

FOCUSING ON POWER QUALITY.
PROFESSION, CONCENTRATION.

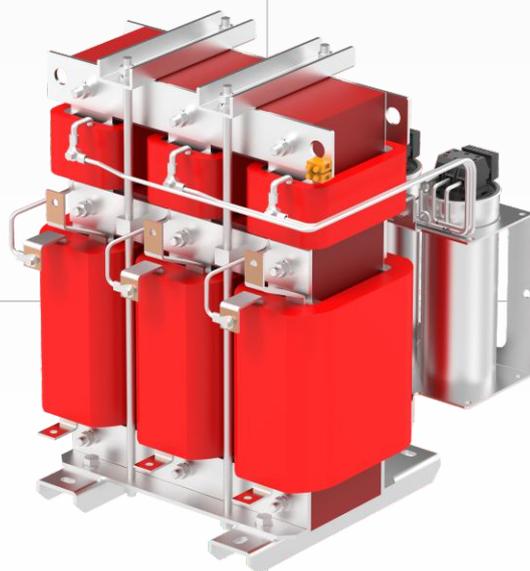
DIRECT **SIKES**

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.

OSK 5%

Harmonic filter

Whole product portfolios of power quality can be offered.



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GUANGDONG SIKES Electric Co.,Ltd.

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SUCCESS



Passive Harmonic Filters THDi 5%

Descriptions

Modern electrical equipment imposes stringent demands on voltage stability and power quality. The power network has to be free from harmonics and other electrical disturbances. This is why Sikes passive harmonic filter has come into being.

Sikes Harmonic filters have been specially designed to eliminate the harmonics from the current absorbed by 6-pulse power converters, such as frequency inverter for motors, UPS, etc.

These are essentially passive filters based on a series-parallel combination of inductances and capacitors, adapted to filter the input of power converters.

Functions:

- Reduction of the current wave's distortion towards the network and the rest of the installation;
- Compliance with the IEC 61000-3-4, IEC 61000-3-12, IEC 61800-3 and IEEE-519;
- Energy savings with the reduction of the root mean square current (RMS), thus reducing the kV•A demand;
- Less strain on equipment and Increase of the working life of units above this location with the corresponding reduction of thermal losses generated;
- Limits current transients, preventing damages caused to the converter and overvoltage trips that affect production processes;
- Lower maintenance costs and saving cost for replacing worn-out machines.

Technical Standards

- | | |
|--|--|
| ■ Capacitors: CEI EN 60831-1/2, IEC 831-1/2 | ■ Equipment: CEI EN 60439-1, IEC 439-1 |
| ■ Industrial network affected by harmonics: CEI EN 61642 | ■ Systems: IEEE-519, EN 60439, EN 60831, EN 50081-1, EN 50081-2, class A |

Applications:

- DC fast chargers
- HVAC installations
- Fan and pump
- Industrial automation
- Robotic equipment
- AC/DC Motor drives
- Frequency inverters



Features:

Main Characteristics

Nominal system voltage (ph-ph)	3x 380 to 500 Vac. (Others on request)
Frecuency	50 Hz (60Hz on request)
Ratedload power(P)	See table
Overload	1,5 times rated current @50Hz 1min
Rated load current (I)	See table
Residual THD	≤5 % at full load
Voltage drop at rated current	< 2 %

Design features

Degree of protection	IP00 indoor(IP20/IP54 on request)
Ventilation	Natural
Mounting	On the floor
Installation	Indoor standards
Operating temperature	Ambient : -25°C to +45°C
Relative humidity	80 %

Technical Data

Filter Model	System Voltage	Rated Power @ 400VAC (KW)	Rated Current @400VAC (A)	Power loss (W)	Insulation Class	Weight (KG)	Pic.	Connections	
								Terminals	Copper bar
SKS-OSK-0003-4A5/05	3x380 to 500VAC	1.5	3	55	H	9	01	√	
SKS-OSK-0005-4A5/05	3x380 to 500VAC	2.2	5	70	H	11	02	√	
SKS-OSK-0008-4A5/05	3x380 to 500VAC	3.7	8	98	H	18	03	√	
SKS-OSK-0011-4A5/05	3x380 to 500VAC	5.5	11	134	H	23	04	√	
SKS-OSK-0014-4A5/05	3x380 to 500VAC	7.5	14	149	H	24	05	√	
SKS-OSK-0020-4A5/05	3x380 to 500VAC	11	20	140	H	38	06	√	
SKS-OSK-0027-4A5/05	3x380 to 500VAC	15	27	199	H	40	07	√	
SKS-OSK-0031-4A5/05	3x380 to 500VAC	18.5	31	239	H	52	08	√	
SKS-OSK-0038-4A5/05	3x380 to 500VAC	22	38	258	H	57	09	√	
SKS-OSK-0052-4A5/05	3x380 to 500VAC	30	52	340	H	66	10	√	
SKS-OSK-0064-4A5/05	3x380 to 500VAC	37	64	475	H	72	11	√	
SKS-OSK-0082-4A5/05	3x380 to 500VAC	45	82	442	H	89	12	√	
SKS-OSK-0100-4A5/05	3x380 to 500VAC	55	100	738	H	105	13	√	
SKS-OSK-0129-4A5/05	3x380 to 500VAC	75	129	725	H	154	14	√	
SKS-OSK-0154-4A5/05	3x380 to 500VAC	90	154	881	H	158	15	√	
SKS-OSK-0188-4A5/05	3x380 to 500VAC	110	188	1025	H	194	16	√	
SKS-OSK-0224-4A5/05	3x380 to 500VAC	132	224	1043	H	209	17		√
SKS-OSK-0275-4A5/05	3x380 to 500VAC	160	275	1189	H	210	18		√
SKS-OSK-0316-4A5/05	3x380 to 500VAC	185	316	1391	H	218	19		√
SKS-OSK-0341-4A5/05	3x380 to 500VAC	200	341	1568	H	255	20		√
SKS-OSK-0375-4A5/05	3x380 to 500VAC	220	375	1703	H	275	21		√
SKS-OSK-0431-4A5/05	3x380 to 500VAC	250	431	1691	H	295	22		√
SKS-OSK-0489-4A5/05	3x380 to 500VAC	280	489	1799	H	325	23		√
SKS-OSK-0552-4A5/05	3x380 to 500VAC	315	552	1906	H	335	24		√
SKS-OSK-0629-4A5/05	3x380 to 500VAC	355	629	2087	H	385	25		√
SKS-OSK-0730-4A5/05	3x380 to 500VAC	400	730	2421	H	410	26		√
SKS-OSK-0787-4A5/05	3x380 to 500VAC	450	787	2281	H	495	27		√
SKS-OSK-0852-4A5/05	3x380 to 500VAC	500	852	2390	H	503	28		√
SKS-OSK-0963-4A5/05	3x380 to 500VAC	560	963	2592	H	572	29		√
SKS-OSK-1174-4A5/05	3x380 to 500VAC	630	1174	2929	H	668	30		√

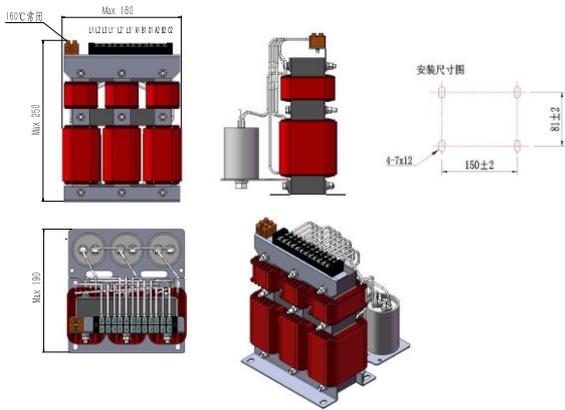
Selection Recommendation : It's compulsory to collect all network conditions:

- Rated values and service type of the load to the filter
- Indication of the point where the filter has to be installed
- Rated values of other non-linear loads
- Frequency and value of the harmonic value to be reduced
- Presence and type of the power factor equipment in the network
- Other optional voltages, frequencies and currents, on demand.

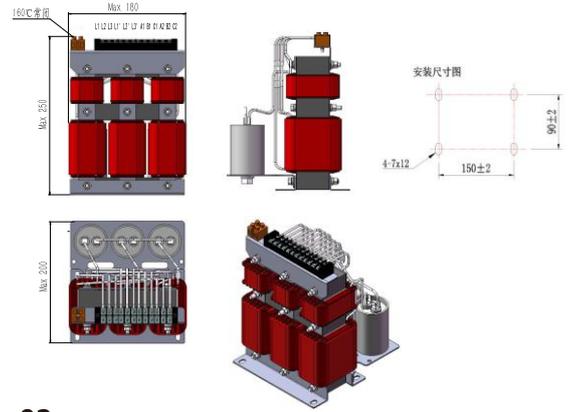
■ For more technical details, please contact our sales representatives.

Mechanical data

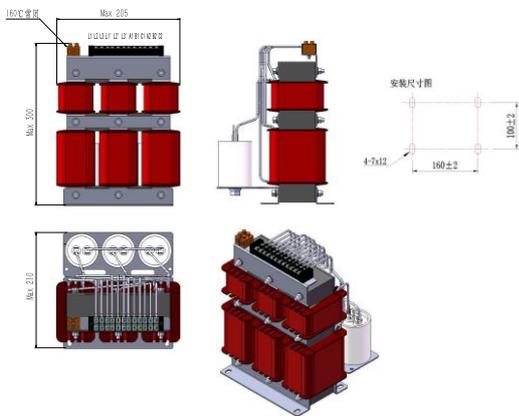
All dimensions in mm; 1 inch = 25.4 mm



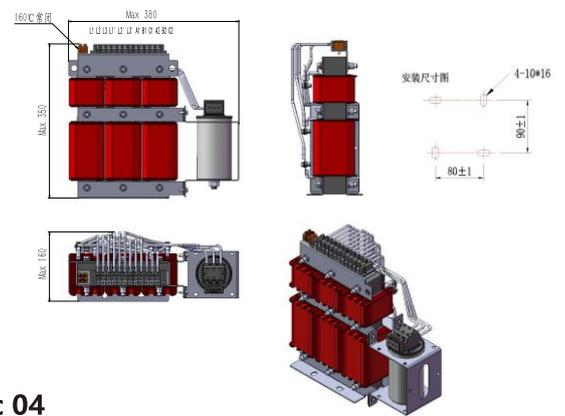
Pic 01



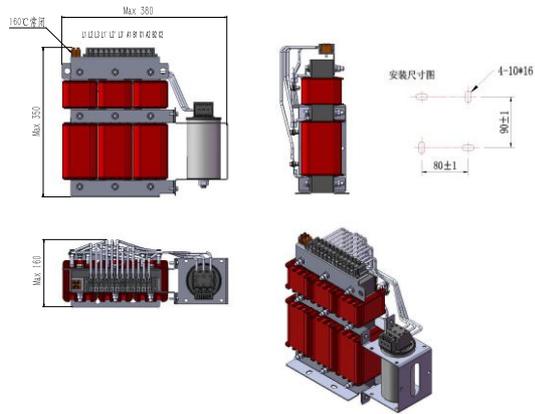
Pic 02



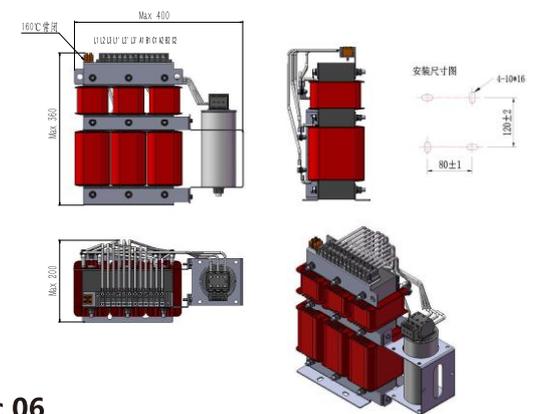
Pic 03



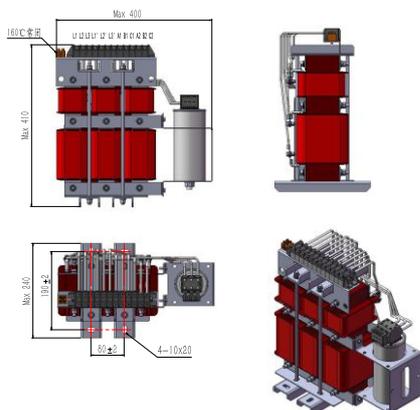
Pic 04



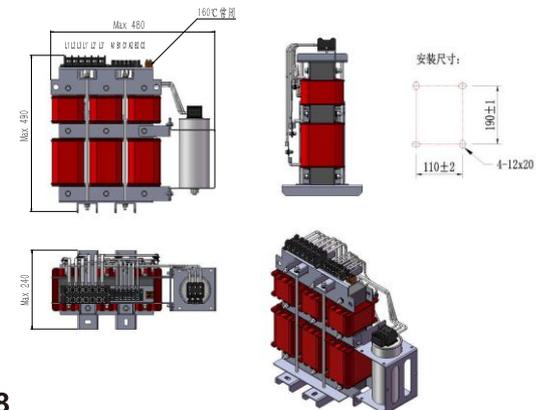
Pic 05



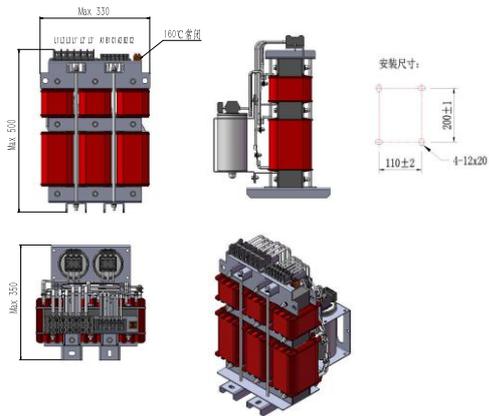
Pic 06



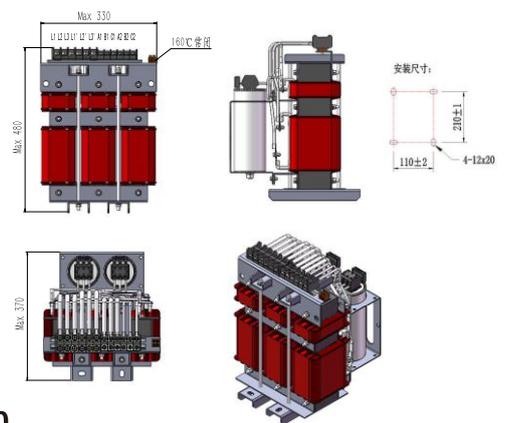
Pic 07



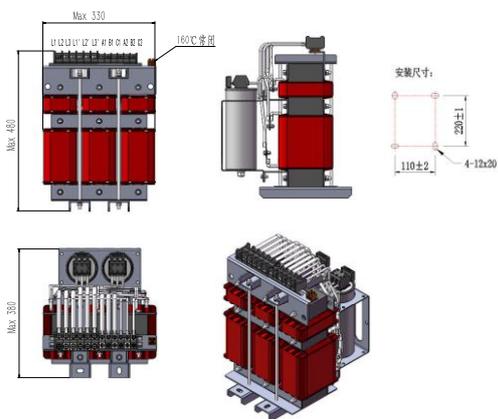
Pic 08



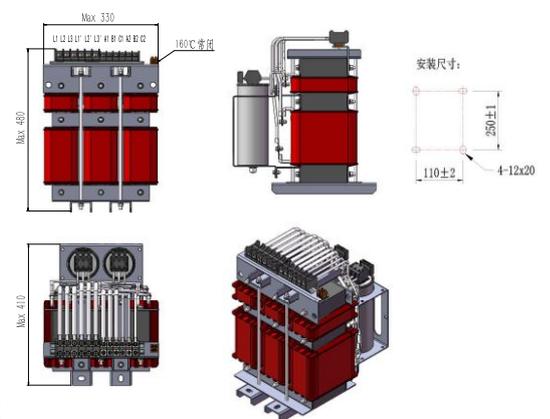
Pic 09



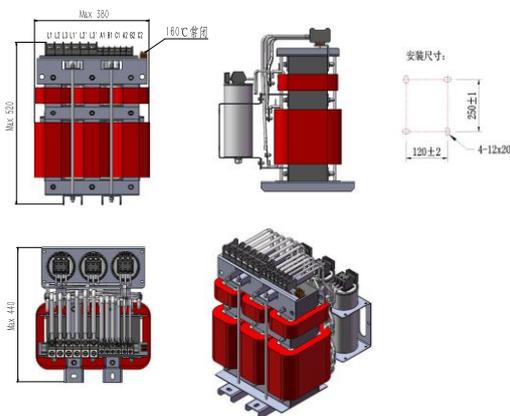
Pic 10



Pic 11



Pic 12



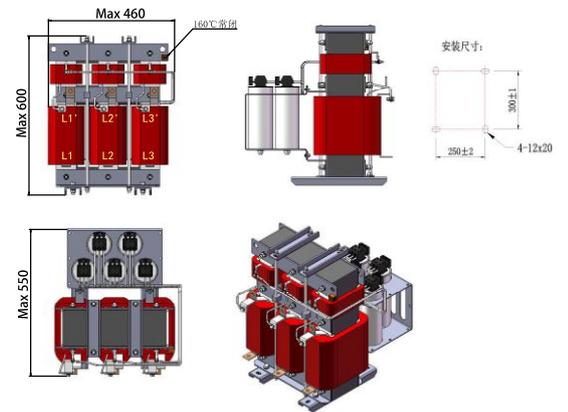
Pic 13



Pic 14

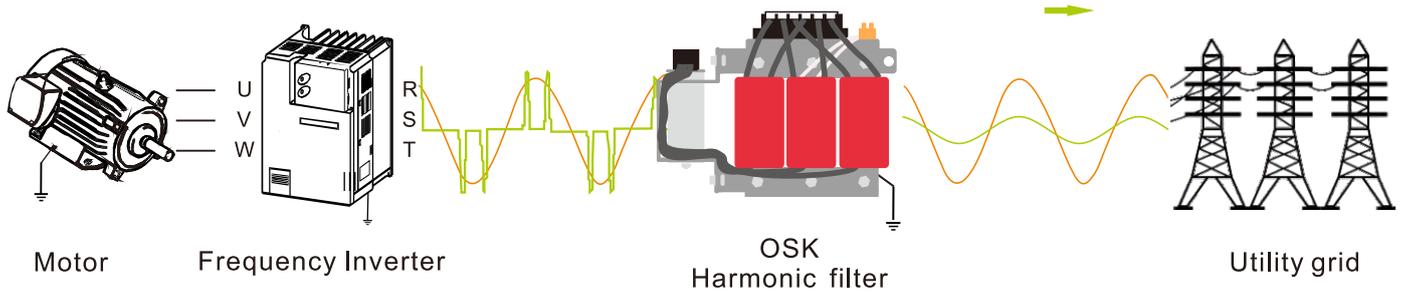
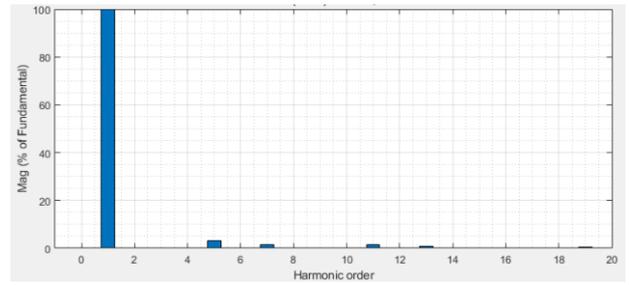
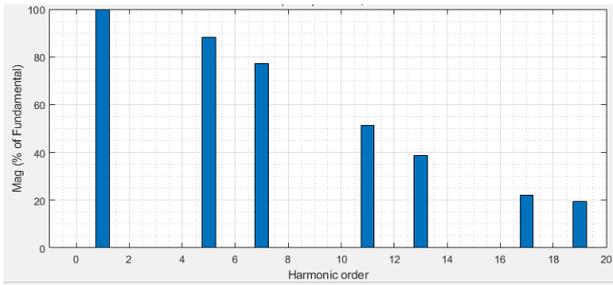


Pic 15

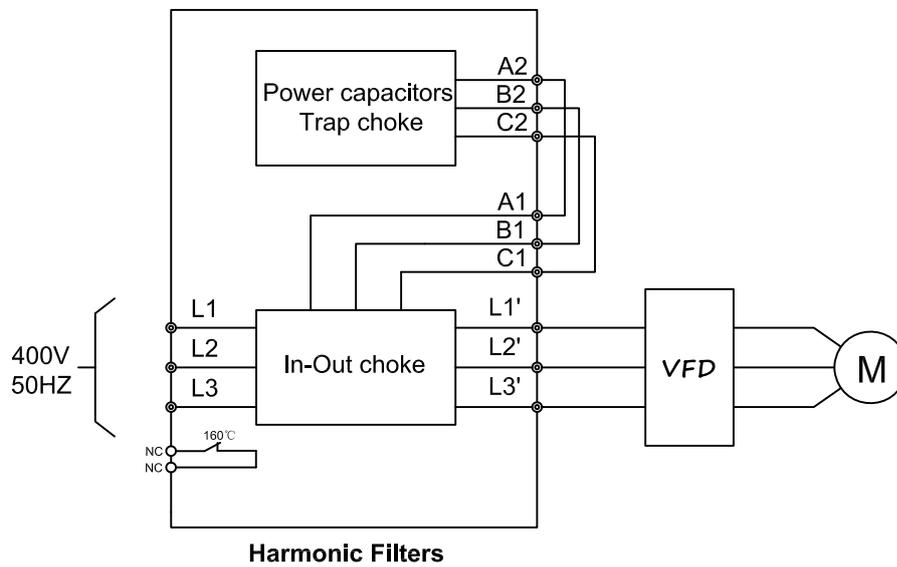


Pic 16

Block schematic (THDi ≤5%)



Wiring instructions



L1, L2, L3 connect to the grid side; L1', L2', L3' connect to the VFD side.

A1, B1, C1, A2, B2, C2 are short-circuited by wires by default. The wires can be taken out and connect the terminals to the contactor if necessary. Set the capacitors to bypass when there is no load can improve the power factor.

L1, L2, L3 连接电网侧, L1', L2', L3' 接变频器侧。

A1, B1, C1, A2, B2, C2 默认是用线短接的, 如需旁路电容, 只需把端子间的导线取出再串接上接触器即可。空载时旁路电容可以提高功率因数。