

Large AC - GPM Induction Motors

Stock Features:

- Suitable for use on a VFD 2:1 CT, 10:1 VT*
- Drive end slinger
- Insulated opposite drive end bearing
- High efficiency
- Cast iron frame, end shields and inner caps
- 100 ohm platinum winding RTD's
- Provisions for bearing RTD's
- Space heaters
- Ground lug in the conduit box
- CSA approved
- "L" and "T" shafts are ball bearing and convertible to roller bearing
- "S" and "TS" shafts are ball bearing for coupled loads
- Belted duty "LR" shafts are roller bearing and convertible to ball bearing
- Paint - Specially formulated modified epoxy coating with UV protection



Our Job is to make yours easier...

Selecting and purchasing a Large AC motor doesn't have to be difficult, and now it's not! Baldor's GPM product family of Large AC induction motors have many popular ratings in stock and an extensive array of non-stock ratings ready for order on short lead time. Buying a Large AC motor has never been easier. Performance data, drawings, etc., are readily available to ensure the right motor is selected for your application. Common feature modifications are available on the entire product family to suit a wide variety of industrial needs.

Easy to Select, Easy to Buy, Easy to Install/Own

All ratings pre-engineered
Performance data, drawings, etc., readily available
Optional feature sets available
Local Baldor District Office sales support when requested
Available in-stock or short lead times
Strategic warehousing utilizing multiple stocking locations
Motor commissioning/installation available through ABB Service Group
User-friendly installation & operation manuals



Stock ratings available off the shelf!

Suitable for use on variable frequency drives*

Use of a VFD can greatly increase system efficiency in many centrifugal load applications. Indicators are that VFD use will increase in the coming years.
All GPM motors are suitable for use on a VFD, including ABB's vast line of inverter drives.

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GPM Non-Stock Ratings

In addition to many popular ratings in stock, motors are available in pre-engineered designs ranging from 250 - 1500 HP, 2-8 pole, 460, 575, or 2300/4000 Volt, Three Phase, 60 Hz, Totally Enclosed Fan Cooled. An LG multiplier will be used on all non-stock ratings.

Non-Stock TEFC - 460V Designs

Poles 60Hz RPM	2		4		6		8	
	3600		1800		1200		900	
	Catalog #	List Price	Catalog #	List Price	Catalog #	List Price	Catalog #	List Price
250	M50252S-4	\$23,727	M50254S-4	\$23,543	M50256S-4	\$27,137	EM50258S-4	\$38,200
300	M50302S-4	28,765	M50304S-4	26,333	M50306S-4	30,779	M50308S-4	43,129
350	M50352S-4	31,281	M50354S-4	31,460	M50356S-4	35,123	M50358S-4	49,699
400			M50404S-4	34,010	M50406S-4	38,422	M50408S-4	56,894
450			M50454S-4	36,943	M50456S-4	44,201	M50458S-4	60,346
500			M50504S-4	42,579	M50506S-4	50,430	M58508S-4	74,159
600			M50604S-4	51,239	M50606S-4	58,594	M58608S-4	78,837
700			M50704S-4	59,159	M58706S-4	65,188	M450708S-4	105,121
800			M50804S-4	63,818	M58806S-4	73,046	M450808S-4	105,121
900			M50904S-4	69,190	M450906S-4	92,733	M500908S-4	121,922
1000			M4501004S-4	100,178	M5001006S-4	105,979	M5001008S-4	121,922
1250			M5001254S-4	120,836	M5001256S-4	115,034		
1500			M5001504S-4	133,358				

Non-Stock TEFC - 575V Designs

Poles 60Hz RPM	2		4		6		8	
	3600		1800		1200		900	
	Catalog #	List Price	Catalog #	List Price	Catalog #	List Price	Catalog #	List Price
250	M50252S-5	\$23,727	M50254S-5	\$23,543	M50256S-5	\$27,137	EM50258S-5	\$38,200
300	M50302S-5	28,765	M50304S-5	26,333	M50306S-5	30,779	M50308S-5	43,129
350	M50352S-5	31,281	M50354S-5	31,460	M50356S-5	35,123	M50358S-5	49,699
400	M50402S-5	34,292	M50404S-5	34,010	M50406S-5	38,422	M50408S-5	56,894
450	M50452S-5	40,488	M50454S-5	36,943	M50456S-5	44,201	M50458S-5	60,346
500	EM50502S-5	44,180	M50504S-5	42,579	M50506S-5	50,430	M58508S-5	74,159
600	M50602S-5	48,294	M50604S-5	51,239	M50606S-5	58,594	M58608S-5	78,837
700	M58702S-5	51,116	M50704S-5	59,159	M58706S-5	65,188	M450708S-5	105,122
800	M58802S-5	69,833	M50804S-5	63,818	M58806S-5	73,046	M450808S-5	105,122
900			M50904S-5	69,190	M450906S-5	92,734	M500908S-5	121,923
1000			M4501004S-5	102,965	M5001006S-5	105,923	M5001008S-5	121,923
1250			M5001254S-5	120,835	M5001256S-5	115,033		
1500			M5001504S-5	124,863				

Non-Stock TEFC - 2.3/4kV Designs

Poles 60Hz RPM	4		6		8	
	1800		1200		900	
	Catalog #	List Price	Catalog #	List Price	Catalog #	List Price
250	EM44254S-2340	\$36,300	M50256S-2340	\$41,964	EM50258S-2340	\$48,317
300	EM44304S-2340	36,979	M50306S-2340	43,298	EM50308S-2340	54,916
350	EM50354S-2340	44,000	M50356S-2340	49,383	EM50358S-2340	63,165
400	EM50404S-2340	47,745	EM50406S-2340	54,064	EM50408S-2340	72,357
450	EM50454S-2340	51,957	EM50456S-2340	62,021	EM58458S-2340	78,956
500	EM50504S-2340	59,681	EM50506S-2340	70,915	EM58508S-2340	88,384
600	EM50604S-2340	70,213	EM58606S-2340	78,404	EM58608S-2340	100,169
700	EM50704S-2340	77,234	EM58706S-2340	89,562	EM450708S-2340	113,182
800	EM50804S-2340	89,872	EM450806S-2340	102,853	EM450808S-2340	122,452
900	EM58904S-2340	94,553	EM450906S-2340	112,006	EM500908S-2340	141,652
1000	EM581004S-2340	108,596	EM4501006S-2340	115,432	EM5001008S-2340	141,652
1250	EM5001254S-2340	138,765	EM5001256S-2340	126,546	EM5001258S-2340	144,599
1500	EM5001504S-2340	144,882	EM5001506S-2340	139,139	EM5001508S-2340	150,998

GPM Non-Stock Features and Options

In addition to many popular ratings in stock, motors are also available in pre-engineered designs ranging from 250 - 1500 Hp, 2-8 pole, 460, 575, or 2300/4000 Volt, Three Phase, 60 Hz, Totally Enclosed Fan Cooled. See page 3 for non-stock capabilities and ratings.

Standard Features:

- F1 Mounting
- IP54 Ingress Protection
- Class F insulation / Class B temperature rise
- Cast iron construction
- NEMA 4 main terminal box with ground lug
- Auxiliary terminal box with terminal strip
- Winding RTD's - 2 Per phase, 100 ohm, platinum 3 wire
- Provisions for bearing RTD's
- Grease lubricated ball bearings
- Insulated opposite drive end bearing
- Space Heaters 100-125V/200-240V to operate at 120/240V
- CSA approved
- Suitable for use on inverter 10:1 VT* (consult factory for constant torque speed range of GPM custom product)
- 1.15SF on Sine Wave and 1.0SF on VFD*
- Aluminum die-cast rotor construction or copper/copper alloy rotor construction
- Foot mounted with dowel holes and provisions for vertical jackscrews
- Dual drilled foot mounting
- Paint - Specially formulated modified epoxy coating with UV protection

GPM Non-Stock Optional Features

Feature	Description	Frame	List Price
Mounting	F2 swingarm mount	449T - 5810	\$ -
		450 - 500	-
Bearing RTD's	Platinum, 100Ω @ 0°C, single element, 1 per bearing	449T - 5810	953
		450 - 500	1,074
Balance	Precision balance (0.10 in/sec)	449T - 5810	236
		450 - 500	3,200
Voltage Surge Protection Package	Lightning Arrestors, Bus Bars, Surge Capacitors, Oversized Conduit Box	449T	12,582
		5008-5810	16,014
		450 - 500	17,110
IP55 Package	IP55(motor), SS Hardware, Internal Epoxy Coating, SS Breather/Drain	449T	1,327
		5008-5810	1,959
		450 - 500	3,381
Belted Duty Package	Drive-End Cylindrical Roller Bearing and 4140 Shaft Steel(Baldor)/42CrMo4 Shaft Steel (ABB)	449T	2,097
		5008-5810	1,742
		450 - 500	5,437
VFD Application Package	Insocoat Bearings & Shaft Ground Brush	449T	3,431
		5008-5810	2,365
	Insulated Brackets & Shaft Ground Brush	450 - 500	5,140
Encoder	Dynapar HS-35 (1024 ppm) and stub shaft	449T - 5810	1,411
	Leine & Linde 1024 ppm	450 - 500	3,198
Suitable for Vibration Detection	Provisions for vibration detection, which includes pipe extension and aluminum block each end -	449T - 5810	2,365
	Includes M8 x 1 Tap each end for H,V,A positions	450 - 500	2,558

** Belted duty dimension drawings differ from base model designs in 449, 5000, & 5800 series frame sizes. For drawings please contact your local Baldor sales representative.



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