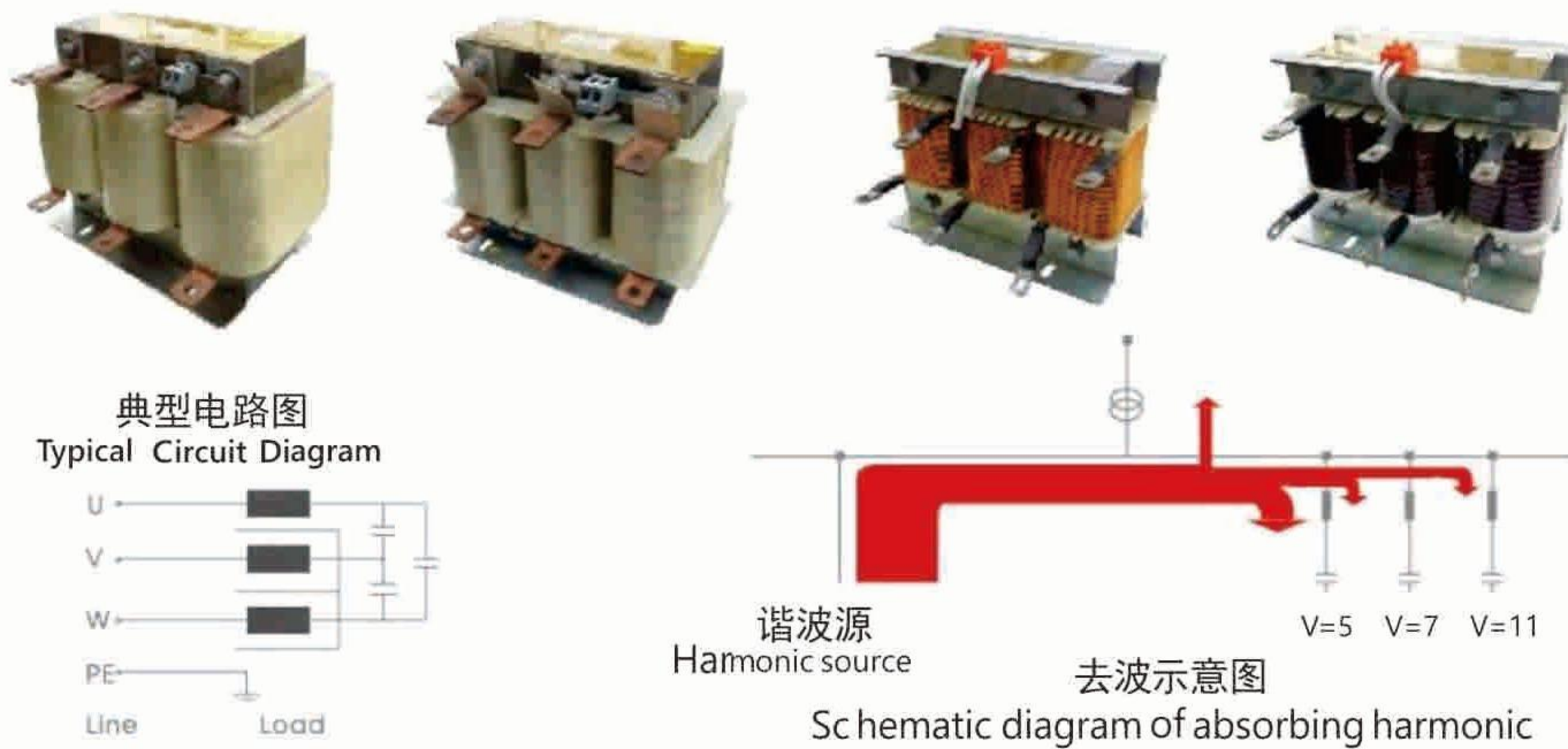


## 无功补偿电抗器(RPCR) Reactive Power Compensation Reactor

### ■ 产品概述(Product Introduction)

大量的感性元器件如电机、变压器等降低了电源的功率因数，为此常用并联电容器补偿。而电容器易于损坏、寿命较短，为保护电容器，常在线路中串联电抗器。同时也起到一定的滤波作用。

A large number of inductive components such as motors and transformers reduce the power factor of the power supply. For this reason, parallel capacitors are commonly used for compensation. Capacitors are easily damaged and have a short service life. To protect the capacitor, a reactor is often connected in series in the line. It also plays a certain filtering role.



### ■ 产品应用(Product Application)

电路中的电容器对电路起无功补偿的作用。为保护电容器，通常在回路中串联电抗器。不同电抗率的电抗器对高次谐波有不同的抑制作用。无功补偿电抗器与电容需配对使用。

The capacitor in the circuit plays the role of reactive power compensation for the circuit. To protect the capacitor, a reactor is usually connected in series in the circuit. Reactors with different reactance rates have different suppression effects on high-order harmonics. Reactive power compensation reactors and capacitors need to be used in pairs.

### ■ 技术规格(Technical Specification)

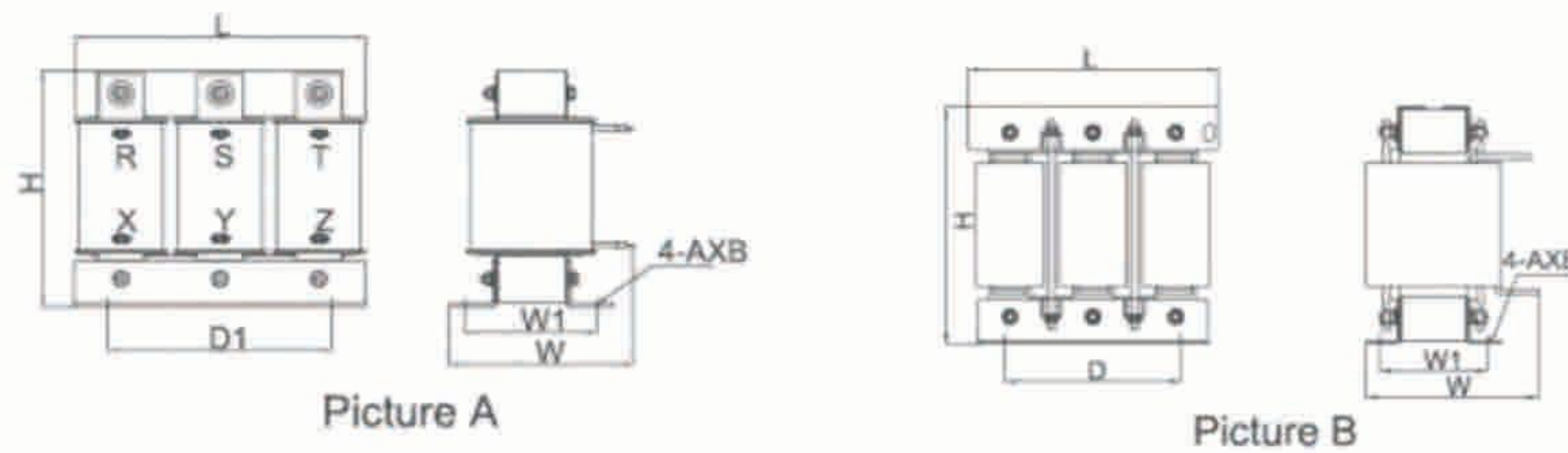
1. 额定频率 Rated Frequency 50/60Hz
2. 额定电流 Rated Current 5 ~ 2000A
3. 额定电压 Rated Voltage 220V-10kV
4. 温升 Temperature Rise  $\leq 95K$
5. 噪音 Noise  $\leq 65dB$
6. 三相平衡度 Three-phase Equilibrium Degree  $-5 \sim +5\%$
7. 抗电强度 Dielectric Strength core-winding, winding-winding 3000VAC/50Hz/60s, no electric arc or electric breakdown
8. 绝缘电阻 Insulation Resistance 1000VDC,  $\geq 100M\Omega$
9. 绝缘等级 Insulation Class F,H
10. 防护等级 Protection Class IP00-IP20
11. 电抗率 Reactance rate 6%, 7%, 14%
12. 性能范围 Pn Performance range Pn 5 ~ 100 kvar
13. 监控 Monitoring Temperature switch is integrated, contacts are fitted on terminals.
14. 环境温度 Ambient Temperature  $-25 \sim +40^{\circ}C$
15. 工作海拔 Working Altitude  $\leq 2000$  m
16. 存储温度 Storage Temperature  $-25 \sim +55^{\circ}C$
17. 运输温度 Transport Temperature  $-25 \sim +70^{\circ}C$
18. 允许的额定湿度 Permissible Humidity Rating Humidity 5 %... 95 % occasional condensation permissible



## ■ 执行标准(Applicable Standard)

IEC 60076-6 Reactors  
 GB/T1094.6 Reactors  
 JB9644 Reactors or semiconductor electric drive

## ■ 产品尺寸图(Product Size)



型号 Type	图号 Picture No.	补偿容量 Filter Bank Capacity Q <sub>c</sub> (kvar)	电感系数 Inductance	外形尺寸 Dimension (MAX) L*W*H (mm)	安装尺寸 Mounting Dimension D1*W1 (mm)	额定电流 Rated Current I <sub>n</sub> (A)	连接 K=端子 F=母排 Connection K=Terminal F=Flat Terminal	单台的近似总重 Total weight per PU approx. (kg)
		P=6%, L=恒定, 不超过 1.82·I <sub>thmax</sub> fRES=210 Hz		Choking Factor p=6%, L=constant, no more than 1.82·I <sub>thmax</sub>		fRES =210Hz		
RPCR 002800400SA06X	A	5.00	6.12	195*100*210	120*72	8.0	K	3.70
RPCR 004300400SA06X	A	7.50	4.081	195*100*210	120*92	12.0	K	5.00
RPCR 005700400SA06X	A	10.0	3.06	195*150*165	120*92	16.0	K	6.40
RPCR 007100400SA06X	A	12.5	2.45	195*165*165	120*112	20.0	K	9.10
RPCR 008500400SA06X	A	15.0	2.04	195*165*165	120*112	24.0	K	9.30
RPCR 011300400SA06X	A	20.0	1.53	230*160*185	150*95	32.0	K	13.0
RPCR 014200400SA06B	B	25.0	1.22	250*165*200	182*95	40.0	K	18.3
RPCR 017000400SA06B	B	30.0	1.02	250*170*200	182*105	50.0	K	18.0
RPCR 022700400SA06B	B	40.0	0.77	250*180*200	182*115	65.0	F	25.3
RPCR 028400400SA06B	B	50.0	0.61	290*185*220	214*118	80.0	F	34.1
RPCR 034000400SA06B	B	60.0	0.51	290*200*220	214*128	95.0	F	35.6
RPCR 045400400SA06B	B	80.0	0.38	320*205*285	243*130	130.0	F	42.0
RPCR 051000400SA06B	B	90.0	0.34	320*210*310	243*135	145.0	F	47.0
RPCR 056700400SA06B	B	100.0	0.31	320*220*310	243*140	160.0	F	51.9
		P=7%, L=恒定, 不超过 1.66·I <sub>thmax</sub> fRES= 189 Hz		Choking Factor p = 7%, L=constant, no more than 1.66·I <sub>thmax</sub>		fRES =189Hz		
RPCR 003500400SA07X	A	5.00	7.2	195*100*210	120*72	7.5	K	3.30
RPCR 005300400SA07X	A	7.50	5	195*100*210	120*92	11.0	K	4.80
RPCR 007000400SA07X	A	10.0	3.8	195*150*165	120*92	15.0	K	5.9
RPCR 008800400SA07X	A	12.5	3	195*165*165	120*112	19.0	K	8.60
RPCR 010500400SA07X	A	15.0	2.5	195*165*165	120*112	23.0	K	8.80
RPCR 014000400SA07X	A	20.0	1.8	230*160*185	150*95	30.0	K	12.8
RPCR 017500400SA07B	B	25.0	1.4	250*165*200	182*95	38.0	K	19.1
RPCR 021000400SA07B	B	30.0	1.2	250*170*200	182*105	45.0	K	19.6
RPCR 028000400SA07B	B	40.0	0.95	250*180*200	182*115	60.0	F	24.7
RPCR 035000400SA07B	B	50.0	0.75	290*185*220	214*118	75.0	F	26.5
RPCR 042000400SA07B	B	60.0	0.62	290*200*220	214*128	90.0	F	34.1
RPCR 056000400SA07B	B	80.0	0.46	320*205*285	243*130	122.0	F	40.0
RPCR 063000400SA07B	B	90.0	0.43	320*210*310	243*135	130.0	F	45.0
RPCR 070000400SA07B	B	100.0	0.37	320*220*310	243*140	150.0	F	50.0
		P=14%, L=恒定, 不超过 1.4·I <sub>thmax</sub> fRES= 134 Hz		Choking Factor p=14%, L=constant, no more than 1.4·I <sub>thmax</sub>		fRES =134Hz		
RPCR 007000400SA14X	A	5.00	16.6	195*120*210	120*92	7.0	K	5.10
RPCR 010500400SA14X	A	7.50	11.1	195*120*210	120*112	10.0	K	8.10
RPCR 014000400SA14X	A	10.0	8.29	195*120*210	120*112	14.0	K	9.40
RPCR 017500400SA14X	A	12.5	6.63	195*120*210	120*112	18.0	K	12.0
RPCR 021000400SA14X	A	15.0	5.53	195*120*210	182*95	21.0	K	16.0
RPCR 028000400SA14X	A	20.0	4.14	250*165*200	182*115	30.0	K	18.0
RPCR 035000400SA14B	B	25.0	3.32	290*180-210	214*113	35.0	K	28.0
RPCR 042000400SA14B	B	30.0	2.76	290*185*220	214*118	42.0	K	26.0
RPCR 056000400SA14B	B	40.0	2.07	290 *215*280	214*118	56.0	F	35.0
RPCR 070000400SA14B	B	50.0	1.66	320*230*275	243*135	70.0	F	37.2
RPCR 084000400SA14B	B	60.0	1.38	320*230*3 40	243*135	85.0	F	51.1
RPCR 112000400SA14B	B	80.0	1.04	375*250*320	260*165	110.0	F	54.1
RPCR 128000400SA14B	B	90.0	0.92	375*250*320	260*165	125.0	F	58.0
RPCR 140000400SA14B	B	100.0	0.829	375*265*360	260*175	140.0	F	62.0

## ■ 成品识别码(Product Identification Code)

RPCR	02100	0400	A07XC
无功补偿电抗器 Reactive Power Compensation	电抗器容量 Reactor Capacity VA	额定电压 Rated Voltage	S: Three Phase D: Single Phase A: Aluminum C: Copper 07: 7%电抗率 Reactance Rate X: 线绕 Wire Wound B: 箔绕 Foil Wound