

FOCUSING ON POWER QUALITY.
PROFESSION, CONCENTRATION.

DIRECT **SIKES**

Power Transformers / Harmonic Filter / Sine Wave Filter / EMC Filter/
Reactor / Regenerative Brake / Braking Chopper / Power Braking Resistor/
Load test for generator, electric vehicle driver, motor controller, charging
station etc.

Harmonic filter

Whole product portfolios of power quality can be offered.



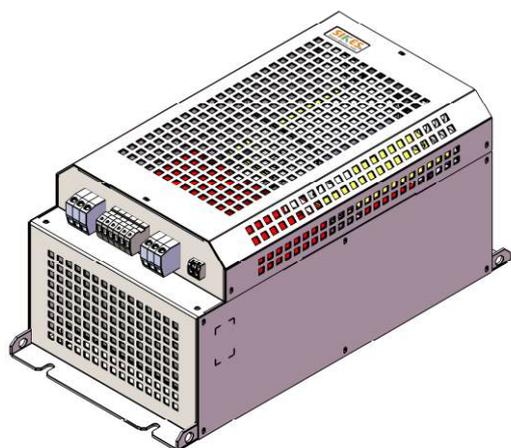
We are developing and producing in China for the world.



GUANGDONG SIKES Electric Co.,Ltd.

SIKES
18 YEARS OF
SUCCESS

PIHF Harmonic Filters



It can be used with the
ABB Low Voltage AC Drive:
 ACS510/ACx550/ACx580/ACS880
 full power range.

Technical data

Rated voltage	Three phase, U_{N3} =380 to 415V +10% to -15%
Degree of protection	IP00
Harmonic filtering effect	In full load condition, THDI of filter input is less than 10%. (Background voltage THDU < 2%, ratio of short circuit grid power to installed load > 66)
Frequency	50Hz
Insulation class	Overvoltage category III, according to EN61800-5-1
Overheating protection	155°C

Operating Conditions

Cooling method	Air cooling
Ambient temperature (operation)	In full load condition: -25°C – +45°C
Storage temperature	-25°C – +70°C
Operation altitude	0 – 2000m
Relative humidity	0 – 95%, no condensation

Overall dimension and Weight

Harmonic filter Type code	Frame size	Height (mm)	Width (mm)	Depth (mm)	Weight (kg)
SKS-PIHF-0004-4-10	S1	400	220	175	13
SKS-PIHF-0007-4-10					15
SKS-PIHF-0009-4-10	S2	500	292	235	/
SKS-PIHF-0012-4-10					25
SKS-PIHF-0015-4-10					33
SKS-PIHF-0024-4-10	S3	600	306	275	/
SKS-PIHF-0030-4-10					55
SKS-PIHF-0040-4-10					/
SKS-PIHF-0045-4-10					76
SKS-PIHF-0063-4-10	S4	630	387	315	/
SKS-PIHF-0075-4-10					74
SKS-PIHF-0090-4-10					112
SKS-PIHF-0116-4-10	S5	950	520	350	188
SKS-PIHF-0160-4-10					154
SKS-PIHF-0187-4-10					/
SKS-PIHF-0205-4-10					198
SKS-PIHF-0240-4-10	S6	1130	520	395	279
SKS-PIHF-0290-4-10					244
SKS-PIHF-0363-4-10					283
SKS-PIHF-0430-4-10					304
SKS-PIHF-0505-4-10	S7	1519.20	820	960	636
SKS-PIHF-0541-4-10					641
SKS-PIHF-0650-4-10					685
SKS-PIHF-0725-4-10	S8	1619.20	870	1010	759
SKS-PIHF-0773-4-10					762
SKS-PIHF-0859-4-10					799
SKS-PIHF-1083-4-10	S9	1729.40	920	1060	909
SKS-PIHF-1220-4-10					1025

Type selection table (3ph 380 to 415V - 15% to +10%)

Filter Model	I _{max} A	P _{max} (kw)	Rated Voltage (V)	Power loss (W)	Noise (dB)	ABB Low Voltage AC Drive				Pic.
						ACS510-01	ACx550-01	ACx580-01	ACS880-01	
SKS-PIHF-0004-4-10	4.1	1.5	400	75	65	/	/	02A7	02A4	S1
						03A3	03A3	03A4	03A3	
						04A1	04A1	04A1	04A0	
SKS-PIHF-0007-4-10	7.2	3	400	130	65	05A6	05A4	05A7	05A6	S2
						07A2	06A9	07A3	07A2	
SKS-PIHF-0009-4-10	9.5	4	400	135	65	09A4	08A8	09A5	09A4	S2
SKS-PIHF-0012-4-10	12.6	5.5	400	180	65	012A	012A	12A7	12A6	
SKS-PIHF-0015-4-10	17	7.5	400	200	65	017A	015A	018A	017A	
SKS-PIHF-0024-4-10	25	11	400	274	65	025A	023A	026A	025A	S3
SKS-PIHF-0030-4-10	32	15	400	340	65	031A	031A	033A	032A	
SKS-PIHF-0040-4-10	39	18.5	400	335	65	038A	038A	039A	038A	
SKS-PIHF-0045-4-10	46	22	400	410	65	046A	045A	046A	045A	
SKS-PIHF-0063-4-10	62	30	400	440	65	060A	059A	062A	061A	S4
SKS-PIHF-0075-4-10	72	37	400	580	65	072A	072A	073A	072A	
SKS-PIHF-0090-4-10	88	45	400	620	65	088A	087A	088A	087A	
SKS-PIHF-0116-4-10	106	55	400	754	65	/	/	106A	105A	S5
SKS-PIHF-0160-4-10	169	75	400	1170	65	124A	125A	148A	145A	
						157A	157A	169A	169A	
SKS-PIHF-0187-4-10	180	90	400	1054	65	180A	180A	/	/	
SKS-PIHF-0205-4-10	206	110	400	1230	65	195A	195A	206A	206A	
SKS-PIHF-0240-4-10	246	132	400	1503	65	246A	246A	246A	246A	S6
SKS-PIHF-0290-4-10	293	160	400	1570	65	290A	290A	293A	293A	
SKS-PIHF-0363-4-10	363	200	400	1880	75	/	/	363A	363A	
SKS-PIHF-0430-4-10	430	250	400	2089	75	/	/	430A	430A	
						ACS510-01	ACx550-01	ACx580-04	ACS880-04	
SKS-PIHF-0505-4-10	505	250	400	2442	75	/	/	505A	505A	S7
SKS-PIHF-0541-4-10	585	315	400	2564	75	/	/	585A	585A	
SKS-PIHF-0650-4-10	650	355	400	3119	75	/	/	650A	650A	
SKS-PIHF-0725-4-10	725	400	400	3077	75	/	/	725A	725A	S8
SKS-PIHF-0773-4-10	820	450	400	3399	75	/	/	820A	820A	
SKS-PIHF-0859-4-10	880	500	400	3354	75	/	/	880A	880A	
						ACS510-01	ACx550-01	ACx580-04	ACS880-07	
SKS-PIHF-1083-4-10	1140	630	400	3682	75	/	/	/	1140A	S9
SKS-PIHF-1220-4-10	1250	710	400	4280	75	/	/	/	1250A	

Rated value

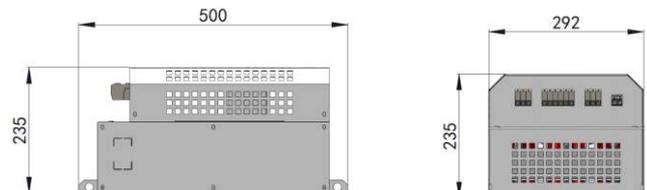
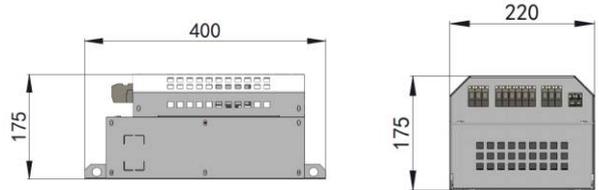
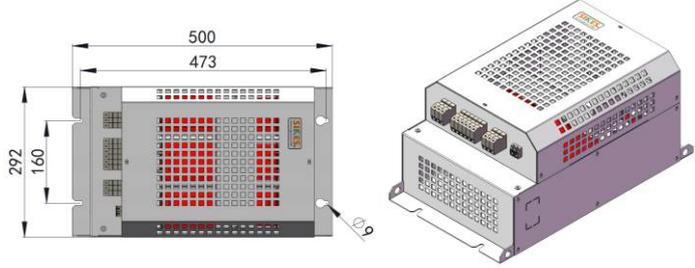
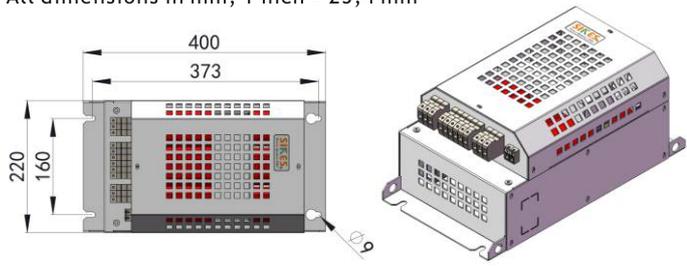
I_{max} Maximum continuous current

P_{max} Maximum power

Note: The power of the selected filter and drive shall be matched as closely as possible to achieve the best filtering effect. Otherwise, the filter of larger power can be used with the drive of smaller power. However, the filtering effect will be reduced.

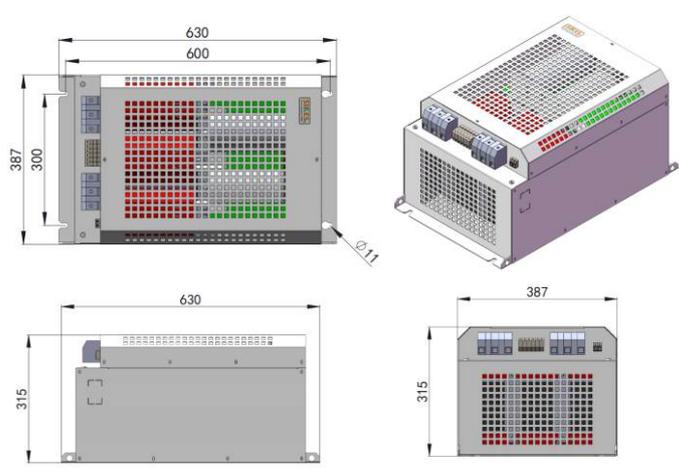
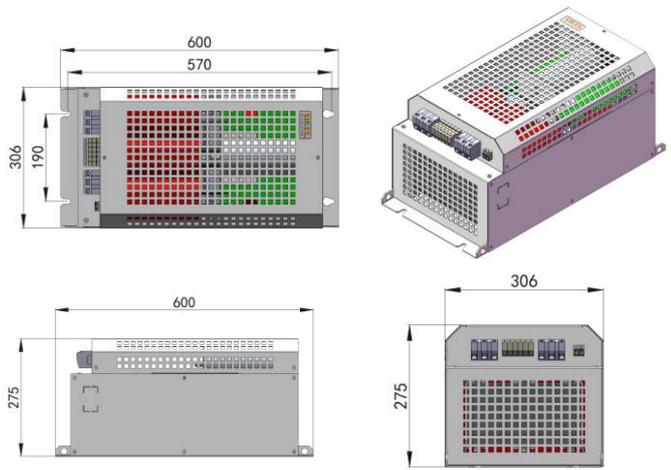
Overall dimension(All in mm)

All dimensions in mm; 1 inch = 25,4 mm



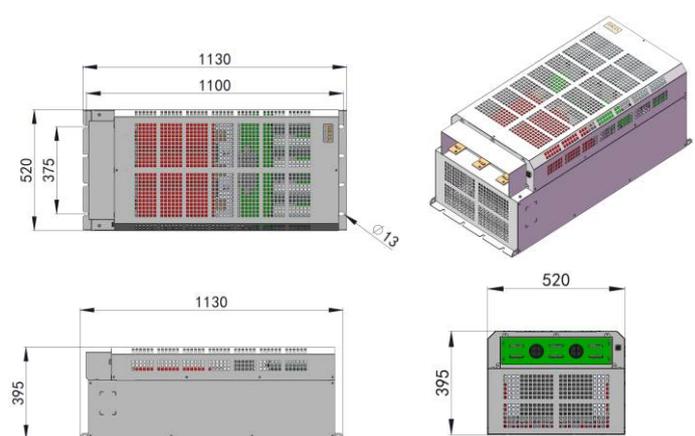
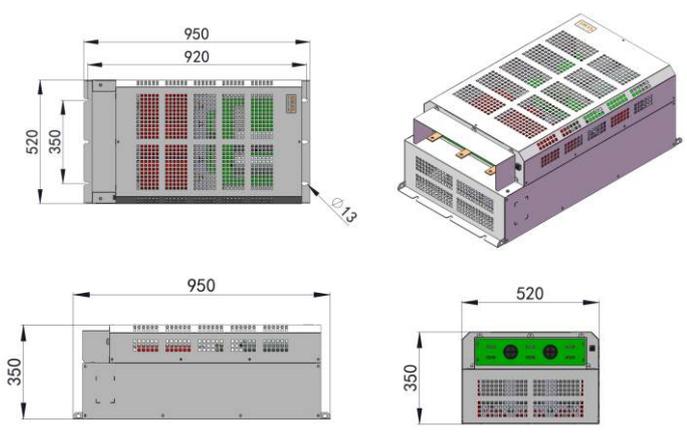
Pic S1

Pic S2



Pic S3

Pic S4

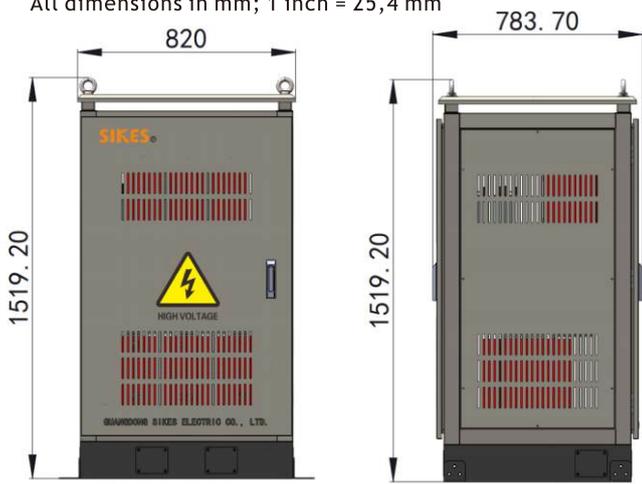


Pic S5

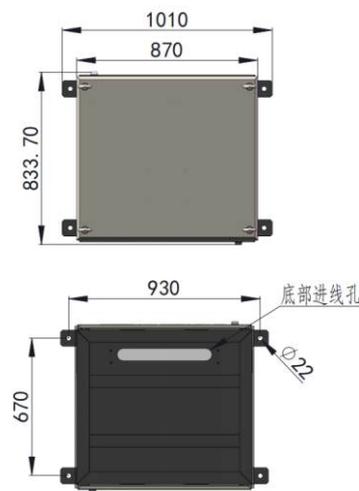
Pic S6

Overall dimension

All dimensions in mm; 1 inch = 25,4 mm



Pic S7



Pic S8



Pic S9

Block schematic (THDi ≤10%)

