

3-PHASE ASYNCHRONOUS MOTOR



INTRODUCE

MONTROLI® MA Series three-phase asynchronous motors with aluminium housing, adopts the advance design and high quality material. This range of motors are made to IEC34-1 Standards. The motor efficiency meets EFF2 and EFF1 on request. The power range of aluminium motor is from 0.06kw up to 18.5kw in 12 frame sizes from 56 up to 160 to satisfy variable applications.

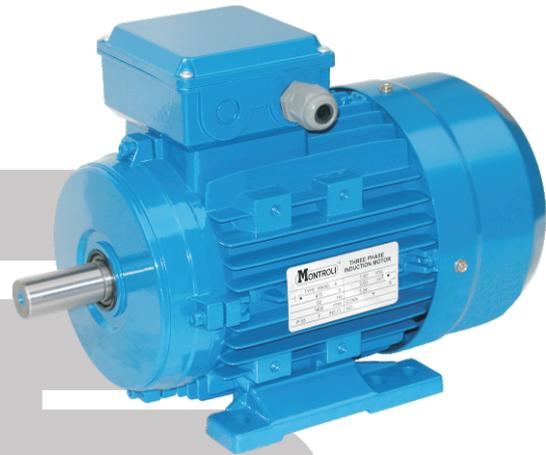
MOTOR FEATURES

- * Aluminium housing
- * Corrosive-resistant & vermin resistant
- * Weather-proof, hose-proof & dust-proof
- * Low power consumption
- * Minimize vibration
- * Quiet operation
- * High efficiency
- * High power factors
- * High torque with smooth acceleration & low current
- * Reliable performance
- * Compact size & light weight
- * Good appearance
- * Superior life
- * Ease of maintenance

OPERATING CONDITIONS

- * Ambient temperature : $-15^{\circ}\text{C} < \theta < 40^{\circ}\text{C}$.
- * Standard voltage supply: 3 Phase, 415V/50Hz (380V~440V and 60Hz are available on request).
- * Protection class : MontrolitTM motors come with standard IP55 protection class. (Other degree of protection are available on request.)
- * Insulation class : MontrolitTM motors meet Class F insulation (temperature limit 145°C), the motors are designed to operate within Class B limits (120°C) to ensure long life and reliability. (Motors with Class H (125°C) insulation are available on request.)
- * Cooling method : TEFV (Totally-Enclosed Fan Ventilated) in accordance with code IC 0141 of IEC and BS4999 Standards.
- * Duty : BS4999 S1 continuously running duty with a temperature rise not exceeding 80°C .
- * Connection : Star-connection for up to 3KW, delta-connection for 4KW and above.
- * Shaft : Closed keyway.
- * Bearing : SKF, NSK or NTN bearings.

**MA Series
(Aluminium Housing)**



3-PHASE ASYNCHRONOUS MOTOR



Model	Output Power		100% Full Load				75% Load		50% Load		Tstart / Tn	Ist / In	Tmax / Tn	Weight (kg)
			Current (A)	Speed (r.p.m.)	Eff. (%)	Power Factor	Eff. (%)	Power Factor	Eff. (%)	Power Factor				
	(KW)	(HP)												
415V/50Hz Speed 3000 r/min (2 Poles)														
MA561-2	0.09	0.12	0.30	2700	58.0	0.78	56.2	0.77	54.0	0.74	2.2	5.5	2.2	4.6
MA562-2	0.12	0.16	0.38	2700	60.0	0.79	58.5	0.78	56.0	0.75	2.2	5.5	2.2	4.8
MA631-2	0.18	0.25	0.53	2720	63.0	0.80	62.0	0.80	60.5	0.76	2.2	5.5	2.2	4.8
MA632-2	0.25	0.34	0.69	2720	65.0	0.81	64.0	0.80	62.5	0.77	2.2	5.5	2.2	5.1
MA711-2	0.37	0.50	0.99	2740	66.0	0.81	65.0	0.80	63.5	0.78	2.2	6.1	2.2	6
MA712-2	0.55	0.75	1.40	2740	71.0	0.82	70.0	0.82	68.5	0.79	2.2	6.1	2.3	6.5
MA801-2	0.75	1	1.83	2830	73.0	0.83	72.0	0.83	70.5	0.80	2.2	6.1	2.3	8.7
MA802-2	1.1	1.5	2.58	2830	76.2	0.84	75.1	0.83	73.0	0.80	2.2	7.0	2.3	9.5
MA90S-2	1.5	2	3.43	2840	78.5	0.84	77.0	0.85	70.0	0.81	2.2	7.0	2.3	11.8
MA90L-2	2.2	3	4.85	2840	81.0	0.85	80.0	0.85	78.0	0.84	2.2	7.0	2.3	13.5
MA100L-2	3.0	4	6.31	2870	82.6	0.87	81.0	0.86	79.3	0.86	2.2	7.5	2.3	21
MA112M-2	4.0	5.5	8.10	2890	84.2	0.88	83.5	0.87	81.0	0.84	2.2	7.5	2.3	28
MA132S1-2	5.5	7.5	11.0	2900	85.7	0.88	84.3	0.89	83.0	0.84	2.2	7.5	2.3	39
MA132S2-2	7.5	10	14.9	2900	87.0	0.88	85.9	0.87	83.7	0.84	2.2	7.5	2.3	44.5
MA160M1-2	11	15	21.3	2930	88.4	0.89	86.8	0.89	84.1	0.84	2.2	7.5	2.3	69.2
MA160M2-2	15	20	28.8	2930	89.4	0.89	88.0	0.89	86.4	0.85	2.2	7.5	2.3	78
MA160L-2	18.5	25	34.7	2930	90.0	0.90	89.0	0.88	86.8	0.86	2.2	7.5	2.3	88.5
415V/50Hz Speed 1500 r/min (4 Poles)														
MA561-4	0.06	0.08	0.26	1300	53.0	0.70	51.8	0.65	50.0	0.53	2.1	5.2	2.2	4.6
MA562-4	0.09	0.12	0.35	1300	55.0	0.71	53.8	0.67	52.0	0.55	2.1	5.2	2.2	4.8
MA631-4	0.12	0.16	0.42	1310	57.0	0.72	56.1	0.69	53.9	0.57	2.1	5.2	2.2	4.8
MA632-4	0.18	0.25	0.62	1310	60.0	0.73	58.5	0.70	56.7	0.59	2.1	5.2	2.2	5.1
MA711-4	0.25	0.34	0.79	1330	65.0	0.74	62.4	0.73	59.3	0.59	2.1	5.2	2.2	6
MA712-4	0.37	0.50	1.12	1330	67.0	0.75	65.3	0.74	60.8	0.63	2.1	5.2	2.2	6.3
MA801-4	0.55	0.75	1.57	1390	71.0	0.75	69.2	0.74	67.2	0.64	2.4	5.2	2.3	9.4
MA802-4	0.75	1.0	2.03	1390	73.0	0.76	71.7	0.75	69.8	0.67	2.3	6.0	2.3	10.8
MA90S-4	1.1	1.5	2.89	1400	76.2	0.77	73.1	0.75	70.8	0.67	2.3	6.0	2.3	12
MA90L-4	1.5	2	3.70	1400	78.5	0.79	76.1	0.76	73.7	0.69	2.3	6.0	2.3	13.8
MA100L1-4	2.2	3	5.16	1430	81.0	0.81	78.0	0.79	75.5	0.69	2.3	7.0	2.3	20.8
MA100L2-4	3.0	4	6.78	1430	82.6	0.82	79.9	0.78	77.5	0.70	2.3	7.0	2.3	23.5
MA112M-4	4.0	5.5	8.80	1440	84.2	0.82	81.9	0.79	79.6	0.70	2.3	7.0	2.3	29.5
MA132S-4	5.5	7.5	11.7	1440	85.7	0.83	82.8	0.81	80.4	0.73	2.3	7.0	2.3	41
MA132M-4	7.5	10	15.6	1440	87.0	0.84	84.8	0.82	82.6	0.74	2.3	7.0	2.3	47.5
MA160M-4	11	15	22.3	1460	88.4	0.84	85.8	0.83	83.8	0.75	2.2	7.0	2.3	72.5
MA160L-4	15	20	30.1	1460	89.4	0.85	90.0	0.83	88.5	0.75	2.2	7.5	2.3	85.6
415V/50Hz Speed 1000 r/min (6 Poles)														
MA631-6	0.09	0.12	0.47	840	44.0	0.60	43.0	0.53	39.0	0.44	1.8	3.5	1.9	4.8
MA632-6	0.12	0.18	0.57	840	48.0	0.60	47.0	0.53	42.0	0.44	1.8	3.5	1.9	5.1
MA711-6	0.18	0.25	0.74	850	56.0	0.66	54.6	0.66	53.0	0.65	1.9	4.0	2.0	6
MA712-6	0.25	0.34	0.95	850	59.0	0.68	57.5	0.68	56.1	0.62	1.9	4.0	2.0	6.3
MA801-6	0.37	0.50	1.30	890	62.0	0.70	60.5	0.69	59.1	0.64	1.9	4.7	2.0	8.9
MA802-6	0.55	0.75	1.79	890	65.0	0.72	63.3	0.71	60.1	0.64	1.9	4.7	2.1	10.4
MA90S-6	0.75	1	2.29	910	69.0	0.72	67.3	0.72	66.3	0.65	2.0	5.5	2.1	12.1
MA90L-6	1.1	1.5	3.18	910	72.0	0.73	70.2	0.72	68.0	0.66	2.0	5.5	2.1	13.7
MA100L-6	1.5	2	3.94	940	76.0	0.75	74.0	0.75	71.0	0.68	2.0	5.5	2.1	23
MA112M-6	2.2	3	5.60	940	79.0	0.76	77.1	0.77	75.1	0.69	2.0	6.5	2.1	28.2
MA132S-6	3.0	4	7.40	960	81.0	0.76	78.9	0.77	76.1	0.69	2.1	6.5	2.1	40.3
MA132M1-6	4.0	5.5	9.80	960	82.0	0.76	80.0	0.76	77.5	0.70	2.1	6.5	2.1	43
MA132M2-6	5.5	7.5	12.9	960	84.0	0.77	82.1	0.77	79.4	0.70	2.1	6.5	2.1	47.2
MA160M-6	7.5	10	17.0	970	86.0	0.77	83.4	0.77	82.4	0.70	2.0	6.5	2.1	70.6
MA160L-6	11	15	24.2	970	87.5	0.78	86.6	0.78	84.8	0.72	2.0	6.5	2.1	85
415V/50Hz Speed 750 r/min (8 Poles)														
MA711-8	0.09	0.12	0.55	600	40.0	0.57	39.0	0.49	37.0	0.40	1.8	2.8	1.9	6
MA712-8	0.12	0.18	0.65	600	45.0	0.57	44.0	0.49	42.0	0.40	1.8	2.8	1.9	6.3
MA801-8	0.18	0.25	0.88	630	51.0	0.61	47.9	0.52	44.6	0.54	1.8	4.0	1.9	8.9
MA802-8	0.25	0.34	1.15	640	54.0	0.61	48.9	0.54	45.3	0.55	1.8	4.0	1.9	10.4
MA90S-8	0.37	0.50	1.49	660	62.0	0.61	55.6	0.57	50.7	0.56	1.8	4.0	1.9	12.1
MA90L-8	0.55	0.75	2.18	660	63.0	0.61	55.9	0.58	50.9	0.59	1.8	4.0	2.0	13.7
MA100L1-8	0.75	1	2.17	690	71.0	0.67	60.9	0.65	59.7	0.56	1.8	4.0	2.0	23
MA100L2-8	1.1	1.5	2.39	690	73.0	0.69	72.0	0.61	59.8	0.57	1.8	5.0	2.0	25.1
MA112M-8	1.5	2	4.50	680	75.0	0.69	74.2	0.64	59.8	0.58	1.8	5.0	2.0	28.2
MA132S-8	2.2	3	6.00	710	78.0	0.71	77.2	0.61	60.1	0.58	1.8	6.0	2.0	40.3
MA132M-8	3.0	4	7.90	710	79.0	0.73	78.2	0.62	60.0	0.59	1.8	6.0	2.0	45
MA160M1-8	4.0	5.5	10.3	720	81.0	0.73	80.2	0.63	61.0	0.58	1.9	6.0	2.0	68.5
MA160M2-8	5.5	7.5	13.6	720	83.0	0.74	81.2	0.61	62.0	0.59	2.0	6.0	2.0	76
MA160L-8	7.5	10	17.8	720	85.5	0.75	84.5	0.63	65.9	0.59	2.0	6.0	2.0	86.2