

## 直流电抗器 (DCR) DC reactor

### ■ 产品概述 (Product Introduction)

直流平波电抗器用于整流回路之中，抑制整流后的波纹脉动分量，并使整流后的电流连续不断，改善输出的支流波形，保证直流设备的正常运行。

DC smoothing reactor rectifier circuit being used to suppress ripple rectified pulsating component and make rectified current continuously Improve the output waveform tributaries, to ensure the normal operation of the DC devices.

### ■ 产品应用 (Product Application)

1. 改善电容滤波造成的输入电流波形畸变。
  2. 减少和防止因冲击电流造成整流桥损坏和电容过热。
  3. 提高功率因素，降低直流母线交流脉冲。
  4. 限制电网电压的瞬变。
  5. 与并联连接的电容一起共同抑制或滤掉直流中的纹波，以排除对负载的不利影响。
1. Suppress the waveform distortion of input current caused by capacitive filtering
  2. Reduce and avoid overheat of capacity and rectifier bridge damage both of which arise form surge current
  3. Improve power factor and reduce the DC busbar AC pulse.
  4. Limit the instant change of the grid voltage
  5. Work with capacitor to suppress or filter the current ripple for eliminating .negative influence onload

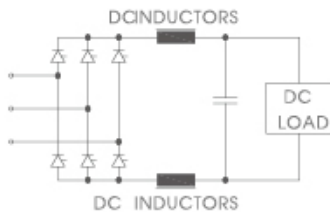
### ■ 技术规格 (Technical Specifications)

1. 工作电压: 220VAC-1140VAC
2. 工作频率: 50/60Hz.
3. 工作电流: 3A-1600A
4. 绝缘等级: class F,H
5. 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%
6. 防护等级: IP00-IP22
7. 最大电流: 1.5×额定电流,持续60S
8. 噪音: ≤65dB
9. 温升: ≤85K
10. 抗电强度: 铁芯-绕组 3000VAC/50Hz/5mA/10s无飞弧击穿(工厂测试)
11. 绝缘电阻: 1000VDC绝缘阻值≥100MΩ
12. 海拔高度不超过2000米。
13. 运行环境温度-25°C~+45°C,相对湿度不超过90%。
14. 周围无有害气体,无易燃易爆物品。
15. 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。

1. Work voltage: 220VAC-1140VAC
2. Work frequency: 50/60Hz.
3. Work current: 3A-1600A
4. Insulation class: class F, H
5. Operation Environment:-10...+45 °C, rated value wont' t lower, when higer than 45 °C, and every 1 °C, the current will step down 2%
6. Protection class: IP00-IP22
7. Max Current: 1.5 × Rated current, continuous 60S
8. Noise: ≤ 65dB
9. Temperature Rise: ≤ 85K
10. Dielectric strength: Core Coil 3000VAC/50Hz/5mA/10s no electric arcing puncture (factory test)
11. Insulation Resistor: 1000VDC insulation resistance value ≥ 100MΩ
12. Under seal level 2000m
15. Running ambient temperature -25 °C ~ +45 °C, comparative moisture not over 90%.
16. No hazardous gas, no inflammables and explosives
17. With well-ventilated condition, ventilation devices shall be mounted if installatloh in panels



典型电路图



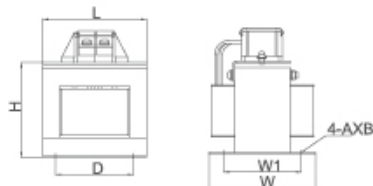
## ■ 执行标准 (Applicable Standards)

IEC289: 1987 Reactor

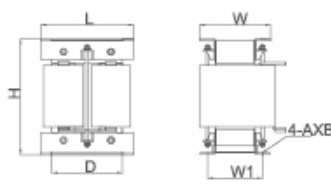
GB10229-88 Reactor (equiv IEC289: 1987)

JB9644-1999 Reactors used for semiconductor electrical driving

## ■ 产品尺寸图 (Product Size)



Picture A



Picture B

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)	绝缘等级 Insulation rank	尺寸 Dimension(±5mm)					
						L	D	W	W1	H	A×B
DCR-0010-6M30-0.4DC	图 A Picture A	4	10	6.3	F、H	110	87	120	70	135	6X12
DCR-0015-3M60-0.4DC		5.5	15	3.6	F、H	110	87	120	70	135	6X12
DCR-0020-3M60-0.4DC		7.5	20	3.6	F、H	110	87	120	70	135	6X12
DCR-0030-2M00-0.4DC		11	30	2	F、H	110	87	120	70	135	6X12
DCR-0040-2M00-0.4DC		15	40	2	F、H	110	87	120	70	135	6X12
DCR-0040-1M30-0.4DC		18.5	40	1.3	F、H	110	87	120	70	135	6X12
DCR-0050-1M08-0.4DC		22	50	1.08	F、H	120	95	135	85	145	8.5×14
DCR-0065-0M80-0.4DC		30	65	0.8	F、H	138	111	150	85	170	8.5×14
DCR-0080-0M70-0.4DC		37	80	0.7	F、H	138	111	150	85	170	8.5×14
DCR-0100-0M54-0.4DA		45	100	0.54	F、H	155	125	180	105	195	10×20
DCR-0120-0M45-0.4DA	图 B Picture B	55	120	0.45	F、H	155	125	160	90	195	10×20
DCR-0160-0M36-0.4DA		75	160	0.36	F、H	155	125	180	105	200	10×20
DCR-0200-0M33-0.4DA		90	200	0.33	F、H	155	100	180	98	215	10×20
DCR-0250-0M26-0.4DA		110	250	0.26	F、H	210	176	200	115	255	11×18
DCR-0300-0M26-0.4DA		132	300	0.26	F、H	210	176	200	115	255	11×18
DCR-0350-0M17-0.4DA		160	350	0.17	F、H	210	176	205	115	255	11×18
DCR-0450-090U-0.4DA		185	450	0.09	F、H	220	191	220	117	280	11×18
DCR-0500-060U-0.4DA		220	500	0.06	F、H	220	191	220	117	280	11×18
DCR-0650-050U-0.4DA		300	650	0.05	F、H	220	191	220	127	280	11×18
DCR-0800-050U-0.4DA		380/400	800	0.05	F、H	250	200	245	144	320	11×18
DCR-1000-050U-0.4DA	450	1000	0.05	F、H	250	200	280	146	360	11×18	
DCR-1200-050U-0.4DA	500	1200	0.04	F、H	250	200	280	164	390	11×18	

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

DCR

直流电抗器  
DC Reactor

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0060

额定电流  
Rated Current  
3A-1600A

-

0M24

电感量  
Resistance Value  
M:mH  
U:uH

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0.4SC

0.4:Working Voltage  
0.2=220V,0.4=380V,0.7=690V,1.1=1140V  
S: D=Single Phase Reactor  
S=Three Phase Reactor  
C: C=Copper  
A:Aluminium