

空心电抗器(KCR) Air Core Reactor

■ 产品概述(Product Introduction)

空心电抗器主要分空心串联电抗器、空心滤波电抗器、空心并联电抗器、空心限流电抗器、空心分裂电抗器、空心启动电抗器等。常用于无功补偿、滤除谐波、限流等场合。

Air-core reactors are mainly divided into air-core series reactors, air-core filter reactors, air-core parallel reactors, air-core current-limiting reactors, air-core split reactors, air-core starting reactors, etc. Commonly used in reactive power compensation, harmonic filtering, current limiting and other occasions.

■ 产品特点 (Product Feature)

- 1.无油结构，杜绝了油浸电抗器漏油、易燃等缺点，保证了运行安全。没有铁芯，不存在铁磁饱和，电感值的线性度好
- 2.应用计算机进行干式空心电抗器优化设计，可以按照用户的不同使用要求快速准确地设计出最理想的结构参数
- 3.采用多层绕组并联的筒形结构，各包封之间有通风气道，散热性好，热点温度低
- 4.绕组选用小截面圆导线多股平行绕制，可使涡流损耗和漏磁损耗明显减小
- 5.绕组外部用浸渍环氧树脂的玻璃纤维缠绕严密包封，并经高温固化，使之具有很好的整体性，其机械强度高，耐受短时电流的冲击能力强
- 6.采用机械强度高的铝质星形接线架，涡流损耗小
- 7.安装方式可三相垂直，也可品字或一字形，户外露天使用可大大减少基建投资
- 8.运行安全、噪音低，不需经常维护
- 9.绝缘等级：F、H
- 10.使用环境：海拔不超过2000m，环境温度-25~ +45℃，相对湿度不超过90%，电源电压的波形近似于正弦波，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

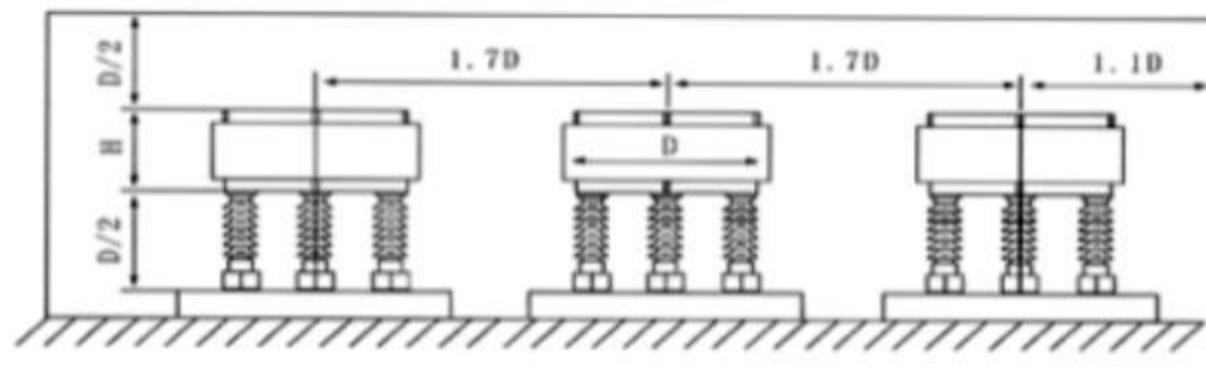


- 1.The oil-free structure eliminates the shortcomings of oil-immersed reactors such as oil leakage and flammability, and ensures safe operation. There is no iron core, so there is no ferromagnetic saturation, and the linearity of the inductance value is good
- 2.Using computers to optimize the design of dry-type air-core reactors can quickly and accurately design the most ideal structural parameters according to different requirements
- 3.It adopts a cylindrical structure with multi-layer windings connected in parallel, and there are ventilation channels between each package, which has good heat dissipation and low hot spot temperature
- 4.The windings are made of small-section circular conductors and are wound in parallel with multiple strands, which can significantly reduce eddy current loss and magnetic leakage loss
- 5.The outside of the winding is tightly wrapped with glass fiber impregnated with epoxy resin and cured at high temperature to make it have good integrity, high mechanical strength and strong ability to withstand the impact of short-term current
- 6.Adopt aluminum star wiring frame with high mechanical strength and small eddy current loss
- 7.The installation method can be three-phase vertical, or in a horizontal or vertical shape, which greatly reduces infrastructure investment for outdoor use
8. Safe operation, low noise and no need for regular maintenance
9. Insulation Class: F/H
- 10.Applicable Environment: work under 2000m, the ambient temperature is -25 ~ +45℃, the relative humidity does not exceed 90%, the waveform of the power supply voltage is similar to a sine wave, there are no hazardous gas, flammable and explosive. The surrounding environment should have good ventilation conditions. If installed in a cabinet, ventilation equipment should be installed.

■ 执行标准(Applicable Standard)

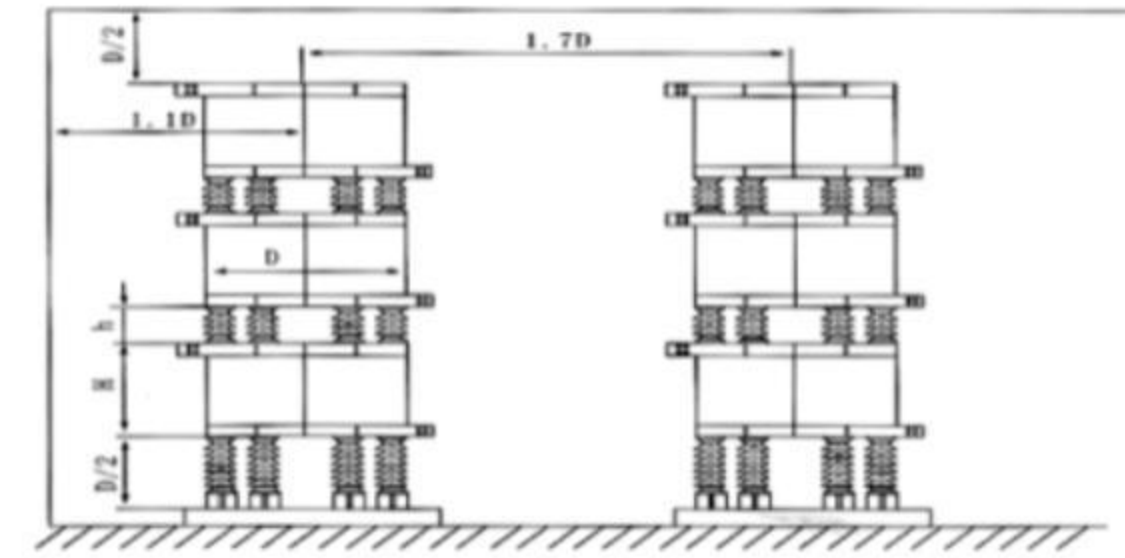
- IEC 60076-6 Reactors
- GB/T1094.6 Reactors
- JB9644 Reactors or semiconductor electric drive

■ 产品尺寸图(Product Size)



三相叠放时最小磁间距

Minimum magnetic distance when three phases are stacked



三相平放时最小磁间距

Minimum magnetic distance when three phases are laid flat

型号 Type	配套并联电容器 Matched Capacitor Connected Paralely		额定电抗率 (%) Rated Reactance Rate	额定容量 (kvar) Rated Capacity	额定端电压 (V) Rated Terminal Voltage	额定电流 (A) Rated Current	额定电感 (mH) Rated Inductance	外形尺寸 Dimensions		单相重 (kg) Weight of Single Phase	安装直径 (mm) Installation diameter	安装方式 Installation Method			
	额定容量 (kvar) Rated Capacity	额定电压 (kV) Rated Voltage						外径 (mm) Outer Diameter	高度 (mm) Height						
KCR8-6.3/1.001	2400	$6.3/\sqrt{3}$	1	8	36.4	219.8	0.53	600	500	55	520	三相叠放或三相平放 Three phases stacked or laid flat			
KCR10-6.3/1.001	3000			10		274.7	0.42	600	500	65	500				
KCR12-6.3/1.001	3600			12		329.7	0.35	600	480	70	500				
KCR16-6.3/1.001	4800			16		439.6	0.26	800	450	85	650				
KCR15-6.6/5.001	900	$6.6/\sqrt{3}$	5	15	190.5	78.5	7.72	700	560	85	550				
KCR20-6.6/5.001	1200			20		104.7	5.79	800	540	89	600				
KCR40-6.6/5.001	2400			40		210	2.89	840	460	136	640				
KCR60-6.6/5.001	3600			60		315	1.93	840	610	187	640				
KCR70-6.6/5.001	4200			70		367	1.65	870	670	185	670				
KCR80-6.6/5.001	4800			80		420	1.44	870	690	210	670				
KCR24-6.6/6.001	1200			$6.6/\sqrt{3}$		6	24	228.6	105	6.93	800		510	112	600
KCR30-6.6/6.001	1500						30		131.2	5.55	800		520	125	600
KCR36-6.6/6.001	1800						36		157.5	4.62	800		530	136	600
KCR42-6.6/6.001	2100						42		183.7	3.96	840		500	147	640
KCR48-6.6/6.001	2400	48	210		3.47		840		500	158	640				
KCR54-6.6/6.001	2700	54	236.2		3.08		840		630	169	640				
KCR60-6.6/6.001	3000	60	262.5		2.77		840		680	184	640				
KCR72-6.6/6.001	3600	72	315		2.31		960		570	189	760				
KCR84-6.6/6.001	4200	84	367.5		1.98		960		590	226	760				
KCR96-6.6/6.001	4800	96	419.9		1.73		960		630	260	760				
KCR48-7.2/12.001	1200	$7.2/\sqrt{3}$	12	48	498.8	96.2	16.5	1100	660	170	950				
KCR60-7.2/12.001	1500			60		120.3	13.2	1100	650	185	950				
KCR72-7.2/12.001	1800			72		144.3	11	1100	640	190	950				
KCR84-7.2/12.001	2100			84		168.4	9.43	1100	630	200	950				
KCR96-7.2/12.001	2400			96		192.5	8.25	1100	600	210	950				
KCR120-7.2/12.001	3000			120		240.6	6.6	1100	600	240	950				
KCR144-7.2/12.001	3600			144		288.7	5.5	1250	560	255	1100				
KCR168-7.2/12.001	4200			168		336.8	4.71	1350	660	340	1200				
KCR180-7.2/12.001	4500			180		360.9	3.4	1400	660	360	1250				

备注：其他规格尺寸，可根据用户要求制造 Remark: Customized if necessary.

■ 成品识别码(Product Identification Code)

KCR	8	6.3	1.001
空心电抗器 Air Core Reactor	额定容量 Rated Capacity	额定电压 Rated Voltage	额定电抗率 Rated Reactance Rate