

SINGLE-PHASE CAPACITOR-START INDUCTION MOTORS

CAST-IRON HOUSING

YC/YCL



YC series heavy-duty single-phase motors are suitable for driving small machines and water pumps, especially for families or workshops where only single-phase electric supply are available conforming to "IEC" design with advanced techniques and made from best materials, the motors have pleasant appearance and good performance.

YC series motors are of IP44, totally enclosed and fan-cooling type. Rated output is 3HP or below are capacitor-start, when operating under rated voltage, under 50HZ(60HZ), has a starting torque as high as 3 times the rated one and under 60HZ, the torque can be 2.75 times the rated one. Motors of 4HP and above are of capacitor start and run. They have the advantages of high torque, steady running, low the mal rise, lower noise and greater overload performance.

YCL series heavy-duty single-phase two-value capacitor induction motors. They have an attractive appearance, outstanding performance, easy maintenance and are reliable. They completely conform to International I.E.C. standards.

YCL series motors are of IP44 totally enclosed fan-cooling, capacitor start and run type. They all have the advantage of high starting torque, smooth running, low temperature rise, low noise and greater overload performance.

OPERATING CONDITIONS

Ambient temperature: $-15^{\circ}\text{C} < \theta < 40^{\circ}\text{C}$
 Altitude: Not exceeding 1000meters
 Rated voltage: 220V
 Rated frequency: 50Hz、60Hz
 Duty/Rating: Continuous(S1)
 Protection class: IP44、IP54
 Insulation class: Class B、F
 Cooling method: IC0141

YC/YCL Single-Phase Capacitor-Start Induction Motors

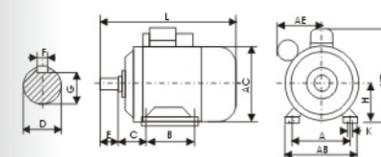
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Technical data

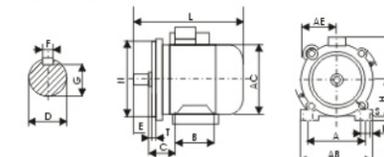
Model	Rated Output		Full load Voltage V	Rated Current A	Rated Speed rpm	Eff η %	Power factor COS ϕ	Ts/Tn Times	Tmax/Tn Times	Ist/In Times
	kW	Hp								
3000rpm,2-pole,50Hz										
YC80A-2	0.37	0.5	220	3.5	2880	65	0.73	2.8	1.8	6.5
YC80B-2	0.55	0.75	220	5.1	2880	68	0.73	2.8	1.8	6.5
YC80C-2	0.75	1	220	6.4	2880	70	0.75	2.4	1.8	6.5
YC90S-2	1.1	1.5	220	8.7	2880	72	0.77	2.4	1.8	7.0
YC90L-2	1.5	2	220	11.6	2900	74	0.78	2.4	1.8	7.0
YC100-2	2.2	3	220	16.4	2900	75	0.79	2.1	1.8	7.0
1500rpm,4-pole,50Hz										
YC80A-4	0.25	0.33	220	3.3	1450	58	0.60	2.8	1.8	6.0
YC80B-4	0.37	0.5	220	4.3	1450	62	0.62	2.8	1.8	6.0
YC80C-4	0.55	0.75	220	5.7	1450	66	0.65	2.8	1.8	6.0
YC90S-4	0.75	1	220	7.4	1450	68	0.66	2.4	1.8	6.5
YC90L-4	1.1	1.5	220	10	1450	71	0.68	2.4	1.8	6.5
YC100L-4	1.5	2	220	12.9	1450	73	0.70	2.4	1.8	6.5
YC112M-4	2.2	3	220	18.5	1450	74	0.72	2.2	1.8	6.5
YC132SA-4	3	4	220	24.1	1450	75	0.73	2.1	1.8	6.5
YC132SB-4	3.7	5	220	28.7	1450	76	0.74	2.1	1.8	6.5
3000rpm,2-pole,50Hz										
YCL90S-2	1.1	1.5	220	6.9	2880	73.2	0.95	2.8	1.8	6.0
YCL90L-2	1.5	2	220	8.5	2900	76.0	0.97	2.8	1.8	7.0
YCL100L-2	2.2	3	220	12.6	2900	78.8	0.96	3.0	1.8	6.5
1500rpm,4-pole,50Hz										
YCL90S-4	0.75	1	220	5.3	1450	73.3	0.93	2.8	1.8	6.5
YCL90L-4	1.1	1.5	220	7.5	1450	75	0.90	2.5	1.8	6.0
YCL100L-4	1.5	2	220	8.9	1450	79.4	0.92	2.8	1.8	7.0
YCL112M-4	2.2	3	220	12	1450	81.6	0.90	2.3	1.8	6.5

Overall & Installation Dimensions

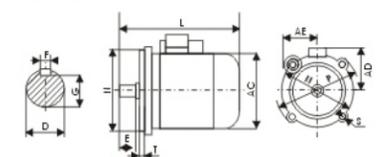
IMB3



IMB35



IMB5



FRAME SIZE	MOUNTING DIMENSIONS (MM)														FRAME DIMENSIONS(MM)						
	A	B	C	D	E	F	G	H	K	M	N	P	R	S	T	AB	AC	AD	AE	HD	L
80	125	100	50	19	40	6	15.5	80	10	165	130	200	0	12	3.5	160	165	120	110	200	310
90S	140	100	56	24	50	8	20	90	10	165	130	200	0	12	3.5	180	185	140	120	240	365
90L	140	125	56	24	50	8	20	90	10	165	130	200	0	12	3.5	180	185	140	120	240	385
100L	160	140	63	28	60	8	24	100	12	215	180	250	0	15	4.0	205	220	145	130	260	415
112M	190	140	70	28	60	8	24	112	12	215	180	250	0	15	4.0	245	250	160	140	200	440
132S	216	140	89	38	80	10	33	132	12	265	230	300	0	15	4.0	280	262	210	150	350	470