

Single-Phase Electric Motor

A single-phase capacitor-start induction motor, totally enclosed and fan-cooled, running on a 220 V supply. It pairs high starting torque with a simple construction, dependable performance and easy maintenance, and is built for continuous duty. Available from 0.25 to 5.5 kW (0.33 – 7.5 HP) in 2-pole and 4-pole versions, it drives air compressors, pumps, woodworking machines, farm equipment, refrigeration units, washing machines and medical equipment — wherever a three-phase supply is not available.



TECHNICAL SPECIFICATIONS

Type	YC series, capacitor start
Power	0.25 – 5.5 kW (0.33 – 7.5 HP)
Voltage	220 V
Frequency	50 Hz (60 Hz available)
Speed	2-pole: 2880 – 2900 rpm · 4-pole: 1450 rpm
Starting Torque	2.2 – 3 × rated torque
Frame Sizes	80 – 132
Mounting	B3 / B5 / B35
Protection	IP44 / IP54
Insulation Class	B / F
Cooling	IC411 (external fan)
Duty	S1 (continuous)

KEY FEATURES

- High starting torque, up to 3 × rated torque
- Runs on a 220 V single-phase supply, no three-phase needed
- Totally enclosed frame with external fan cooling
- Foot or flange mounting: B3 / B5 / B35
- Simple construction, dependable performance, easy maintenance

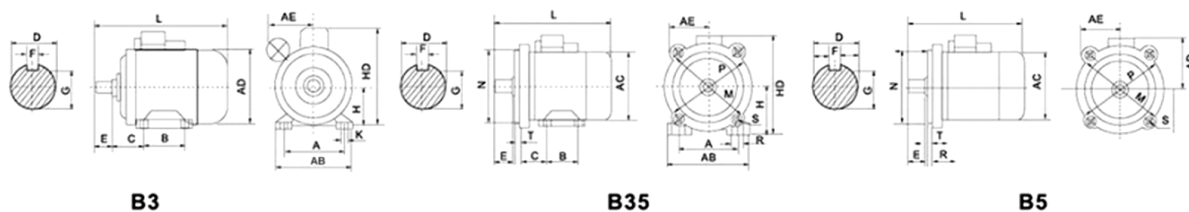
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RATINGS AND PERFORMANCE

Type	Output (kW)	Output (HP)	Current (A)	Speed (rpm)	Efficiency (%)	Power factor	Starting torque (× rated)	Starting current (× rated)	Max. torque (× rated)
YC80A-2	0.37	0.5	3.7	2880	66	0.74	3	6.5	2
YC80B-2	0.55	0.75	5.3	2880	67	0.74	3	6.5	2
YC80C-2	0.75	1	6.7	2880	68	0.75	3	6.5	2
YC90S-2	1.1	1.5	9.1	2880	71	0.8	2.8	7	2
YC90L-2	1.5	2	12.1	2880	72	0.82	2.8	7	2
YC100L-2	2.2	3	17.1	2900	74	0.82	2.5	7	2
YC112M1-2	3	4	21.4	2900	76	0.84	2.2	7	2
YC112M2-2	3.7	5	24.8	2900	79	0.86	2.2	7	2
YC80A-4	0.25	0.33	3.4	1450	56	0.62	3	6	2
YC80B-4	0.37	0.5	4.5	1450	60	0.64	3	6	2
YC80C-4	0.55	0.75	6.0	1450	64	0.65	3	6	2
YC90S-4	0.75	1	7.7	1450	67	0.72	2.8	6.5	2
YC90L-4	1.1	1.5	10.5	1450	70	0.72	2.8	6.5	2
YC100L-4	1.5	2	13.5	1450	72	0.73	2.8	6.5	2
YC112M-4	2.2	3	19.3	1450	73	0.74	2.5	6.5	2
YC132SA-4	3	4	25.2	1450	76	0.8	2.2	6.5	2
YC132SB-4	3.7	5	30	1450	79	0.82	2.2	6.5	2
YC132M-4	5.5	7.5	32.5	1450	82	0.95	2.2	6.5	2

Values at 220 V, 50 Hz. Operating conditions: ambient temperature -15 to +40 °C, altitude up to 1000 m above sea level.

MOUNTING AND OVERALL DIMENSIONS



Frame	Mounting dimensions															Overall dimensions					
	A	B	C	D	E	F	G	H	K	M	N	P	R	S	T	AB	AC	AE	AD	HD	L
80	125	100	50	19	40	6	15.5	80	10	165	130	200	0	12	3.5	160	165	110	120	200	310
90S	140	100	56	24	50	8	20	90	10	165	130	200	0	12	3.5	180	185	120	140	240	370
90L	140	125	56	24	50	8	20	90	10	165	130	200	0	12	3.5	180	185	120	140	240	400
100L	160	140	63	28	60	8	24	100	12	215	180	250	0	15	4.0	205	220	130	145	260	430
112M	190	140	70	28	60	8	24	112	12	215	180	250	0	15	4.0	245	250	140	160	300	455
132S	216	140	89	38	80	10	33	132	12	265	230	300	0	15	4.0	280	262	150	210	350	525
132M	216	178	89	38	80	10	33	132	12	265	230	300	0	15	4.0	280	262	150	210	350	553

Dimensions in mm. B3: foot mounted · B5: flange mounted · B35: foot and flange mounted.