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西凯士·电抗器选型手册

Line Reactor

REACTOR
电抗器



Filter
滤波器

Transformer
变压器

Load bank
负载

Regenerative
drive
回馈装置

RESISTOR
电阻

Dynamic
Braking Unit
制动单元

SIKES ELECTRIC (HK) CO., LTD.

西凯士電氣(香港)有限公司

SHENZHEN SIKES ELECTRIC CO., LTD.

深圳市西凯士电气有限公司

AC Input Reactor (Choke) 输入交流电抗器

输入交流电抗器
AC Input Reactor (Choke)



Product Profile 产品简述

In application at AC drive input side to suppress inrush voltage. Reduce inrush & peak current; Improve the real power factor, restrain the grid harmonics and Improve the input current waveform.

输入电抗器是限流设备，用于驱动器的输入侧，保护交流驱动器不受瞬态超压的影响。降低浪涌和峰值电流，提高真实功率因数，抑制电网谐波，改善输入电流波形。

Product Features 产品特点

Excellent property due to foil winding structure, small DC resistance, the resistance to electromagnetic force ability is strong, good overload ability in short time; F class insulation materials, so that products can maintain reliable performance capacity. Moreover, combined with VPI process, the reactor noise is low; Core with grain-oriented cold rolled silicon steel in harsh working conditions; Designed with low magnetic flux density, the reactors of high linearly, powerful overload sheets, the reactor boasts high efficiency, low temperature rise and low loss.

采用了高性能的箔式绕组结构，具有电流电阻小，抗短路能力强，短时间过载能力强；采用高性能的F级以上的复合绝缘材料，使产品在严酷的工作条件下依然可以保持可靠的性能；电抗器设计磁通密度低，线性度好，过载能力强，配合真空压力浸渍工艺电抗器的噪音小；铁芯采用优质低损耗冷轧取向硅钢片，电抗器损耗小，效率高，温升低。

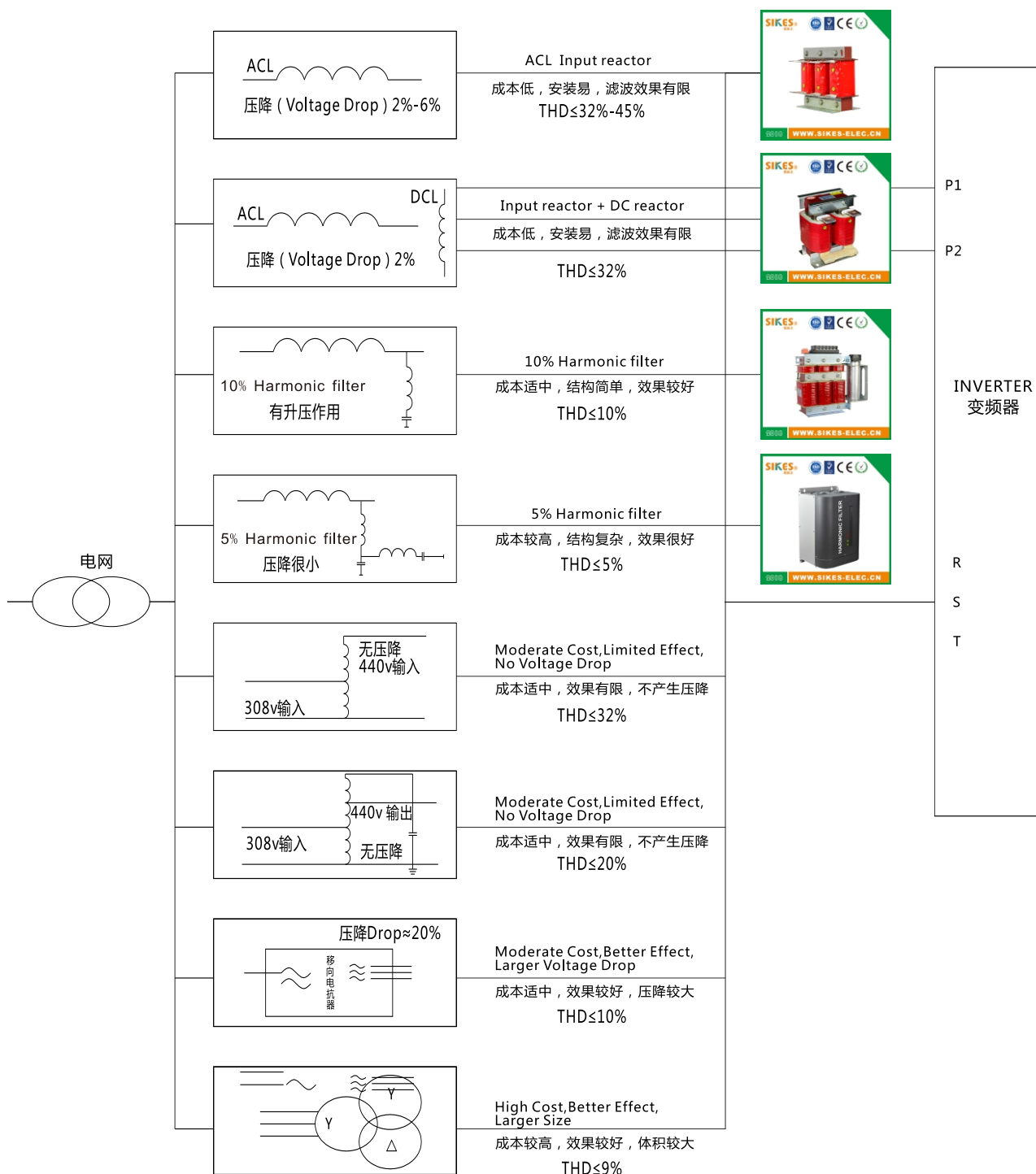
Product Parameters 产品参数

Rated Operating Voltage	380V/690V/1140V 50Hz/60Hz
Operating Frequency	50/60Hz
Current Range	5A to 1600A
Operation Ambient Temperature	-25°C ~ 50°C
Dielectric Strength	Core-Winding, AC 3000V/50Hz/5mA in 60s free of damage (test in factory)
Insulation Resistance	Core-Winding, DC 1000V, Resistance >100M ohm
Reactor's noise	less than 65dB (to be measured at the point 1 meter away from the reactor horizontally)
Protection class	IP00
Insulation class	F/H
Standard	GB 19212.1-2008 GB/T 1094.6-2011

额定工作电压	380V/690V/1140V 50Hz/60Hz
工作频率	50/60Hz
额定工作电流	5A 至 1600A
工作环境温度	-25°C ~ 50°C
抗电强度	铁芯-绕组 AC 3000V/50Hz/5mA, 60秒无飞弧击穿 (工厂测试)
绝缘电阻	DC 1000V, 绝缘阻值 ≥ 100MΩ
电抗器噪音	< 65dB (与电抗器水平距离点1米测试)
防护等级	IP00
绝缘等级	F级/H级
产品执行标准	GB 19212.1-2008 GB/T1094.6-2011

AC Input Reactor (Choke) 输入交流电抗器

Harmonic solution for the input side of frequency inverter 变频输入端解决方案



380V AC input reactor (2% impedance)selection table 380V输入交流电抗器 (2%电抗率) 选型表

Type 电抗器型号	Power 功率(Kw)	Inductance Value 电感量(mH)	Current 电流(A)	Weight 重量(Kg)	Dimension 尺寸(mm)								Connection		Linear aperture 线排孔径	Pic. NO. 图号
					D(Max)	D1±1	D2±2	W±10	W1±1	W2±2	H (Max)	A*B	Terminal 端子	Cu flat 铜排		
SKS-ACL-0005-CL/4-2	1.5	2.80	5	1.3	100	35	80	/	59	77	125	7x12	√		/	A
SKS-ACL-0007-CL/4-2	2.2	2	7	1.4	100	35	80	/	59	77	125	7x12	√		/	A
SKS-ACL-0010-CL/4-2	3.7	1.4	10	1.5	100	35	80	/	59	77	125	7x12	√		/	A
SKS-ACL-0015-AL/4-2	5.5	0.93	15	2.5	150	70	120	/	72	92	150	7x12	√		/	A
SKS-ACL-0020-AL/4-2	7.5	0.70	20	2.5	150	70	120	/	72	92	150	7x12	√		/	A
SKS-ACL-0030-AL/4-2	11	0.47	30	3.5	180	70	145	/	68	88	170	7x12	√		/	A
SKS-ACL-0040-AL/4-2	15	0.35	40	5	180	70	145	/	81	101	170	7x12	√		/	A
SKS-ACL-0050-AL/4-2	18.5	0.28	50	5	180	70	145	130	81	101	135	7x12	√		/	B
SKS-ACL-0060-AL/4-2	22	0.24	60	6.5	180	70	145	140	90	110	145	7x12	√		/	B
SKS-ACL-0080-AL/4-2	30	0.17	80	9	210	80	170	155	91	111	160	7x12	√		/	B
SKS-ACL-0090-AL/4-2	37	0.16	90	9	210	80	170	155	91	111	160	7x12	√		/	B
SKS-ACL-0120-AL/4-2	45	0.12	120	13	245	80	200	160	94	130	210	12x20		30*3	φ11	C
SKS-ACL-0150-AL/4-2	55	0.095	150	15	245	80	200	160	94	130	210	12x20		30*3	φ11	C
SKS-ACL-0200-AL/4-2	75	0.07	200	20	245	80	200	185	120	156	210	12x20		30*3	φ11	C
SKS-ACL-0240-AB/4-2	90	0.056	240	25	240	180	200	195	132	162	220	11x20		30*7	φ11	D
SKS-ACL-0250-AB/4-2	110	0.056	250	25	240	180	200	195	132	162	220	11x20		30*7	φ11	D
SKS-ACL-0290-AB/4-2	132	0.048	290	31	310	225	250	215	122	158	255	12x20		40*8	φ13	E
SKS-ACL-0330-AB/4-2	160	0.042	330	32	310	225	250	215	122	158	255	12x20		40*8	φ13	E
SKS-ACL-0390-AB/4-2	187	0.036	390	42	310	225	250	220	125	161	285	12x20		40*8	φ13	E
SKS-ACL-0490-AB/4-2	220	0.028	490	45	310	225	250	220	125	161	285	12x20		40*8	φ13	E
SKS-ACL-0530-AB/4-2	250	0.026	530	42.5	310	225	250	220	125	161	285	12x20		40*8	φ13	E
SKS-ACL-0600-AB/4-2	280	0.023	600	55	310	225	250	245	145	181	280	12x20		40*9	φ13	E
SKS-ACL-0660-AB/4-2	315	0.021	660	55	310	225	250	245	145	181	280	12x20		40*9	φ13	E
SKS-ACL-0800-AB/4-2	380	0.0175	800	85	390	130	320	305	230	270	400	12x20		50*11	2-φ11	G
SKS-ACL-1000-AB/4-2	450	0.014	1000	85	390	130	320	305	230	270	400	12x20		50*11	2-φ11	G
SKS-ACL-1250-AB/4-2	550	0.011	1250	110	385	130	320	305	210	250	470	12x20		60*13	4-φ13	F
SKS-ACL-1600-AB/4-2	630	0.009	1600	110	385	130	320	305	210	250	470	12x20		60*15	4-φ13	F

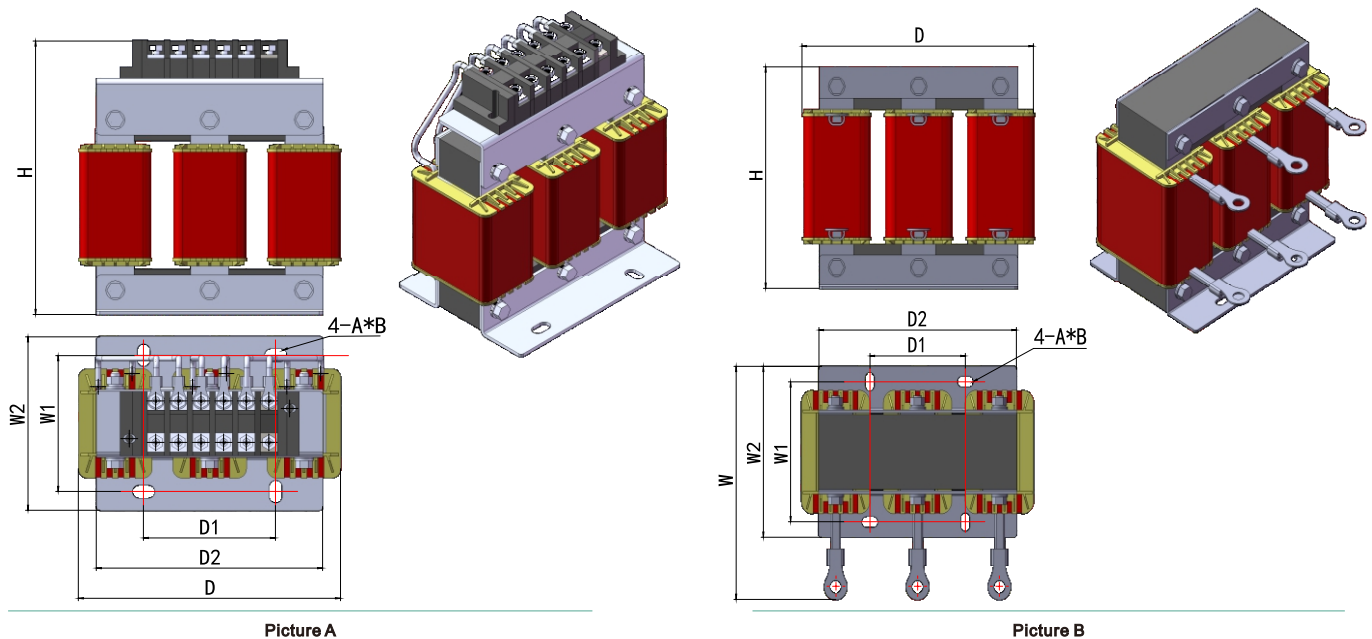
Note/备注：(1) Picture C公差(Tolerance) D:max D1:±1 D2:±2 W:max W1:±2 W2:±2 H:max H1:±5 H2:±5 E:±10,其余未注公差(others)±0.5mm;

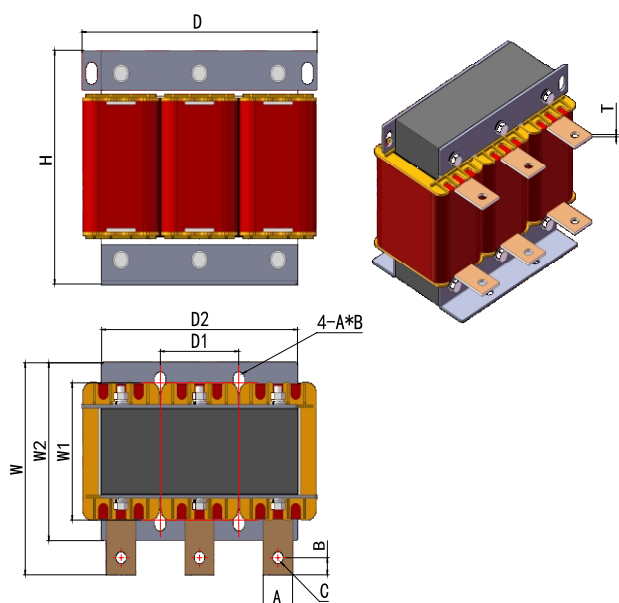
Picture D公差(Tolerance) D:max D1:±1 D2:±2 W:max W1:±2 W2:±2 H:max H1:±5 H2:±5 E:±10,其余未注公差(others)±0.5mm.

(2) Can be customized. 以上型号为我司标准品, 其它规格可以根据客户要求定制。

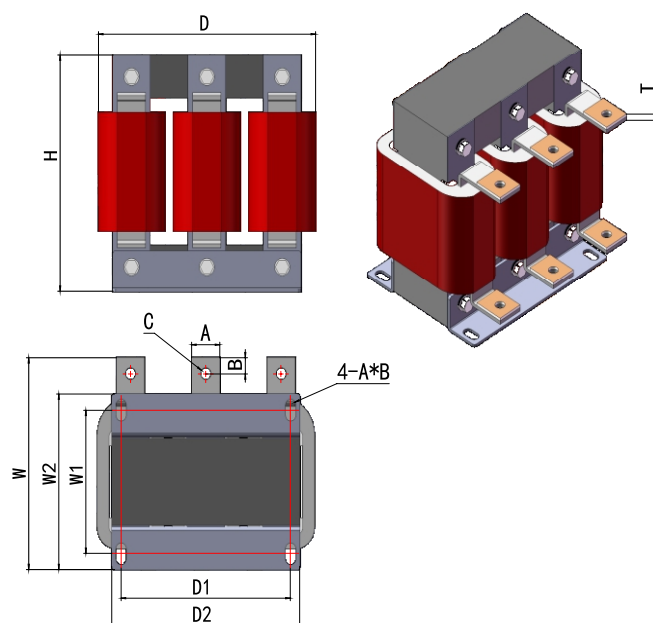
(3) Class H Can be customized. H级产品可以根据客户要求定制。

Product Size 产品尺寸图

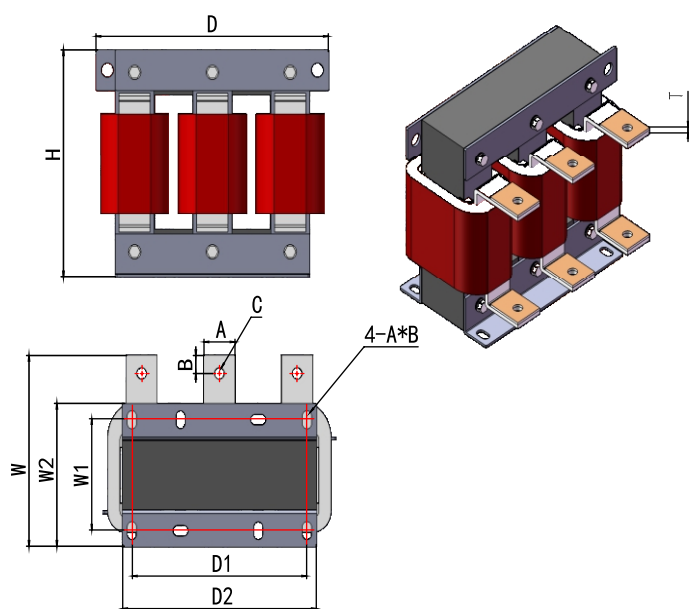




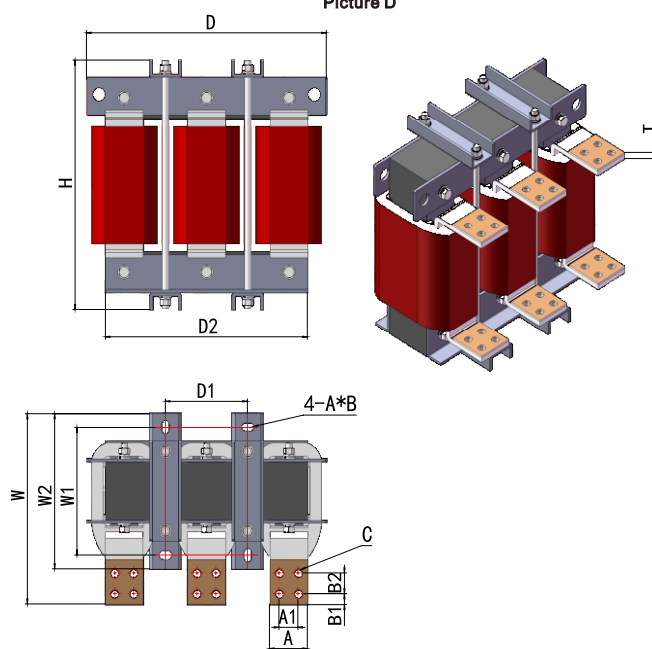
Picture C



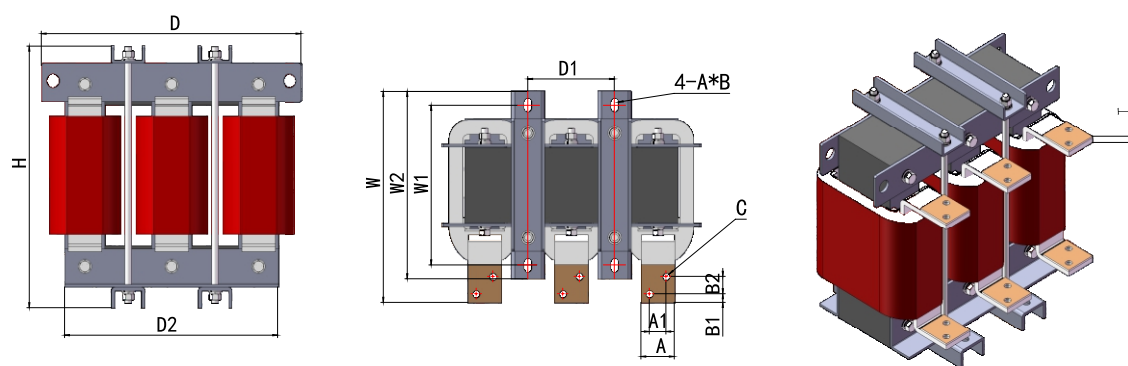
Picture D



Picture E



Picture F



Picture G