

CD60型交流电动机起动用铝电解电容器

CD60 ALUMINUM ELECTROLYSIS CAPACITOR FOR AC MOTOR STARTING

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概述 General Description

CD60型电容器为圆形交流电动机起动用铝电解电容器，适用于和频率100Hz及以下的单相异步电动机绕组连接的，以及和三相异步电动机连接从而使这些电动机可由单相系统来供电的，额定电压500V及以下的电动机用铝电解电容器。

CD60型电动机起动用铝电解电容器，由于外壳所用材料不同，以及引出端子结构不同，为了用户订购方便，又分为多种编号。

铝外壳的有：CD60-1~6

酚醛(胶木)外壳有：CD60-7

尼龙(聚碳)外壳(带盖)：CD60-8~10

电压、容量、尺寸、外形、端子结构，见图1.2.3.4.5，表1.2.3.4

CD 60 type capacitor is that of a round a luminum electrolysis for AC motor starting, it is suitable for being connected with windings of single-phase asynchronous motor of 100Hz or below as well as three-phase asynchronous motor, to realize power supply for these motors from single-phase system. Motor of rated voltage 500V or below needs aluminum electrolysis capacitor.

Because this capacitor enclosure is made of different material, and the leading-out terminal structure is also different, it has kinds of numbers for convenience to order.

Aluminum enclosure: CD60-1~6

Bakelite enclosure: CD60-7

Nylon enclosure (with cap): CD60~8~10

Voltage, capacity, size, outline and terminal structure are shown in diagram 1.2.3.4.5 and table 1.2.3.4.

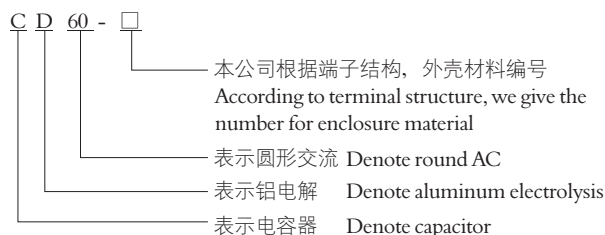
图1 Diagram 1



使用条件 *Service Conditions*

- 1、安装运行地区的海拔 ≤2000m及 I 级污秽地区。
 - 2、电容器投入时的剩余电压不超过额定电压的10%。
 - 3、电容器运行温度范围为-25~+55℃。
 - 4、电容器的湿热严酷度为21d。
1. Altitude of installation and operation site is ≤2000m, and the site shall be class I pollution zone.
 2. The residual voltage shall not exceed 10% of rated voltage when the capacitor cuts in.
 3. The operation temperature of capacitor is -25~+55℃.
 4. The hot and humid severity of capacitor is 21d.

型号说明 *Model Meanings*



主要技术参数 *Main Technical Parameter*

项目 <i>Item</i>	性能 <i>Characteristics</i>
使用温度范围 <i>Operating temperature range</i>	-25~+55℃
额定电压范围 <i>Rated voltage range</i>	110~330VAC
标称容量范围 <i>Nominal capacitance range</i>	25-1000 μ F
标称容量允许偏差(20℃, 120Hz) <i>Nominal capacitance tolerance</i>	10%, 15%, 20%, 0~+30%
损耗角正切值 <i>Dissipation factor (20℃, 120Hz)</i>	Tg δ ≤0.15
电介质的电气强度 <i>Surge voltage</i>	电容器引出端间的介质应能承受1.2Un的试验电压，历时2S，试验期间不应发生击穿或闪络 The medium among leading-out terminals of capacitor shall bear 1.2Un test voltage for 2S, it shall not have breakdown or flashover during being tested.
耐久性试验 <i>Load life</i>	Un小于160V电容器按通电1S，不通电1min试验，对于Un ≥ 160V电容器，按1S通电和2min不通电进行试验，试验持续时间500h，包括通电和不通时间，试验时间从电容器加电压开始算起，试验电压应为最高电压的0.85倍，最大允许电容量变化为15%初始值。 Capacitor whose Un is less than 160V, shall be given the test for 1min under power-off, and the capacitor whose Un is ≥ 160V, shall be given the test for 1 min under power-on and 2 min under power-off, the duration for test is 500h, including power-on and power-off time, the test time is calculated when the capacitor begins to be applied voltage, the test voltage is 0.85 times of max voltage, the max allowable capacitance change is 15% of initial value.
电容器的绝缘水平试验 <i>Insulation level test for capacitor</i>	电容器引出端与外壳之间的绝缘应承受 ≥ 2KV的工频试验电压，时间为10S，不应发生击穿或闪络 The insulation between leading-out terminal and enclosure shall bear ≥ 2KV power frequency test voltage for 10S, it shall not have breakdown or flashover during being tested.

CD60-1~6型标称容量、额定电压、外形尺寸表 *Nominal capacitance, rated voltage and case size*

表1 Table

μF	VAC		110/125		220/250		275/330	
	mm							
25			30	70	34	70	34	80
50			30	70	34	70	34	80
75			30	70	34	70	34	80
100			34	70	34	80	42	80
150			34	70	34	80	42	80
200			34	80	42	80	50	100
250			34	80	42	80	50	100
300			34	80	50	100	50	120
350			42	80	50	100	50	120
400			42	80	50	100	65	100
450			42	80	50	100	65	120
500			50	100	65	100		
600			50	100	65	100		
800			50	120				
1000			50	120				