

YC YY SERIES

SINGLE-PHASE ASYNCHRONOUS MOTORS

YC Series single-phase capacitor start asynchronous motors, with latest design in entirety, It's made of superior materials and meet the relative rules of IEC standard. YC motors have good performance, safe and reliable operation, nice appearance, and can be maintained very conveniently, while with low noise, little vibration, simple construction. This series motors can be used on air compressor, pumps, refrigeration, medical apparatus and instruments, and many other machines that need full-load start. YY Series single-phase capacitor-run asynchronous motors, with latest design in entirety, It's made of superior materials and meet the relative rules of IEC standard. YY motors have good performance, safe and reliable operation, nice appearance, and can be maintained very conveniently, while with low noise, little vibration, simple construction. This series motors can be used on household appliance, pumps, fan and recording meters, etc.

OPERATING CONDITIONS

- Ambient temperature: $-15^{\circ}\text{C} \leq \theta \leq 40^{\circ}\text{C}$
- Above sea level: not exceed 1000m
- Rated voltage: $\pm 5\%$
- Voltage: 220V/50Hz
- Protection Class: IP44/IP54/IP55
- Insulation Class: B/F
- Cooling method: ICO141
- Duty: continuous(S)



TECHNICAL DATA AT 220V 50Hz

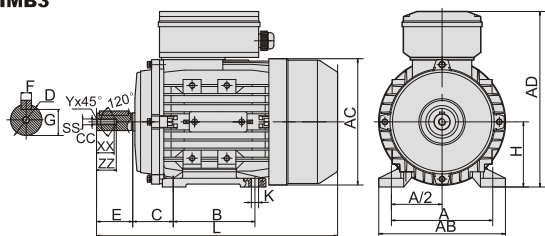
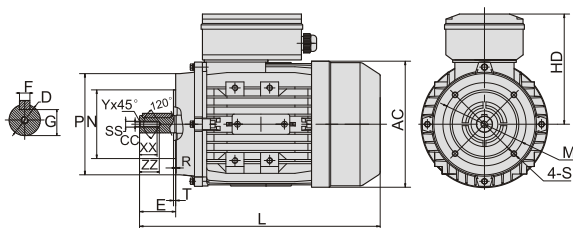
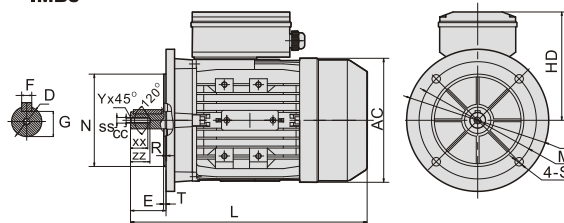
CAST IRON HOUSING

TYPE	Power KW	Current (A)	Speed (r/min)	Eff (%)	Power Factor	Rated Torque (N.M)	Tstart/Tn	Tmax/Tn	Starting current (A)	Start Capacitor (uf/v)
YC711-2	0.18	1.81	2750	60	0.72	0.63	3.0	2.2	12	75uf/250V
YC712-2	0.25	2.30	2780	64	0.74	0.86	3.0	2.2	15	75uf/250V
YC801-2	0.37	3.21	2800	65	0.77	1.26	2.8	2.2	21	100uf/250V
YC802-2	0.55	4.45	2800	68	0.79	1.88	2.8	2.2	29	150uf/250V
YC90S-2	0.75	5.82	2810	70	0.80	2.55	2.5	2.2	37	200uf/250V
YC90L-2	1.10	8.30	2820	72	0.80	3.73	2.5	2.2	60	300uf/250V
YC100L1-2	1.50	10.88	2830	74	0.81	5.06	2.5	2.0	80	400uf/300V
YC100L2-2	2.20	15.75	2840	75	0.81	7.40	2.2	2.0	120	400uf/300V
YC112M-2	3.00	20.93	2850	76	0.82	10.05	2.2	1.9	150	600uf/300V
YC711-4	0.12	1.80	1360	50	0.58	0.84	3.0	2.2	9	75uf/250V
YC712-4	0.18	2.38	1380	53	0.62	1.25	2.8	2.2	12	75uf/250V
YC801-4	0.25	2.97	1390	58	0.63	1.72	2.8	2.2	15	100uf/250V
YC802-4	0.37	4.05	1400	62	0.64	2.52	2.5	2.2	21	100uf/250V
YC90S-4	0.55	5.25	1400	66	0.69	3.75	2.5	2.0	29	100uf/250V
YC90L-4	0.75	6.57	1410	68	0.73	5.08	2.5	2.0	37	150uf/250V
YC100L1-4	1.10	9.10	1420	71	0.74	7.40	2.5	2.0	60	200uf/300V
YC100L2-4	1.50	11.91	1430	73	0.75	10.01	2.5	2.0	80	400uf/300V
YC112M-4	2.20	17.01	1440	74	0.76	14.59	2.2	1.9	120	600uf/300V

Note: 230V/50Hz, 240V/50Hz, 110V/60Hz, 115V/60Hz, 127V/60Hz, Models are available on request.

TECHNICAL DATA AT 220V 50Hz

TYPE	Power KW	Current (A)	Speed (r/min)	Eff (%)	Power Factor	Tstart/Tn	Tmax/Tn	Starting current (A)	Run Capacitor (uf/v)
YY561-2	0.09	0.79	2760	54	0.92	0.65	1.6	3	4uf/450v
YY562-2	0.12	0.98	2770	58	0.92	0.65	1.6	4	6uf/450v
YY563-2	0.18	1.42	2780	60	0.92	0.65	1.6	5	10uf/450v
YY631-2	0.18	1.33	2780	62	0.95	0.60	1.7	5	12uf/450v
YY632-2	0.25	1.76	2780	65	0.95	0.60	1.7	7	14uf/450v
YY711-2	0.37	2.53	2800	67	0.95	0.60	1.7	10	16uf/450v
YY712-2	0.55	3.49	2810	70	0.98	0.55	1.7	15	20uf/450v
YY801-2	0.75	4.62	2810	72	0.98	0.35	1.7	20	25uf/450v
YY802-2	1.1	6.51	2820	75	0.98	0.33	1.7	28	35uf/450v
YY90S-2	1.5	8.76	2820	76	0.98	0.30	1.8	40	45uf/450v
YY90L-2	2.2	12.7	2820	77	0.98	0.30	1.8	60	60uf/450v
YY100L-2	3.0	17.1	2840	78	0.98	0.28	1.8	75	80uf/450v
YY561-4	0.06	0.59	1360	48	0.92	0.75	1.6	2.5	4uf/450v
YY562-4	0.09	0.83	1370	51	0.92	0.75	1.6	3	6uf/450v
YY631-4	0.12	1.03	1380	55	0.92	0.65	1.6	3.5	10uf/450v
YY632-4	0.18	1.49	1390	57	0.92	0.65	1.5	5.5	10uf/450v
YY711-4	0.25	1.90	1400	61	0.94	0.50	1.5	8	12uf/450v
YY712-4	0.37	2.76	1400	62	0.94	0.50	1.5	10	16uf/450v
YY801-4	0.55	3.93	1400	64	0.95	0.35	1.7	15	20uf/450v
YY802-4	0.75	5.05	1410	68	0.95	0.33	1.7	20	25uf/450v
YY90S-4	1.1	6.87	1410	71	0.98	0.33	1.8	30	40uf/450v
YY90L-4	1.5	9.12	1420	73	0.98	0.30	1.8	40	45uf/450v
YY100L1-4	2.2	12.8	1440	76	0.98	0.28	1.8	60	70uf/450v
YY100L2-4	3	17.1	1440	78	0.98	0.28	1.8	75	90uf/450v

IMB3

IMB14

IMB5

OVERALL & INSTALLATION DIMENSION

Frame Size	Installation Size																				Overall Dimension					Shaft end screw dimensions					
	IMB3								IMB14						IMB5																
	A	B	C	D	E	F	G	H	K	M	N	P	R	S	T	M	N	P	R	S	T	AB	AC	AD	HD	L	SS	XX	ZZ	CC	Y
YC SERIES																															
71	112	90	45	14	30	5	11	71	7X10	85	70	105	0	M6	2.5	130	110	160	0	φ 10	3.5	135	φ145	194	123	260	M5	12	18	4.2	0.8
80	125	100	50	19	40	6	15.5	80	10X13	100	80	120	0	M6	3.0	165	130	200	0	φ 12	3.5	160	φ165	223	143	295	M6	16	22	5	1
90S	140	100	56	24	50	8	20	90	10X13	115	95	140	0	M8	3.0	165	130	200	0	φ 12	3.5	175	φ185	240	150	335	M8	20	25	6.8	1
90L	140	125	56	24	50	8	20	90	10X13	115	95	140	0	M8	3.0	165	130	200	0	φ 12	3.5	175	φ185	240	150	365	M8	20	25	6.8	1
100L	160	140	63	28	60	8	24	100	12X15	130	110	160	0	M8	3.5	215	180	250	0	φ 15	4.0	200	φ205	260	160	400	M10	22	28	8.5	1.5
112M	190	140	70	28	60	8	24	112	12X15	130	110	160	0	M8	3.5	215	180	250	0	φ 15	4.0	220	φ230	295	183	453	M10	22	28	8.5	1.5
YY SERIES																															
56	90	71	36	9	20	3	7.2	56	5.8X5.8	65	50	80	0	M5	2.5	98	80	120	0	φ 7	3.0	108	φ115	256	100	192	M3	8	12	2.5	0.5
63	100	80	40	11	23	4	8.5	63	7X10	75	60	90	0	M5	2.5	115	95	140	0	φ 10	3.0	120	φ130	179	116	230	M4	10	15	3.3	0.8
71	112	90	45	14	30	5	11	71	7X10	85	70	105	0	M6	2.5	130	110	160	0	φ 10	3.5	135	φ145	194	123	260	M5	12	18	4.2	0.8
80	125	100	50	19	40	6	15.5	80	10X13	100	80	120	0	M6	3.0	165	130	200	0	φ 12	3.5	160	φ165	223	143	295	M6	16	22	5	1
90S	140	100	56	24	50	8	20	90	10X13	115	95	140	0	M8	3.0	165	130	200	0	φ 12	3.5	175	φ185	240	150	335	M8	20	25	6.8	1
90L	140	125	56	24	50	8	20	90	10X13	115	95	140	0	M8	3.0	165	130	200	0	φ 12	3.5	175	φ185	240	150	365	M8	20	25	6.8	1
100L	160	140	63	28	60	8	24	100	12X15	130	110	160	0	M8	3.5	215	180	250	0	φ 15	4.0	196	φ205	260	160	375	M10	22	28	8.5	1.5

Single phase: YY is 230V/50Hz, 240V/50Hz, 110V/60Hz, 115V/60Hz, 127V/60Hz, Models are available on request.

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