



系列大马力单相电容启动异步电动机
SERIES HEAVY-DUTY SINGLE-PHASE
CAPACITOR START INDUCTION MOTOR

系列大马力单相电容启动运转异步电动机
SERIES HEAVY-DUTY SINGLE-PHASE
CAPACITOR START AND RUN INDUCTION MOTOR

简介 INTRODUCTION:

YC系列大马力单相电动机适用于驱动小型车床、水泵，对只有单相电源的家庭、作坊尤为适用。该系列电动机采用先进技术设计，使用优质材料制造，具有外形美观、性能先进、维护方便、运行可靠等特点，符合IEC标准的严格要求。

YC系列电动机为全封闭扇冷式，输出功率3HP及以下采用电容启动，在额定电压下50HZ时启动转矩大于3倍，60HZ时大于2.75倍，输出功率4HP及以上采用电容启动、运转，集中了启动转矩大、运转平稳、温升低、噪声小、过载能力高等优点。

YCL系列大马力单相电容启动运转异步电动机，适用于驱动小型车床、水泵，对只有单相电源的家庭作坊尤为适用。该系列电动机采用先进技术设计，使用优质材料制造，具有外形美观、性能先进、维护方便、运行可靠、温升低、噪声小、启动电流小、启动转矩大等特点，符合IEC标准有关规定。

YCL系列电动机外形与YC电机相同，与YC系列电动机同等功率相比，YCL系列电机的温升平均降低7.6%，效率增加2.1%，功率因数增加0.16。

YC series heavy-duty single-phase motors are suitable for small size machine tools and water pumps, especially suitable for family workshops where only single-phase power be supplied. These series motors are designed with the latest technology, manufactured with the quality materials, have following features: good performance, safe and reliable operation, nice appearance, convenient maintenance, meet the IEC standards.

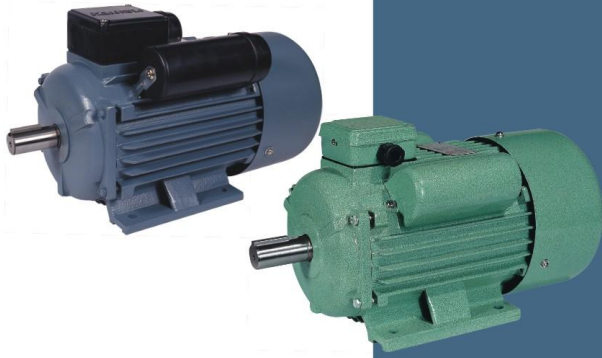
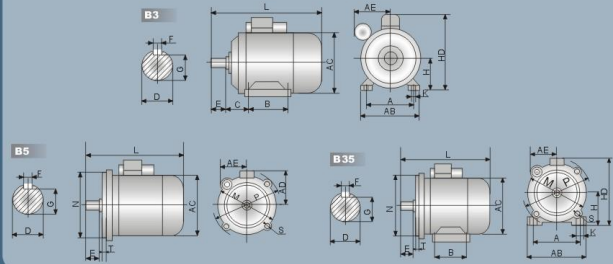
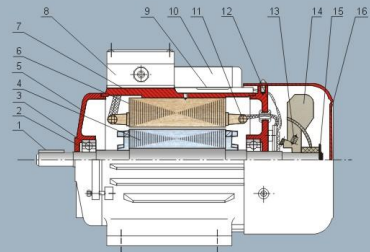
YC series motors are of IP44 totally enclosed fan-cooled (TEFC) type, capacitor starting for rated output up to 3HP, on rated voltage and 50Hz, the starting torque is three times more than the rated torque, while 60Hz is 2.75 times more. Capacitors start and run type for motors 4HP and above. It has following features: high starting torque, smooth running, low temperature rise, low noise and greater overload performance. YCL series heavy-duty capacitor start and run, single phase induction motors are suitable for driving small-size turning machine, especially suitable for household and workshop where only single-phase power be supplied. This series of motors are designed with advanced technique and made of high quality materials. It also has following features: low noise, low temperature rise, small starting current, high starting torque, reliable operation, easy maintenance and nice appearance, they also meet the relative standards of IEC. YCL series motors are similar to YC series in appearance. Comparing with the same output of YC series motors, YCL series temperature rise is reduce 0.74k on average, efficiency is increased 0.21%, power factor is increased 0.16.

使用条件 OPERATING CONDITIONS

环境温度: -15℃~+40℃ 海拔: 不超过1000M
 额定电压: 110V, 115V, 120V, 220V, 230V, 240V
 额定频率: 50HZ或60HZ 防护等级: IP44, IP54
 绝缘等级: B级、F级、H级 冷却方式: IC 411
 工作方式: S1 (连续工作制)
 Ambient temperature: -15℃~+40℃ Altitude not exceed 1000m
 Rated voltage: 110V, 115V, 120V, 220V, 230V, 240V
 Rated frequency: 50Hz or 60Hz Protection class: IP44, IP54
 Insulation class: B, F, H Cooling method: IC 411
 Duty: S1(continuous)

MATERIAL TABLE

Item	Description
1	键 Key
2	波形垫圈 Wave-form washer
3	滚珠轴承 Ball bearing
4	转子 Rotor
5	前盖盖 DE shield
6	定子 Stator pack with winding
7	机座 Frame
8	接线盒 Terminal box
9	名牌 Nameplate
10	电容 Capacitor
11	线圈 Winding
12	后盖盖 HDE shield
13	离心开关 Centrifugal switch
14	风扇 Fan
15	档圈 Clutch
16	风罩 Fan cowl



外形及安装尺寸 OVERALL AND MOUNTING DIMENSION

机座号 Frame Size	安装尺寸 Mounting Dimension (mm)														外形尺寸 Overall Dimension (mm)					
	A	B	C	D	E	F	G	H	K	M	N	P	R	S	T	AB	AC	AD	HD	L
71	112	90	45	14	30	5	11	71	7	130	110	160	0	10	3.5	145	145	140	180	255
80	125	100	50	19	40	6	15.5	80	10	165	130	200	0	12	3.5	160	165	150	200	295
90S	140	100	56	24	50	8	20	90	10	185	130	200	0	12	3.5	180	185	160	240	370
90L	140	125	56	24	50	8	20	90	10	165	130	200	0	12	3.5	180	185	160	240	400
100L	160	140	63	28	60	8	24	100	12	215	180	250	0	15	4.0	205	220	180	280	430
112M	190	140	70	38	60	8	24	112	12	215	180	250	0	15	4.0	245	250	190	300	455
132S	216	140	89	38	80	10	33	132	12	265	230	300	0	15	4.0	280	290	210	350	525
132M	216	178	89	38	80	10	33	132	12	265	230	300	0	15	4.0	280	290	210	350	553

技术数据 TECHNICAL DATA(220V 50Hz)

型号 Model	功率 Output		电流 Current (A)	功率因数 Power factor	效率 EFF (%)	转速 Speed (r/min)	堵转转矩 额定转矩 Tstart/Tn	堵转电流 额定电流 Ist/In	最大转矩 额定转矩 Tmax/Tn
	KW	HP							
YC711-2	0.18	1/4	1.9	0.70	63.0	2800	3.0	6.5	2.0
YC712-2	0.25	1/3	2.4	0.72	65.0	2800	3.0	6.5	2.0
YC80A-2	0.37	1/2	3.5	0.74	66.0	2840	3.0	6.5	2.0
YC80B-2	0.55	3/4	5.04	0.74	67.0	2850	3.0	6.5	2.0
YC90C-2	0.75	1	6.68	0.75	68.0	2850	3.0	6.5	2.0
YC90S-2	1.1	1.5	8.93	0.80	70.0	2850	2.8	7.0	2.0
YC90L-2	1.5	2	11.4	0.82	73.0	2870	2.8	7.0	2.0
YC100L-2	2.2	3	16.5	0.82	74.0	2900	2.5	7.0	2.0
YC112M1-2	3	4	21.4	0.84	76.0	2900	2.2	7.0	2.0
YC112M2-2	3.7	5	24.8	0.86	79.0	2900	2.2	7.0	2.0
YC711-4	0.12	1/6	1.9	0.58	48.0	1400	3.0	6.0	2.0
YC712-4	0.18	1/4	2.7	0.60	50.0	1400	3.0	6.0	2.0
YC80A-4	0.25	1/3	3.52	0.62	52.0	1400	3.0	6.0	2.0
YC80B-4	0.37	1/2	4.99	0.64	56.0	1400	3.0	6.0	2.0
YC80C-4	0.55	3/4	6.0	0.65	60.0	1400	3.0	6.0	2.0
YC90S-4	0.75	1	7.5	0.72	63.0	1400	2.8	6.5	2.0
YC90L-4	1.1	1.5	10.4	0.72	67.0	1420	2.8	6.5	2.0
YC100L-4	1.5	2	13.0	0.73	72.0	1440	2.8	6.5	2.0
YC112M-4	2.2	3	18.5	0.74	73.0	1450	2.5	6.5	2.0
YC132S1-4	3	4	22.4	0.80	76.0	1450	2.2	6.5	2.0
YC132S2-4	3.7	5	26.0	0.82	79.0	1450	2.2	6.5	2.0

技术数据 TECHNICAL DATA(220V 50Hz)

型号 Model	功率 Output		电流 Current (A)	功率因数 Power factor	效率 EFF (%)	转速 Speed (r/min)	堵转转矩 额定转矩 Tstart/Tn	堵转电流 额定电流 Ist/In	最大转矩 额定转矩 Tmax/Tn
	KW	HP							
YCL90S-2	1.1	1.5	7.2	0.95	73.2	2880	2.8	6.0	1.8
YCL90L-2	1.5	2	8.9	0.97	76.0	2900	2.8	7.0	1.8
YCL100L-2	2.2	3	13.2	0.96	78.8	2900	3.0	6.5	1.8
YCL90S-4	0.75	1	5.0	0.93	73.3	1450	2.8	6.5	1.8
YCL90L-4	1.1	1.5	7.8	0.90	75.0	1450	2.5	6.0	1.8
YCL100L-4	1.5	2	9.3	0.92	76.4	1450	2.8	7.0	1.8
YCL132M-4	2.2	3	13.6	0.90	81.6	1450	2.3	6.5	1.8
YCL132S1-4	3.0	4	18.2	0.90	83.2	1450	2.1	6.5	1.8
YCL132S2-4	3.7	5	22.9	0.90	84.9	1450	2.1	6.5	1.8
YCL132M1-4	5.5	7.5	32.5	0.90	85.0	1460	2.0	6.5	1.8
YCL132M2-4	7.5	10	40.0	0.90	85.5	1460	2.0	6.5	1.8

*因为各个国家的电压不同, 技术数据将会有所改变。
*BECAUSE THE DIFFERENT VOLTAGE OF EACH COUNTRY, THE TECHNICAL DATA WILL BE CHANGED.