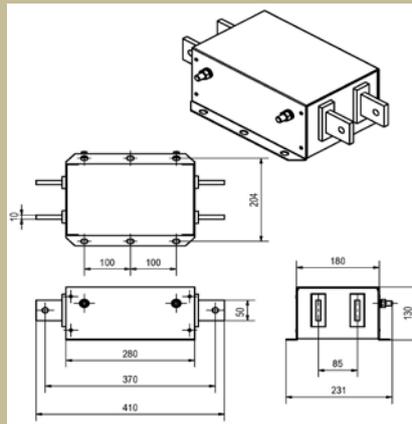
Dimensional drawing :



SKY3FSM1160-400

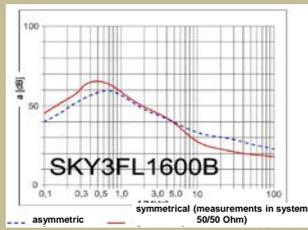


SKY1FLDC1200C



Attenuation characteristics:

SKY3FL1600B



SKY1FLDC1200C

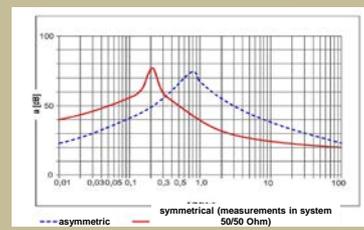
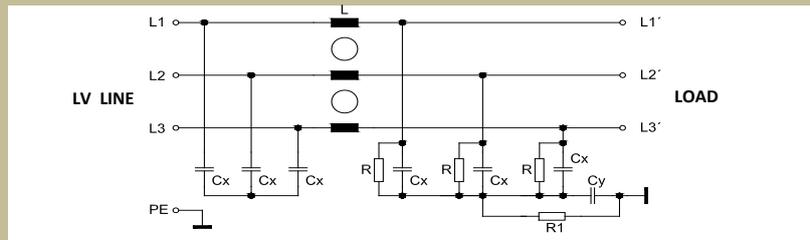
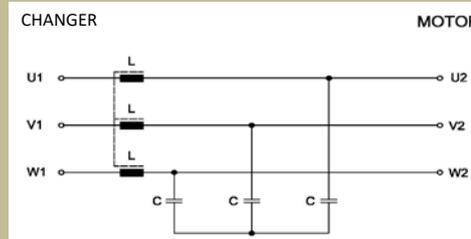


Diagram:

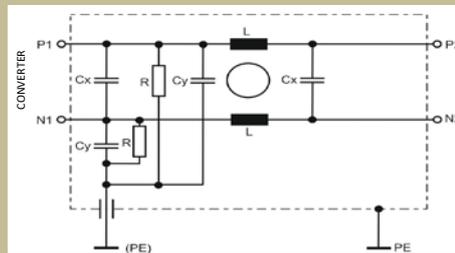
SKY3FL1600B



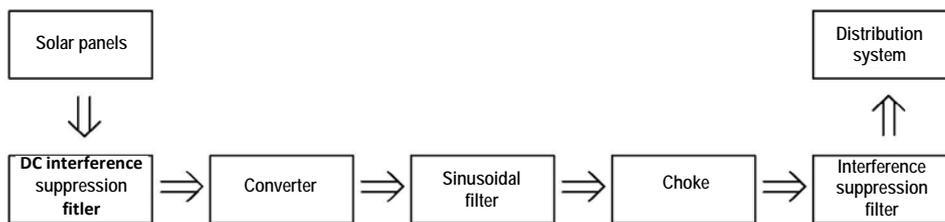
SKY3FSM1160-400



SKY1FLDC1200C



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.