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# SET for solar power stations SKY180FOGSIT

#### 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.



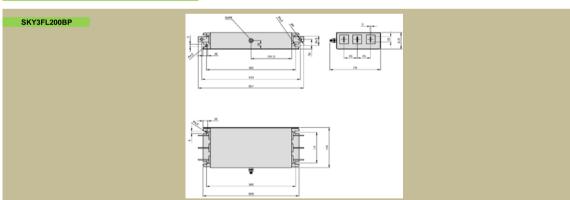
# TECHNICAL PARAMETERS:

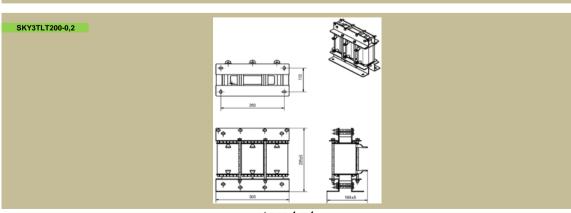
Nominal operating voltage Un : 3x230/400Vac Extent of operating currents In : 180A Extent of operating temperature :  $0^{\circ}C + 40^{\circ}C$ 

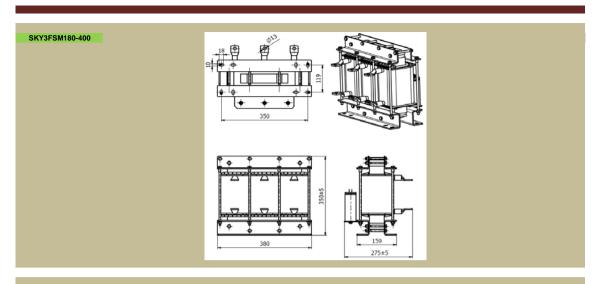
Туре	Nominal current [A]	Nominal voltage	Weight [kg]	Conductor cross section [mm 2]	basic dimensions [mm]					
					length	height	width	pitch	pitch	other
SKY3FL200BP	200	3x230/400Vac	3,8	20x3 Ø9	357	61,5	171	302	114	9x16
SKY3TLT200-0,2	200	3x500Vac	46,4	lug 95x10	300	295	190	260	110	9x15
SKY3FSM180-400	180	3x230/400Vac	78	lug 150x12	380	350	275	350	119	10x18
SKY1FLDC200C	200	1200Vdc	3,8	20x3	364	61,5	176	302	114	9x16

<sup>\*</sup> After a deal there is a possibility of modification of the filter construction according to the customer's request.

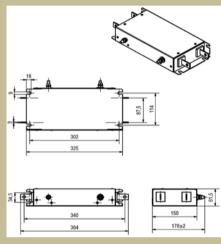
#### **Dimensional drawing:**



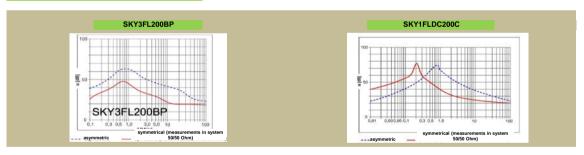




# SKY1FLDC200C



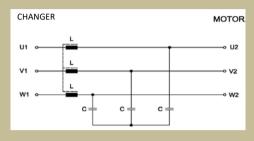
# Attenuation characteristics:



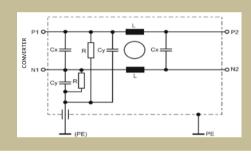
#### Diagram:

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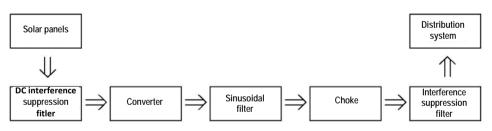
#### SKY3FSM180-400



# SKY1FLDC200C



### 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.