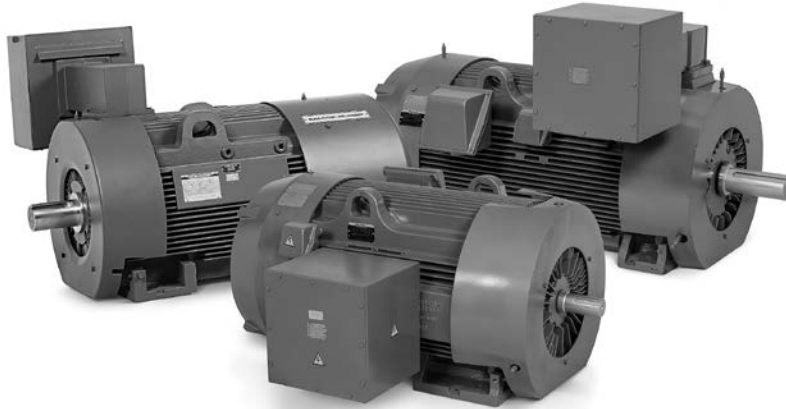


Baldor•Reliance Large AC (Above NEMA) motors are designed with higher than standard torques and low vibration levels which allows for a longer and safe operating life in applications requiring 250 Hp or greater, all while meeting the industry’s reliability and efficiency standards. The Baldor•Reliance line of Large AC motors offer constructions which make them suitable for petro-chemical plants, mines, quarries, foundries, pulp and paper plants, waste management facilities, as well as many other processing industry applications.



Key Features:

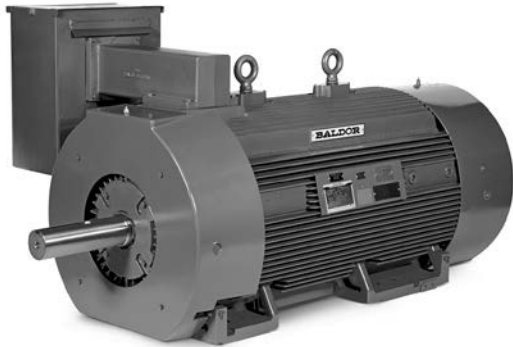
- Low vibration, cast iron frame construction.
- Minimum NEMA Design B torques, allowing for operation across a variety of applications.
- 1.15 SF as standard.
- Class F insulation with Class B (80°C) temperature rise
- V-Ring slinger for increased bearing protection.
- Designed for longevity with a 3 year warranty.
- Baldor•Reliance motors meet or exceed all efficiency requirements for US, Canada and Mexico regulations

250 - 1500 Horsepower

Product Line		GPM	ECP/CP
Frame size range for stock products		5010-500 ⁽¹⁾	5010-5810
Electrical Features			
Efficiency	Baldor•Reliance motors meet or exceed all efficiency requirements for US, Canada and Mexico regulations	S	S
Torque	Meet or exceed NEMA Design B Torques ⁽²⁾	S	S
Service Factor & Temp. Rise	1.15 Service Factor – Continuous	S	S
	Class F insulation with Class B rise @ 1.0 Service Factor	S	S
Inverter	Inverter Ready - meets NEMA MG1 Part 31.4.4.2 ⁽³⁾	S	S
Mechanical Features			
IP Code	IP54 enclosure ingress protection	S	S
	IP55 enclosure ingress protection	A	A
Frame	Cast Iron frame & endplates	S	S
	Sealed joints between frame and endplates	A	S
	Epoxy coated internal surfaces, including endplates, rotor, and stator.	A	S
Fan Covers	Fabricated steel fan covers ⁽⁴⁾	A	S
Shaft Seals	Shaft Seals: Neoprene V-ring slinger – DE & ODE	S	S
Bearings & Lubrication	Ball Bearings designs	S	S
	Roller Bearing designs for belted applications ⁽⁵⁾	A	A
	Bearings: Regreasable with PLS lubrication system. Grease inlet & auto relief fittings on DE & ODE.	S	S
Paint	Paint: 2 part modified epoxy with enhanced UV protection topcoat	S	S
Conduit Box	Conduit box: Fabricated steel. Oversized and rotatable in 90 degree increments	S	S
Nameplate	Nameplate: Stainless steel with embossed raised letter	S	S
Other Key Features			
Accessories	Winding resistance temperature detectors (RTDs) - 100 Ohm Platinum - 2 per phase	S	S
	Space heaters - 120/240 Volt	S	-
	Space heaters - 120 Volt	-	S
	Provisions for bearing resistance temperature detectors (RTDs)	S	S
Certifications	Nameplate marked Class I, Division 2, Groups C, D ⁽⁶⁾	-	S
Warranty	Warranty - in years from date of manufacture	3	3

S = Standard A = Available through Mod Express or as custom

- (1) Frame sizes range from 5010-5810 ANSI mounting and 450-500 IEC mounting. 450-500 frames represent shaft height in mm. Drawings will be referenced in inches and motors will meet NEMA.
- (2) For medium voltage motors and motors with frames 5000 and larger standard torque values are represented in NEMA MG-1 2014 part 20.10.1. Motors will meet or exceed these values.
- (3) For use on VFD, it is highly recommended to insulate the drive end bearing and add a shaft grounding system in order to address concerns regarding shaft currents that may be imposed upon the motor by a VFD as defined in NEMA MG1, Part 31.4.4.3. Motor is suitable for use on Inverter only in conjunction with an isolation transformer or other Common Mode Voltage Elimination. 1.0 Service Factor when used on VFD.
- (4) Some GPM ratings may have fabricated steel fan covers as standard.
- (5) For LR suffix motors, roller bearing is a standard feature. Ball bearings available through Mod Express
- (6) Please reference Division II tables at the end of the section for appropriate temperature code values.

**GPM (General Purpose Motor), Three Phase,
Totally Enclosed, 460, 575 & 2300/4000 Volt, Foot Mounted****250 thru 1500 Hp****IP54****Features:**

- Simple F1 to F2 conversion for main terminal box.
- Suitable for Inverter use per NEMA MG1 Part 31.4.4.2 with 10:1 VT and 2:1 CT speed ranges.
- Insulated ODE bearing for bearing current mitigation.
- Modifications available through Motor ModExpress®.

Applications:

- Pumps
- Compressors
- Fans
- Conveyors

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)
460 Volts												
350	1200	5010	TEFC	M50356L-4	37,732	LG	71.42	5600	95.2	460	398	1,16
		5010	TEFC	EM50356L-4	43,392	LG	71.42	5600	95.8	460	398	1
		5010	TEFC	M50356LR-4	39,036	LG	71.42	5600	95.2	460	398	1,5,16
		5010	TEFC	EM50356LR-4	44,891	LG	71.42	5600	95.8	460	398	1,5
400	3600	5010	TEFC	M50402S-4	38,205	LG	67.45	5500	95.3	460	428	1,16
	1200	5010	TEFC	M50406L-4	41,031	LG	71.42	5600	95.5	460	454	1,16
		5010	TEFC	EM50406L-4	47,186	LG	71.42	5600	95.8	460	454	1
		5010	TEFC	M50406LR-4	42,335	LG	71.42	5600	95.5	460	454	1,5,16
		5010	TEFC	EM50406LR-4	48,685	LG	71.42	5600	95.5	460	454	1,5
	900	5012	TEFC	EM50408LR-4	60,807	LG	79.44	6600	95.4	460	499	1,5,16
	450	3600	5010	TEFC	M50452S-4	44,401	LG	67.45	5500	95.4	460	480
1800		5010	TEFC	EM50452S-4	51,061	LG	67.45	5500	95.8	460	480	1
		5010	TEFC	M50454L-4	40,856	LG	71.42	5500	95.8	460	511	1,16
		5010	TEFC	EM50454L-4	46,984	LG	71.42	5500	96.2	460	511	1
1200		5012	TEFC	M50456L-4	46,810	LG	79.44	6600	95.5	460	508	1,16
		5012	TEFC	EM50456L-4	53,832	LG	79.44	6600	95.8	460	508	1
		5012	TEFC	M50456LR-4	48,114	LG	79.44	6600	95.5	460	508	1,5,16
		5012	TEFC	EM50456LR-4	55,331	LG	79.44	6600	95.8	460	508	1,5
900		5012	TEFC	EM50458LR-4	63,847	LG	79.44	6600	95.6	460	574	1,5,10
500		3600	5010	TEFC	M50502S-4	48,093	LG	67.45	5500	95.7	460	532
	1800	5010	TEFC	EM50502S-4	55,307	LG	67.45	5500	95.8	460	532	1
		5010	TEFC	M50504L-4	46,492	LG	71.42	5500	96	460	569	1,16
		5010	TEFC	EM50504L-4	53,466	LG	71.42	5500	96.2	460	569	1
	1200	5012	TEFC	M50506L-4	53,039	LG	79.44	6600	95.6	460	564	1,16
		5012	TEFC	EM50506L-4	60,995	LG	79.44	6600	95.8	460	564	1
		5012	TEFC	M50506LR-4	54,343	LG	79.44	6600	95.6	460	564	1,5,16
		5012	TEFC	EM50506LR-4	62,494	LG	79.44	6600	95.8	460	564	1,5
	900	5810	TEFC	EM58508LR-4	78,072	LG	90.81	10000	95.6	460	637	1,5,16
	600	3600	5010	TEFC	M50602S-4	52,207	LG	79.00	5650	95.7	460	644
1800		5012	TEFC	M50604L-4	55,152	LG	79.44	6600	96.2	460	678	1
1200		5012	TEFC	M50606L-4	61,203	LG	79.44	6600	95.9	460	667	1,7
1200		5012	TEFC	M50606LR-4	62,507	LG	79.44	6600	95.9	460	667	1,5,7
900		5810	TEFC	M58608LR-4	85,261	LG	90.81	10000	95.9	460	774	1,5,10
700	3600	5810	TEFC	M58702S-4	55,029	LG	95.59	10000	95.8	460	767	1
	1800	5012	TEFC	M50704L-4	63,072	LG	79.42	6600	96.3	460	792	1
	1200	5810	TEFC	M58706L-4	67,797	LG	90.81	10000	96.2	460	781	1
		5810	TEFC	M58706LR-4	69,101	LG	90.81	10000	96.2	460	781	1,5
	900	450	TEFC	M450708L-4	105,121	LG	86.42	11000	95.6	460	875	1,7,9,10

(a) See notes on inside back flap. Cast Iron Frame

For use on VFD, it is highly recommended to insulate the drive end bearing and add a shaft grounding system in order to address concerns regarding shaft currents that may be imposed upon the motor by a VFD as defined in NEMA MG1, Part 31.4.4.3.

Motor is suitable for use on Inverter only in conjunction with an isolation transformer or other Common Mode Voltage Elimination.

1.0 Service Factor when used on VFD

Custom induction motors available up to 30,000 Hp, contact your Baldor•Reliance Sales Representative for additional information.

Red Catalog Number indicates **NEW** Product.

GPM (General Purpose Motor), Three Phase, Totally Enclosed, 460, 575 & 2300/4000 Volt, Foot Mounted

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)
800	3600	5810	TEFC	M58802S-4	69,833	LG	95.59	10000	95.7	460	877	1
	1800	5012	TEFC	M50804L-4	67,731	LG	90.97	6600	96.6	460	911	1
	1200	5810	TEFC	M58806LR-4	75,237	LG	90.81	10000	96.7	460	903	1,7,10
	900	450	TEFC	M450808L-4	105,121	LG	86.42	11000	95.9	460	1011	1,7,9,10
900	1800	5012	TEFC	M50904L-4	69,190	LG	84.87	6600	96.4	460	1000	1,7,10
	1200	450	TEFC	M450906L-4	92,733	LG	83.47	10000	96.3	460	1047	1,7,9,10
	900	500	TEFC	M500908L-4	121,922	LG	99.02	14925	95.6	460	1095	1,7,9,10
1000	1800	450	TEFC	M4501004L-4	100,178	LG	86.42	10000	96	460	1126	1,7,9,10
	1200	450	TEFC	M4501006L-4	105,979	LG	96.65	12600	95.8	460	1136	1,7,9,10
	900	500	TEFC	M5001008L-4	123,922	LG	99.02	15000	95.7	460	1229	1,7,9,10
1250	1800	500	TEFC	M5001254L-4	120,836	LG	72.64	14000	96.1	460	1387	1,7,9,10
	1200	500	TEFC	M5001256L-4	115,034	LG	96.65	14500	96.4	460	1441	1,7,9,10
1500	1800	500	TEFC	M5001504L-4	133,358	LG	120.28	15500	96.4	460	1645	1,7,9,10
575 Volts												
450	1800	5010	TEFC	EM50454L-5	46,984	LG	71.42	5500	96.2	575	415	1,10
500	1800	5010	TEFC	EM50504L-5	53,832	LG	71.42	5500	96.2	575	454	1,10
600	1800	5012	TEFC	M50604L-5	55,152	LG	79.44	6600	96.2	575	544	1,10
700	1800	5012	TEFC	M50704L-5	63,072	LG	79.42	6600	96.3	575	633	1,10
800	1800	5012	TEFC	M50804L-5	67,731	LG	90.97	6600	96.6	575	725	1,10
900	1800	5012	TEFC	M50904L-5	69,190	LG	84.87	6600	96.4	575	800	1,7,10
1000	1800	450	TEFC	M4501004L-5	102,965	LG	86.42	11000	96.1	575	893	1,7,9,10
1250	1800	500	TEFC	M5001254L-5	120,835	LG	120.28	13600	96.2	575	1103	1,7,9,10
1500	1800	500	TEFC	M5001504L-5	124,863	LG	120.28	14500	96.3	575	1371	1,7,9,10
2300/4000 Volts												
250	3600	449TS	TEFC	EM44252TS-2340	33,234	LG	49.49	2338	95	2300/4000	33	1
	1800	L449T	TEFC	EM44254T-2340	36,300	LG	60.21	2694	95	2300/4000	32	1
	1200	5010	TEFC	M50256LR-2340	41,964	LG	71.42	5500	94.6	2300/4000	34	1,5
	900	5010	TEFC	EM50258LR-2340	48,317	LG	71.42	5500	94.3	2300/4000	36	1,5,10
300	3600	L449TS	TEFC	EM44302TS-2340	40,255	LG	56.48	3149	95.3	2300/4000	39	1
	1800	L449T	TEFC	EM44304T-2340	36,979	LG	60.21	3676	95	2300/4000	39	1,5
	1200	5010	TEFC	M50306LR-2340	43,298	LG	71.42	3683	94.7	2300/4000	40	1,5
350	900	5012	TEFC	EM50308LR-2340	54,916	LG	79.44	5500	94.5	2300/4000	43	1,5,10
	3600	5010	TEFC	EM50352S-2340	43,766	LG	67.45	5500	95	2300/4000	45	1
	1800	5008	TEFC	EM50354L-2340	44,000	LG	64.45	5000	95	2300/4000	46	1
400	1200	5010	TEFC	M50356LR-2340	49,383	LG	71.42	5500	94.8	2300/4000	47	1,5
	900	5012	TEFC	EM50358LR-2340	63,165	LG	79.44	6600	94.5	2300/4000	51	1,5,10
	3600	5010	TEFC	EM50402S-2340	48,213	LG	67.45	5500	95	2300/4000	50	1
450	1800	5010	TEFC	EM50404L-2340	47,745	LG	71.42	5500	95.3	2300/4000	52	1
	1200	5012	TEFC	EM50406LR-2340	54,064	LG	79.44	6600	95	2300/4000	53	1,5
	900	5012	TEFC	EM50408LR-2340	72,357	LG	79.44	6600	94.8	2300/4000	62	1,5,7,10
500	3600	5010	TEFC	EM50452S-2340	56,872	LG	67.45	5500	95.2	2300/4000	57	1
	1800	5010	TEFC	EM50454L-2340	51,957	LG	71.42	5500	95.5	2300/4000	59	1
	1200	5012	TEFC	EM50456LR-2340	62,021	LG	79.44	6600	95.1	2300/4000	60	1,5
	900	5810	TEFC	EM58458LR-2340	78,596	LG	90.81	10000	95.2	2300/4000	67	1,5,10
600	3600	5010	TEFC	EM50502S-2340	62,021	LG	67.45	5500	95.4	2300/4000	63	1
	1800	5012	TEFC	EM50504L-2340	59,681	LG	79.42	6600	95.5	2300/4000	65	1
	1200	5012	TEFC	EM50506LR-2340	70,915	LG	79.44	6600	95.3	2300/4000	64	1,5,7
600	900	5810	TEFC	EM58508LR-2340	88,384	LG	90.81	10000	95.1	2300/4000	73	1,5,10
	3600	5010	TEFC	EM50602S-2340	67,872	LG	79.00	5500	95.6	2300/4000	75	1,7
	1800	5012	TEFC	EM50604L-2340	70,213	LG	79.42	6600	95.8	2300/4000	78	1
	1200	5810	TEFC	EM58606LR-2340	78,404	LG	90.81	10000	95.7	2300/4000	79	1,5
	900	5810	TEFC	EM58608LR-2340	100,169	LG	90.81	10000	95.6	2300/4000	87	1,5,7,10

(a) See notes on inside back flap. ■ Cast Iron Frame

For use on VFD, it is highly recommended to insulate the drive end bearing and add a shaft grounding system in order to address concerns regarding shaft currents that may be imposed upon the motor by a VFD as defined in NEMA MG1, Part 31.4.4.3.

Motor is suitable for use on Inverter only in conjunction with an isolation transformer or other Common Mode Voltage Elimination.

1.0 Service Factor when used on VFD

Custom induction motors available up to 30,000 Hp, contact your Baldor•Reliance Sales Representative for additional information.

Red Catalog Number indicates **NEW** Product.

GPM (General Purpose Motor), Three Phase, Totally Enclosed, 460, 575 & 2300/4000 Volt, Foot Mounted

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)
700	3600	5810	TEFC	M58702S-2340	71,851	LG	95.59	10000	95.2	2300/4000	89	1
	1800	5012	TEFC	EM50704L-2340	77,234	LG	79.42	6600	96.1	2300/4000	90	1
	1200	5810	TEFC	EM58706LR-2340	89,652	LG	90.81	10000	96.2	2300/4000	92	1,5,7
	900	450	TEFC	EM450708L-2340	113,182	LG	83.47	10000	95.3	2300/4000	107	1,7,9,10
800	3600	5810	TEFC	EM58802S-2340	89,362	LG	95.59	10000	95.5	2300/4000	103	1
	1800	5012	TEFC	EM50804L-2340	89,872	LG	90.97	6600	95.8	2300/4000	102	1,7
	1200	450	TEFC	EM450806L-2340	102,853	LG	83.47	10000	96	2300/4000	105	1,7,9,10
	900	450	TEFC	EM450808L-2340	122,452	LG	83.47	10800	95.6	2300/4000	113	1,7,9,10
900	1800	5810	TEFC	EM58904L-2340	94,553	LG	90.81	10000	96.2	2300/4000	115	1
	1200	450	TEFC	EM450906L-2340	112,006	LG	83.47	10000	96.2	2300/4000	118	1,7,9,10
	900	500	TEFC	EM500908L-2340	141,652	LG	99.02	14000	95.6	2300/4000	124	1,7,9,10
1000	1800	5810	TEFC	EM581004L-2340	108,596	LG	102.27	11000	96.1	2300/4000	129	1
	1200	450	TEFC	EM4501006L-2340	115,432	LG	83.47	11000	95.9	2300/4000	130	1,7,9,10
	900	500	TEFC	EM5001008L-2340	143,652	LG	99.02	14000	95.6	2300/4000	138	1,7,9,10
1250	1800	500	TEFC	EM5001254L-2340	138,765	LG	120.23	13100	96	2300/4000	159	1,7,9,10
	1200	500	TEFC	EM5001256L-2340	126,546	LG	99.65	13000	96.3	2300/4000	167	1,7,9,10
	900	500	TEFC	EM5001258L-2340	144,599	LG	99.02	14000	95.9	2300/4000	179	1,7,9,10
1500	1800	500	TEFC	EM5001504L-2340	144,882	LG	120.28	14300	96.4	2300/4000	189	1,7,9,10
	1200	500	TEFC	EM5001506L-2340	139,139	LG	96.65	14700	96.6	2300/4000	200	1,7,9,10
	900	500	TEFC	EM5001508L-2340	150,998	LG	99.02	16700	96.1	2300/4000	207	1,7,9,10

(a) See notes on inside back flap.

■ Cast Iron Frame

For use on VFD, it is highly recommended to insulate the drive end bearing and add a shaft grounding system in order to address concerns regarding shaft currents that may be imposed upon the motor by a VFD as defined in NEMA MG1, Part 31.4.4.3.

Motor is suitable for use on Inverter only in conjunction with an isolation transformer or other Common Mode Voltage Elimination.

1.0 Service Factor when used on VFD

Custom induction motors available up to 30,000 Hp, contact your Baldor•Reliance Sales Representative for additional information.

Red Catalog Number indicates **NEW** Product.

General Information

Single Phase Motors

General Purpose Industrial Motors

Severe Duty Motors

Large AC Motors

Washdown Duty Motors

Explosion Proof Motors

Pump Motors

HVAC Motors

Farm Duty Motors

Severe Duty, Three Phase, Totally Enclosed, 460 Volt, Foot Mounted

350 - 800 Hp

IP54



Features:

- Internal surfaces epoxy coated for increased corrosion protection.
- Simple F1 to F2 conversion for main terminal box.
- Suitable for Inverter use per NEMA MG1 Part 31.4.4.2 a 10:1 VT & 2:1 CT speed ranges.
- Insulated ODE bearing for bearing current mitigation.
- Motor suitable for Division 2, Class I, Groups C & D.

Applications:

- Pumps
- Compressors
- Fans
- Conveyors

Hp	RPM	Frame	Enclosure	Catalog Number	List Price	Mult. Sym.	"C" Dim.	Aprx. Wt. (lb)	Full Load Efficiency	Voltage	Full Load Amps	Notes (a)
350	1200	5010	TEFC	CP50356LR-4	48,522	LG	71.42	5500	95.2	460	397	1,5
		5010	TEFC	ECP50356LR-4	53,374	LG	71.42	5500	95.8	460	397	1,5
	900	5012	TEFC	ECP50358LR-4	63,429	LG	79.44	6600	95.2	460	436	1,5
400	1200	5012	TEFC	CP50406LR-4	54,485	LG	79.44	6600	95.4	460	452	1,5
		5012	TEFC	ECP50406LR-4	59,934	LG	79.44	6600	95.8	460	452	1,5
	900	5012	TEFC	ECP50408LR-4	66,888	LG	79.44	6600	95.2	460	500	1,5
450	3600	5010	TEFC	CP50452S-4	48,841	LG	67.45	5500	95	460	482	1
		5010	TEFC	ECP50452S-4	53,725	LG	67.45	5500	95.8	460	482	1
	1800	5010	TEFC	CP50454L-4	50,335	LG	71.14	5500	95.1	460	514	1
		5010	TEFC	ECP50454L-4	55,369	LG	71.14	5500	96.2	460	514	1
	1200	5012	TEFC	CP50456LR-4	56,630	LG	79.44	6600	95.4	460	508	1,5
		5012	TEFC	ECP50456LR-4	62,293	LG	79.44	6600	95.8	460	508	1,5
900	5012	TEFC	ECP50458LR-4	87,790	LG	79.44	6600	95.5	460	594	1,5,7	
500	3600	5010	TEFC	ECP50502S-4	58,192	LG	67.14	5500	95.8	460	534	1
	1800	5010	TEFC	ECP50504L-4	56,255	LG	71.14	5500	96.2	460	573	1
		5012	TEFC	CP50506LR-4	59,777	LG	79.44	6600	95.7	460	564	1,5
	1200	5012	TEFC	ECP50506LR-4	65,755	LG	79.44	6600	95.8	460	564	1,5
		900	5012	TEFC	ECP50508LR-4	91,032	LG	79.44	6600	95.8	460	585
600	3600	5810	TEFC	CP58602S-4	73,507	LG	84.13	10000	95.4	460	662	1
	1800	5012	TEFC	CP50604L-4	60,667	LG	79.42	6600	96.1	460	674	1
	1200	5012	TEFC	CP50606LR-4	83,197	LG	79.44	6600	95.9	460	667	1,5,7
	900	5810	TEFC	CP58608LR-4	93,787	LG	83.3	10000	95.9	460	774	1,5
700	3600	5810	TEFC	CP58702S-4	90,798	LG	86.07	10000	95.9	460	767	1
	1800	5012	TEFC	CP50704L-4	69,380	LG	79.42	6600	95.8	460	794	1
	1200	5810	TEFC	CP58706LR-4	85,893	LG	83.30	10000	96.2	460	781	1,5
	900	5810	TEFC	CP58708LR-4	115,633	LG	83.30	10000	96.3	460	862	1,5,7
800	3600	5810	TEFC	CP58802S-4	91,412	LG	86.07	10000	96.1	460	878	1
	1800	5012	TEFC	CP50804L-4	74,504	LG	90.97	6600	96	460	916	1
	1200	5810	TEFC	CP58806LR-4	112,555	LG	83.30	10000	96.7	460	903	1,5,7
	900	500	TEFC	CP500808LR-4	191,325	LG	120.18	10000	96	460	915	1,5,7

(a) See notes on inside back flap.

■ Cast Iron Frame

For use on VFD, it is highly recommended to insulate the drive end bearing and add a shaft grounding system in order to address concerns regarding shaft currents that may be imposed upon the motor by a VFD as defined in NEMA MG1, Part 31.4.4.3.

Motor is suitable for use on Inverter only in conjunction with an isolation transformer or other Common Mode Voltage Elimination.

1.0 Service Factor when used on VFD.

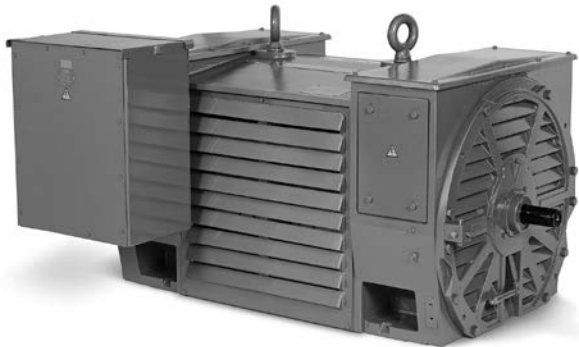
Custom induction motors available up to 30,000 Hp, contact your Baldor•Reliance Sales Representative for additional information.

All ratings are 1.15 Service Factor at 40°C ambient.

Red Catalog Number indicates **NEW** Product.

NEW!**Large AC Motors**

BALDOR • RELIANCE® Ammonia Refrigeration Compressor Motors, Three Phase, 150 to 1000 Hp Open Drip Proof, 460 & 2300/4160 Volt, Foot Mounted



Standard 2300/4160 Volt motor

Features:

- Low noise design
- 1.15 SF
- High efficiency designs
- Rated for across the line start
- Class F insulation with Class B temperature rise
- Cast iron frame for reduced vibration and increased strength

Applications:

- Ammonia refrigeration compressors
- Pumps

Hp	RPM	NEMA Frame	Catalog Number	List Price	Mult. Sym.	"C" Dim.	Aprx. Wt. (lb)	Full Load Efficiency	Voltage	Full Load Amps	Notes (a)
460 Volts (wye start delta run)											
150	3600	404/5TS	EM251152T-4	13,117	L1	31.00	1140	95.4	460	167	1
200	3600	444/5TS	EM251202T-4	14,864	L1	35.81	1737	95.4	460	221	1
250	3600	444/5TS	EM251252T-4	17,437	L1	35.81	1539	95.4	460	274	1
300	3600	447TSS/TS	EM251302T-4	27,254	L1	39.31	1899	95.4	460	334	1
350	3600	447TSS/TS	EM251352T-4	31,190	L1	39.31	1899	95.4	460	381	1
400	3600	449TS	EM251402T-4	36,592	L1	44.31	4000	96.2	460	431	1
450	3600	449TS	EM251452T-4	40,294	L1	44.31	4000	96.2	460	494	1
500	3600	449TS	EM251502T-4	44,548	L1	39.37	2595	96.2	460	544	1
600	3600	5010	M250602S-4	47,729	LG	56.50	4200	95.6	460	673	1
2300/4160 Volts											
400	3600	449TS	M244402TS-2341	32,791	LG	44.38	4000	95	2300/4160	49	1
500	3600	5008	M250502S-2341	45,766	LG	49.50	3200	94.8	2300/4160	62	1
600	3600	5010	M250602S-2341	47,564	LG	56.50	4200	95.2	2300/4160	73	1
700	3600	5010	M250702S-2341	49,901	LG	56.50	4200	95.2	2300/4160	85	1
800	3600	5810	M258802S-2341	64,295	LG	65.81	7000	95	2300/4160	99	1
900	3600	5810	M258902S-2341	71,196	LG	65.81	7000	95.2	2300/4160	111	1
1000	3600	5810	M2581002S-2341	77,398	LG	65.81	7000	95.2	2300/4160	141	1

(a) See notes on inside back flap.

■ Cast Iron Frame

Custom induction motors available up to 30,000 Hp, contact your Baldor•Reliance Sales Representative for additional information.

Conversion base kits are available in the Motor Accessories section.

Red Catalog Number indicates **NEW** Product.**NEW!**

Division 2 Capabilities

The following list of Large AC motors are marked for Division 2, Class I, Group A,B,C,D for Sine Wave and Inverter Power. They also include Equivalent Zone markings for Class I, Zone 2, Groups IIA, IIB, IIC for Sine Wave and Inverter Power.

Division 2 Temp Codes are provided in the standard format per the NEC Article 500 requirements. Equivalent Zone Temp Codes are provided in the "T=°C" format because NEC Article 505 does not allow all T Codes permitted by NEC 500. Inverter Temp Codes are provided in the "T=°C" format because they apply to both the Equivalent Zone (NEC 505) requirements and NEC 500 requirements. Please reference the following table for Temperature and Temp Code values.

Maximum Surface Temperature	US (NEC 500) CA (CEC Annex J)	US (NEC 505) CA (CEC Section 18)
450° C	T1	T1
300° C	T2	T2
280° C	T2A	-
260° C	T2B	-
230° C	T2C	-
215° C	T2D	-
200° C	T3	T3

Maximum Surface Temperature	US (NEC 500) CA (CEC Annex J)	US (NEC 505) CA (CEC Section 18)
180° C	T3A	-
165° C	T3B	-
160° C	T3C	-
135° C	T4	T4
120° C	T4A	-
100° C	T5	T5
85° C	T6	T6

Catalog Number	Sine Wave, 1.15 S.F.		Inverter Power, 1.0 S.F.			
	Sine Wave Temp Code	Equivalent Zone Temp Code T = °C	Inverter Temp Code T = °C	V.T. Speed Range (Hz)	C.T. Speed Range (Hz)	CHP Speed Range (Hz)
CP50356LR-4	T3C	160°C	160°C	6-60	30-60	60-90
ECP50356LR-4	T3C	160°C	160°C	6-60	30-60	60-90
ECP50358LR-4	T3C	160°C	160°C	6-60	30-60	60-90
CP50406LR-4	T3C	160°C	160°C	6-60	30-60	60-90
ECP50406LR-4	T3C	160°C	160°C	6-60	30-60	60-90
ECP50408LR-4	T3C	160°C	160°C	6-60	30-60	60-90
CP50452S-4	T2A	280°C	280°C	6-60	30-60	60-70
ECP50452S-4	T2A	280°C	280°C	6-60	30-60	60-70
CP50454L-4	T2D	215°C	215°C	6-60	30-60	60-66
ECP50454L-4	T2D	215°C	215°C	6-60	30-60	60-66
CP50456LR-4	T3A	180°C	180°C	6-60	30-60	60-90
ECP50456LR-4	T3A	180°C	180°C	6-60	30-60	60-90
ECP50458LR-4	T3B	165°C	165°C	6-60	30-60	60-90
ECP50502S-4	T2	300°C	300°C	6-60	30-60	60-70
CP50504L-4	T2C	230°C	230°C	6-60	30-60	60-66
ECP50504L-4	T2C	230°C	230°C	6-60	30-60	60-66
CP50506LR-4	T3A	180°C	180°C	6-60	30-60	60-90
ECP50506LR-4	T3A	180°C	180°C	6-60	30-60	60-90
ECP50508LR-4	T3	200°C	200°C	6-60	30-60	60-90
CP58602S-4	T2	300°C	300°C	6-60	30-60	(2)
CP50604L-4	T2C	230°C	230°C	6-60	30-60	60-66
CP50606LR-4	T2C	230°C	230°C	6-60	30-60	60-75
CP58608LR-4	T3A	180°C	180°C	6-60	30-60	60-90
CP58702S-4	T2B	260°C	260°C	6-60	30-60	(2)
CP50704L-4	T2C	230°C	230°C	6-60	30-60	60-66
CP58706LR-4	T3A	180°C	180°C	6-60	30-60	60-90
CP58708LR-4	T3A	180°C	180°C	6-60	30-60	60-90
CP58802S-4	T2B	260°C	260°C	6-60	30-60	(2)
CP50804L-4	(1)	(1)	(1)	(1)	(1)	(1)
CP58806LR-4	T3A	180°C	180°C	6-60	30-60	60-75
CP500808LR-4	T3A	180°C	180°C	6-60	30-60	60-75

NOTES:

- (1) Motor is not suitable for division II operation
- (2) Overspeed capability not available

General Information

Single Phase Motors

General Purpose Industrial Motors

Severe Duty Motors

Large AC Motors

Washdown Duty Motors

Explosion Proof Motors

Pump Motors

HVAC Motors

Farm Duty Motors