

交流输入电抗器 (ACR) AC Input Reactor

■ 产品概述 (Product Introduction)

进线电抗器可被用于给线路电源提供改进的过载保护,并能减小变频器产生的电流谐波失真。提高输入电源的功率因素,减少高次谐波,抑制变频器在电源设备上的浪涌。

Input reactors offer overload to line power supply and reduce harmonic distortion arising from frequency inverters,also improve the input supply,reduce ultraharmonic and suppress the surge caused by frequency inverters to the power supply units.

■ 产品应用 (Product Application)

特别在下列环境下推荐使用进线电抗器:

- 1.几个变频器并联紧密连接
- 2.线路电源有来自其他设备的明显 扰动 (干扰, 过电压)
- 3.线路电源各相之间存在电压不平衡, 超过额定电压的1.8%
- 4.在同一线路上安装有大量的变频器
- 5.减小 $\cos \phi$ 校正电容器上的过载, 如果装置中含有一个功率系数校正设备

Particularly apply to the following cases:

1. Multiple frequency inverters in close parallel connection
2. Other devices produce interference to line power supply.(disturbance,, over voltage
3. Nonbalance among phases of line power supply.(1.8% over than of the rated voltage
4. Massive frequency inverters installed on the same line
5. Reduce $\cos \phi$ and correct the overload of capacitor, in case the power factor correction devices are installed in system

■ 技术规格 (Technical Specifications)

| | |
|---------------------------|---------------------------------------|
| 工作电压 Work Voltage: | 220VAC-3300VAC |
| 工作频率 Work Frequency: | 50/60Hz |
| 工作电流 Work Current: | 3A-1600A |
| 绝缘等级 Insulation Class: | class F,H |
| 防护等级 Protection class: | IP00-IP22 |
| 压降 Voltage drop: | < 4% 大于此范围会引起转矩损失 |
| 最大电流 Max Current: | 1.5×额定电流, 持续60S |
| 噪音 Noise: | <65dB |
| 温升 Temperature Rise: | <85K |
| 抗电强度 Dielectric strength: | 铁芯-绕组 3000VAC/50Hz/5mA/10s无飞弧击穿(工厂测试) |
| 绝缘电阻 Insulation Resistor: | 1000VDC绝缘阻值≥100MΩ |

使用环境: -10~+45 °C, 额定值不会降低。最高可达+55°C, 在45°C以上,
每升高1°C, 额定电流降低2%。海拔高度不超过2000米。

运行环境温度-25°C~+45°C, 相对湿度不超过90%。

周围无有害气体, 无易燃易爆物品。

周围环境应有良好的通风条件, 如装在柜内, 应加装通风设备。

Operation Environment:-10~+45 °C, rated value won't lower, when higher than 55 °C,
and every 1 °C, the current will step down 2%, Under seal level 2000m

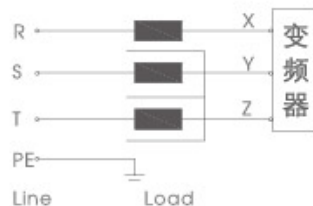
Running ambient temperature -25 °C ~ +45 °C, comparative moisture not over 90%.

No hazardous gas, no inflammables and explosives

With well-ventilated condition, ventilation devices shall be mounted if installation in panels



典型电路图



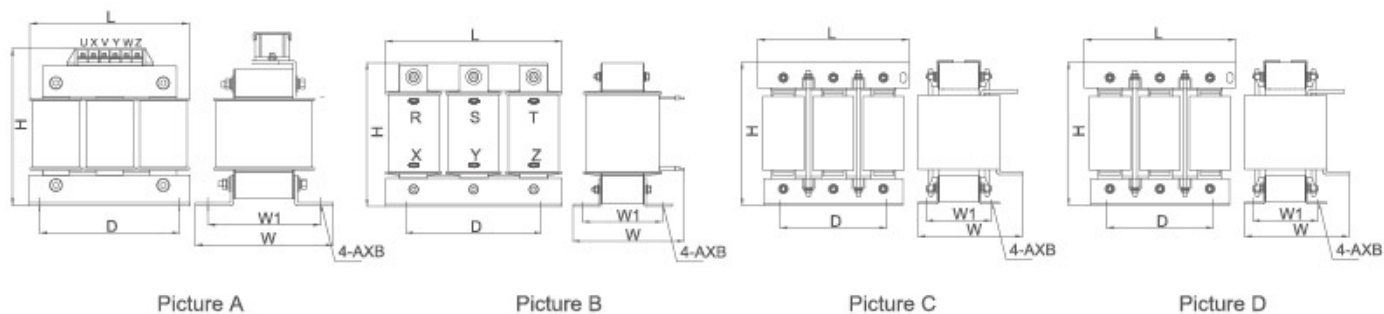
■ 执行标准 (Applicable Standards)

IEC289: 1987 Reactor

GB10229-88 Reactor (equiv IEC289: 1987)

JB9644-1999 Reactors used for semiconductor electrical driving

■ 产品尺寸图 (Product Size)



380V输入电抗器 380V AC Input Reactor

| 电抗器型号 Reactor Type | 图号 Picture NO. | 适配功率 Power (kw) | 额定电流 Rated Current(A) | 电感量 Inductance Value(mH) | 压降 Voltage Drop | 绝缘等级 Insulation rank | 尺寸 Dimension(±5mm) | | | | | |
|-----------------------|-------------------|--------------------|--------------------------|-----------------------------|--------------------|-------------------------|-----------------------|-----|-----|-----|-----|--------|
| | | | | | | | L | D | W | W1 | H | A×B |
| ACR-0005-2M80-0.4SC | 图 A Picture A | 1.5 | 5 | 2.8 | 2% | F、H | 115 | 90 | 95 | 70 | 135 | 6X11 |
| ACR-0007-2M00-0.4SC | | 2.2 | 7 | 2 | 2% | F、H | 115 | 90 | 95 | 70 | 135 | 6X11 |
| ACR-0010-1M40-0.4SC | | 3.7 | 10 | 1.4 | 2% | F、H | 115 | 90 | 95 | 70 | 135 | 6X11 |
| ACR-0015-0M94-0.4SC | | 5.5 | 15 | 0.94 | 2% | F、H | 115 | 90 | 95 | 70 | 135 | 6X11 |
| ACR-0020-0M70-0.4SC | 图 B Picture B | 7.5 | 20 | 0.7 | 2% | F、H | 113 | 90 | 95 | 70 | 135 | 6×11 |
| ACR-0030-0M47-0.4SC | | 11 | 30 | 0.47 | 2% | F、H | 155 | 95 | 130 | 63 | 135 | 6×15 |
| ACR-0040-0M36-0.4SC | | 15 | 40 | 0.36 | 2% | F、H | 155 | 95 | 135 | 76 | 135 | 6×15 |
| ACR-0050-0M28-0.4SC | | 18.5 | 50 | 0.28 | 2% | F、H | 155 | 95 | 135 | 76 | 135 | 6×15 |
| ACR-0060-0M24-0.4SC | | 22 | 60 | 0.24 | 2% | F、H | 195 | 120 | 135 | 72 | 165 | 8.5×20 |
| ACR-0080-0M18-0.4SC | | 30 | 80 | 0.18 | 2% | F、H | 195 | 120 | 155 | 92 | 165 | 8.5×20 |
| ACR-0090-0M16-0.4SC | | 37 | 90 | 0.156 | 2% | F、H | 195 | 120 | 155 | 92 | 165 | 8.5×20 |
| ACR-0120-0M12-0.4SA | 图 C Picture C | 45 | 120 | 0.117 | 2% | F、H | 230 | 150 | 170 | 83 | 220 | 11×18 |
| ACR-0150-094U-0.4SA | | 55 | 150 | 0.094 | 2% | F、H | 230 | 150 | 170 | 88 | 220 | 11×18 |
| ACR-0200-070U-0.4SA | | 75 | 200 | 0.07 | 2% | F、H | 250 | 182 | 175 | 98 | 230 | 11×18 |
| ACR-0250-056U-0.4SA | | 110 | 250 | 0.056 | 2% | F、H | 250 | 182 | 175 | 98 | 230 | 11×18 |
| ACR-0290-048U-0.4SA | | 132 | 290 | 0.048 | 2% | F、H | 290 | 214 | 200 | 102 | 250 | 11×18 |
| ACR-0330-042U-0.4SA | | 160 | 330 | 0.042 | 2% | F、H | 290 | 214 | 200 | 102 | 250 | 11×18 |
| ACR-0390-036U-0.4SA | | 185 | 390 | 0.036 | 2% | F、H | 290 | 214 | 205 | 107 | 250 | 11×18 |
| ACR-0490-028U-0.4SA | | 220 | 490 | 0.028 | 2% | F、H | 320 | 243 | 230 | 124 | 320 | 11×18 |
| ACR-0600-024U-0.4SA | | 280 | 600 | 0.024 | 2% | F、H | 320 | 243 | 250 | 140 | 320 | 11×18 |
| ACR-0660-022U-0.4SA | | 300 | 660 | 0.022 | 2% | F、H | 320 | 243 | 250 | 140 | 320 | 11×18 |
| ACR-0800-17U5-0.4SA | 图 D Picture D | 380 | 800 | 0.0175 | 2% | F、H | 365 | 260 | 280 | 135 | 390 | 15×25 |
| ACR-1000-014U-0.4SA | | 450 | 1000 | 0.014 | 2% | F、H | 365 | 260 | 280 | 139 | 410 | 15×25 |
| ACR-1200-11U7-0.4SA | | 550 | 1200 | 0.0117 | 2% | F、H | 395 | 260 | 340 | 160 | 390 | 15×25 |
| ACR-1600-08U6-0.4SA | | 630 | 1600 | 0.0086 | 2% | F、H | 395 | 260 | 340 | 160 | 435 | 15×25 |

备注：其他规格尺寸，可根据用户要求制造。Remark: Dimension can be customization

690V 输入电抗器 690V AC Input Reactor

| 电抗器型号 Reactor Type | 图号 Picture NO. | 适配功率 Power (kw) | 额定电流 Rated Current(A) | 电感量 Inductance Value(mH) | 压降 Voltage Drop | 绝缘等级 Insulation rank | 尺寸 Dimension(±5mm) | | | | | |
|-----------------------|-------------------|--------------------|--------------------------|-----------------------------|--------------------|-------------------------|-----------------------|-----|-----|-----|-----|--------|
| | | | | | | | L | W | H | D | W1 | A×B |
| ACR-0005-5M60-0.7SC | 图 A Picture A | 3.7 | 5 | 5.6 | 2% | F、H | 155 | 80 | 180 | 95 | 61 | 6X15 |
| ACR-0007-4M00-0.7SC | | 5.5 | 7 | 4 | 2% | F、H | 155 | 80 | 180 | 95 | 61 | 6X15 |
| ACR-0010-2M80-0.7SC | | 7.5 | 10 | 2.8 | 2% | F、H | 155 | 80 | 180 | 95 | 61 | 6X15 |
| ACR-0015-1M87-0.7SC | | 11 | 15 | 1.87 | 2% | F、H | 155 | 91 | 180 | 95 | 76 | 6X15 |
| ACR-0020-1M40-0.7SC | 图 B Picture B | 15/18.5 | 20 | 1.4 | 2% | F、H | 155 | 91 | 180 | 95 | 76 | 6X15 |
| ACR-0030-0M93-0.7SC | | 22 | 30 | 0.93 | 2% | F、H | 195 | 140 | 165 | 120 | 92 | 8.5X20 |
| ACR-0040-0M70-0.7SC | | 30 | 40 | 0.7 | 2% | F、H | 195 | 145 | 165 | 120 | 92 | 8.5X20 |
| ACR-0050-0M56-0.7SC | | 37/45 | 50 | 0.56 | 2% | F、H | 195 | 150 | 165 | 120 | 92 | 8.5X20 |
| ACR-0060-0M47-0.7SA | 图 C Picture C | 55 | 60 | 0.47 | 2% | F、H | 200 | 180 | 165 | 120 | 110 | 8.5X20 |
| ACR-0080-0M35-0.7SA | | 75 | 80 | 0.35 | 2% | F、H | 250 | 200 | 230 | 182 | 94 | 11X18 |
| ACR-0090-0M31-0.7SA | | 90 | 90 | 0.31 | 2% | F、H | 250 | 200 | 230 | 182 | 94 | 11X18 |
| ACR-0120-0M23-0.7SA | | 110 | 120 | 0.23 | 2% | F、H | 250 | 190 | 230 | 182 | 113 | 11X18 |
| ACR-0150-0M19-0.7SA | | 132 | 150 | 0.19 | 2% | F、H | 290 | 210 | 250 | 214 | 112 | 11X18 |
| ACR-0200-0M14-0.7SA | | 160/185 | 200 | 0.14 | 2% | F、H | 290 | 220 | 250 | 214 | 122 | 11X18 |
| ACR-0250-0M11-0.7SA | | 220 | 250 | 0.11 | 2% | F、H | 290 | 220 | 250 | 214 | 122 | 11X18 |
| ACR-0290-096U-0.7SA | | 240 | 290 | 0.096 | 2% | F、H | 320 | 250 | 285 | 243 | 134 | 11X18 |
| ACR-0330-085U-0.7SA | | 280/300 | 330 | 0.085 | 2% | F、H | 320 | 250 | 285 | 243 | 150 | 11X18 |
| ACR-0390-072U-0.7SA | | 380 | 390 | 0.072 | 2% | F、H | 320 | 260 | 320 | 243 | 150 | 11X18 |
| ACR-0490-057U-0.7SA | | 450 | 490 | 0.057 | 2% | F、H | 380 | 300 | 340 | 260 | 160 | 15X25 |
| ACR-0600-047U-0.7SA | | 图 D Picture D | 550 | 600 | 0.047 | 2% | F、H | 380 | 320 | 340 | 260 | 184 |
| ACR-0660-042U-0.7SA | Picture D | 630 | 660 | 0.042 | 2% | F、H | 380 | 320 | 340 | 260 | 186 | 15X25 |

备注：其他规格尺寸，可根据用户要求制造。Remark: Dimension can be customization

■ 成品识别码 (Product Identification Code)

