

**Low Voltage,
Three Phase,
460 Volts, TEFC,
Foot Mounted**

400 thru 800 Hp

G5010 thru G5810

Applications: Pumps, compressors, fans, blowers, conveyors and other general purpose applications. Suitable for tropical climates and industrial process applications requiring protection against corrosion caused by severe environmental operating conditions. Suitable for use with VFD for variable torque applications.



Features: High efficiency (95% or higher), cast iron frame, end shields and inner caps, carbon steel fan cover and air deflector, ground lug in the conduit box, epoxy enamel paint, stainless steel breather and drain, Inpro seals, epoxy coating on the rotor OD, stator ID and windings. Stock motors include a three year warranty, precision balance, 100 ohm platinum winding RTD's and space heaters. Division 2, Groups C & D, T2 Hazardous location, XTS enclosure enhancement, oversized main conduit box, 3.5 pu Surge withstand, insulated bearings, shaft grounding device and provisions for bearing RTD's. The "S" shafts are for coupled loads and are not convertible to roller bearings. The "L" shafts are ball bearing and convertible to roller bearing. All shafts are Class II material.

Hp	RPM	NEMA Frame	Catalog Number	List Price	Mult. Sym.	"C" Dim.	Aprx. Wt. (lb)	Full Load Efficiency	Voltage	Full Load Amps	Notes (a)
400	3600	G5010	ECP50402S-4	86,311	LM	67.14	4850	95.8	460	439	1, 48
500	3600	G5010	ECP50502S-4	90,151	LM	67.14	4850	95.8	460	545	1, 48
	1800	G5010	ECP50504L-4	86,202	LM	71.14	5550	96.2	460	573	1, 48
600	3600	G5810	ECP50602S-4	122,631	LM	86.07	10000	95.4	460	645	1, 48
700	3600	G5810	ECP58702S-4	129,991	LM	86.07	10000	95.9	460	754	1, 48
800	3600	G5810	ECP58802S-4	137,262	LM	86.07	10000	96	460	863	1, 48

(a) See notes on inside back flap.

All ratings are 1.00 service factor, Class B rise and 1.15 service factor, Class F rise at 40°C ambient. All ratings meet IP54 Ingress protection marine duty (below deck).

Custom TEFC motors available through 2,250 Hp; Open and WPII custom motors through 15,000 Hp. Contact your Baldor•Reliance Sales Representative.

■ Cast Iron Frame

General Information

Single Phase Motors

General Purpose Industrial Motors

Severe Duty Motors

Large AC Motors

Washdown Duty Motors

Explosion Proof Motors

Pump Motors

Light Industrial/Commercial Motors

HVAC Motors

BALDOR • RELIANCE

**Medium Voltage,
Three Phase,
2300/4000 Volts,
TEFC, Foot Mounted**

200 thru 800 Hp

G449 thru G5012

Applications: Pumps, compressors, fans, blowers, conveyors and other general purpose applications. Suitable for tropical climates and industrial process applications requiring protection against corrosion caused by severe environmental operating conditions.

Features: High efficiency (95% or higher), cast iron frame, end shields and inner caps, carbon steel fan cover and air deflector, ground lug in the conduit box, epoxy enamel paint, stainless steel breather and drain, DE shaft slinger, epoxy coating on the rotor OD, stator ID and windings. Stock motors include a three year warranty, precision balance, 100 ohm platinum winding RTD's and space heaters. The "S" shafts are for coupled loads and are not convertible to roller bearings. The "L" shafts are ball bearing and convertible to roller bearing. Belted duty "LR" shafts are roller bearing and convertible to ball bearing. All "L" and "LR" shafts are Class II material.



Hp	RPM	NEMA Frame	Catalog Number	List Price	Mult. Sym.	"C" Dim.	Aprx. Wt. (lb)	Full Load Efficiency	Voltage	Full Load Amps	Notes (a)
200	3600	G449TS	ECP44202T-2340	52,273	LM	49.49	3000	94.1	2300/4000	26.1	1
	1800	G449T	ECP44204T-2340	50,912	LM	53.24	3500	94.1	2300/4000	26.1	1
250	3600	G5008	ECP50252S-2340	82,245	LM	60.14	4775	95	2300/4000	32	1
	1800	G5008	ECP50254L-2340	80,673	LM	64.14	3995	94	2300/4000	33.5	1
	1200	G5008	ECP50256LR-2340	89,538	LM	71.14	5088	95	2300/4000	33.5	1, 5
300	1800	G5008	ECP50304L-2340	82,644	LM	64.14	4422	95	2300/4000	40.1	1
	1200	G5010	ECP50306LR-2340	92,251	LM	71.14	5205	95	2300/4000	40.1	1, 5
350	1800	G5008	ECP50354L-2340	84,625	LM	64.14	5998	95.1	2300/4000	47.1	1
	1200	G5010	ECP50356LR-2340	98,988	LM	79.14	5843	95	2300/4000	46.5	1, 5
400	3600	G5010	ECP50402S-2340	89,326	LM	67.14	4883	95.1	2300/4000	50.7	1
	1800	G5008	ECP50404L-2340	86,648	LM	64.14	4200	95.3	2300/4000	53.6	1
		G5008	ECP50404S-2340	84,033	LM	60.14	5998	95.3	2300/4000	53.6	1
	1200	G5012	ECP50406LR-2340	102,327	LM	79.14	5331	95.2	2300/4000	53	1, 5
450	1800	G5010	ECP50454L-2340	88,593	LM	71.14	4892	95.5	2300/4000	59	1
500	1800	G5010	ECP50504L-2340	92,013	LM	71.14	5039	95.7	2300/4000	65	1
	1200	G5012	ECP50506LR-2340	114,196	LM	79.14	6000	95.2	2300/4000	66	1, 5
600	3600	G5010	ECP50602S-2340	96,889	LM	67.14	4921	95.2	2300/4000	76	1
	1800	G5012	ECP50604L-2340	97,126	LM	79.14	5540	95.4	2300/4000	80	1
700	1800	G5012	ECP50704L-2340	98,451	LM	79.14	6035	95.6	2300/4000	93	1
800	1800	G5012	ECP50804S-2340	97,984	LM	79.14	7000	95.9	2300/4000	105	1

(a) See notes on inside back flap.

All ratings are 1.00 service factor, Class B rise and 1.15 service factor, Class F rise at 40°C ambient. All ratings meet 50°C ambient at 1.00 service factor and IP54 Ingress protection marine duty (below deck).

Custom TEFC motors available through 2,250 Hp; Open and WPII custom motors through 15,000 Hp. Contact your Baldor•Reliance Sales Representative.

■ Cast Iron Frame

General Information
Single Phase Motors
General Purpose Industrial Motors
Severe Duty Motors
Large AC Motors
Washdown Duty Motors
Explosion Proof Motors
Pump Motors
Light Industrial/Commercial Motors
HVAC Motors

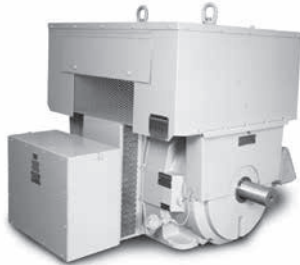
**Medium Voltage,
Three Phase,
2300/4000 Volts,
WPI & WP11,
Foot Mounted**

1,250 Hp

O5810 Frame

Applications: Pumps, compressors, fans, blowers, conveyors and other general purpose applications.

Features: High efficiency (95% or higher), Epoxy ester enamel paint, stainless steel breather drains, ground lug in conduit box, cast iron frame, end shields, DE shaft slinger and shaft cap, ODE shaft cap, epoxy coated rotor OD and stator ID (including windings), lead separator gasket between frame and conduit box. Stock motors include a three year warranty, precision balance, 100 ohm platinum winding RTD's and space heaters.



Hp	RPM	NEMA Frame	Enclosure	Catalog Number	List Price	Mult. Sym.	"C" Dim.	Aprx. Wt. (lb)	Full Load Efficiency	Voltage	Full Load Amps	Notes (a)
1,250	3600	O5810	WP11	EM251252S-2340	138,553	LM	66.50	7700	95.7	2300/4000	160	1, 88
	1800	O5810	WP11	EM251254S-2340	136,606	LM	63.99	6883	95.4	2300/4000	164	1

(a) See notes on inside back flap.

1250 Hp motors are also rated at 1500 Hp at 1.0 service factor.

■ Cast Iron Frame

General Information

Single Phase Motors

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Pump Motors

Light Industrial/Commercial Motors

HVAC Motors

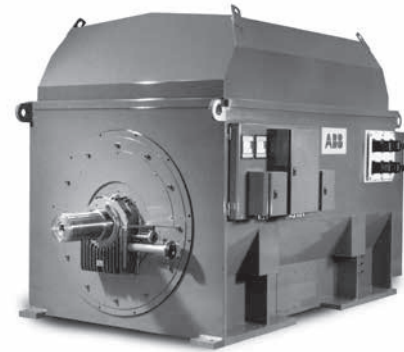
ABB Large AC Motor Capabilities Overview

Synchronous motors



- Ranging up to 70 MW / 94,000 Hp
- 20 - 2000 rpm (also 2 pole available)
- Shaft height 0710 - 2500 mm
- Ranging from 1 - 60 kV
- Endshield and pedestal mounted, horizontal and vertical design
- All main cooling types
- Motor design for hazardous environment according to main Ex standards
- All main DOL starting methods and VSD technology supported

Induction motors



- Ranging up to 13.8 kV and 23 MW / 30,000 HP
- Motor types AMA and AMI
- Shaft heights 400 to 1000 mm
- Poles 2 to 20
- 50 and 60 Hz
- Ambient -50°C to +60°C, Ambient -58°F to +140°F
- Suitable for IEC, EN and NEMA standards
- Motors for safe and hazardous areas
- Motors for onshore and offshore applications
- Horizontally or vertically mounted

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Synchronous Motors – Output Ratings at Different Speeds

Output (MW)	Fixed Speed Motors												
	Speed (RPM)												
	1900	1500	1000	750	600	500	429	375	333	300	273	250	140
5													
10													
15													
20													
25													
30													
35													
40													
45													
50													
55													
60													
65													
70													

Output (MW)	Variable Speed Motors												
	Speed (RPM)												
	2000	1500	1000	750	600	500	429	375	333	300	273	250	20
5													
10													
15													
20													
25													
30													
35													
40													
45													
50													

Output ranges of ABB synchronous motors (from 1 to 70 MW, 1 to 15 kV).

Fabricated Steel Frames

Induction Motors – Output Ratings at Different Speeds

Output (MW)	Speed (RPM)												
	3000	1500	1000	750	600	500	429	375	333	300	273	250	
1													
2													
3													
4													
5													
6													
7													
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Examples of output at 50 Hz