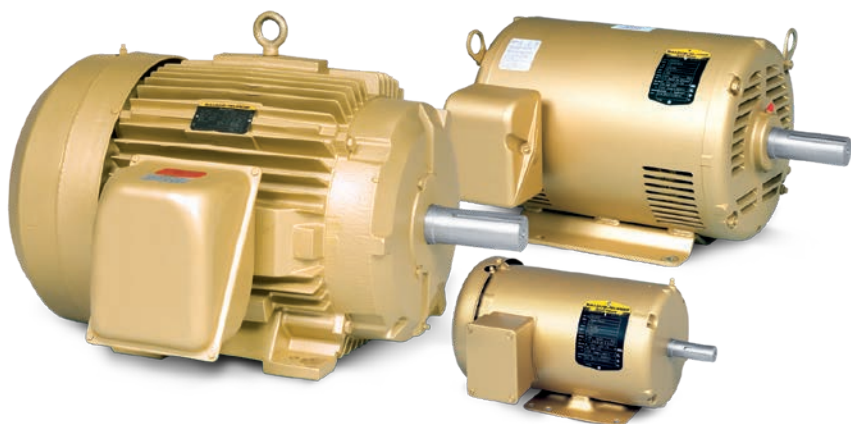


PRODUCT NOTE

Super-E[®] motors

With AEGIS[®] bearing protection ring



The need for proper motor grounding is extremely important in preventing premature bearing failure which could result in high maintenance costs or worse - facility downtime. While there are several techniques and practices to ground the motor, most common and economical is a shaft grounding device mounted to the frame of the motor.

BALDOR • RELIANCE

Applications

Heating, ventilation and air conditioning blower and fan motors, pump motors, and other general purpose applications using an adjustable speed drive.

Features

- 1 – 100 HP 56 thru 405T
- AEGIS[®] bearing protection ring installed internally
- Choice of TEFC or open drip proof enclosures
- Meet or exceed NEMA Premium[®] efficiencies for LEED and FEMP buildings
- Class H insulation system - meets NEMA MG 1 Part 31.4.4.2
- 1.15 service factor with Class B temperature rise at rated horsepower (sine wave)

- Heavy duty frames with cast endplates, suitable for mounting in any position
- Dynamically balanced rotors for reduced vibration and quiet operation
- Ball bearings with Mobil Polyrex[®] EM grease.
- Other speeds, horsepower ratings, and voltages available as custom motors
- AEGIS[®] SGR guarantees the prevention of bearing damage caused by drive-induced currents
- Additional off-the-shelf inventory available for quick shipment through our Mod-Express[®] department
- Three year limited product warranty

Premium efficient Super-E® motors



- 230/460
- Three phase
- C-Face
- TEFC
- Foot mounted
- Internal AEGIS® bearing protection ring
- 1 thru 50 Hp
- NEMA 56 thru 405T



Hp	RPM	NEMA frame	Cat. no.	"C" dim.	Aprx. wt. (lb)	FL eff.	Voltage	FL amps
1	3600	56C	CEM3545-G	12.23	32	77	230/460	1.4
	1800	143TC	CEM3546T-G	13.29	30	85.5	230/460	1.5
	1200	145TC	CEM3556T-G	13.29	43	82.5	230/460	1.8
1-1/2	3600	143TC	CEM3550T-G	13.29	36	84	230/460	1.9
	1800	145TC	CEM3554T-G	13.29	42	86.5	230/460	2.2
	1200	182TC	CEM3607T-G	16.54	76	87.5	230/460	2.4
2	3600	145TC	CEM3555T-G	13.29	46	85.5	230/460	2.5
	1800	145TC	CEM3558T-G	14.17	42	86.5	230/460	2.9
	1200	184TC	CEM3614T-G	18.05	94	88.5	230/460	3.5
3	3600	145TC	CEM3559T-G	14.17	53	86.5	230/460	3.6
	1800	182TC	CEM3610T-G	15.16	50	86.5	230/460	3.6
	1200	182TC	CEM3611T-G	16.55	74	89.5	230/460	4.2
5	3600	213TC	CEM3704T-G	19.76	135	89.5	230/460	4.6
	1800	184TC	CEM3613T-G	16.55	76	88.5	230/460	5.9
	1200	184TC	CEM3615T-G	18.05	92	89.5	230/460	6.7
7-1/2	3600	215TC	CEM3708T-G	19.20	154	89.5	230/460	7.3
	1800	213TC	CEM3709T-G	18.63	133	89.5	230/460	9
	1200	213TC	CEM3710T-G	19.76	129	91.7	230/460	9.4
10	3600	254TC	CEM2276T-G	23.3	281	91	230/460	11
	1800	215TC	CEM3711T-G	18.63	118	90.2	230/460	11.8
	1200	215TC	CEM3714T-G	21.26	156	91.7	230/460	12
15	3600	256TC	CEM2332T-G	23.30	322	91	230/460	14.1
	1800	254TC	CEM2394T-G	23.78	239	91	230/460	17.5
	1200	254TC	CEM2333T-G	23.78	270	92.4	230/460	18.1
20	3600	284TC	CEM4100T-G	27.76	369	91.7	230/460	21
	1800	256TC	CEM4106T-G	23.78	261	91	230/460	23
	1200	256TC	CEM2334T-G	23.78	295	93	230/460	24
25	3600	286TC	CEM4102T-G	27.76	393	91.7	230/460	27
	1800	284TSC	CEM4107T-G	26.39	323	91.7	230/460	29
	1200	284TC	CEM4103T-G	27.76	400	93.6	230/460	30
30	3600	324TC	CEM4111T-G	30.39	507	93	230/460	32
	1800	286TSC	CEM4108T-G	26.39	336	91.7	230/460	34
	1200	286TC	CEM4104T-G	27.76	410	93.6	230/460	38
40	3600	326TC	CEM4117T-G	30.28	604	93	230/460	39
	1800	324TSC	CEM4109T-G	28.78	532	92.4	230/460	46
	1200	324TC	CEM4110T-G	30.28	596	94.1	230/460	48
50	3600	326TSC	CEM4114T-G	28.78	584	93	230/460	56
	1800	326TC	CEM4115T-G	30.28	648	94.5	230/460	58
60	3600	364TSC	CEM4310T-G	31.36	900	95	230/460	66.3
	1800	364TC	CEM4314T-G	33.48	907	95	230/460	68
75	3600	365TSC	CEM4313T-G	31.36	966	94.5	230/460	81.9
	1800	365TC	CEM4316T-G	33.48	956	95.4	230/460	85.9
100	1800	405TC	CEM4400T-G	38.20	1214	95.4	230/460	112

Shaded areas indicate cast iron construction.

Premium efficient Super-E® motors



- 230/460, 200 & 575 volt
- Three phase
- TEFC
- Foot mounted
- Internal AEGIS® bearing protection ring
- 1 thru 100 Hp
- NEMA 56 thru 405T
- Cast iron and rolled steel



Hp	RPM	NEMA frame	Cat. no.	"C" dim.	Aprx. wt. (lb)	FL eff.	Voltage	FL amps
1	3600	56	EM3545-G	12.23	32	77	230/460	1.4
	1800	143T	EM3546T-G	12.31	30	85.5	230/460	1.5
	1800	143T	EM3581T-G	12.54	55	85.5	230/460	1.5
	1200	145T	EM3556T-G	13.31	43	82.5	230/460	1.8
	1200	145T	EM3582T-G	12.54	56	82.5	230/460	1.7
1-1/2	3600	143T	EM3550T-G	12.29	36	84	230/460	1.9
	3600	143T	EM3583T-G	12.54	56	84	230/460	1.9
	1800	145T	EM3554T-G	13.31	42	86.5	230/460	2.2
	1800	145T	EM3584T-G	12.54	61	86.5	230/460	2.3
	1200	182T	EM3607T-G	16.54	76	87.5	230/460	2.4
2	1200	182T	EM3667T-G	15.24	99	87.5	230/460	2.5
	3600	145T	EM3555T-G	13.29	46	85.5	230/460	2.5
	3600	145T	EM3586T-G	12.54	62	85.5	230/460	2.5
	1800	145T	EM3558T-G	13.31	42	86.5	230/460	2.9
	1800	145T	EM3587T-G	12.54	62	86.5	230/460	2.9
3	1200	184T	EM3614T-G	18.04	94	88.5	230/460	3.5
	1200	184T	EM3664T-G	15.24	123	88.5	230/460	3.15
	3600	145T	EM3559T-G	14.17	53	86.5	230/460	3.6
	3600	182T	EM3610T-G	15.29	57	86.5	230/460	3.6
	3600	182T	EM3660T-G	15.24	58	86.5	230/460	3.8
5	1800	182T	EM3611T-G	16.54	74	89.5	230/460	4.2
	1800	182T	EM3661T-G	15.24	105	89.5	230/460	4.1
	1200	213T	EM3704T-G	19.01	135	89.5	230/460	4.6
	1200	213T	EM3764T-G	18.45	211	89.5	230/460	4.5
	3600	184T	EM3613T-G	16.54	76	88.5	230/460	5.9
7-1/2	3600	184T	EM3663T-G	15.24	99	88.5	230/460	5.8
	1800	184T	EM3615T-G	18.04	92	89.5	230/460	6.7
	1800	184T	EM3665T-G	15.24	115	89.5	230/460	6.6
	1200	215T	EM3708T-G	19.76	154	89.5	230/460	7.3
	1200	215T	EM3768T-G	18.45	198	89.5	230/460	7.4
10	3600	213T	EM3709T-G	17.89	133	89.5	230/460	9
	3600	213T	EM3769T-G	18.45	169	89.5	230/460	9
	1800	213T	EM3710T-G	19.01	129	91.7	230/460	9.4
	1800	213T	EM3770T-G	18.45	193	91.7	230/460	9.5
	1200	254T	EM2276T-G	23.30	281	91	230/460	11
15	3600	215T	EM3711T-G	17.89	118	90.2	230/460	11.8
	3600	215T	EM3771T-G	18.45	164	90.2	230/460	11.8
	1800	215T	EM3714T-G	20.51	156	91.7	230/460	12
	1800	215T	EM3774T-G	18.45	232	91.7	230/460	12.2
	1200	256T	EM2332T-G	23.30	322	91	230/460	14.1
20	3600	254T	EM2394T-G	23.30	239	91	230/460	17.5
	1800	254T	EM2333T-G	23.30	270	92.4	230/460	18.1
	1200	284T	EM4100T-G	27.76	369	91.7	230/460	21
20	3600	256T	EM4106T-G	23.30	261	91	230/460	23
	1800	256T	EM2334T-G	23.30	295	93	230/460	24
	1200	286T	EM4102T-G	27.76	393	91.7	230/460	27

Shaded areas indicate cast iron construction.

Premium efficient Super-E® motors

Hp	RPM	NEMA frame	Cat. no.	"C" dim.	Aprx. wt. (lb)	FL eff.	Voltage	FL amps
25	3600	284TS	EM4107T-G	24.70	323	91.7	230/460	29
	1800	284T	EM4103T-G	27.76	400	93.6	230/460	30
	1200	324T	EM4111T-G	30.39	507	93	230/460	32
30	3600	286TS	EM4108T-G	24.70	336	91.7	230/460	34
	1800	286T	EM4104T-G	27.76	410	93.6	230/460	38
	1200	326T	EM4117T-G	30.28	604	93	230/460	39
40	3600	324TS	EM4109T-G	28.78	532	92.4	230/460	46
	1800	324T	EM4110T-G	30.28	596	94.1	230/460	48
	1200	364T	EM4308T-G	33.48	883	94.1	230/460	49.4
50	3600	326TS	EM4114T-G	28.78	584	93	230/460	56
	1800	326T	EM4115T-G	30.28	648	94.5	230/460	58
	1200	365T	EM4312T-G	33.48	910	94.1	230/460	61.7
60	3600	364TS	EM4310T-G	31.36	900	95	230/460	66.3
	1800	364T	EM4314T-G	33.48	907	95	230/460	68
75	3600	365TS	EM4313T-G	31.36	966	94.5	230/460	81.9
	1800	365T	EM4316T-G	33.48	956	95.4	230/460	85.9
100	1800	405T	EM4400T-G	38.20	1214	95.4	230/460	112

Shaded areas indicate cast iron construction.

Hp	RPM	NEMA frame	Cat. no.	"C" dim.	Aprx. wt. (lb)	FL eff.	Voltage	FL amps
Totally enclosed fan cooled, 200 volt								
5	1800	184T	EM3665T-8G	15.23	119	89.5	200	15.1
7 1/2	1800	213T	EM3770T-8G	18.45	170	91.7	200	21.4
10	1800	215T	EM3774T-8G	18.45	231	91.7	200	28
15	1800	254T	EM2333T-8G	23.30	255	92.4	200	42.4
Totally enclosed fan cooled, 575 volt								
1	1800	143T	EM3546T-5G	12.31	35	85.5	575	1.2
1 1/2	1800	145T	EM3554T-5G	13.31	42	86.5	575	1.8
2	1800	145T	EM3558T-5G	13.31	46	86.5	575	2.3
3	1800	182T	EM3611T-5G	16.54	76	89.5	575	3.3
5	1800	184T	EM3615T-5G	18.04	84	89.5	575	5.3
7 1/2	1800	213T	EM3710T-5G	19.01	126	91.7	575	7.6
10	1800	215T	EM3714T-5G	20.51	165	91.7	575	9.6
15	1800	254T	EM2333T-5G	23.30	250	92.4	575	14.5
20	1800	256T	EM2334T-5G	23.30	293	93	575	19.2
25	1800	284T	EM4103T-5G	27.76	364	93.6	575	23
30	1800	286T	EM4104T-5G	27.76	423	93.6	575	29
40	1800	324T	EM4110T-5G	30.28	576	94.1	575	39
50	1800	326T	EM4115T-5G	30.28	644	94.5	575	46

Shaded areas indicate cast iron construction.

Premium efficient Super-E® motors



- 230/460
- Three phase
- ODP
- Foot mounted
- Internal AEGIS bearing protection ring
- 1 thru 100 Hp
- NEMA 56 thru 405T



Hp	RPM	NEMA frame	Cat. no.	"C" dim.	Aprx. wt. (lb)	FL eff.	Voltage	FL amps
1	3600	56C	CEM31115-G	11.75	27	77	230/460	1.6
	1800	143TC	CEM3116T-G	11.12	34	85.5	230/460	1.5
	1200	145TC	CEM3156T-G	11.62	40	82.5	230/460	1.8
1-1/2	3600	143TC	CEM3120T-G	11.12	34	84	230/460	2
	1800	145TC	CEM3154T-G	11.62	38	86.5	230/460	2.2
	1200	182TC	CEM3207T-G	15.00	67	86.5	230/460	2.5
2	3600	143TC	CEM3155T-G	11.62	41	85.5	230/460	2.5
	1800	145TC	CEM3157T-G	12.12	41	86.5	230/460	2.9
	1200	184TC	CEM3215T-G	16.50	79	87.5	230/460	3.4
3	3600	145TC	CEM3158T-G	13.00	46	85.5	230/460	3.8
	1800	182TC	CEM3211T-G	15.00	72	89.5	230/460	4.2
	1200	213TC	CEM3305T-G	16.32	110	88.5	230/460	4.5
5	3600	182TC	CEM3212T-G	13.62	63	86.5	230/460	6
	1800	184TC	CEM3218T-G	16.50	84	89.5	230/460	6.6
	1200	215TC	CEM3309T-G	17.45	141	89.5	230/460	7.4
7-1/2	3600	184TC	CEM3219T-G	15.00	75	88.5	230/460	8.6
	1800	213TC	CEM3311T-G	16.32	115	91	230/460	9.7
	1200	254TC	CEM2506T-G	23.19	243	90.2	230/460	11
10	3600	213TC	CEM3312T-G	16.32	113	89.5	230/460	12
	1800	215TC	CEM3313T-G	17.45	127	91.7	230/460	12.5
	1200	256TC	CEM2511T-G	23.19	255	91.7	230/460	14.3
15	3600	215TC	CEM3314T-G	16.32	126	90.2	230/460	17.5
	1800	254TC	CEM2513T-G	21.69	210	93	230/460	17.7
	1200	284TC	CEM2524T-G	23.81	280	91.7	230/460	20.5
20	3600	254TC	CEM2514T-G	21.69	195	91	230/460	23.5
	1800	256TC	CEM2515T-G	21.69	227	93	230/460	23.5
	1200	286TC	CEM2528T-G	23.81	299	92.4	230/460	27
25	3600	256TC	CEM2516T-G	21.69	212	91.7	230/460	28
	1800	284TC	CEM2531T-G	25.06	314	93.6	230/460	30
	1200	324TC	CEM2532T-G	27.69	384	93	230/460	34
30	3600	284TSC	CEM2534T-G	22.44	310	91.7	230/460	35
	1800	286TC	CEM2535T-G	25.06	340	94.1	230/460	35
	1200	326TC	CEM2536T-G	28.69	457	93.6	230/460	38
40	3600	286TSC	CEM2538T-G	22.44	328	92.4	230/460	46
	1800	324TC	CEM2539T-G	27.19	392	94.1	230/460	49
	3600	324TSC	CEM2542T-G	25.69	392	93	230/460	56
50	1800	326TC	CEM2543T-G	27.69	473	94.5	230/460	57
	3600	326TSC	CEM2546T-G	30.69	616	95	230/460	68
60	1800	364TC	CEM2547T-G	30.69	616	95	230/460	68
	3600	364TSC	CEM2549T-G	33.72	750	95	230/460	87
75	1800	365TC	CEM2551T-G	33.72	750	95	230/460	87
	3600	365TSC	CEM2550T-4G	36.97	898	95.4	460	115
100	1800	404TC	CEM2555T-4G	36.97	898	95.4	460	115

Premium efficient Super-E® motors



- 230/460 volt
- Three phase
- ODP
- Foot mounted
- Internal AEGIS® bearing protection ring
- 1 thru 100 Hp
- NEMA 56 thru 404T



Hp	RPM	NEMA frame	Cat. no.	"C" dim.	Aprx. wt. (lb)	FL eff.	Voltage	FL amps
1	3600	56	EM3115-G	11.06	28	80	208-230/460	1.5
	1800	143T	EM3116T-G	11.12	34	85.5	208-230/460	1.5
	1200	145T	EM3156T-G	11.62	40	82.5	208-230/460	1.8
1-1/2	3600	143T	EM3120T-G	11.12	34	84	208-230/460	2
	1800	145T	EM3154T-G	11.62	38	86.5	230/460	2.2
	1200	182T	EM3207T-G	15.00	67	86.5	208-230/460	2.5
2	3600	143T	EM3155T-G	11.62	41	85.5	208-230/460	2.5
	1800	145T	EM3157T-G	12.12	41	86.5	230/460	2.9
	1200	184T	EM3215T-G	16.50	79	87.5	208-230/460	3.4
3	3600	145T	EM3158T-G	13.00	46	85.5	230/460	3.8
	1800	182T	EM3211T-G	15.00	72	89.5	230/460	4.2
	1200	213T	EM3305T-G	16.32	110	88.5	208-230/460	4.5
5	3600	182T	EM3212T-G	13.62	60	86.5	208-230/460	6
	1800	184T	EM3218T-G	16.50	84	89.5	208-230/460	6.6
	1200	215T	EM3309T-G	17.45	141	89.5	208-230/460	7.4
7-1/2	3600	184T	EM3219T-G	15.00	75	88.5	208-230/460	8.6
	1800	213T	EM3311T-G	16.32	115	91	208-230/460	9.7
	1200	254T	EM2506T-G	23.19	243	90.2	230/460	11
10	3600	213T	EM3312T-G	16.32	110	89.5	208-230/460	12
	1800	215T	EM3313T-G	17.45	127	91.7	230/460	12.5
	1200	256T	EM2511T-G	23.19	255	91.7	230/460	14.3
15	3600	215T	EM3314T-G	16.32	123	90.2	230/460	17.5
	1800	254T	EM2513T-G	21.69	210	93	230/460	17.7
	1200	284T	EM2524T-G	23.81	281	91.7	230/460	20.5
20	3600	254T	EM2514T-G	21.69	195	91	230/460	23.5
	1800	256T	EM2515T-G	21.69	227	93	230/460	23.5
	1200	286T	EM2528T-G	23.81	299	92.4	230/460	27
25	3600	256T	EM2516T-G	21.69	212	91.7	230/460	28
	1800	284T	EM2531T-G	25.06	314	93.6	230/460	30
	1200	324T	EM2532T-G	27.69	384	93	208-230/460	34
30	3600	284TS	EM2534T-G	22.44	311	91.7	208-230/460	35
	1800	286T	EM2535T-G	25.06	337	94.1	230/460	35
	1200	326T	EM2536T-G	28.69	457	93.6	230/460	38
40	3600	286TS	EM2538T-G	22.44	328	92.4	208-230/460	46
	1800	324T	EM2539T-G	27.19	389	94.1	230/460	49
	1200	364T	EM2540T-G	30.69	606	94.1	230/460	51
50	3600	324TS	EM2542T-G	25.69	392	93	208-230/460	56
	1800	326T	EM2543T-G	27.69	473	94.5	230/460	57
60	1800	364T	EM2547T-G	30.69	616	95	230/460	68
75	1800	365T	EM2551T-G	33.72	750	95	230/460	87
100	1800	404T	EM2555T-4G	36.97	898	95.4	460	115

Premium efficient Super-E® motors



- 200 & 575 volt
- Three phase
- ODP
- Foot mounted
- Internal AEGIS bearing protection ring
- 1 thru 50 Hp
- NEMA 143T thru 326T



Hp	RPM	NEMA frame	Cat. no.	"C" dim.	Aprx. wt. (lb)	FL eff.	Voltage	FL amps
Open drip proof, 200 volt								
1	1800	143T	EM3116T-8G	11.12	34	85.5	200	3.5
1 1/2	1800	145T	EM3154T-8G	11.62	37	86.5	200	5.1
2	1800	145T	EM3157T-8G	12.12	43	86.5	200	6.5
3	1800	182T	EM3211T-8G	15.00	74	89.5	200	9.7
5	1800	184T	EM3218T-8G	16.50	92	89.5	200	15.3
7 1/2	1800	213T	EM3311T-8G	16.32	120	91	200	22.2
10	1800	215T	EM3313T-8G	17.45	132	91.7	200	29.5
15	1800	254T	EM2513T-8G	21.69	234	93	200	40.7
20	1800	256T	EM2515T-8G	21.69	250	93	200	54.3
25	1800	284T	EM2531T-8G	25.06	327	93.6	200	70
30	1800	286T	EM2535T-8G	25.06	375	94.1	200	81
40	1800	324T	EM2539T-8G	27.19	378	94.1	200	109
Open drip proof, 575 volt								
1	1800	143T	EM3116T-5G	11.12	34	85.5	575	1.2
1 1/2	1800	145T	EM3154T-5G	11.62	37	86.5	575	1.8
2	1800	145T	EM3157T-5G	12.12	43	86.5	575	2.3
3	1800	182T	EM3211T-5G	15.00	74	89.5	575	3.4
5	1800	184T	EM3218T-5G	16.50	92	89.5	575	5.3
7 1/2	1800	213T	EM3311T-5G	16.32	120	91	575	7.6
10	1800	215T	EM3313T-5G	17.45	132	91.7	575	10
15	1800	254T	EM2513T-5G	21.69	234	93	575	14.1
20	1800	256T	EM2515T-5G	21.69	250	93	575	18.9
25	1800	284T	EM2531T-5G	25.06	327	93.6	575	24.5
30	1800	286T	EM2535T-5G	25.06	375	94.1	575	28
40	1800	324T	EM2539T-5G	27.19	378	94.1	575	40

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