

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 from 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 on load

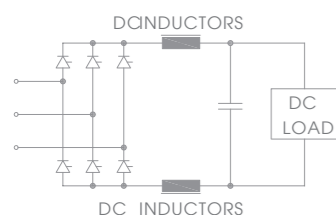
■ 技术规格 (Technical Specifications)

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℃, 额定值不会降低。最高可达+55℃, 在45℃以上, 每升高1℃, 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℃~+45℃, 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℃, rated value won't lower, when higher than 45℃, and every 1℃, 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℃ ~ +45℃, comparative moisture not over 90%.
16. No hazardous gas, no inflammables and explosives
17. With well-ventilated condition, ventilation devices shall be mounted if installation in panels



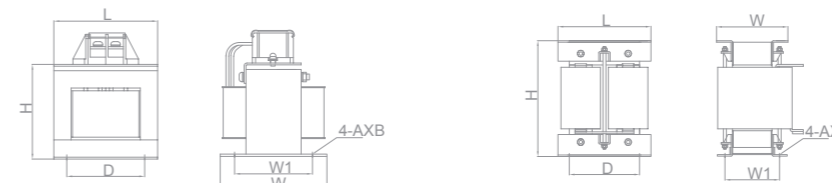
典型电路图



■ 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)



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	100	80	100	70	125	6X11
DCR-0015-3M60-0.4DC		5.5	15	3.6	F、H	110	87	120	70	135	6X11
DCR-0020-3M60-0.4DC		7.5	20	3.6	F、H	110	87	120	70	135	6X11
DCR-0030-2M00-0.4DC		11	30	2	F、H	110	87	120	70	135	6X11
DCR-0040-2M00-0.4DC		15	40	2	F、H	110	87	120	70	135	6X11
DCR-0040-1M30-0.4DC		18.5	40	1.3	F、H	110	87	120	70	135	6X11
DCR-0050-1M08-0.4DC		22	50	1.08	F、H	120	95	135	85	145	8.4×13
DCR-0065-0M80-0.4DC		30	65	0.8	F、H	138	111	150	85	170	8.4×13
DCR-0080-0M70-0.4DC		37	80	0.7	F、H	138	111	150	85	170	8.4×13
DCR-0100-0M54-0.4DA		45	100	0.54	F、H	138	111	150	85	170	8.4×13
DCR-0120-0M45-0.4DA	图 B Picture B	55	120	0.45	F、H	155	125	160	90	195	9×18
DCR-0160-0M36-0.4DA		75	160	0.36	F、H	165	100	130	98	215	9×18
DCR-0200-0M33-0.4DA		90	200	0.33	F、H	165	100	130	98	215	9×18
DCR-0250-0M26-0.4DA		110	250	0.26	F、H	210	176	150	115	255	11×18
DCR-0300-0M26-0.4DA		132	300	0.26	F、H	210	176	150	115	255	11×18
DCR-0350-0M17-0.4DA		160	350	0.17	F、H	210	176	150	115	255	11×18
DCR-0450-090U-0.4DA		185	450	0.09	F、H	220	191	150	115	280	11×18
DCR-0500-060U-0.4DA		220	500	0.06	F、H	220	191	150	115	280	11×18
DCR-0650-050U-0.4DA		300	650	0.05	F、H	230	208	160	125	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	-	0060	-	0M24	-	0.4SC
直流电抗器 DC Reactor		额定电流 Rated Current 3A-1600A		电感量 Resistance Value M:mH U:uH		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