

Double capacitor (centrifugal switch) High starting torque

ASYNCHRONOUS SINGLE-PHASE MOTORS

Squirrel-case rotor.

External cooling IC 411, continuous duty S1

Insulation class 155 (F), protection degree IP55.

Aluminium motors **ML** series.

Synchronous speed 3000 rpm - 2 poles

230 V. 50 Hz

TYPE	Power		n rpm	I (Amp) 230 V	η %	Cos φ	M _A /M _N	M _S /M _N	I _A (A)	Run capacitor (μ f/V)	Start capacitor (μ f/V)	Noise level dB(A)	m Kg		
	kW	hp													
Aluminium motors ML series	ML 63 1	-	0.18	0.25	2750	1.38	63	0.90	2.5	1.6	8	8 μ f/450V	40 μ f/250V	70	4.0
	ML 63 2	-	0.25	0.33	2760	1.89	64	0.90	2.5	1.6	10	10 μ f/450V	50 μ f/250V	70	4.5
	ML 71 1	-	0.37	0.5	2780	2.61	67	0.92	2.5	1.7	15	12 μ f/450V	75 μ f/250V	72	6.1
	ML 71 2	-	0.55	0.75	2790	3.71	70	0.92	2.5	1.7	20	14 μ f/450V	100 μ f/250V	72	6.5
	ML 80 1	-	0.75	1	2800	4.92	72	0.92	2.5	1.7	30	20 μ f/450V	100 μ f/250V	75	9.0
	ML 80 2	-	1.1	1.5	2810	6.71	75	0.95	2.5	1.7	40	30 μ f/450V	150 μ f/250V	75	10.0
	ML 90 S	-	1.5	2	2810	9.03	76	0.95	2.5	1.8	55	40 μ f/450V	200 μ f/250V	78	13.0
	ML 90 L	-	2.2	3	2810	13.68	77	0.95	2.2	1.8	75	50 μ f/450V	250 μ f/250V	78	14.5
	ML 100 L	-	3	4	2830	17.38	79	0.95	2.2	2.0	95	50 μ f/450V	400 μ f/300V	83	25.0
	ML 112 M1	-	3.7	5	2850	20.52	80	0.98	2.0	2.0	120	60 μ f/450V	600 μ f/300V	84	35.0
	ML 112 M2	-	4	5.5	2850	22.18	80	0.98	2.0	2.0	150	60 μ f/450V	600 μ f/300V	84	35.0

Synchronous speed 1500 rpm - 4 poles

230 V. 50 Hz

TYPE	Power		n rpm	I (Amp) 230 V	η %	Cos φ	M _A /M _N	M _S /M _N	I _A (A)	Run capacitor (μ f/V)	Start capacitor (μ f/V)	Noise level dB(A)	m Kg		
	kW	hp													
Aluminium motors ML series	ML 63 1	-	0.12	0.17	1350	1.04	55	0.91	2.5	1.6	6.0	8 μ f/450V	35 μ f/250V	65	6.1
	ML 63 2	-	0.18	0.25	1360	1.54	56	0.91	2.5	1.6	8.5	10 μ f/450V	35 μ f/250V	65	6.5
	ML 71 1	-	0.25	0.33	1380	1.91	62	0.92	2.5	1.6	10.0	12 μ f/450V	75 μ f/250V	67	9.5
	ML 71 2	-	0.37	0.5	1380	2.69	65	0.92	2.5	1.5	15.0	16 μ f/450V	75 μ f/250V	67	10.5
	ML 80 1	-	0.55	0.75	1400	3.82	68	0.92	2.5	1.7	20.0	20 μ f/450V	100 μ f/250V	70	9.2
	ML 80 2	-	0.75	1	1410	4.99	71	0.92	2.5	1.7	30.0	25 μ f/450V	150 μ f/250V	70	9.0
	ML 90 S	-	1.1	1.5	1410	6.90	73	0.95	2.2	1.8	40.0	35 μ f/450V	200 μ f/250V	73	13.5
	ML 90 L	-	1.5	2	1420	9.15	75	0.95	2.2	1.8	55.0	40 μ f/450V	250 μ f/250V	73	14.5
	ML 100 L1	-	2.2	3	1430	13.25	76	0.93	2.2	1.8	75.0	50 μ f/450V	400 μ f/250V	78	24.0
	ML 100 L2	-	3	4	1440	17.83	77	0.95	2.2	1.8	95.0	60 μ f/450V	500 μ f/250V	78	28.5
	ML 112 M1	-	3.7	5	1440	20.72	80	0.97	2.2	1.8	120.0	70 μ f/450V	600 μ f/300V	78	28.5
	ML 112 M2	-	4	5.5	1440	22.41	80	0.97	2.2	1.7	150.0	70 μ f/450V	600 μ f/300V	78	28.5

* Electrical data change depending on the series. For further information, please contact to Cosgra. MLE data.

(*) **Single-phase motor (centrifugal switch) – high starting torque.** In addition to the run capacitor, connected in series, there is a second capacitor which increases the torque during the starting period and is disconnected from the start circuit when the rotation is stable (with the run capacitor). This kind of motor is suitable for applications where torque at starting moment is strong.