

# 3-PHASE BRAKE MOTOR



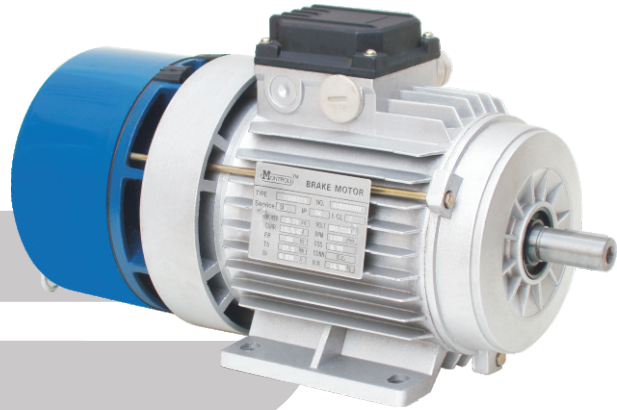
## **INTRODUCE**

MONTROLI® BMA Series three-phase brake motors are made to IEC and GB Standards, also up to the international latest design technology. The power range of brake motor is from 0.25kw up to 3kw in 4 frame sizes from 71 up to 100L to satisfy variable applications.

## **MOTOR FEATURES**

- \* Aluminium alloy whole casting with heat sink design for better cooling effect.
- \* Corrosive-resistant & vermin resistant.
- \* Weather-proof, water-proof & dust-proof.
- \* Precise dynamic balance adjustment and adopts high quality bearings to ensure smooth and silent operation.
- \* The brake is made of wearable material without asbestor. It can provide the dry friction break torque.
- \* DC transformer is not required. The AC connection is more safe and reliable.
- \* Powerful brake effect, high break efficiency and frequency.
- \* When a preset sealing device of the output shaft is connected with the variator or reducer, the sealing performance is more safe and reliable.
- \* Assembled with manual release handle easy for installing or adjusting.
- \* The brake plate and rotary shaft are connected with the steel key tooth, it can bear the strong impact during the brake process.
- \* There is a superior interchangeability between the IEC Standard and IM mounted forms.
- \* Low power consumption.
- \* Compact size & light weight.
- \* Good appearance.
- \* Superior life.

## **BMA Series**



## **OPERATING CONDITIONS**

- \* Standard voltage supply: 3 Phase, 415V/50Hz (380V~440V and 60Hz are available on request).
- \* Protection class : IP54, IP55.
- \* Insulation class : Montrolit<sup>TM</sup> motors meet Class F insulation (temperature limit 145°C). (Other degree of protection class and insulation class are available on request.)
- \* Cooling method: TEFV (Totally-Enclosed Fan Ventilated). (Cooling standard: GB/T1993-93; IEC34-6.)

## **MAIN MATERIALS**

- \* Motor cover: Aluminium alloy; Brake cover: Cast iron.
- \* Shaft: 40Cr steel with heat refined.
- \* Electro-magnetic wire: POLY-QZ-2; POLYMIDE-QY-2.
- \* Silicon steel plate: DR490-510.
- \* Ball bearing: NSK, NTN or SKF bearings.

## **PAINTS**

- \* Shot-blasting and antiseptic treatment on aluminium alloy surface.
- \* Blue acrylic acid baking paint on steel parts surface.

# 3-PHASE BRAKE MOTOR



Model	Output Power		Current (A)	Power Factor (COS $\phi$ )	$M_{st}/M_N$	$M_{max}/M_N$	$J \times 10^{-4}$ (Kg.m <sup>2</sup> )	A.C.T. max (N.m.)	D.C.T. max (N.m.)	$Z_0$
	(KW)	(HP)								
415V/50Hz Speed 2800r.p.m. (2 Poles)										
BMA711-2	0.37	0.50	0.96	0.80	2.3	2.3	5.37	13.5	8.5	5700
BMA712-2	0.55	0.75	1.35	0.82	2.3	2.3	6.05	13.5	8.5	5700
BMA801-2	0.75	1	1.75	0.85	2.2	2.3	12.80	17.5	14	5700
BMA802-2	1.1	1.5	2.55	0.85	2.2	2.3	14.20	17.5	14	5700
BMA90S-2	1.5	2	3.44	0.85	2.2	2.3	20.90	37	29	4280
BMA90L-2	2.2	3	4.83	0.86	2.2	2.3	24.15	37	29	4280
BMA100L-2	3.0	4	6.39	0.87	2.2	2.3	43.88	50	41	2650
415V/50Hz Speed 1400r.p.m. (4 Poles)										
BMA711-4	0.25	0.34	0.83	0.68	2.4	2.4	7.95	13.5	8.5	19000
BMA712-4	0.37	0.50	1.12	0.72	2.4	2.4	8.95	13.5	8.5	18050
BMA801-4	0.55	0.75	1.56	0.73	2.4	2.4	16.48	17.5	14	9500
BMA802-4	0.75	1.0	2.01	0.75	2.3	2.4	18.91	17.5	14	9500
BMA90S-4	1.1	1.5	2.75	0.78	2.3	2.3	28.77	37	29	14250
BMA90L-4	1.5	2	3.65	0.79	2.3	2.3	33.59	37	29	11400
BMA100L1-4	2.2	3	5.03	0.82	2.2	2.3	56.33	50	41	7600
BMA100L2-4	3.0	4	6.82	0.81	2.2	2.3	66.18	50	41	6650
415V/50Hz Speed 930r.p.m. (6 Poles)										
BMA711-6	0.18	0.25	0.74	0.63	2.0	2.0	11.09	13.5	8.5	26000
BMA712-6	0.25	0.34	0.94	0.64	2.0	2.0	12.75	13.5	8.5	26000
BMA801-6	0.37	0.50	1.29	0.64	2.0	2.0	25.84	17.5	14	17000
BMA802-6	0.55	0.75	1.81	0.65	2.0	2.0	29.95	17.5	14	17000
BMA90S-6	0.75	1	2.19	0.70	2.0	2.2	39.88	37	29	17000
BMA90L-6	1.1	1.5	2.98	0.72	2.0	2.2	50.88	37	29	14000
BMA100L-6	1.5	2	3.90	0.74	2.0	2.2	96.33	50	41	10000