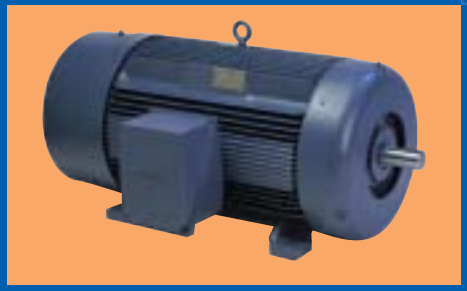
2004

Medallion™ AC Motors
Selection and Pricing Guide

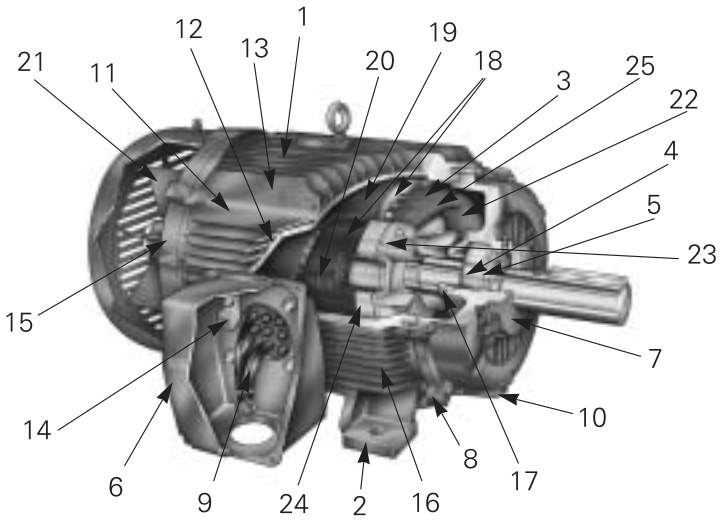
SIEMENS

Global network of innovation

Siemens Medallion™ Motors for Solutions to Your Application Problems



Severe Duty Motors



Siemens SEVERE DUTY motors are built to give our customers the best of both worlds—long dependable service and superior performance and efficiency. These motors are engineered and manufactured with the process industry user in mind—built to combat corrosive environments and extreme operating conditions. Standard features offered on SEVERE DUTY Motors include:

1. ALL CAST IRON CONSTRUCTION including frame, bearing and fan housings, and conduit box. Provides a rigid distortion-free support and superior corrosion resistance.

2. INTEGRALLY CAST FEET allow rigid mounting for less distortion and minimized vibration.

3. UNIQUE NON-HYGROSCOPIC INSULATION system is Class F with Class B rise to provide extra margin of thermal life, and allows maximum winding penetration to provide protection from moisture, corrosive environments and electrical shock. All motors suitable for operation on adjustable speed drives. Insulation system meets or exceeds NEMA MG1-2003, part 31.

4. SHIELDED BEARINGS are regreasable for quiet, long-lasting operation.

5. GENEROUS GREASE CAVITY to provide for continuous automatic bearing lubrication.

6. OVERSIZED CONDUIT BOX is larger than industry standard. Diagonally split, gasketed construction.

7. SHAFT SEAL prevents moisture and contaminants from entering motor enclosure.

8. ZINC PLATED HARDWARE, hex head screws, resist rust—can be easily removed after years of service.

9. NON-WICKING LEADS permanently marked with crimp-on connecting terminals and lead-separating gasket.

10. CORROSION RESISTANT BREATHER DRAIN, "T" design to guard against condensation build-up inside motor housing.

11. EPOXY ENAMEL PAINT resists corrosion in the most hostile environments.

12. INTERNAL EPOXY COATING to protect against corrosion within motor housing.

13. STAINLESS STEEL NAME-PLATE is corrosion resistant with easy to read motor information.

14. GROUND LUG supplied in conduit box for customer connection.

15. SPRING WASHER preloads bearings and limits shaft end play.

16. INCREASED FIN surface area provides excellent heat transfer for cooler operation.

17. CAST IRON inner bearing caps provide large grease reservoir and limit migration of grease into motor (RGZESD, RGZESDX, RGZEESD, RGZEESDX).

18. HIGH GRADE ELECTRICAL STEEL reduces magnetic losses.

19. LONGER CORE lowers flux density and increases cooling capacity reducing both magnetic and stray load losses.

20. THINNER LAMINATIONS reduce eddy currents, thus reducing magnetic losses.

21. IMPROVED FAN DESIGN reduces windage losses, improves air flow, and reduces noise.

22. INCREASED CONDUCTOR CROSS SECTION reduces resistance, lowering stator losses.

23. LARGER ROTOR BARS AND RINGS reduce resistance, lowering rotor losses.

24. SOLID CAST ROTOR dynamically balanced for smooth operation, reduced vibration, and less noise.

25. IEEE 841 MOTORS meet or exceed the requirements of IEEE-STD 841.

26. WARRANTY

- 18 Months on EPACT Efficiency
- 3 Years on High Efficiency
- 3 Years on NEMA Premium™
- 5 Years on IEEE 841

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Motor Selection Guide

EPACT Efficiency

High Efficiency

NEMA Premium™ Efficiency

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Typical Performance Data

Dimensions

IEC Metric Motors

Stock / Modifiable

RGE1 / RGE / RG*

EPACT Efficiency
Open Drip Proof

230/460 Volts
(575 Volts Available)

3 Phase-60 Hertz
40°C Ambient
Anti-friction
Horizontal
Foot Mounted
1.15 Service Factor

Multiplier Symbol SA-7ST

HP	RPM	Frame	RGE1 Cat. No.	RGE1 Part No.	RGE1 List $
1	1800	143T	EDF0196	51533426	224
	1200	145T	EDF0658	51533427	289
1.5	3600	143T	EDF0203	51533428	246
	1800	145T	EDF0665	51533429	246
	1200	182T	EDG1239	51533430	318
2	3600	145T	EDF0693	51533431	289
	1800	145T	EDF0679	51533432	271
	1200	184T	EDG1743	51533433	325
3	3600	145T	EDF0364	51533434	325
	1800	182T	EDG0966	51533435	282
	1200	213T	EDH2324	51533436	451
5	3600	182T	EDG0980	51533437	395
	1800	184T	EDG1470	51533438	355
	1200	215T	EDH2576	51533439	625
7.5	3600	184T	EDG1484	51533440	470
	1800	213T	EDH2009	51533441	514
	1200	254T	EDI3129	51533442	797
10	3600	213T	EDH2023	51533443	591
	1800	215T	EDH2583	51533446	601
	1200	256T	EDI3647	51533448	925
15	3600	215T	EDH2597	51533450	802
	1800	254T	EDI3136	51533451	792
	1200	284T	EDJ4151	51533452	1261
20	3600	254T	EDI3143	51533453	943
	1800	256T	EDI3661	51533454	986
	1200	286T	EDJ4648	51533455	1695
25	3600	256T	EDI3668	51533456	1150
	1800	284T	EDJ4172	51533457	1162
	1200	324T	EDK5117	51533458	1951
30	3600	284TS	EDJ4480	51533459	1307
	1800	286T	EDJ4662	51533460	1357
	1200	326T	EDK5565	51533461	1970
40	3600	286TS	EDJ4949	51533462	1778
	1800	324T	EDK5138	51533463	1692
	1200	364T	EDL5936	51533464	2790
50	3600	324TS	EDK5397	51533465	2155
	1800	326T	EDK5572	51533466	1941
	1200	365T	EDL6300	51533467	3511

General Notes:

- Standard voltage is 460 Volts only for motors 100 HP and larger.
- All 3600 RPM motors 25 HP and above are suitable for direct connect only.
- Motors are suitable for use on ASD per NEMA MG1 Part 31.

DOE# CC015A RGE1
DOE# CC032A RG/RGE

Stock / Modifiable

RGE1 / RGE / RG*

EPACT Efficiency
Open Drip Proof

230/460 Volts
(575 Volts Available)

3 Phase-60 Hertz
40°C Ambient
Anti-friction
Horizontal
Foot Mounted
1.15 Service Factor

Multiplier Symbol SA-7ST

			RGE1/RGE/RG		
HP	RPM	Frame	Cat. No.	Part No.	List $
60	3600	326TS	EDK5775	51533468	2582
	1800	364T	EDL5950	51533469	2380
	1200	404T	EDM6678	51533852	3742
75	3600	364TS	EDL6153	51533470	3260
	1800	365T	EDL6321	51533471	3027
	1200	405T	EDM0451	51533853	4498
100	3600	365TS	EDL6510	51533472	4482[1]
	1800	404T	EDM6685	51533854	3901[1]
	1800	404TS	EDM6797	51533855	3901[1]
	1200	444T	EDN7238	1RA04446DEC1	5699
	900	445T	—	—	7760
125	3600	404TS	EDM6818	51533856	5514[1]
	1800	405T	EDM6846	51533857	4487[1]
	1800	405TS	EDM7070	51533858	4487[1]
	1200	445T	EDN7546	1RA04456DEC1	6933
	900	447T	—	—	8573
150	3600	405TS	EDM7077	51533859	7131[1]
	1800	444TS	EDN7406	1RA04444DEC2	6451
	1200	445T	EDN0458	1RA04456DFC1	7636
	900	447T	—	—	9672[2]
200	3600	444TS	EDN7420	1RA04442DEG2	9377
	1800	445TS	EDN7714	1RA04454DEC2	7865[3]
	1200	447T	EDN7875	1RA04476DGC1	9975
	900	449T	— *	—	10355[2]
250	3600	445TS	HDN7728*	1RA04452DPG2	10032[1]
	1800	445TS	HDN8400*	1RA04454DRC2	8863[2,3]
	1200	449TS	HDN8568*	1RA04496DRC1	9810[2,3]
300	3600	447TS	HDN8624*	1RA04472DPG2	11781[1]
	1800	447TS	HDN2999	1RA04474DRC2	9832[2,3]
	1200	449T		—	11392[2]
350	3600	447TS	HDN8022*	1RA04472DXG2	13494[1]
	1800	447TS	—	—	11500[2]
400	3600	449TS	HDN8036*	1RA04492DPG2	15354[1,2]
	1800	449TS	—	—	14500[2]
450	3600	449TS	HDN8638*	1RA04492DXG2	15654[1,2]
500	3600	449TS	HDN8050*	1RA04492DYG2	17018[1,2]

Out of scope of EPAct regulations.

*Type RG (Not covered by EPACT)
[1] Wye Start - Delta Run
[2] Class F Insulation 1.15
[3] Part Winding Start

General Notes:

- Standard voltage is 460 Volts only for motors 100 HP and larger.
- All 3600 RPM motors 25 HP and above are suitable for direct connect only.
- 143T to 405T are type RGE1. 444 frames and larger are type RGE. (See * items for type RG.)
- 440T Frame long shaft motors have roller bearings. Ball bearing long shaft units are available as builds. Contact factory for non-listed 440 frame belt drive motors.
- Motors are suitable for use on ASD per NEMA MG1 Part 31.

DOE# CC015A RGE1
DOE# CC032A RG/RGE

Modifiable

RGE1

EPACT Efficiency
C-Flange
Open Drip Proof

230/460 Volts
(575 Volts Available)

3 Phase-60 Hertz
40°C Ambient
Anti-friction
Horizontal
Foot Mounted
1.15 Service Factor

Multiplier Symbol SA-7ST

HP	RPM	Frame	RGE1 C-Flange NEMA BA	RGE1 C-Flange Siemens BA	RGE1 C-Flange List $
1	1800	143TC	2.75	2.25	387
	1200	145TC	2.75	2.25	452
1.5	3600	143TC	2.75	2.25	409
	1800	145TC	2.75	2.25	409
	1200	182TC	3.5	2.75	504
2	3600	145TC	2.75	2.25	452
	1800	145TC	2.75	2.25	434
	1200	184TC	3.5	2.75	511
3	3600	145TC	2.75	2.25	488
	1800	182TC	3.5	2.75	468
	1200	213TC	4.25	3.5	637
5	3600	182TC	3.5	2.75	581
	1800	184TC	3.5	2.75	541
	1200	215TC	4.25	3.5	811
7.5	3600	184TC	3.5	2.75	656
	1800	213TC	4.25	3.5	700
	1200	254TC	4.75	4.25	1006
10	3600	213TC	4.25	3.5	777
	1800	215TC	4.25	3.5	787
	1200	256TC	4.75	4.25	1134
15	3600	215TC	4.25	3.5	988
	1800	254TC	4.75	4.25	1001
	1200	284TC	4.75	4.75	1511
20	3600	254TC	4.75	4.25	1152
	1800	256TC	4.75	4.25	1195
	1200	286TC	4.75	4.75	1945
25	3600	256TC	4.75	4.25	1359
	1800	284TC	4.75	4.75	1412
	1200	324TC	5.25	5.25	2277
30	3600	284TSC	4.75	4.75	1557
	1800	286TC	4.75	4.75	1607
	1200	326TC	5.25	5.25	2296
40	3600	286TSC	4.75	4.75	2028
	1800	324TC	5.25	5.25	2018
	1200	364TC	5.88	5.88	3209
50	3600	324TSC	5.25	5.25	2481
	1800	326TC	5.25	5.25	2267
	1200	365TC	5.88	5.88	3920
60	3600	326TSC	5.25	5.25	2908
	1800	364TC	5.88	5.88	2799
	1200	404TC	6.62	6.62	4330
75	3600	364TSC	5.88	5.88	3679
	1800	365TC	5.88	5.88	3446
	1200	405TC	6.62	6.62	5086
100	3600	365TSC	5.88	5.88	4901
	1800	404TC	6.62	6.62	4489
	1800	404TSC	6.62	6.62	4489
125	3600	404TSC	6.62	6.62	6102
	1800	405TC	6.62	6.62	5075
	1800	405TSC	6.62	6.62	5075

General Notes:

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DOE# CC015A RGE1
DOE# CC032A RG/RGE

Prices and data subject to change without notice.

Modifiable

RGE1

EPACT Efficiency
D-Flange
Open Drip Proof

230/460 Volts
(575 Volts Available)

3 Phase-60 Hertz
40°C Ambient
Anti-friction
Horizontal
Foot Mounted
1.15 Service Factor

Multiplier Symbol SA-7ST

HP	RPM	Frame	RGE1 D-Flange NEMA BA	RGE1 D-Flange Siemens BA	RGE1 D-Flange List $
1.5	1200	182TD	3.5	2.75	580
2	1200	184TD	3.5	2.75	587
3	1800	182TD	3.5	2.75	544
	1200	213TD	4.25	3.5	713
5	3600	182TD	3.5	2.75	657
	1800	184TD	3.5	2.75	617
	1200	215TD	4.25	3.5	887
7.5	3600	184TD	3.5	2.75	732
	1800	213TD	4.25	3.5	776
	1200	254TD	4.75	4.25	1105
10	3600	213TD	4.25	3.5	853
	1800	215TD	4.25	3.5	863
	1200	256TD	4.75	4.25	1233
15	3600	215TD	4.25	3.5	1064
	1800	254TD	4.75	4.25	1100
	1200	284TD	4.75	5.88	1651
20	3600	254TD	4.75	4.25	1251
	1800	256TD	4.75	4.25	1294
	1200	286TD	4.75	5.88	2085
25	3600	256TD	4.75	4.25	1458
	1800	284TD	4.75	5.88	1552
	1200	324TD	5.25	6.25	2493
30	3600	284TSD	4.75	5.88	1697
	1800	286TD	4.75	5.88	1747
	1200	326TD	5.25	6.25	2512
40	3600	286TSD	4.75	5.88	2168
	1800	324TD	5.25	6.25	2234
	1200	364TD	5.88	6.75	3518
50	3600	324TSD	5.25	6.25	2697
	1800	326TD	5.25	6.25	2483
	1200	365TD	5.88	6.75	4239
60	3600	326TSD	5.25	6.25	3124
	1800	364TD	5.88	6.75	3108
	1200	404TD	6.62	7.12	4808
75	3600	364TSD	5.88	6.75	3988
	1800	365TD	5.88	6.75	3755
	1200	405TD	6.62	7.12	5564
100	3600	365TSD	5.88	6.75	5210
	1800	404TD	6.62	7.12	4967
	1800	404TSD	6.62	7.12	4967
125	3600	404TSD	6.62	7.12	6580
	1800	405TD	6.62	7.12	5553
	1800	405TSD	6.62	7.12	5553
150	3600	405TSD	6.62	7.12	8197

General Notes:

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DOE# CC015A RGE1
DOE# CC032A RG/RGE

Prices and data subject to change without notice.

Stock / Modifiable

RGZP
EPACT Efficiency
Totally Enclosed
Fan Cooled

RGZPSD
EPACT Efficiency
Totally Enclosed
Fan Cooled
Severe Duty

230/460 Volts
(575 Volts Available)

3 Phase-60 Hertz
40°C Ambient
Anti-friction
Horizontal
Foot Mounted
1.15 Service Factor

General Notes:

- Standard voltage is 460 Volts only for motors 100 HP and larger.
- All 3600 RPM motors 25 HP and above are suitable for direct connect only.
- Motors are suitable for use on ASD per NEMA MG1 Part 31.

Multiplier Symbol SA-7ST SA-7SD

			RGZP			RGZPSD		
HP	RPM	Frame	Cat. No.	Part No.	List $	Cat. No.	Part No.	List $
1	3600	143T	ETF5904	1LA01432FP21	286	ESF6303	1LA01432SP21	350
	1800	143T	ETF5911	1LA01444FP21	286	ESF6310	1LA01444SP21	336
	1200	145T	ETF5918	1LA01456FP21	356	ESF6317	1LA01456SP21	418
	900	182T	ETG7332	1LA01828FP21	557	ESG6786	1LA01828SP21	655
1.5	3600	143T	ETF5925	1LA01442FP21	293	ESF6324	1LA01442SP21	355
	1800	145T	ETF5932	1LA01454FP21	315	ESF6331	1LA01454SP21	373
	1200	182T	ETG5939	1LA01826FP21	380	ESG6338	1LA01826SP21	464
	900	184T	ETG7339	1LA01848FP21	604	ESG6702	1LA01848SP21	737
2	3600	145T	ETF5946	1LA01452FP21	341	ESF6345	1LA01452SP21	422
	1800	145T	ETF5953	1LA01464FP21	342	ESF6352	1LA01464SP21	408
	1200	184T	ETG5930	1LA01846FP21	420	ESG6359	1LA01846SP21	517
	900	213T	ETH7346	1LA02138FP21	695	ESH6709	1LA02138SP21	856
3	3600	182T	ETG5967	1LA01822FP21	380	ESG6366	1LA01822SP21	474
	1800	182T	ETG5974	1LA01824FP21	393	ESG6373	1LA01824SP21	457
	1200	213T	ETH5981	1LA02136FP21	540	ESH6380	1LA02136SP21	640
	900	215T	ETH7353	1LA02158FP21	996	ESH6716	1LA02158SP21	1180
5	3600	184T	ETG5988	1LA01842FP21	495	ESG6387	1LA01842SP21	595
	1800	184T	ETG5995	1LA01844FP21	448	ESG6394	1LA01844SP21	531
	1200	215T	ETH6002	1LA02156FP21	805	ESH6401	1LA02156SP21	917
	900	254T	ETI7360	1LA02548FP21	1457	ESI6723	1LA02548SP21	1660
7.5	3600	213T	ETH6009	1LA02132FP21	647	ESH6408	1LA02132SP21	736
	1800	213T	ETH6016	1LA02134FP21	627	ESH6415	1LA02134SP21	726
	1200	254T	ETI6023	1LA02546FP21	1080	ESI6422	1LA02546SP21	1222
	900	256T	—	—	—	ESI6730	1LA02568SP21	1879
10	3600	215T	ETH6030	1LA02152FP21	763	ESH6429	1LA02152SP21	863
	1800	215T	ETH6037	1LA02154FP21	763	ESH6436	1LA02154SP21	877
	1200	256T	ETI6044	1LA02566FP21	1270	ESI6443	1LA02566SP21	1476
	900	284T	—	—	—	ESJ6737	1LA02848SP21	2225
15	3600	254T	ETI6051	1LA02542FP21	1047	ESI6450	1LA02542SP21	1185
	1800	254T	ETI6058	1LA02544FP21	1022	ESI6457	1LA02544SP21	1162
	1200	284T	ETJ6065	1LA02846FP21	1730	ESJ6464	1LA02846SP21	1974
	900	286T	—	—	—	ESJ6744	1LA02868SP21	3184
20	3600	256T	ETI6072	1LA02562FP21	1295	ESI6471	1LA02562SP21	1467
	1800	256T	ETI6079	1LA02564FP21	1230	ESI6478	1LA02564SP21	1433
	1200	286T	ETJ6086	1LA02866FP21	2070	ESJ6485	1LA02866SP21	2392
	900	324T	—	—	—	ESK6751	1LA03248SP21	3830
25	3600	284TS	ETJ6093	1LA02842FP22	1574	ESJ6492	1LA02842SP22	1800
	1800	284T	ETJ6100	1LA02844FP21	1502	ESJ6499	1LA02844SP21	1719
	1200	324T	ETK6107	1LA03246FP21	2480	ESK6506	1LA03246SP21	2890
30	3600	286TS	ETJ6114	1LA02862FP22	1861	ESJ6513	1LA02862SP22	2110
	1800	286T	ETJ6121	1LA02864FP21	1770	ESJ6520	1LA02864SP21	2006
	1200	326T	ETK6128	1LA03266FP21	3100	ESK6527	1LA03266SP21	3410
40	3600	324TS	ETK6135	1LA03242FP22	2412	ESK6534	1LA03242SP22	2769
	1800	324T	ETK6142	1LA03244FP21	2330	ESK6541	1LA03244SP21	2658
	1200	364T	ETL6149	1LA03646FP21	4105	ESL6548	1LA03646SP21	4590
50	3600	326TS	ETK6156	1LA03262FP22	3060	ESK6555	1LA03262SP22	3562
	1800	326T	ETK6163	1LA03264FP21	2860	ESK6562	1LA03264SP21	3264
	1200	365T	ETL6170	1LA03656FP21	4778	ESL6569	1LA03656SP21	5290

DOE# CC032A

Prices and data subject to change without notice.

Stock / Modifiable

RGZP
EPACT Efficiency
Totally Enclosed
Fan Cooled

RGZPSD
EPACT Efficiency
Totally Enclosed
Fan Cooled
Severe Duty

230/460 Volts
(575 Volts Available)

3 Phase-60 Hertz
40°C Ambient
Anti-friction
Horizontal
Foot Mounted
1.15 Service Factor

Multiplier Symbol SA-7ST SA-7SD

HP	RPM	Frame	RGZP Cat. No.	RGZP Part No.	RGZP List $	RGZPSD Cat. No.	RGZPSD Part No.	RGZPSD List $
60	3600	364TS	ETL6177	1LA03642FP22	4227	ESL6576	1LA03642SP22	4754
	1800	364T	ETL6184	1LA03644FP21	4284	ESL6583	1LA03644SP21	4744
	1200	404T	ETM6191	1LA04046FP21	5690	ESM6590	1LA04046SP21	6231
75	3600	365TS	ETL6198	1LA03652FP22	5324	ESL6597	1LA03652SP22	5974
	1800	365T	ETL6205	1LA03654FP21	5490	ESL6604	1LA03654SP21	6033
	1200	405T	ETM6212	1LA04056FP21	6730	ESM6611	1LA04056SP21	7346
100	3600	405TS	ETM6219	1LA04052FP42	7115	ESM6618	1LA04052SP42	7999
	1800	405T	ETM6226	1LA04054FP41	6725	ESM6625	1LA04054SP41	7435
	1800	405TS	ETMT290	1LA04054FP42	6725	ESM7297	1LA04054SP42	7435
	1200	444TS	ETN6233	1LA04446FP42	9250	ESN6632	1LA04446SP42	10058
125	3600	444TS	ETN6240	1LA04442FP42	9732	ESN6639	1LA04442SP42	10600
	1800	444TS	ETN6247	1LA04444FP42	9060	ESN6646	1LA04444SP42	9857
	1200	445TS	ETN6254	1LA04456FP42	11056	ESN6653	1LA04456SP42	12252
150	3600	445TS	ETN6261	1LA04452FP42	12005	ESN6660	1LA04452SP42	12840
	1800	445TS	ETN6268	1LA04454FP42	10700	ESN6667	1LA04454SP42	11515
	1200	447TS	ETN6275	1LA04476FP42	12800	ESN6674	1LA04476SP42	13851
200	3600	447TS	ETN6282	1LA04472FP42	15245	ESN6681	1LA04472SP42	16261
	1800	447TS	ETN6289	1LA04474FP42	13175	ESN6688	1LA04474SP42	14059
	1200	449TS	ETN6296	1LA04496FP42	16000	ESN6695	1LA04496SP42	17067

General Notes:

- Standard voltage is 460 Volts only for motors 100 HP and larger.
- All 3600 RPM motors 25 HP and above are suitable for direct connect only.
- For 440T frame motors suitable for belted applications see page 24.
- Motors are suitable for use on ASD per NEMA MG1 Part 31.

DOE# CC032A

Prices and data subject to change without notice.

Stock / Modifiable

RGZPF

EPACT Efficiency
Totally Enclosed
Fan Cooled
Foot Mounted, C-Flange

230/460 Volts
(575 Volts Available)

3 Phase-60 Hertz
40°C Ambient
Anti-friction
Horizontal
1.15 Service Factor

Multiplier Symbol SA-7STD

HP	RPM	Frame	RGZPF Cat. No.	Part No.	List $
1	3600	143TC	FTF5904	1LA01432FP27	339
	1800	143TC	FTF5911	1LA01444FP27	339
	1200	145TC	FTF5918	1LA01456FP27	406
1.5	3600	143TC	FTF5925	1LA01442FP27	346
	1800	145TC	FTF5932	1LA01454FP27	368
	1200	182TC	FTG5939	1LA01826FP27	456
2	3600	145TC	FTF5946	1LA01452FP27	394
	1800	145TC	FTF5953	1LA01464FP27	395
	1200	184TC	FTG5930	1LA01846FP27	496
3	3600	182TC	FTG5967	1LA01822FP27	456
	1800	182TC	FTG5974	1LA01824FP27	469
	1200	213TC	FTH5981	1LA02136FP27	616
5	3600	184TC	FTG5988	1LA01842FP27	571
	1800	184TC	FTG5995	1LA01844FP27	524
	1200	215TC	FTH6002	1LA02156FP27	881
7.5	3600	213TC	FTH6009	1LA02132FP27	723
	1800	213TC	FTH6016	1LA02134FP27	703
	1200	254TC	FTI6023	1LA02546FP27	1179
10	3600	215TC	FTH6030	1LA02152FP27	839
	1800	215TC	FTH6037	1LA02154FP27	839
	1200	256TC	FTI6044	1LA02566FP27	1369
15	3600	254TC	FTI6051	1LA02542FP27	1146
	1800	254TC	FTI6058	1LA02544FP27	1121
	1200	284TC	FTJ6065	1LA02846FP27	1870
20	3600	256TC	FTI6072	1LA02562FP27	1394
	1800	256TC	FTI6079	1LA02564FP27	1329
	1200	286TC	FTJ6086	1LA02866FP27	2210

General Notes:

- Non-standard NEMA BA dimension for 140 - 250 frames.
- Motors are suitable for use on ASD per NEMA MG1 Part 31.

Stock / Modifiable

RGZPV

EPACT Efficiency
Totally Enclosed
Fan Cooled
Round Body, C-Flange

230/460 Volts
(575 Volts Available)

3 Phase-60 Hertz
40°C Ambient
Anti-friction
1.15 Service Factor

Multiplier Symbol SA-7STD

HP	RPM	Frame	RGZPV Cat. No.	Part No.	List $
1	3600	143TCV	VTF5904	1LA01432FP23	445
	1800	143TCV	VTF5911	1LA01444FP23	445
	1200	145TCV	VTF5918	1LA01456FP23	515
1.5	3600	143TCV	VTF5925	1LA01442FP23	452
	1800	145TCV	VTF5932	1LA01454FP23	474
	1200	182TCV	VTG5939	1LA01826FP23	539
2	3600	145TCV	VTF5946	1LA01452FP23	500
	1800	145TCV	VTF5953	1LA01464FP23	501
	1200	184TCV	VTG5930	1LA01846FP23	579
3	3600	182TCV	VTG5967	1LA01822FP23	539
	1800	182TCV	VTG5974	1LA01824FP23	552
	1200	213TCV	VTH5981	1LA02136FP23	699
5	3600	184TCV	VTG5988	1LA01842FP23	654
	1800	184TCV	VTG5995	1LA01844FP23	607
	1200	215TCV	VTH6002	1LA02156FP23	964
7.5	3600	213TCV	VTH6009	1LA02132FP23	806
	1800	213TCV	VTH6016	1LA02134FP23	786
	1200	254TCV	VTI6023	1LA02546FP23	1293
10	3600	215TCV	VTH6030	1LA02152FP23	922
	1800	215TCV	VTH6037	1LA02154FP23	922
	1200	256TCV	VTI6044	1LA02566FP23	1483
15	3600	254TCV	VTI6051	1LA02542FP23	1260
	1800	254TCV	VTI6058	1LA02544FP23	1235
	1200	284TCV	VTJ6065	1LA02846FP23	2048
20	3600	256TCV	VTI6072	1LA02562FP23	1508
	1800	256TCV	VTI6079	1LA02564FP23	1443
	1200	286TCV	VTJ6086	1LA02866FP23	2388

*Indicates non-stock item build unit.

General Notes:

- Contact factory for additional ratings.
- Motors are suitable for use on ASD per NEMA MG1 Part 31.

Stock / Modifiable

RGZP

EPACT Efficiency
Totally Enclosed
Fan Cooled

575 Volts

3 Phase-60 Hertz
40°C Ambient
Anti-friction
Horizontal
Foot Mounted
1.15 Service Factor

Multiplier Symbol SA-7ST

HP	RPM	Frame	RGZP Cat. No.	RGZP Part No.	RGZP List $
1	3600	143T	ETF6793	1LA01432FP51	286
	1800	143T	ETF6800	1LA01444FP51	286
	1200	145T	ETF6807	1LA01456FP51	356
1.5	3600	143T	ETF6814	1LA01442FP51	293
	1800	145T	ETF6821	1LA01454FP51	315
	1200	182T	ETG6828	1LA01826FP51	380
	900	184T	—	—	—
2	3600	145T	ETF6835	1LA01452FP51	341
	1800	145T	ETF6842	1LA01464FP51	342
	1200	184T	ETF6849	1LA01846FP51	420
	900	213T	—	—	—
3	3600	182T	ETG6856	1LA01822FP51	380
	1800	182T	ETG6863	1LA01824FP51	393
	1200	213T	ETH6870	1LA02136FP51	540
	900	215T	—	—	—
5	3600	184T	ETG6877	1LA01842FP51	495
	1800	184T	ETG6884	1LA01844FP51	448
	1200	215T	ETH6891	1LA02156FP51	805
	900	254T	—	—	—
7.5	3600	213T	ETH6898	1LA02132FP51	647
	1800	213T	ETH6905	1LA02134FP51	627
	1200	254T	ETI6912	1LA02546FP51	1080
	900	256T	—	—	—
10	3600	215T	ETH6919	1LA02152FP51	763
	1800	215T	ETH6926	1LA02154FP51	763
	1200	256T	ETI6933	1LA02566FP51	1270
	900	284T	—	—	—
15	3600	254T	ETI6940	1LA02542FP51	1047
	1800	254T	ETI6947	1LA02544FP51	1022
	1200	284T	ETJ6954	1LA02846FP51	1730
	900	286T	—	—	—
20	3600	256T	ETI6961	1LA02562FP51	1295
	1800	256T	ETI6968	1LA02564FP51	1230
	1200	286T	ETJ6975	1LA02866FP51	2070
	900	324T	—	—	—
25	3600	284TS	ETJ6982	1LA02842FP52	1574
	1800	284T	ETJ6989	1LA02844FP51	1502
	1200	324T	ETK6996	1LA03246FP51	2480
	900	326T	—	—	—
30	3600	286TS	ETJ7003	1LA02862FP52	1861
	1800	286T	ETJ7010	1LA02864FP51	1770
	1200	326T	ETK7017	1LA03266FP51	3100
	900	364T	—	—	—
40	3600	324TS	ETK7024	1LA03242FP52	2412
	1800	324T	ETK7031	1LA03244FP51	2330
	1200	364T	ETL7038	1LA03646FP51	4105
	900	365T	—	—	—
50	3600	326TS	ETK7045	1LA03262FP52	3060
	1800	326T	ETK7052	1LA03264FP51	2860
	1200	365T	ETL7059	1LA03656FP51	4778
	900	404T	—	—	—

General Notes:

- All 3600 RPM motors 25 HP and above are suitable for direct connect only.
- Motors are suitable for use on ASD per NEMA MG1 Part 31 for 60 Hz and below variable torque or 60-15 Hz constant torque applications

Prices and data subject to change without notice.

Stock / Modifiable

RGZP

EPACT Efficiency
Totally Enclosed
Fan Cooled

575 Volts

3 Phase-60 Hertz
40°C Ambient
Anti-friction
Horizontal
Foot Mounted
1.15 Service Factor

Multiplier Symbol SA-7ST

HP	RPM	Frame	RGZP Cat. No.	RGZP Part No.	RGZP List $
60	3600	364TS	ETL7066	1LA03642FP52	4227
	1800	364T	ETL7073	1LA03644FP51	4284
	1200	404T	ETM7080	1LA04046FP51	5690
	900	405T	—	—	—
75	3600	365TS	ETL7087	1LA03652FP52	5324
	1800	365T	ETL7094	1LA03654FP51	5490
	1200	405T	ETM7101	1LA04056FP51	6730
	900	444T	—	—	—
100	3600	405TS	ETM7108	1LA04052FP52	7115
	1800	405T	ETM7115	1LA04054FP51	6725
	1200	444T	ETN7122	1LA04446FP51	9250
	900	445T	—	—	—
125	3600	444TS	ETN7129	1LA04442FP52	9732
	1800	444TS	—	—	9060*
	1800	444T	ETN7136	1LA04444FP51	9060
	1200	445T	ETN7143	1LA04456FP51	11056
	900	447T	—	—	—
150	3600	445TS	ETN7150	1LA04452FP52	12005
	1800	445TS	—	—	10700*
	1800	445T	ETN7157	1LA04454FP51	10700
	1200	447T	ETN7164	1LA04476FP51	12800
	900	447T	—	—	—
200	3600	447TS	ETN7171	1LA04472FP52	15254
	1800	447TS	—	—	13175*
	1800	447T	ETN7178	1LA04474FP51	13175
	1200	449T	ETN7185	1LA04496FP51	16000
	900	449T	—	—	—
250	1800	449T	—	—	—
	1200	449T	—	—	—

*Indicates non-stock item build units.

General Notes:

- All 3600 RPM motors 25 HP and above are suitable for direct connect only.
- Motors are suitable for use on ASD per NEMA MG1 Part 31 for 60 Hz and below variable torque or 60-15 Hz constant torque applications

Prices and data subject to change without notice.

Belt Drive Long Shaft

RGZP
EPACT Efficiency
Totally Enclosed
Fan Cooled

RGZPSD
EPACT Efficiency
Totally Enclosed
Fan Cooled
Severe Duty

230/460 Volts
(575 Volts Available)

3 Phase-60 Hertz
40°C Ambient
Anti-friction
Horizontal
Foot Mounted
1.15 Service Mounted

Multiplier Symbol — SA-7ST

Belt Drive Long Shaft			Narrow V[1] Min.	Standard V[2] Min.	RGZP		
HP	RPM	Frame	Dia.	Dia.	Cat. No.	Part No.	List $
60	1800	364T	7.4	7.4	ETL6184	1LA03644FP21	4284
	1200	404T	8.0	9.0	ETM6191	1LA04046FP21	5690
75	1800	365T	8.6	9.0	ETL6205	1LA03654FP21	5490
	1200	405T	10.0	10.0	ETM6611	1LA04056FP21	6730
100	1800	405T	8.6	10.0	ETM6226	1LA04054FP41	6725
	1200	444T	10.0	11.8	ETN7304	1LA04446FP41	9250
125	1800	444T	10.5	12.0	ETN7262	1LA04444FP41	9060
	1200	445T	12.4	15.2	ETN7276	1LA04456FP41	11056
150	1800	445T	10.5	13.2	ETN7220	1LA04454FP41	10700
	1200	447T	11.6	16.1	ETN7234	1LA04476FP41	12800
200	1800	447T	13.2	15.8	ETN7192	1LA04474FP41	13175
	1200	449T	14.6	25.0	ETN7206	1LA04496FP41	16000

[1] Example: 3V, 5V, 8V. Sheave face cannot overhang end of shaft.
[2] Example: A, B, C, D section. Center of sheave width cannot overhang end of shaft.

Multiplier Symbol — SA-7SD

Belt Drive Long Shaft			Narrow V[1] Min.	Standard V[2] Min.	RGZPSD		
HP	RPM	Frame	Dia.	Dia.	Cat. No.	Part No.	List $
60	1800	364T	7.4	7.4	ESL6583	1LA03644SP21	4744
	1200	404T	8.0	9.0	ESM6590	1LA04046SP21	6231
75	1800	365T	8.6	9.0	ESL6604	1LA03654SP21	6033
	1200	405T	10.0	10.0	ESM661	1LA04056SP21	7346
100	1800	405T	8.6	10.0	ESM6625	1LA04054SP41	7435
	1200	444T	10.0	11.8	ESN7311	1LA04446SP41	10058
125	1800	444T	10.5	12.0	ESN7269	1LA04444SP41	9857
	1200	445T	12.4	15.2	ESN7283	1LA04456SP41	12252
150	1800	445T	10.5	13.2	ESN7241	1LA04454SP41	11515
	1200	447T	11.6	16.1	ESN7248	1LA04476SP41	13851
200	1800	447T	13.2	15.8	ESN7199	1LA04474SP41	14059
	1200	449T	14.6	25.0	ESN7213	1LA04496SP41	17067

[1] Example: 3V, 5V, 8V. Sheave face cannot overhang end of shaft.
[2] Example: A, B, C, D section. Center of sheave width cannot overhang end of shaft.

General Notes:

- Standard voltage is 460 volts only for motors 100 HP and larger.
- Do not exceed belt service factor of 1.6. Follow manufacturer's instructions for alignment and belt tensioning. Position sheaves as close to the drive end bearing as possible. (Maximum 1/2" from shaft shoulder).
- Maximum speed reduction of 5:1.
- Shaft center distance approximately equal to diameter of largest sheave.
- All dimensions in inches.
- 440T frame and above are standard stock with roller bearings. 400T frames are ball bearings. **Note** for special roller bearing designs contact factory.

RGZESD

High Efficiency
Totally Enclosed
Fan Cooled
Severe Duty

200 Volts

3 Phase-60 Hertz
40°C Ambient
Anti-friction
Horizontal
Foot Mounted
1.15 Service Factor

Multiplier Symbol SA-7XSD

			RGZESD		
HP	RPM	Frame	Cat. No.	Part No.	List $
1	1800	143T	HPF4826	1LA91444YK40	362
1.5	1800	145T	HPF4854	1LA91454YK40	402
2	1800	145T	HPF4882	1LA91464YK40	442
3	1800	182T	HPG4910	1LA91824YK40	490
5	1800	184T	HPG4938	1LA91844YK40	573
7.5	1800	213T	HPH4966	1LA92134YK40	776
10	1800	215T	HPH4994	1LA92154YK40	935
15	1800	254T	HPI5015	1LA92544YK40	1232
20	1800	256T	HPI5029	1LA92564YK40	1535

General Notes:
- Contact factory for additional ratings available.

RGZESD

High Efficiency
Totally Enclosed
Fan Cooled
Severe Duty

230/460 Volts
(575 Volts Available)

3 Phase-60 Hertz
40°C Ambient
Anti-friction
Horizontal
1.15 Service Factor

Multiplier Symbol SA-7XSD

HP	RPM	Frame	RGZESD Cat. No.	RGZESD Part No.	RGZESD List $
1	1800	143T	HPF0063	1LA91444YK60	362
	1200	145T	HPF0448	1LA91456YK60	449
	900	182T	HPG1043	1LA91828YK60	742
1.5	3600	143T	HPF0077	1LA91442YK60	387
	1800	145T	HPF0469	1LA91454YK60	402
	1200	182T	HPG1050	1LA91826YK60	507
	900	184T	HPG1568	1LA91848YK60	875
2	3600	145T	HPF0497	1LA91452YK60	463
	1800	145T	HPF0483	1LA91464YK60	442
	1200	184T	HPG1575	1LA91846YK60	566
	900	213T	HPH2128	1LA92138YK60	1047
3	3600	182T	HPG1078	1LA91822YK60	522
	1800	182T	HPG1064	1LA91824YK60	490
	1200	213T	HPH2142	1LA92136YK60	691
	900	215T	HPH2709	1LA92158YK60	1306
5	3600	184T	HPG1603	1LA91842YK60	646
	1800	184T	HPG1589	1LA91844YK60	573
	1200	215T	HPH2716	1LA92156YK60	973
	900	254T	HPI3227	1LA92548YK60	1735
7.5	3600	213T	HPH2177	1LA92132YK60	781
	1800	213T	HPH2163	1LA92134YK60	776
	1200	254T	HPI3234	1LA92546YK60	1293
	900	256T	HPI3759	1LA92568YK60	2190
10	3600	215T	HPH2744	1LA92152YK60	913
	1800	215T	HPH2730	1LA92154YK60	935
	1200	256T	HPI3766	1LA92566YK60	1580
	900	284T	HPJ4235	1LA02848SE21	2557
15	3600	254T	HPI3269	1LA92542YK60	1254
	1800	254T	HPI3255	1LA92544YK60	1232
	1200	284T	HPJ4242	1LA02846SE21	2096
	900	286T	HPJ4711	1LA02868SE21	3328
20	3600	256T	HPI3794	1LA92562YK60	1553
	1800	256T	HPI3780	1LA92564YK60	1535
	1200	286T	HPJ4718	1LA02866SE21	2554
	900	324T	HPK0318	1LA03248SE21	4068
25	3600	284TS	HPJ4522	1LA02842SE42	1914
	1800	284T	HPJ4256	1LA02844SE41	1828
	1800	284TS	HPJ4508	1LA02844SE42	1828
	1200	324T	HPK5208	1LA03246SE41	3096
	900	326T	HPK0325	1LA03268SE41	4730
30	3600	286TS	HPJ4991	1LA02862SE42	2235
	1800	286T	HPJ4732	1LA02864SE41	2125
	1200	326T	HPK5628	1LA03266SE41	3566
	900	364T	HPL0332	1LA03648SE41	5598
40	3600	324TS	HPK5439	1LA03242SE42	2948
	1800	324T	HPK5222	1LA03244SE41	2823
	1800	324TS	HPK5425	1LA03244SE42	2823
	1200	364T	HPL6006	1LA03646SE41	4833
	900	365T	HPL0339	1LA03658SE41	6769

General Notes:

- Standard voltage is 460 volts only for motors 25 HP and larger.
- Frames 284T and larger are available in long or short shaft. TS indicates direct connection only.
- All 3600 RPM motors 25 HP and above suitable for direct connection only.
- Motors are suitable for use on ASD per NEMA MG1 Part 31 for 60 Hz and below variable torque or 60-15hz constant torque applications.

DOE# CC032A

RGZESD

High Efficiency
Totally Enclosed
Fan Cooled
Severe Duty

230/460 Volts
(575 Volts Available)

3 Phase-60 Hertz
40°C Ambient
Anti-friction
Horizontal
1.15 Service Factor

Multiplier Symbol SA-7XSD

HP	RPM	Frame	RGZESD Cat. No.	RGZESD Part No.	RGZESD List $
	3600	326TS	HPK5817	1LA03262SE42	3814
	1800	326T	HPK5642	1LA03264SE41	3467
50	1800	326TS	HPK5803	1LA03264SE42	3467
	1200	365T	HPL6363	1LA03656SE41	5549
	900	404T	HPM0409	1LA04048SE41	8088
	3600	364TS	HPL6195	1LA03642SE42	5017
	1800	364T	HPL6020	1LA03644SE41	4974
60	1800	364TS	HPL6181	1LA03644SE42	4974
	1200	404T	HPM6713	1LA04046SE41	6502
	900	405T	HPM0416	1LA04058SE41	9239
	720	445T	—	—	16035*
	3600	365TS	HPL6559	1LA03652SE42	6300
	1800	365T	HPL6377	1LA03654SE41	6305
75	1800	365TS	HPL6545	1LA03654SE42	6305
	1200	405T	HPM6888	1LA04056SE41	7655
	900	444T	HPN0423	1LA04448SE41	12175
	720	445T	—	—	17014*
	3600	405TS	HPM7112	1LA04052SE42	8442
	1800	405TS	HPM7098	1LA04054SE42	7790
	1800	405T	HPM6902	1LA04054SE41	7790
100	1200	B444T	HBN4525	1LA04446SE4N	10462
	1200	444TS	HPN4945	1LA04446SE42	10462
	1200	444T	HPN7273	1LA04446SE41	10462
	900	445T	HPN0430	1LA04458SE41	15053
	720	447T	—	—	21107*
	3600	444TS	HPN7448	1LA04442SE42	11035
	1800	444TS	HPN7441	1LA04444SE42	10255
	1800	B444T	HBN4490	1LA04444SE4N	10255
125	1800	444T	HPN7280	1LA04444SE41	10255
	1200	B445T	HBN4532	1LA04456SE4N	12850
	1200	445TS	HPN4602	1LA04456SE42	12850
	1200	445T	HPN7609	1LA04456SE41	12850
	900	447T	HPN0437	1LA04478SE41	16040
	720	449T	—	—	23907*
	3600	445TS	HPN7770	1LA04452SE42	13257
	1800	445TS	HPN7763	1LA04454SE42	11922
	1800	B445T	HBN4497	1LA04454SE4N	11922
150	1800	445T	HPN7616	1LA04454SE41	11922
	1200	B447T	HBN4539	1LA04476SE4N	14377
	1200	447TS	HPN4609	1LA04476SE42	14377
	1200	447T	HPN7917	1LA04476SE41	14377
	900	447T	HPN0444	1LA04478HE41	20400
	720	449T	—	—	25655*
	3600	447TS	HPN8078	1LA04472SE42	16770
	1800	B447T	HBN4504	1LA04474SE4N	14501
	1800	447TS	HPN8071	1LA04474SE42	14501
200	1800	447T	HPN7924	1LA04474SE41	14501
	1200	B449T	HBN4546	1LA04496SE4N	17600
	1200	449TS	HPN7381	1LA04496SE42	17600
	1200	449T	HPN8190	1LA04496SE41	17600
	900	449T	HPN8197	1LA04498SE41	20700

*Indicates non-stock item build unit.

General Notes:

- Standard voltage is 460 volts only for motors 25 HP and larger.
- Frames 284T and larger are available in long or short shaft. TS indicates direct connection only.
- All 3600 RPM motors 25 HP and above suitable for direct connection only.
- 440T frame long shaft motors have roller bearings.
- B440T frame long shaft motors have ball bearings for direct connection.
- Motors are suitable for use on ASD per NEMA MG1 Part 31 for 60 Hz and below variable torque or 60-15 Hz constant torque applications.

DOE# CC032A

RGZESD

High Efficiency
Totally Enclosed
Fan Cooled
Severe Duty

230/460 Volts
(575 Volts Available)

3 Phase-60 Hertz
40°C Ambient
Anti-friction
Horizontal
1.15 Service Factor

Multiplier Symbol SA-7XSD

			RGZESD		
HP	RPM	Frame	Cat. No.	Part No.	List $
250	3600	449TS	HPN8309	1LA04492SE42	21150
	1800	449TS	HPN8302	1LA04494SE42	18192
	1800	B449T	HBN4511	1LA04494SE4N	18192
	1800	449T	HPN8211	1LA04494SE41	18192
	1200	B449T	HBN4553	1LA04496HE4N	19152
	1200	449TS	HPN4623	1LA04496HE42	19152
	1200	449T	HPN8204	1LA04496HE41	19152
	900	S449LS	HPQ4588	1LA02508HG41	29500
300	3600	449TS	HPN1508	1LA04492HE42	26319
	1800	449TS	HPN3125	1LA04494HE42	19288
	1800	449T	HPN8218	1LA04494HE41	19288
	1800	B449T	HBN4518	1LA04494HE4N	19288
	1200	S449LS	HPN3013	1LA03006HG41	35702
350	3600	S449SS	HPN3160	1LA03502HG42	33060 [1]
	1800	S449SS	HPN3034	1LA03504HG42	30612
	1800	S449LS	HPN3041	1LA03504HG41	30612
	1200	S449LS	HPN3440	1LA03506HG41	40642
400	3600	S449SS	HPN3167	1LA04002HG42	37105 [1]
	1800	S449SS	HPN3020	1LA04004HG42	34365
	1800	S449LS	HPN3027	1LA04004HG41	34365
	1200	S449SS[2]	—	—	43080*

*Indicates non-stock item build unit.

[1]CW rotation facing opposite drive end.

[2]1.0.S.F. only, NEMA Des A

General Notes:

- Standard voltage is 460 volts only for motors 25 HP and larger.
- Frames 284T and larger are available in long or short shaft. TS indicates direct connection only.
- All 3600 RPM motors 25 HP and above suitable for direct connection only.
- 440T frame long shaft motors have roller bearings.
- B440T frame long shaft motors have ball bearings for direct connection.
- Motors are suitable for use on ASD per NEMA MG1 Part 31 for 60 Hz and below variable torque or 60-15 Hz constant torque applications.

DOE# CC032A

RGZESD

High Efficiency
Totally Enclosed
Fan Cooled
Multi-Speed
1 Winding
Variable Torque
Severe Duty

460 Volts (575 Volts Available)

3-Phase-60 Hertz
40°C Ambient
Anti-friction
Horizontal
Foot Mounted
1.15 Service Factor

General Notes:

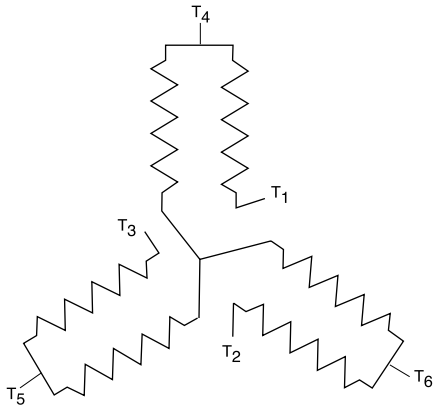
- Standard voltage is 460 Volts only.
- Available in RGZZESD designs. Contact factory for pricing.

Multiplier Symbol SA-7MM

HP Continuous High	HP Continuous Low	RPM	Frame	RGZESD Cat. No.	Part No.	List $
1.0	0.25	1800/900	143T	HPF3174	1LA91431YK701VT	521
1.5	0.37	1800/900	145T	HPF3181	1LA91451YK701VT	559
2.0	0.5	1800/900	182T	HPG3188	1LA91821YK701VT	641
3.0	0.75	1800/900	184T	HPG3195	1LA91841YK701VT	711
5.0	1.2	1800/900	213T	HPH3202	1LA92131YK701VT	831
7.5	1.9	1800/900	215T	HPH3209	1LA92151YK701VT	1125
10.0	2.5	1800/900	254T	HPI3216	1LA92541YK701VT	1356
15.0	3.7	1800/900	256T	HPI3223	1LA92561YK701VT	1786
20.0	5.0	1800/900	284T	HSJ8449	1LA02845SE41	2226
25.0	6.2	1800/900	286T	HSJ8470	1LA02865SE41	2643
30.0	7.5	1800/900	324T	HSK8463	1LA03245SE41	3081
40.0	10.0	1800/900	326T	HSK8556	1LA03265SE41	4093
50.0	12.0	1800/900	364T	HSL6048	1LA03645SE41	5027
60.0	15.0	1800/900	365T	HSL9079	1LA03655SE41	7212
75.0	19.0	1800/900	405T	HPM5190	1LA04055SE41	9142
100.0	25.0	1800/900	444TS	—	—	10331 *
125.0	31.0	1800/900	445TS	—	—	13162 *
150.0	37.0	1800/900	447TS	—	—	15887 *
200.0	50.0	1800/900	449TS	—	—	19103 *
250.0	62.5	1800/900	449TS	—	—	26378 *

* Indicates non-stock item build units.
[1]Build units non-stock

SPEEDS	LINES L1	L2	L3		CONN.
LOW SPEED	T_1	T_2	T_3	T_4 T_5 T_6 OPEN	Y
HIGH SPEED	T_6	T_4	T_5	T_1 T_2 T_3 TOGETHER	YY



Prices and data subject to change without notice.

RGZESD

High Efficiency
Totally Enclosed
Fan Cooled
Multi-Speed
1 Winding
Constant Torque
Severe Duty

460 Volts (575 Volts Available)

3 Phase-60 Hertz
40°C Ambient
Anti-friction
Horizontal
Foot Mounted
1.15 Service Factor

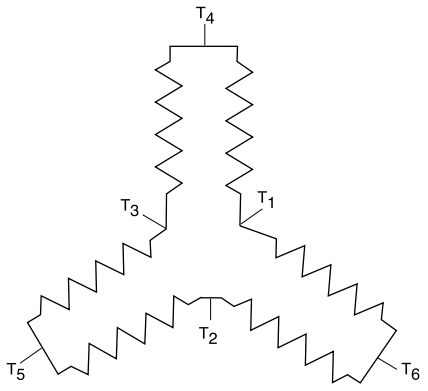
General Notes:

- Standard voltage is 460 Volts only.
- Available in RGZZESD designs. Contact factory for pricing.
- 440T frames are supplied with roller bearings. Ball bearing long shaft units are available as build units.

Multiplier Symbol — SA-7MM

HP Continuous				RGZESD	
High	Low	RPM	Frame	Cat. No.	List $
1.0	.5	1800/900	145T	—	489
1.5	.75	1800/900	182T	—	538
2.0	1.0	1800/900	182T	—	604
3.0	1.5	1800/900	184T	—	668
5.0	2.5	1800/900	213T	—	779
7.5	3.7	1800/900	215T	—	1087
10.0	5.0	1800/900	254T	—	1379
15.0	7.5	1800/900	256T	—	1758
20.0	10.0	1800/900	284T	—	2263
25.0	12.5	1800/900	286T	—	2682
30.0	15.0	1800/900	324T	—	3274
40.0	20.0	1800/900	326T	—	4171
50.0	25.0	1800/900	364T	—	5368
60.0	30.0	1800/900	365T	—	7688
75.0	37.5	1800/900	405T	—	10171
100.0	50.0	1800/900	444T	—	12351
125.0	62.5	1800/900	445T	—	13578
150.0	75.0	1800/900	447T	—	19056
200.0	100.0	1800/900	449T	—	22939

SPEEDS	LINES				CONN.
	L1	L2	L3		
LOW SPEED	T_1	T_2	T_3	T_4 T_5 T_6 OPEN	Δ
HIGH SPEED	T_6	T_4	T_5	T_1 T_2 T_3 TOGETHER	YY



RGZESD

High Efficiency
Totally Enclosed
Fan Cooled
Multi-Speed
2 Winding
Variable Torque
Severe Duty

460 Volts (575 Volts Available)

3 Phase-60 Hertz
40°C Ambient
Anti-friction
Horizontal
Foot Mounted
1.15 Service Factor

General Notes:

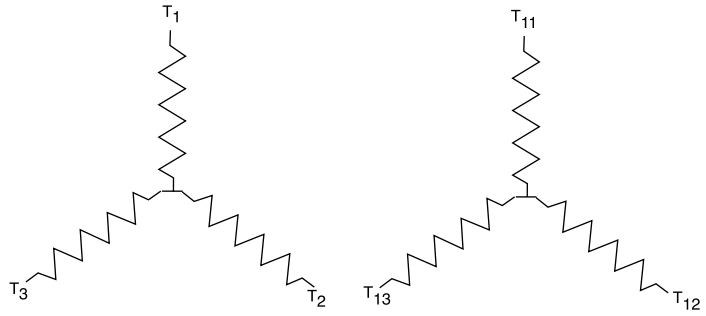
- Available in RGZZESD designs. Contact factory for pricing.
- 440 frames are supplied with roller bearings. Ball bearing long shaft units are available as build units.

Multiplier Symbol — SA-7MM

High Speed		Low Speed[1] HP Continuous Syn. RPM		RGZESD		
HP Continuous	RPM	1200	900	Frame	Cat. No.	List $
3.0	1800	1.3	0.75	213T	—	824
5.0	1800	2.2	1.2	215T	—	960
7.5	1800	3.3	1.9	254T	—	1370
10.0	1800	4.4	2.5	256T	—	1679
15.0	1800	6.7	3.7	284T	—	2251
20.0	1800	8.9	5.0	286T	—	2802
25.0	1800	11.0	6.2	324T	—	3381
30.0	1800	13.0	7.5	326T	—	4061
40.0	1800	18.0	10.0	364T	—	5248
50.0	1800	22.0	12.5	365T	—	6677
60.0	1800	27.0	15.0	404T	—	10010
75.0	1800	33.0	19.0	405T	—	12685
100.0	1800	44.0	25.0	444T	—	15381
125.0	1800	55.0	31.0	445T	—	19678
150.0	1800	67.0	37.0	447T	—	23811
200.0	1800	88.0	50.0	449T	—	28911

[1]Only one of the low speeds may be selected.

SPEEDS	LINES			OPEN	CONN.
	L1	L2	L3		
LOW SPEED	T_1	T_2	T_3	T_{11} T_{12} T_{13}	Y
HIGH SPEED	T_{11}	T_{12}	T_{13}	T_1 T_2 T_3	Y



RGZESD

High Efficiency
Totally Enclosed
Fan Cooled
Multi-Speed
2 Winding
Constant Torque
Severe Duty

460 Volts (575 Volts Available)

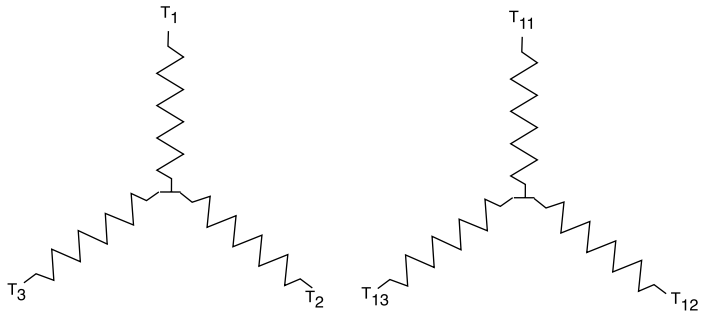
3 Phase-60 Hertz
40°C Ambient
Anti-friction
Horizontal
Foot Mounted
1.15 Service Factor

Multiplier Symbol SA-7MM

High Speed		Low Speed[1] HP Continuous Syn. RPM		RGZESD		
HP Continuous	RPM	1200	900	Frame	Cat. No.	List $
3.0	1800	2.0	1.5	213T	—	996
5.0	1800	3.3	2.5	215T	—	1145
7.5	1800	5.0 [2]	3.7 [2]	254T	—	1635
10.0	1800	6.6 [2]	5.0 [2]	256T	—	2005
15.0	1800	10.0 [2]	7.5 [2]	284T	—	2684
20.0	1800	13.0 [2]	10.0 [2]	286T	—	3082
25.0	1800	17.0	12.5	324T	—	4036
30.0	1800	20.0 [2]	15.0	326T	—	5199
40.0	1800	26.8	20.0	364T	—	6271
50.0	1800	33.0 [2]	25.0	365T	—	7986
60.0	1800	40.0	30.0	404T	—	11972
75.0	1800	50.0 [2]	37.5	405T	—	15146
100.0	1800	66.0	50.0	444T	—	18401
125.0	1800	84.0	62.0	445T	—	23557
150.0	1800	100.0	75.0	447T	—	28516
200.0	1800	133.0	100.0	449T	—	34372

[1] Only one of the low speeds may be selected.
[2] Class F insulation, 1.0 Service Factor.

SPEEDS	LINES			OPEN	CONN.
	L1	L2	L3		
LOW SPEED	T_1	T_2	T_3	T_{11} T_{12} T_{13}	Y
HIGH SPEED	T_{11}	T_{12}	T_{13}	T_1 T_2 T_3	Y



General Notes:

- Available in RGZZESD designs. Contact factory for pricing.
- 440 frames are supplied with roller bearings. Ball bearing long shaft units are available as build units.

RGZESD

High Efficiency
Totally Enclosed
Fan Cooled
Severe Duty

460 Volts
(575 Volts Available)

3 Phase-60 Hertz
40°C Ambient
Anti-friction
Horizontal
Foot Mounted
1.15 Service Mounted

General Notes:

- Do not exceed belt service factor of 1.6. Follow manufacturer's instructions for alignment and belt tensioning. Position sheaves as close to the drive end bearing as possible. (Maximum 1/2" from shaft shoulder).
- Maximum speed reduction of 5:1.
- Shaft center distance approximately equal to diameter of largest sheave.
- All dimensions in inches.
- 440T frame and above are standard stock with roller bearings. 400T frames are ball bearings. **Note** for special roller bearing designs contact factory.

Multiplier Symbol — SA-7XSD

Belt Drive Long Shaft			Narrow V[1] Min.	Standard V[2] Min.	RGZESD		
HP	RPM	Frame	Dia.	Dia.	Cat. No.	Part No.	List $
50	900	404T	8.4	9.0	HPM0409	1LA04048SE41	8088
60	1800	364T	7.4	7.4	HPL6020	1LA03644SE41	4974
	1200	404T	8.0	9.0	HPM6713	1LA04046SE41	6502
	900	405T	10.0	10.0	HPM0416	1LA04058SE41	9239
75	1800	365T	8.6	9.0	HPL6377	1LA03654SE41	6305
	1200	405T	10.0	10.0	HPM6888	1LA04056SE41	7655
	900	444T	9.5	13.0	HPN0423	1LA04448SE41	12175
100	1800	405T	8.6	10.0	HPM6902	1LA04054SE41	7790
	1200	444T	10.0	11.8	HPN7273	1LA04446SE41	10462
	900	445T	12.0	15.0	HPN0430	1LA04458SE41	15053
125	1800	444T	10.5	12.0	HPN7280	1LA04444SE41	10255
	1200	445T	12.4	15.2	HPN7609	1LA04456SE41	12850
	900	447T	14.0	18.5	HPN0437	1LA04478SE41	16040
150	1800	445T	10.5	13.2	HPN7616	1LA04454SE41	11922
	1200	447T	11.6	16.1	HPN7917	1LA04476SE41	14377
	900	447T	14.6	24.7	HPN0444	1LA04478HE41	20400
200	1800	447T	13.2	15.8	HPN7924	1LA04474SE41	14501
	1200	449T	14.6	25.0	HPN8190	1LA04496SE41	17600
	900	449T	18.0	—	HPN8197	1LA04498SE41	20700
250	1800	449T	13.0	18.4	HPN8211	1LA04494SE41	18192
	1200	449T	18.2	—	HPN8204	1LA04496HE41	19152
	900	S449LS	19.8	—	HPQ4588	1LA02508HG41	29500
300	1800	449T	15.4	24.8	HPN8218	1LA04494HE41	19288
	1200	S449LS	18.4	—	HPN3013	1LA03006HG41	35702
350	1800	S449LS	15.8	—	HPN3041	1LA03504HG41	30612
	1200	S449LS	21.0	—	HPN3440	1LA03506HG41	40642
400	1800	S449LS	18.0	—	HPN3027	1LA04004HG41	34365

Out of scope of EPAct regulations.

[1] Example: 3V, 5V, 8V. Sheave face cannot overhang end of shaft.
[2] Example: A, B, C, D section. Center of sheave width cannot overhang end of shaft.

RGZESD

High Efficiency Severe Duty

575 Volts

3 Phase-60 Hertz
40°C Ambient
Anti-friction
Horizontal
Foot Mounted
1.15 Service Factor

Multiplier Symbol SA-7XSD

HP	RPM	Frame	RGZESD Cat. No.	RGZESD Part No.	RGZESD List $
1	3600	143T	—	—	—
	1800	143T	HPF0070	1LA91444YK00	362
	1200	145T	HPF0462	1LA91456YK00	449
1.5	3600	143T	HPF0084	1LA91442YK00	387
	1800	145T	HPF0476	1LA91454YK00	402
	1200	182T	HPG1057	1LA91826YK00	507
	900	184T	HPG4693	1LA91848YK00	875
2	3600	145T	HPF0504	1LA91452YK00	463
	1800	145T	HPF0490	1LA91464YK00	442
	1200	184T	HPG1582	1LA91846YK00	566
	900	213T	HPH4700	1LA92138YK00	1047
3	3600	182T	HPG1085	1LA91822YK00	522
	1800	182T	HPG1071	1LA91824YK00	490
	1200	213T	HPH2156	1LA92136YK00	691
	900	215T	HPH4707	1LA92158YK00	1306
5	3600	184T	HPG1617	1LA91842YK00	646
	1800	184T	HPG1596	1LA91844YK00	573
	1200	215T	HPH2723	1LA92156YK00	973
	900	254T	HPI4714	1LA92548YK00	1735
7.5	3600	213T	HPH2184	1LA92132YK00	781
	1800	213T	HPH2170	1LA92134YK00	776
	1200	254T	HPI3248	1LA92546YK00	1293
	900	256T	HPI4721	1LA92568YK00	2190
10	3600	215T	HPH2751	1LA92152YK00	913
	1800	215T	HPH2737	1LA92154YK00	935
	1200	256T	HPI3773	1LA92566YK00	1580
	900	284T	—	—	2557*
15	3600	254T	HPI3283	1LA92542YK00	1254
	1800	254T	HPI3262	1LA92544YK00	1232
	1200	284T	HPJ4249	1LA02846SE51	2096
	900	286T	—	—	3328*
20	3600	256T	HPI3801	1LA92562YK00	1553
	1800	256T	HPI3787	1LA92564YK00	1535
	1200	286T	HPJ4725	1LA02866SE51	2554
	900	324T	—	—	4068*
25	3600	284TS	HPJ4529	1LA02842SE52	1914
	1800	284T	HPJ4263	1LA02844SE51	1828
	1200	324T	HPK5215	1LA03246SE51	3096
	900	326T	—	—	4730*
30	3600	286TS	HPJ4998	1LA02862SE52	2235
	1800	286T	HPJ4739	1LA02864SE51	2125
	1200	326T	HPK5635	1LA03266SE51	3566
	900	364T	—	—	5598*
40	3600	324TS	HPK5446	1LA03242SE52	2948
	1800	324T	HPK5229	1LA03244SE51	2823
	1200	364T	HPL6013	1LA03646SE51	4833
	900	365T	—	—	6769*
50	3600	326TS	HPK5824	1LA03262SE52	3814
	1800	326T	HPK5649	1LA03264SE51	3467
	1200	365T	HPL6370	1LA03656SE51	5549
	900	404T	—	—	8088*

*Indicates non-stock item build units.

General Notes:

- All 3600 RPM motors 25 HP and above are suitable for direct connect only.
- Motors are suitable for use on ASD per NEMA MG1 Part 31 for 60 Hz and below variable torque or 60-15 Hz constant torque applications

Prices and data subject to change without notice.

RGZESD

High Efficiency
Severe Duty

575 Volts

3 Phase-60 Hertz
40°C Ambient
Anti-friction
Horizontal
Foot Mounted
1.15 Service Factor

Multiplier Symbol SA-7XSD

HP	RPM	Frame	RGZESD Cat. No.	RGZESD Part No.	RGZESD List $
60	3600	364TS	HPL6202	1LA03642SE52	5017
	1800	364T	HPL6027	1LA03644SE51	4974
	1200	404T	HPM6720	1LA04046SE51	6502
	900	405T	—	—	9239*
75	3600	365TS	HPL6566	1LA03652SE52	6300
	1800	365T	HPL6384	1LA03654SE51	6305
	1200	405T	HPM6895	1LA04056SE51	7655
	900	444T	—	—	12175*
100	3600	405TS	HPM7119	1LA04052SE52	8442
	1800	405T	HPM6909	1LA04054SE51	7790
	1200	444T	HPN1102	1LA04446SE51	10462
	900	445T	—	—	15053*
125	3600	444TS	HPN1977	1LA04442SE52	11035
	1800	444TS	HPN3132	1LA04444SE52	10255
	1800	444T	HPN8610	1LA04444SE51	10255
	1200	445T	HPN1109	1LA04456SE51	12850
	900	447T	—	—	16040*
150	3600	445TS	HPN1984	1LA04452SE52	13257
	1800	445TS	HPN3139	1LA04454SE52	11922
	1800	445T	HPN8589	1LA04454SE51	11922
	1200	447T	HPN1123	1LA04476SE51	14377
	900	447T	—	—	20400*
200	3600	447TS	HPN1991	1LA04472SE52	16770
	1800	447TS	HPN3146	1LA04474SE52	14501
	1800	447T	HPN8617	1LA04474SE51	14501
	1200	449T	HPN1116	1LA04496SE51	17600
	900	449T	—	—	20700*
250	1800	449T	—	1LA04494SE51	18192
	1200	449T	—	1LA04496HE51	19152

*Indicates non-stock item build units.

General Notes:

- All 3600 RPM motors 25 HP and above are suitable for direct connect only.
- Motors are suitable for use on ASD per NEMA MG1 Part 31 for 60 Hz and below variable torque or 60-15 Hz constant torque applications

Stock / *Modifiable

RGZESDX / IEEE-841

High Efficiency Totally Enclosed Fan Cooled Severe Duty

460 Volts (575 Volts Available)

3 Phase-60 Hertz
40°C Ambient
Anti-friction
Horizontal
Foot Mounted
1.15 Service Factor

General Notes:

- Frames 284T and larger are available in long or short shaft. TS indicates direct connection only.
- All 3600 RPM motors 25 HP and above suitable for direct connection only.
- Inpro/Seal® bearing isolators on drive end 320 frame and above. Available modification for 140 - 280 frames
- 320 frame and above have air deflectors for increased D.E. bearing cooling.
- *Modifications are limited. Contact factory or Sales Representative.
- Motors are suitable for use on ASD per NEMA MG1 Part 31 for 60 Hz and below variable torque or 60-15 Hz constant torque applications

Multiplier Symbol SA-7IEE

			RGZESDX		
HP	RPM	Frame	Cat. No.	Part No.	List $
1	1800	143T	XKF3664	1LA01444IJ41	435
	1200	145T	XKF3678	1LA01456IJ41	539
	900	182T	XKG3706	1LA01828IJ41	860
1.5	3600	143T	XKF3671	1LA01442IJ41	464
	1800	145T	XKF3685	1LA91454IJ41	482
	1200	182T	XKG3713	1LA91826IJ41	588
	900	184T	XKG3734	1LA91848IJ41	1015
2	3600	145T	XKF3699	1LA91452IJ41	555
	1800	145T	XKF3692	1LA01464IJ41	530
	1200	184T	XKG3741	1LA01846IJ41	657
	900	213T	XKH3762	1LA02138IJ41	1194
3	3600	182T	XKG3727	1LA01822IJ41	616
	1800	182T	XKG3720	1LA01824IJ41	568
	1200	213T	XKH3769	1LA02136IJ41	802
	900	215T	XKH3790	1LA02158IJ41	1515
5	3600	184T	XKG3755	1LA01842IJ41	750
	1800	184T	XKG3748	1LA01844IJ41	665
	1200	215T	XKH3797	1LA02156IJ41	1129
	900	254T	XKI3818	1LA02548IJ41	2013
7.5	3600	213T	XKH3783	1LA02132IJ41	906
	1800	213T	XKH3776	1LA02134IJ41	900
	1200	254T	XKI3825	1LA02546IJ41	1499
	900	256T	XKI3846	1LA02568IJ41	2540
10	3600	215T	XKH3811	1LA02152IJ41	1059
	1800	215T	XKH3804	1LA02154IJ41	1085
	1200	256T	XKI3853	1LA02566IJ41	1833
	900	284T	XKJ3874	1LA02848IJ41	3018
15	3600	254T	XKI3839	1LA02542IJ41	1455
	1800	254T	XKI3832	1LA02544IJ41	1429
	1200	284T	XKJ3881	1LA02846IJ41	2431
	900	286T	XKJ3902	1LA02868IJ41	3860
20	3600	256T	XKI3867	1LA02562IJ41	1786
	1800	256T	XKI3860	1LA02564IJ41	1842
	1200	286T	XKJ3909	1LA02866IJ41	2963
	900	324T	XKK3930	1LA03248IJ41	4719
25	3600	284TS	XKJ3895	1LA02842IJ42	2220
	1800	284T	XKJ3888	1LA02844IJ41	2120
	1200	324T	XKK3937	1LA03246IJ41	3591
	900	326T	XKK3958	1LA03268IJ41	5487
30	3600	286TS	XKJ3923	1LA02862IJ42	2593
	1800	286T	XKJ3916	1LA02864IJ41	2465
	1200	326T	XKK3965	1LA03266IJ41	4137
	900	364T	XKL3986	1LA03648IJ41	6494
40	3600	324TS	XKK3951	1LA03242IJ42	3420
	1800	324TS	XKK5155	1LA03244IJ42	3275
	1800	324T	XKK3944	1LA03244IJ41	3275
	1200	364T	XKL3993	1LA03646IJ41	5606
	900	365T	XKL4014	1LA03658IJ41	7852
50	3600	326TS	XKK3979	1LA03262IJ42	4348
	1800	326TS	XKK5162	1LA03264IJ42	3987
	1800	326T	XKK3972	1LA03264IJ41	3987
	1200	365T	XKL4021	1LA03656IJ41	6381
	900	404T	XKM4042	1LA04048IJ41	9139

DOE# CC032A

RGZESDX / IEEE-841

High Efficiency Totally Enclosed Fan Cooled Severe Duty

460 Volts (575 Volts Available)

3 Phase-60 Hertz
40°C Ambient
Anti-friction
Horizontal
Foot Mounted
1.15 Service Factor

General Notes:

- Frames 284T and larger are available in long or short shaft. TS indicates direct connection only.
- All 3600 RPM motors 25 HP and above suitable for direct connection only.
- Inpro/Seal® bearing isolators on drive end 320 frame and above. Available modification for 140 - 280 frames.
- 320 frame and above have air deflectors for increased D.E. bearing cooling.
- *Modifications are limited. Contact factory or Sales Representative.
- 440T or S449LS frame motors 1800 RPM or slower are supplied with roller bearings for belted applications.
- Motors are suitable for use on ASD per NEMA MG1 Part 31 for 60 Hz and below variable torque or 60-15 Hz constant torque applications.

Multiplier Symbol SA-7IEE

			RGZESDX		
HP	RPM	Frame	Cat. No.	Part No.	List $
60	3600	364TS	XKL4007	1LA03642IJ42	5770
	1800	364TS	XKL5169	1LA03644IJ42	5670
	1800	364T	XKL4000	1LA03644IJ41	5670
	1200	404T	XKM4049	1LA04046IJ41	7282
	900	405T	XKM4056	1LA04058IJ41	10255
75	3600	365TS	XKL4035	1LA03652IJ42	7245
	1800	365TS	XKL5176	1LA03654IJ42	7062
	1800	365T	XKL4028	1LA03654IJ41	7062
	1200	405T	XKM4063	1LA04056IJ41	8497
	900	444T	XKN4084	1LA04448IJ41	13636
100	3600	405TS	XKM4077	1LA04052IJ42	9624
	1800	405TS	XKM5183	1LA04054IJ42	8725
	1800	405T	XKM4070	1LA04054IJ41	8725
	1200	444T	XKN4091	1LA04446IJ41	11717
	900	445T	XKN4112	1LA04458IJ41	16710
125	3600	444TS	XKN4105	1LA04442IJ42	12360
	1800	444TS	XKN4273	1LA04444IJ42	11383
	1800	444T	XKN4098	1LA04444IJ41	11383
	1200	445T	XKN4119	1LA04456IJ41	14135
	900	447T	XKN4140	1LA04478IJ41	17163
150	3600	445TS	XKN4133	1LA04452IJ42	14450
	1800	445TS	XKN4280	1LA04454IJ42	12875
	1800	445T	XKN4126	1LA04454IJ41	12875
	1200	447T	XKN4154	1LA04476IJ41	15527
	900	449T	XKN4147	1LA04498IJ41	21945
200	3600	447TS	XKN4168	1LA04472IJ42	18122
	1800	447TS	XKN4287	1LA04474IJ42	15660
	1800	447T	XKN4161	1LA04474IJ41	15660
	1200	449T	XKN4182	1LA04496IJ41	18832
	900	S449LS	XKN4175	1LA02008IG41	31275
250	3600	449TS	XKN4203	1LA04492IJ42	22840
	1800	449TS	XKN4294	1LA04494IJ42	19650
	1800	449T	XKN4189	1LA04494IJ41	19650
	1200	449T	XKN5036	1LA04496II41	20490
	900	S449LS	XKQ5120	1LA02508IG41	33925
300	3600	449TS	XKN4210	1LA04492IH42	30830 [1]
	1800	S449SS	XKN4301	1LA03004IG42	28330 [1]
	1800	S449LS	XKN4196	1LA03004IG41	28330 [1]
	1200	S449LS	XKQ4217	1LA03006IG41	37850
350	3600	S449SS	XKQ4245	1LA03502IG42	35040 [1]
	1800	S449SS	XKQ4308	1LA03504IG42	32450 [1]
	1800	S449LS	XKQ4231	1LA03504IG41	32450 [1]
400	3600	S449SS	XKQ4252	1LA04002IG42	39300 [1]
	1800	S449SS	XKQ4315	1LA04004IK42	36400 [1]
	1800	S449LS	XKQ4238	1LA04004IG41	36400 [1]

Out of scope of EPAct regulations.

[1]CW Rotation Facing Opposite Drive End.

DOE# CC032A

Prices and data subject to change without notice.

RGZESDX
IEEE-841
High Efficiency
Totally Enclosed
Fan Cooled
Severe Duty

460 Volts
(575 Volts Available)

3 Phase-60 Hertz
40°C Ambient
Anti-friction
Horizontal
Foot Mounted
1.15 Service Mounted

Multiplier Symbol — SA-7IEE

Belt Drive Long Shaft			Narrow V[1] Min.	Standard V[2] Min.	RGZESDX		
HP	RPM	Frame	Dia.	Dia.	Cat. No.	Part No.	List $
50	900	404T	8.4	9.0	XKM4042	1LA04048IJ41	9139
60	1800	364T	7.4	7.4	XKL4000	1LA03644IJ41	5670
	1200	404T	8.0	9.0	XKM4049	1LA04046IJ41	7282
	900	405T	10.0	10.0	XKM4056	1LA04058IJ41	10255
75	1800	365T	8.6	9.0	XKL4028	1LA03654IJ41	7062
	1200	405T	10.0	10.0	XKM4063	1LA04056IJ41	8497
	900	444T	9.5	13.0	XKN4084	1LA04448IJ41	13636
100	1800	405T	8.6	10.0	XKM4070	1LA04054IJ41	8725
	1200	444T	10.0	11.8	XKN4091	1LA04446IJ41	11717
	900	445T	12.0	15.0	XKN4112	1LA04458IJ41	16710
125	1800	444T	10.5	12.0	XKN4098	1LA04444IJ41	11383
	1200	445T	12.4	15.2	XKN4119	1LA04456IJ41	14135
	900	447T	14.0	18.5	XKN4140	1LA04478IJ41	17163
150	1800	445T	10.5	13.2	XKN4126	1LA04454IJ41	12875
	1200	447T	11.6	16.1	XKN4154	1LA04476IJ41	15527
	900	449T	14.6	24.7	XKN4147	1LA04498IJ41	21945
200	1800	447T	13.2	15.8	XKN4161	1LA04474IJ41	15660
	1200	449T	14.6	25.0	XKN4182	1LA04496IJ41	18832
	900	S449LS	18.0	—	XKN4175	1LA02008IG41	31275
250	1800	449T	13.0	18.4	XKN4189	1LA04494IJ41	19650
	1200	449T	18.2	—	XKN5036	1LA04496II41	20490
	900	S449LS	19.8	—	XKQ5120	1LA02508IG41	33925
300	1800	S449LS	15.4	24.8	XKN4196	1LA03004IG41	28330 [3]
	1200	S449LS	18.4	—	XKQ4217	1LA03006IG41	37850
350	1800	S449LS	15.8	—	XKQ4231	1LA03504IG41	32450 [3]
400	1800	S449LS	18.0	—	XKQ4238	1LA04004IG41	36400 [3]

Out of scope of EPAct regulations.

[1] Example: 3V, 5V, 8V. Sheave face cannot overhang end of shaft.
[2] Example: A, B, C, D section. Center of sheave width cannot overhang end of shaft.
[3] CW rotation facing opposite drive end.

General Notes:

- Do not exceed belt service factor of 1.6. Follow manufacturer's instructions for alignment and belt tensioning. Position sheaves as close to the drive end bearing as possible. (Maximum 1/2" from shaft shoulder).
- Maximum speed reduction of 5:1.
- Shaft center distance approximately equal to diameter of largest sheave.
- All dimensions in inches.
- 440T frame and above are standard stock with roller bearings. 400T frames are ball bearings. Note for special roller bearing designs contact factory.

DOE# CC032A

RGZESDB

High Efficiency Totally Enclosed Fan Cooled Severe Duty Brake Motors

230/460 Volts
(575 Volts Available)

3-Phase-60 Hertz
40°C Ambient
Anti-friction
Horizontal
1.15 Service Factor

General Notes:

- Standard voltage is 460 Volts only for 25Hp and larger.
- Standard brake coil voltage is 230/460V single phase. Other coil voltages available such as 115/230V, 575V. Contact factory for other voltage options.
- Frames 284T and larger are available in long or short shaft. TS indicates direct connection only.
- All 3600 RPM motors 25Hp and above suitable for direct connection only.
- Motors are suitable for use on ASD per NEMA MG1 Part 31 for 60 Hz and below variable torque or 60-15 Hz constant torque applications.

Multiplier Symbol SA-7BR

HP	RPM	Frame	Cat.No.	Part no.	List $	Brake (lb-ft)	C-face Rd body	D-flg $ Rd body $
1	1800	143T	BPF9831	1LA01444SB21	1225	6	1292	1359
	1200	145T	—	—	1230	6	1297	1364
	900	182T	—	—	1257	10	1356	1455
1.5	3600	143T	—	—	1220	6	1287	1354
	1800	145T	—	—	1265	6	1332	1399
	1200	182T	—	—	1265	10	1364	1463
	900	184T	—	—	1455	15	1554	1653
2	3600	145T	—	—	1350	6	1417	1484
	1800	145T	BPF9838	1LA01464SB21	1290	10	1357	1424
	1200	184T	—	—	1385	15	1484	1583
	900	213T	—	—	1917	25	2016	2115
3	3600	182T	—	—	1400	10	1499	1598
	1800	182T	BPG9845	1LA01824SB21	1320	15	1419	1518
	1200	213T	—	—	1561	25	1660	1759
	900	215T	—	—	2176	25	2275	2374
5	3600	184T	—	—	1525	10	1624	1723
	1800	184T	BPG9852	1LA01844SB21	1343	20	1442	1541
	1200	215T	—	—	1933	35	2032	2131
	900	254T	—	—	3055	50	3189	3323
7.5	3600	213T	—	—	1566	15	1665	1764
	1800	213T	BPH9859	1LA02134SB21	1736	35	1835	1934
	1200	254T	—	—	2613	50	2747	2881
	900	256T	—	—	3870	75	4004	4138
10	3600	215T	—	—	1783	25	1882	1981
	1800	215T	BPH9866	1LA02154SB21	2080	50	2179	2278
	1200	256T	—	—	3260	75	3394	3528
	900	284T	—	—	4767	105	4980	5193
15	3600	254T	—	—	2387	35	2521	2655
	1800	254T	BPR9873	1LA02544SB21	2912	75	3046	3180
	1200	284T	—	—	4306	105	4519	4732
	900	286T	—	—	7223	125	7436	7649
20	3600	256T	—	—	2873	50	3007	3141
	1800	256T	BPR9880	1LA02564SB21	3625	105	3759	3893
	1200	286T	—	—	6449	125	6662	6875
	900	324T	—	—	8288	175	8594	8900
25	3600	284TS	—	—	3719	75	3932	4145
	1800	284T	—	—	4038	105	4251	4464
	1200	324T	—	—	7316	175	7622	7928
	900	326T	—	—	9300	230	9606	9912
30	3600	286TS	—	—	4040	75	4253	4466
	1800	286T	—	—	6020	125	6233	6446
	1200	326T	—	—	8136	230	8442	8748
	900	364T	—	—	13790	330	14343	14896
40	3600	324TS	—	—	5198	105	5504	5810
	1800	324T	—	—	7043	175	7349	7655
	1200	364T	—	—	13105	330	13658	14211
	900	365T	—	—	14850	330	15403	15956
50	3600	326TS	—	—	6064	105	6370	6676
	1800	326T	—	—	8037	230	8343	8649
	1200	365T	—	—	13750	330	14303	14856
60	1800	364T	—	—	12890	330	13443	13996
75	1800	365T	—	—	14055	330	14608	15161

Prices and data subject to change without notice.

Stock / Modifiable

RGZEAD

High Efficiency
Totally Enclosed
Fan Cooled
Severe Duty
Automotive Duty

Class B Rise - Class F Insulation
65°C Ambient - 1.0 Service Factor
or
40°C Ambient - 1.15 Service Factor

(GM-7EH)
(GM-7EQ, Ford EM 1,
Chrysler NPEM 100)

460 Volts

3 Phase-60 Hertz
40°C Ambient
Anti-friction
Horizontal
Foot Mounted

General Notes:

- Standard voltage is 460 Volts only.
- Frames 324 and larger are available in long or short shaft.
- All 3600 RPM motors 25 HP and above are suitable for direct connect only.
- 444U to 445U are supplied with roller bearings.
- RGZAD no longer available.

Multiplier Symbol SA-7AE

HP	RPM	Frame	RGZEAD Cat. No.	RGZEAD Part No.	RGZEAD List $
1	1800	182U	UTG1414	1LA91824YK701AD	379
	1200	184U	UTG1925	1LA91846YK701AD	463
1.5	3600	182U	UTG1421	1LA91822YK701AD	438
	1800	184U	UTG1939	1LA91844YK701AD	406
	1200	184U	UTG1932	1LA91856YK701AD	511
2	3600	184U	UTG1953	1LA91842YK701AD	485
	1800	184U	UTG1946	1LA91854YK701AD	428
	1200	213U	UTH2513	1LA92136YK701AD	566
3	3600	184U	UTG1960	1LA91852YK701AD	549
	1800	213U	UTH2520	1LA92134YK701AD	492
	1200	215U	UTH3066	1LA92156YK701AD	701
5	3600	213U	UTH2527	1LA92132YK701AD	652
	1800	215U	UTH3073	1LA92154YK701AD	652
	1200	254U	UTI3591	1LA92546YK701AD	975
7.5	3600	215U	UTH3080	1LA92152YK701AD	770
	1800	254U	UTI3598	1LA92544YK701AD	857
	1200	256U	UTI4102	1LA92566YK701AD	1246
10	3600	254U	UTI3153	1LA92542YK701AD	923
	1800	256U	UTI4109	1LA92564YK701AD	1041
	1200	284U	UTJ4620	1LA02846AE41	1527
15	3600	256U	UTI4116	1LA92562YK701AD	1175
	1800	284U	UTJ4627	1LA02844AE41	1430
	1200	324U	UTK5530	1LA03246AE41	2056
20	3600	286U	—	1LA02862AE41	1598*
	1800	286U	UTJ5082	1LA02864AE41	1756
	1200	326U	UTK5915	1LA03266AE41	2513
25	3600	324S	—	—	2051*
	1800	324U	UTK5537	1LA03244AE41	2198
	1200	364U	—	—	3034*
30	3600	326S	—	—	2473*
	1800	326U	UTK5922	1LA03264AE41	2568
	1200	365U	—	—	3433*
40	3600	364US	—	—	3228*
	1800	364U	UTL6286	1LA03644AE41	3386
	1200	404U	—	—	4407*
50	3600	365US	—	—	4075*
	1800	365U	UTL6657	1LA03654AE41	3972
	1200	405U	—	—	5091*
60	3600	405US	—	—	4848*
	1800	405U	UTM7210	1LA04054AE41	4932
	1200	444U	—	—	5976*
75	3600	444US	—	—	6369*
	1800	444U	UTN7518	1LA04444AE41	6083
	1200	445U	—	—	7087*
100	3600	445US	—	—	8418*
	1800	445U	UTN7840	1LA04454AE41	7561

*Indicates non-stock Item Build Unit.

Prices and data subject to change without notice.

RGZTESD

High Efficiency
Totally Enclosed
Fan Cooled
NEMA Design C
Severe Duty

230/460 Volts
(575 Volts Available)

3 Phase-60 Hertz
40°C Ambient
Anti-friction
Horizontal
1.15 Service Factor

Multiplier Symbol SA-7XSD

HP	RPM	Frame	RGZTESD Cat. No.	RGZTESD Part No.	RGZTESD List $
5	1800	184T	HCG7794	1LA01844ST21	630
	1200	215T	—	—	1070*
7.5	1800	213T	HCH7801	1LA02134ST21	855
	1200	254T	—	—	1422*
10	1800	215T	HCH7808	1LA02154ST21	1030
	1200	256T	—	—	1738*
15	1800	254T	HCR7815	1LA02544ST21	1355
	1200	284T	—	—	2306*
20	1800	256T	HCR7822	1LA02564ST21	1690
	1200	286T	—	—	2809*
25	1800	284T	HCJ7829	1LA02844ST41	2015
	1200	324T	—	—	3406*
30	1800	286T	HCJ7836	1LA02864ST41	2340
	1200	326T	—	—	3923*
40	1800	324T	HCK7843	1LA03244ST41	3110
	1200	364T	—	—	5316*
50	1800	326T	HCK7850	1LA03264ST41	3815
	1200	365T	—	—	6104*
60	1800	364T	HCL7857	1LA03644ST41	5475
	1200	404T	—	—	7152*
75	1800	365T	HCL7864	1LA03654ST41	6940
	1200	405T	—	—	8421*
100	1800	405T	HCM7871	1LA04054ST41	8570
	1200	444TS	—	—	11508*
125	1800	444TS	—	—	11281*
	1200	445TS	—	—	14135*
150	1800	445TS	—	—	13114*
	1200	447TS	—	—	15815*
200	1800	447TS	—	—	15951*
	1200	449TS	—	—	19360*

* Indicates non-stock item build unit.

General Notes:

- 1-3 HP available as custom build.
- Standard voltage is 460 volts only for motors 25 HP and larger.
- Frames 284T and larger are available in long or short shaft. TS indicates direct connection only.
- Motors are suitable for use on ASD per NEMA MG1 Part 31 for 60 Hz and below variable torque or 60-15hz constant torque applications.

Stock / Modifiable

RGZVESD

High Efficiency
Totally Enclosed
Fan Cooled
C-Face Vertical
Severe Duty

230/460 Volts
(575 Volts Available)

3 Phase-60 Hertz
40°C Ambient
Anti-friction
1.15 Service Factor

Multiplier Symbol SA-7XSD

HP	RPM	Frame	RGZVESD Cat. No.	Part No.	List $
1	1800	143TCV	VPF0322	1LA91444YK62	521
	1200	145TCV	VPF0612	1LA91456YK62	608
	900	182TCV	VPG0752	1LA91828YK62	901
1.5	3600	143TCV	VPF0703	1LA91442YK62	546
	1800	145TCV	VPF0647	1LA91454YK62	561
	1200	182TCV	VPG0605	1LA91826YK62	666
	900	184TCV	VPG0745	1LA91848YK62	1034
2	3600	145TCV	VPF0696	1LA91452YK62	622
	1800	145TCV	VPF0896	1LA91464YK62	601
	1200	184TCV	VPG0598	1LA91846YK62	725
	900	213TCV	VPH0738	1LA92138YK62	1206
3	3600	182TCV	VPG0689	1LA91822YK62	681
	1800	182TCV	VPG1365	1LA91824YK62	649
	1200	213TCV	VPH0591	1LA92136YK62	850
	900	215TCV	VPH0731	1LA92158YK62	1465
5	3600	184TCV	VPG0682	1LA91842YK62	805
	1800	184TCV	VPG0640	1LA91844YK62	732
	1200	215TCV	VPH0584	1LA92156YK62	1132
	900	254TCV	VPI0724	1LA92548YK62	1948
7.5	3600	213TCV	VPH0675	1LA92132YK62	940
	1800	213TCV	VPH2464	1LA92134YK62	935
	1200	254TCV	VPI0577	1LA92546YK62	1506
	900	256TCV	VPI0717	1LA92568YK62	2403
10	3600	215TCV	VPH0668	1LA92152YK62	1072
	1800	215TCV	VPH3024	1LA92154YK62	1094
	1200	256TCV	VPI0570	1LA92566YK62	1793
	900	284TCV	—	—	2875 *
15	3600	254TCV	VPI0661	1LA92542YK62	1467
	1800	254TCV	VPI0633	1LA92544YK62	1445
	1200	284TCV	—	1LA02846SE23	2414
	900	286TCV	—	—	3646 *
20	3600	256TCV	VPI0654	1LA92562YK62	1766
	1800	256TCV	VPI0626	1LA92564YK62	1748
	1200	286TCV	—	1LA02866SE23	2872
	900	324TCV	—	—	4488 *
25	3600	284TSCV	—	—	2232 *
	1800	284TCV	VPJ0136	1LA02844SE43	2146
	1800	284TSCV	VPJ0006	1LA02844SE44	2146
	1200	324TCV	—	—	3516 *
	900	326TCV	—	—	5150 *
30	3600	286TSCV	—	—	2553 *
	1800	286TCV	VPJ0143	1LA02864SE43	2443
	1800	286TSCV	VPJ0013	1LA02864SE44	2443
	1200	326TCV	—	—	3986 *
	900	364TCV	—	—	6321 *
40	3600	324TSCV	—	—	3368 *
	1800	324TCV	VPK0150	1LA03244SE43	3243
	1800	324TSCV	VPK0020	1LA03244SE44	3243
	1200	364TCV	—	—	5556 *
	900	365TCV	—	—	7492

*Indicates non-stock item build unit.

General Notes:

- Standard voltage is 460 volts only for motors 25 HP and larger.
- Frames 284T and larger are available in long or short shaft. TS indicates direct connection only.
- All 3600 RPM motors 25 HP and above suitable for direct connection only.
- Motors are suitable for use on ASD per NEMA MG1 Part 31 for 60 Hz and below variable torque or 60-15 Hz constant torque applications

Prices and data subject to change without notice.

RGZVESD

High Efficiency
Totally Enclosed
Fan Cooled
C-Face Vertical
Severe Duty

230/460 Volts
(575 Volts Available)

3 Phase-60 Hertz
40°C Ambient
Anti-friction
1.15 Service Factor

Multiplier Symbol SA-7XSD

HP	RPM	Frame	RGZVESD Cat. No.	Part No.	List $
	3600	326TSCV	—	—	4234 *
	1800	326TCV	VPK0157	1LA03264SE43	3887
50	1800	326TSCV	VPK0027	1LA03264SE44	3887
	1200	365TCV	—	—	6272 *
	900	404TCV	—	—	9146 *
	3600	364TSCV	—	—	5740 *
	1800	364TCV	VPL0164	1LA03644SE43	5697
60	1800	364TSCV	VPL0034	1LA03644SE44	5697
	1200	404TCV	—	—	7560 *
	900	405TCV	—	—	10297 *
	3600	365TSCV	—	—	7023 *
	1800	365TCV	VPL9999	1LA03654SE43	7028
75	1800	365TSCV	VPL9992	1LA03654SE44	7028
	1200	405TCV	—	—	8713 *
	900	444TCV	—	—	13845 *
	3600	405TSCV	—	—	9500 *
	1800	405TSCV	—	—	8848 *
	1800	405TCV	—	—	8848 *
100	1200	444TSCV	—	—	12132 *
	1200	444TCV	—	—	12132 *
	900	445TCV	—	—	16723 *
	3600	444TSCV	—	—	12075 *
	1800	444TSCV	—	—	11925 *
	1800	444TCV	—	—	11925 *
125	1200	445TSCV	—	—	14520 *
	1200	445TCV	—	—	14520 *
	900	447TCV	—	—	17710 *
	3600	445TSCV	—	—	15197 *
	1800	445TSCV	—	—	13592 *
	1800	445TCV	—	—	13592 *
150	1200	447TSCV	—	—	16047 *
	1200	447TCV	—	—	16047 *
	900	447TCV	—	—	22070 *
	3600	447TSCV	—	—	18440 *
	1800	447TSCV	—	—	16171 *
200	1800	447TCV	—	—	16171 *
	1200	449TCV	—	—	19270 *
	900	449TCV	—	—	22370 *
	3600	449TSCV	—	—	22820 *
	1800	449TSCV	—	—	19862 *
250	1800	449TCV	—	—	19862 *
	1200	449TSCV	—	—	20822 *
	1200	449TCV	—	—	20822 *
	3600	449TSCV	—	—	27989 *
300	1800	449TSCV	—	—	20958 *
	1800	449TCV	—	—	20958 *

*Indicates non-stock item build unit.

General Notes:

- Standard voltage is 460 volts only for motors 25 HP and larger.
- Frames 284T and larger are available in long or short shaft. TS indicates direct connection only.
- All 3600 RPM motors 25 HP and above suitable for direct connection only.
- C-Face motors are direct connect only.
- Motors are suitable for use on ASD per NEMA MG1 Part 31 for 60 Hz and below variable torque or 60-15 Hz constant torque applications

Prices and data subject to change without notice.

RGZVESD

High Efficiency
Totally Enclosed
Fan Cooled
Vertical Solid Shaft
NEMA P-Base
Severe Duty

230/460 Volts
(575 Volts Available)

3 Phase-60 Hertz
40°C Ambient
Anti-friction
1.15 Service Factor

Multiplier Symbol SA-7EN

Normal Thrust						Cont. Thrust 1 Yr. Life Min.		
HP	RPM	Frame	Catalog #	Part Number	List $	Up Lbs.	Down Lbs.	BD In.
1	1800	143HP	—	—	500	355	380	10
	1200	145HP	—	—	678	415	445	10
	900	182HP	—	—	1037	465	495	10
1.5	3600	143HP	—	—	643	275	295	10
	1800	145HP	—	—	578	330	385	10
	1200	182HP	—	—	802	510	550	10
	900	184HP	—	—	1170	570	615	10
2	3600	145HP	—	—	678	275	295	10
	1800	145HP	—	—	655	350	385	10
	1200	184HP	—	—	923	510	550	10
	900	213HP	—	—	1340	570	615	10
3	3600	182HP	VPG 7899	1LA01822NE2B	890	340	365	10
	1800	182HP	VPG 8011	1LA01824NE2B	785	430	480	10
	1200	213HP	—	—	1218	725	785	10
	900	215HP	—	—	1685	810	875	10
5	3600	184HP	VPG 7906	1LA01842NE2B	1248	330	375	10
	1800	184HP	VPG 8018	1LA01844NE2B	1093	425	485	10
	1200	215HP	—	—	1715	720	790	10
	900	254HP	—	—	2063	805	885	10
7.5	3600	213HP	VPH 7913	1LA02132NE2B	1548	475	525	10
	1800	213HP	VPH 8025	1LA02134NE2B	1498	610	685	10
	1200	254HP	—	—	2045	1025	1130	10
	900	256HP	—	—	2505	1150	1260	10
10	3600	215HP	VPH 7920	1LA02152NE2B	1685	470	530	10
	1800	215HP	VPH 8032	1LA02154NE2B	1685	605	690	10
	1200	256HP	—	—	2310	1015	1140	10
	900	284HP	—	—	3045	1140	1275	10
15	3600	254HP	VPR 7927	1LA02542NE2B	1943	670	760	10
	1800	254HP	VPR 8039	1LA02544NE2B	2013	870	980	10
	1200	284HP	—	—	2693	985	1170	10
	900	286HP	—	—	3703	1100	1310	10
20	3600	256HP	VPR 7934	1LA02562NE2B	2125	665	765	10
	1800	256HP	VPR 8046	1LA02564NE2B	2295	855	995	10
	1200	286HP	—	—	3273	965	1190	10
	900	324HP	—	—	4522	1080	1330	16.5
25	3600	284HP	VPJ 7941	1LA02842NE4B	2289	645	785	10
	1800	284HP	VPJ 8053	1LA02844NE4B	2558	830	1020	10
	1200	324HP	—	—	3830	1535	1795	16.5
	900	326HP	—	—	5184	1720	2000	16.5

General Notes:

- Standard voltage is 460 Volts for motors 25 HP and larger.
- For medium thrust motors contact the factory.
- Derate thrust capacity by 31% to obtain 3 year L10 brg life.
- Non reverse ratchet available - contact factory.

RGZVESD

High Efficiency
Totally Enclosed
Fan Cooled
Vertical Solid Shaft
NEMA P-Base
Severe Duty

230/460 Volts
(575 Volts Available)

3 Phase-60 Hertz
40°C Ambient
Anti-friction
1.15 Service Factor

Multiplier Symbol SA-7EN

Normal Thrust						Cont. Thrust 1 Yr. Life Min.		
HP	RPM	Frame	Catalog #	Part Number	List $	Up Lbs.	Down Lbs.	BD In.
30	3600	286HP	VPJ 7948	1LA02862NE4B	2478	635	795	10
	1800	286HP	VPJ 8060	1LA02864NE4B	2878	815	1035	10
	1200	326HP	—	—	4373	1510	1820	16.5
	900	364HP	—	—	6013	1860	2320	16.5
40	3600	324HP	VPK 7955	1LA03242NE4B	3402	1005	1205	16.5
	1800	324HP	VPK 8067	1LA03244NE4B	3428	1290	1570	16.5
	1200	364HP	—	—	5725	1675	2075	16.5
	900	365HP	—	—	7184	1840	2340	16.5
50	3600	326HP	VPK 7962	1LA03262NE4B	4268	995	1215	16.5
	1800	326HP	VPK 8074	1LA03264NE4B	4065	1275	1585	16.5
	1200	365HP	—	—	6750	1660	2095	16.5
	900	404HP	—	—	8591	1810	2370	16.5
60	3600	364HP	VPL 7969	1LA03642NE4B	5432	1080	1410	16.5
	1800	364HP	VPL 8081	1LA03644NE4B	5389	1435	1795	16.5
	1200	404HP	—	—	7697	1595	2155	16.5
	900	405HP	—	—	9742	1770	2410	16.5
75	3600	365HP	VPL 7976	1LA03652NE4B	6715	1070	1420	16.5
	1800	365HP	VPL 8088	1LA03654NE4B	6720	1415	1815	16.5
	1200	405HP	—	—	9052	1555	2195	16.5
	900	444HP	—	—	12777	1685	2495	16.5
100	3600	405HP	—	—	8945	1015	1475	16.5
	1800	405HP	—	—	8293	1315	1915	16.5
	1200	444HP	—	—	12065	1435	2315	16.5
	900	445HP	—	—	15655	1615	2565	16.5
125	1800	444HP	—	—	10857	1255	1975	16.5
	1200	445HP	—	—	14585	1365	2385	16.5
	900	447HP	—	—	17985	1510	2670	16.5
150	1800	445HP	—	—	12525	1170	2060	16.5
	1200	447HP	—	—	18125	1350	2400	16.5
	900	447HP	—	—	20451	1450	2730	16.5
200	1800	447HP	—	—	17120	1115	2115	16.5
	1200	449HP	—	—	20650	1300	2450	16.5
	900	449HP	—	—	23010	1380	2800	16.5
250	1800	449HP	—	—	19890	1045	2185	16.5
	1200	449HP	—	—	22710	1230	2520	16.5

General Notes:

- Standard voltage is 460 Volts for motors 25 HP and larger.
- For medium thrust motors contact the factory.
- Derate thrust capacity by 31% to obtain 3 year L10 brg life.
- Non reverse ratchet available - contact factory.

RGZVMTESD

High Efficiency
Totally Enclosed
Fan Cooled
Vertical Solid Shaft
NEMA P-Base
Severe Duty

230/460 Volts
(575 Volts Available)

3 Phase-60 Hertz
40°C Ambient
Anti-friction
1.15 Service Factor

Multiplier Symbol SA-7EN

Medium Thrust						Cont. Thrust 1 Yr. Life Min.		
HP	RPM	Frame	Catalog #	Part Number	List $	Up Lbs.	Down Lbs.	BD In.
1	1800	143HP	—	—	665	*	915	10
	1200	145HP	—	—	902	*	1060	10
	900	182HP	—	—	1379	*	1150	10
1.5	3600	143HP	—	—	855	*	735	10
	1800	145HP	—	—	769	*	915	10
	1200	182HP	—	—	1067	*	1390	10
	900	184HP	—	—	1556	*	1510	10
2	3600	145HP	—	—	902	*	735	10
	1800	145HP	—	—	871	*	915	10
	1200	184HP	—	—	1228	*	1390	10
	900	213HP	—	—	1782	*	2050	10
3	3600	182HP	—	—	1182	*	965	10
	1800	182HP	—	—	1150	*	1210	10
	1200	213HP	—	—	1374	*	1870	10
	900	215HP	—	—	1904	*	2050	10
5	3600	184HP	—	—	1306	*	965	10
	1800	184HP	—	—	1233	*	1210	10
	1200	215HP	—	—	1788	*	1870	10
	900	254HP	—	—	2145	*	3260	10
7.5	3600	213HP	—	—	1613	*	1300	10
	1800	213HP	—	—	1560	*	1630	10
	1200	254HP	—	—	2130	*	2980	10
	900	256HP	—	—	2605	*	3260	10
10	3600	215HP	—	—	1755	*	1300	10
	1800	215HP	—	—	1755	*	1630	10
	1200	256HP	—	—	2405	*	2980	10
	900	284HP	—	—	3167	*	3250	10
15	3600	254HP	—	—	2023	*	2060	10
	1800	254HP	—	—	2098	*	2580	10
	1200	284HP	—	—	2896	*	2930	10
	900	286HP	—	—	3981	*	3250	10
20	3600	256HP	—	—	2270	*	2060	10
	1800	256HP	—	—	2390	*	2580	10
	1200	286HP	—	—	3410	*	2930	10
	900	324HP	—	—	4702	*	4930	16.5
25	3600	284HP	—	—	2714	*	2025	10
	1800	284HP	—	—	2665	*	2550	10
	1200	324HP	—	—	3988	*	4465	16.5
	900	326HP	—	—	5391	*	4930	16.5

*Guide bearing is locked for 30% momentary upthrust

General Notes:

- Standard voltage is 460 Volts for motors 25 HP and larger.
- Thrust capacity is based on 1 year min., 5 year average L10 life.
- Thrust bearing is grease lubricated.

RGZVMTESD

High Efficiency
Totally Enclosed
Fan Cooled
Vertical Solid Shaft
NEMA P-Base
Severe Duty

230/460 Volts
(575 Volts Available)

3 Phase-60 Hertz
40°C Ambient
Anti-friction
1.15 Service Factor

Multiplier Symbol SA-7EN

Medium Thrust						Cont. Thrust 1 Yr. Life Min.		
HP	RPM	Frame	Catalog #	Part Number	List $	Up Lbs.	Down Lbs.	BD In.
30	3600	286HP	—	—	2880	*	2025	10
	1800	286HP	—	—	2998	*	2550	10
	1200	326HP	—	—	4458	*	4465	16.5
	900	364HP	—	—	6133	*	5020	16.5
40	3600	324HP	—	—	3840	*	3090	16.5
	1800	324HP	—	—	3715	*	3875	16.5
	1200	364HP	—	—	5673	*	4985	16.5
	900	365HP	—	—	7256	*	5480	16.5
50	3600	326HP	—	—	4706	*	3090	16.5
	1800	326HP	—	—	4359	*	3875	16.5
	1200	365HP	—	—	6675	*	4985	16.5
	900	404HP	—	—	8686	*	5410	16.5
60	3600	364HP	—	—	5857	*	3435	16.5
	1800	364HP	—	—	5814	*	4345	16.5
	1200	404HP	—	—	7610	*	4880	16.5
	900	405HP	—	—	9849	*	5410	16.5
75	3600	365HP	—	—	7140	*	3435	16.5
	1800	365HP	—	—	7145	*	4345	16.5
	1200	405HP	—	—	8951	*	4880	16.5
	900	444HP	—	—	12918	*	5160	16.5
100	3600	405HP	—	—	9633	*	3375	16.5
	1800	405HP	—	—	8682	*	4245	16.5
	1200	444HP	—	—	11876	*	4485	16.5
	900	445HP	—	—	15904	*	5160	16.5
125	1800	444HP	—	—	11031	*	3920	16.5
	1200	445HP	—	—	15335	*	4485	16.5
150	1800	445HP	—	—	12880	*	3920	16.5
	1200	447HP	—	—	17835	*	4400	16.5
200	1800	447HP	—	—	16848	*	3820	16.5

*Guide bearing is locked for 30% momentary upthrust

General Notes:

- Standard voltage is 460 Volts for motors 25 HP and larger.
- Thrust capacity is based on 1 year min., 5 year average L10 life.
- Thrust bearing is grease lubricated.

RGZVILESD

High Efficiency
Totally Enclosed
Fan Cooled
Vertical Solid Shaft
NEMA P-Base
In-Line Pump
Severe Duty

230/460 Volts
(575 Volts Available)

3 Phase-60 Hertz
40°C Ambient
Anti-friction
1.15 Service Factor

General Notes:

- Standard voltage is 460 Volts for motors 25 HP and larger.
- For medium thrust motors contact the factory.
- Derate thrust capacity by 13% to obtain 3 year L10 brg life.

Multiplier Symbol SA-7EN

Normal Thrust						Cont. Thrust 2 Yr. Life Min.		
						Up	Down	Rad.
HP	RPM	Frame	Catalog #	Part Number	List $	Lbs.	Lbs.	Lbs.
3	3600	182LP	VPG 8347	1LA01822LE2D	1182	785	735	930
	1800	182LP	VPG 8459	1LA01824LE2D	1150	980	910	1160
	1200	213LP			1374	1115	1055	1320
5	3600	184LP	VPG 8354	1LA01842LE2D	1306	785	735	930
	1800	184LP	VPG 8466	1LA01844LE2D	1233	980	910	1160
	1200	215LP			1788	1120	1050	1320
7.5	3600	213LP	VPH 8361	1LA02132LE2D	1613	785	735	930
	1800	213LP	VPH 8473	1LA02134LE2D	1560	980	910	1160
	1200	254LP			2130	1350	1240	1600
10	3600	215LP	VPH 8368	1LA02152LE2D	1755	790	730	930
	1800	215LP	VPH 8480	1LA02154LE2D	1755	985	905	1160
	1200	256LP			2405	1360	1230	1600
15	3600	254LP	VPR 8375	1LA02542LE2D	2023	945	855	1100
	1800	254LP	VPR 8487	1LA02544LE2D	2098	1185	1075	1400
	1200	284LPH			2896	1975	1785	2120
20	3600	256LP	VPR 8382	1LA02562LE2D	2270	950	850	1100
	1800	256LP	VPR 8494	1LA02564LE2D	2390	1200	1060	1400
	1200	286LPH			3410	1990	1770	2120
25	3600	284LPH	VPJ 8389	1LA02842LE4Q	2714	1460	1320	1475
	1800	284LPH	VPJ 8501	1LA02844LE4Q	2665	1725	1535	1850
	1200	324LP			3988	2010	1750	1875
30	3600	286LPH	VPJ 8396	1LA02862LE4Q	2880	1470	1310	1475
	1800	286LPH	VPJ 8508	1LA02864LE4Q	2998	1740	1520	1850
	1200	326LP			4458	2035	1725	1875
40	3600	324LP	VPK 8403	1LA03242LE4D	3840	1490	1290	1600
	1800	324LP	VPK 8515	1LA03244LE4D	3715	1770	1490	1650
	1200	364LP			5673	2540	2140	2120
50	3600	326LP	VPK 8410	1LA03262LE4D	4706	1505	1275	1600
	1800	326LP	VPK 8522	1LA03264LE4D	4359	1785	1475	1650
	1200	365LP			6675	2560	2120	2120
60	3600	364LP	VPL 8417	1LA03642LE4D	5857	1840	1510	1475
	1800	364LP	VPL 8529	1LA03644LE4D	5814	2330	2060	1850
	1200	404LP			7610	2620	2060	2120
75	3600	365LP	VPL 8424	1LA03652LE4D	7140	1850	1500	1475
	1800	365LP	VPL 8536	1LA03654LE4D	7145	2345	1945	1850
	1200	405LP			8951	2660	2020	2120
100	3600	405LP	VPM 8431	1LA04052LE4D	9633	1905	1445	1475
	1800	405LP	VPM 8543	1LA04054LE4D	8682	2445	1845	1850
	1200	444LP	—	—	11876	2780	1900	2120
125	1800	444LP	—	—	11031	2530	1760	1850
	1200	445LP	—	—	15335	2850	1830	2120
150	1800	445LP	—	—	12880	2590	1700	1850
	1200	447LP	—	—	17835	2945	1735	2120
200	1800	447LP	—	—	16848	2650	1645	1850
	1200	449LP	—	—	17866	3040	1640	2120
250	1800	449LP	—	—	18458	2710	1590	1850
	1200	449LP	—	—	19328	3735	1550	2120

Prices and data subject to change without notice.

RGZZVILESD

High Efficiency
Explosion Proof
Vertical Solid Shaft
NEMA P-Base
In-Line Pump

230/460 Volts
(575 Volts Available)

3 Phase-60 Hertz
40°C Ambient
Anti-friction
1.0 Service Factor

Multiplier Symbol SA-7EN

Normal Thrust						Cont. Thrust 2 Yr. Life Min.		
HP	RPM	Frame	Catalog #	Part Number	List $	Up Lbs.	Down Lbs.	Rad. Lbs.
3	3600	182LP	VEG 8571	1MJ01822LX2D	1422	785	735	930
	1800	182LP	VEG 8683	1MJ01824LX2D	1390	980	910	1160
	1200	213LP	—	—	1634	1115	1055	1320
5	3600	184LP	VEG 8578	1MJ01842LX2D	1638	785	735	930
	1800	184LP	VEG 8690	1MJ01844LX2D	1475	980	910	1160
	1200	215LP	—	—	2225	1120	1050	1320
7.5	3600	213LP	VEH 8585	1MJ02132LX2D	1950	785	735	930
	1800	213LP	VEH 8697	1MJ02134LX2D	1998	980	910	1160
	1200	254LP	—	—	2568	1350	1240	1600
10	3600	215LP	VEH 8592	1MJ02152LX2D	2193	790	730	930
	1800	215LP	VEH 8704	1MJ02154LX2D	2193	985	905	1160
	1200	256LP	—	—	3205	1360	1230	1600
15	3600	254LP	VER 8599	1MJ02542LX2D	2460	945	855	1100
	1800	254LP	VER 8711	1MJ02544LX2D	2898	1185	1075	1400
	1200	284LPH	—	—	4055	1975	1785	2120
20	3600	256LP	VER 8606	1MJ02562LX2D	3013	950	850	1100
	1800	256LP	VER 8718	1MJ02564LX2D	3190	1200	1060	1400
	1200	286LPH	—	—	4660	1990	1770	2120
25	3600	284LPH	VEJ 8613	1MJ02842LX4Q	3588	1460	1320	1475
	1800	284LPH	VEJ 8725	1MJ02844LX4Q	3915	1725	1535	1850
	1200	324LP	—	—	5488	2010	1750	1875
30	3600	286LPH	VEJ 8620	1MJ02862LX4Q	3830	1470	1310	1475
	1800	286LPH	VEJ 8732	1MJ02864LX4Q	4248	1740	1520	1850
	1200	326LP	—	—	6023	2035	1725	1875
40	3600	324LP	VEK 8627	1MJ03242LX4D	5333	1490	1290	1600
	1800	324LP	VEK 8739	1MJ03244LX4D	5088	1770	1490	1650
	1200	364LP	—	—	7910	2540	2140	2120
50	3600	326LP	VEK 8634	1MJ03262LX4D	5890	1505	1275	1600
	1800	326LP	VEK 8746	1MJ03264LX4D	5720	1785	1475	1650
	1200	365LP	—	—	8925	2560	2120	2120
60	3600	364LP	VEL 8641	1MJ03642LX4D	7605	1840	1510	1475
	1800	364LP	VEL 8753	1MJ03644LX4D	7225	2330	2060	1850
	1200	404LP	—	—	10067	2620	2060	2120
75	3600	365LP	VEL 8648	1MJ03652LX4D	9265	1850	1500	1475
	1800	365LP	VEL 8760	1MJ03654LX4D	8683	2345	1945	1850
	1200	405LP	—	—	11408	2660	2020	2120
100	3600	405LP	VEM 8655	1MJ04052LX4D	11474	1905	1445	1475
	1800	405LP	VEM 8767	1MJ04054LX4D	10098	2445	1845	1850
	1200	444LP	—	—	14918	2780	1900	2120
125	1800	444LP	—	—	12912	2530	1760	1850
	1200	445LP	—	—	18585	2850	1830	2120
150	1800	445LP	—	—	15098	2590	1700	1850
	1200	447LP	—	—	21345	2945	1735	2120
200	1800	447LP	—	—	20358	2650	1645	1850
	1200	449LP	—	—	20897	3040	1640	2120
250	1800	449LP	—	—	21236	2710	1590	1850
	1200	449LP	—	—	21963	3735	1550	2120

General Notes:

- Standard voltage is 460 Volts for motors 25 HP and larger.
- For medium thrust motors contact the factory.
- RGZZVILESD units are standard Class 1 Group D Division 1, Temp code T2D. For Class 1 Groups C & D, contact the factory for availability.
- Derate thrust capacity by 13% to obtain 3 year L10 brg life.

Prices and data subject to change without notice.

RGZZVMTESD

High Efficiency
Totally Enclosed
Fan Cooled
Explosion Proof
Vertical Solid Shaft
NEMA P-Base

230/460 Volts
(575 Volts Available)

3 Phase-60 Hertz
40°C Ambient
Anti-friction
1.0 Service Factor

Multiplier Symbol SA-7EN

Medium Thrust						Cont. Thrust 1 Yr. Life Min.		
HP	RPM	Frame	Catalog #	Part Number	List $	Up Lbs.	Down Lbs.	BD In.
1	1800	143HP	—	—	960	*	915	10
	1200	145HP	—	—	1174	*	1060	10
	900	182HP	—	—	1566	*	1150	10
1.5	3600	143HP	—	—	1132	*	735	10
	1800	145HP	—	—	1054	*	915	10
	1200	182HP	—	—	1322	*	1390	10
	900	184HP	—	—	1716	*	1510	10
2	3600	145HP	—	—	1174	*	735	10
	1800	145HP	—	—	1146	*	915	10
	1200	184HP	—	—	1512	*	1390	10
	900	213HP	—	—	1978	*	2050	10
3	3600	182HP	—	—	1422	*	965	10
	1800	182HP	—	—	1390	*	1210	10
	1200	213HP	—	—	1634	*	1870	10
	900	215HP	—	—	2231	*	2050	10
5	3600	184HP	—	—	1638	*	965	10
	1800	184HP	—	—	1475	*	1210	10
	1200	215HP	—	—	2225	*	1870	10
	900	254HP	—	—	2584	*	3260	10
7.5	3600	213HP	—	—	1950	*	1300	10
	1800	213HP	—	—	1998	*	1630	10
	1200	254HP	—	—	2568	*	2980	10
	900	256HP	—	—	3279	*	3260	10
10	3600	215HP	—	—	2193	*	1300	10
	1800	215HP	—	—	2193	*	1630	10
	1200	256HP	—	—	3205	*	2980	10
	900	284HP	—	—	3847	*	3250	10
15	3600	254HP	—	—	2460	*	2060	10
	1800	254HP	—	—	2898	*	2580	10
	1200	284HP	—	—	4055	*	2930	10
	900	286HP	—	—	4715	*	3250	10
20	3600	256HP	—	—	3013	*	2060	10
	1800	256HP	—	—	3190	*	2580	10
	1200	286HP	—	—	4660	*	2930	10
	900	324HP	—	—	5840	*	4930	16.5
25	3600	284HP	—	—	3588	*	2025	10
	1800	284HP	—	—	3915	*	2550	10
	1200	324HP	—	—	5488	*	4465	16.5
	900	326HP	—	—	6268	*	4930	16.5

*Guide bearing is locked for 30% momentary upthrust

General Notes:

- Standard voltage is 460 Volts for motors 25 HP and larger.
- RGZZVMTESD units are standard Class 1 Group D Division 1, Temp code T2D. For Class 1 Groups C & D, contact the factory for availability.
- Thrust capacity is based on 1 year min., 5 year average L10 life.
- Thrust bearing is grease lubricated.

RGZZVMTESD

High Efficiency
Totally Enclosed
Fan Cooled
Explosion Proof
Vertical Solid Shaft
NEMA P-Base

230/460 Volts
(575 Volts Available)

3 Phase-60 Hertz
40°C Ambient
Anti-friction
1.0 Service Factor

Multiplier Symbol SA-7EN

Medium Thrust HP	RPM	Frame	Catalog #	Part Number	List $	Cont. Thrust 1 Yr. Life Min. Up Lbs.	Down Lbs.	BD In.
30	3600	286HP	—	—	3830	*	2025	10
	1800	286HP	—	—	4248	*	2550	10
	1200	326HP	—	—	6023	*	4465	16.5
	900	364HP	—	—	7743	*	5020	16.5
40	3600	324HP	—	—	5333	*	3090	16.5
	1800	324HP	—	—	5088	*	3875	16.5
	1200	364HP	—	—	7910	*	4985	16.5
	900	365HP	—	—	8870	*	5480	16.5
50	3600	326HP	—	—	5890	*	3090	16.5
	1800	326HP	—	—	5720	*	3875	16.5
	1200	365HP	—	—	8925	*	4985	16.5
	900	404HP	—	—	11146	*	5410	16.5
60	3600	364HP	—	—	7605	*	3435	16.5
	1800	364HP	—	—	7225	*	4345	16.5
	1200	404HP	—	—	10067	*	4880	16.5
	900	405HP	—	—	11146	*	5410	16.5
75	3600	365HP	—	—	9265	*	3435	16.5
	1800	365HP	—	—	8683	*	4345	16.5
	1200	405HP	—	—	11408	*	4880	16.5
	900	444HP	—	—	14890	*	5160	16.5
100	3600	405HP	—	—	11474	*	3375	16.5
	1800	405HP	—	—	10098	*	4245	16.5
	1200	444HP	—	—	14918	*	4485	16.5
	900	445HP	—	—	17665	*	5160	16.5
125	1800	444HP	—	—	12912	*	3920	16.5
	1200	445HP	—	—	18585	*	4485	16.5
150	1800	445HP	—	—	15098	*	3920	16.5
	1200	447HP	—	—	21345	*	4400	16.5
200	1800	447HP	—	—	20358	*	3820	16.5

*Guide bearing is locked for 30% momentary upthrust

General Notes:

- Standard voltage is 460 Volts for motors 25 HP and larger.
- RGZZVMTESD units are standard Class 1 Group D Division 1, Temp code T2D. For Class 1 Groups C & D, contact the factory for availability.
- Thrust capacity is based on 1 year min., 5 year average L10 life.
- Thrust bearing is grease lubricated.

RGZZVESD

High Efficiency Explosion Proof Vertical Solid Shaft NEMA P-Base

230/460 Volts
(575 Volts Available)

3 Phase-60 Hertz
40°C Ambient
Anti-friction
1.0 Service Factor

Multiplier Symbol SA-7EN

Normal Thrust						Cont. Thrust 1 Yr. Life Min.		
HP	RPM	Frame	Catalog #	Part Number	List $	Up Lbs.	Down Lbs.	BD In.
1	1800	143HP	—	—	800	355	380	10
	1200	145HP	—	—	978	415	445	10
	900	182HP	—	—	1305	465	495	10
1.5	3600	143HP	—	—	943	275	295	10
	1800	145HP	—	—	878	330	385	10
	1200	182HP	—	—	1102	510	550	10
	900	184HP	—	—	1430	570	615	10
2	3600	145HP	—	—	978	275	295	10
	1800	145HP	—	—	955	350	385	10
	1200	184HP	—	—	1260	510	550	10
	900	213HP	—	—	1648	570	615	10
3	3600	182HP	VEG 8123	1MJ01822NX2B	1190	340	365	10
	1800	182HP	VEG 8235	1MJ01824NX2B	1118	430	480	10
	1200	213HP	—	—	1555	725	785	10
	900	215HP	—	—	2123	810	875	10
5	3600	184HP	VEG 8130	1MJ01842NX2B	1585	330	375	10
	1800	184HP	VEG 8242	1MJ01844NX2B	1430	425	485	10
	1200	215HP	—	—	2153	720	790	10
	900	254HP	—	—	2500	805	885	10
7.5	3600	213HP	VEH 8137	1MJ02132NX2B	1885	475	525	10
	1800	213HP	VEH 8249	1MJ02134NX2B	1935	610	685	10
	1200	254HP	—	—	2483	1025	1130	10
	900	256HP	—	—	3170	1150	1260	10
10	3600	215HP	VEH 8144	1MJ02152NX2B	2123	470	530	10
	1800	215HP	VEH 8256	1MJ02154NX2B	2123	605	690	10
	1200	256HP	—	—	3110	1015	1140	10
	900	284HP	—	—	3733	1140	1275	10
15	3600	254HP	VER 8151	1MJ02542NX2B	2380	670	760	10
	1800	254HP	VER 8263	1MJ02544NX2B	2813	870	980	10
	1200	284HP	—	—	3943	985	1170	10
	900	286HP	—	—	4585	1100	1310	10
20	3600	256HP	VER 8158	1MJ02562NX2B	2925	665	765	10
	1800	256HP	VER 8270	1MJ02564NX2B	3095	855	995	10
	1200	286HP	—	—	4523	965	1190	10
	900	324HP	—	—	5668	1080	1330	16.5
25	3600	284HP	VEJ 8165	1MJ02842NX4B	3495	645	785	10
	1800	284HP	VEJ 8277	1MJ02844NX4B	3808	830	1020	10
	1200	324HP	—	—	5530	1535	1795	16.5
	900	326HP	—	—	6268	1720	2000	16.5

General Notes:

- Standard voltage is 460 Volts for motors 25 HP and larger.
- RGZZVESD is available in Class 1 Group D Division 1 only, Temp code T2D.
- Derate thrust capacity by 31% to obtain 3 year L10 brg life.

Prices and data subject to change without notice.

RGZZVESD

High Efficiency
Explosion Proof
Vertical Solid Shaft
NEMA P-Base

230/460 Volts
(575 Volts Available)

3 Phase-60 Hertz
40°C Ambient
Anti-friction
1.0 Service Factor

Multiplier Symbol SA-7EN

Normal Thrust						Cont. Thrust 1 Yr. Life Min.		
HP	RPM	Frame	Catalog #	Part Number	List $	Up Lbs.	Down Lbs.	BD In.
30	3600	286HP	VEJ 8172	1MJ02862NX4B	3728	635	795	10
	1800	286HP	VEJ 8284	1MJ02864NX4B	4128	815	1035	10
	1200	326HP	—	—	6073	1510	1820	16.5
	900	364HP	—	—	7743	1860	2320	16.5
40	3600	324HP	VEK 8179	1MJ03242NX4B	4970	1005	1205	16.5
	1800	324HP	VEK 8291	1MJ03244NX4B	5128	1290	1570	16.5
	1200	364HP	—	—	7975	1675	2075	16.5
	900	365HP	—	—	8870	1840	2340	16.5
50	3600	326HP	VEK 8186	1MJ03262NX4B	5470	995	1215	16.5
	1800	326HP	VEK 8298	1MJ03264NX4B	5765	1275	1585	16.5
	1200	365HP	—	—	9000	1660	2095	16.5
	900	404HP	—	—	11146	1810	2370	16.5
60	3600	364HP	VEL 8193	1MJ03642NX4B	7070	1080	1410	16.5
	1800	364HP	VEL 8305	1MJ03644NX4B	7280	1435	1795	16.5
	1200	404HP	—	—	10154	1595	2155	16.5
	900	405HP	—	—	11146	1770	2410	16.5
75	3600	365HP	VEL 8200	1MJ03652NX4B	8645	1070	1420	16.5
	1800	365HP	VEL 8312	1MJ03654NX4B	8753	1415	1815	16.5
	1200	405HP	—	—	11508	1555	2195	16.5
	900	444HP	—	—	14890	1685	2495	16.5
100	3600	405HP	—	—	10575	1015	1475	16.5
	1800	405HP	—	—	10185	1315	1915	16.5
	1200	444HP	—	—	15110	1435	2315	16.5
	900	445HP	—	—	17665	1615	2565	16.5
125	1800	444HP	—	—	13075	1255	1975	16.5
	1200	445HP	—	—	17630	1365	2385	16.5
	900	447HP	—	—	20580	1510	2670	16.5
150	1800	445HP	—	—	15300	1170	2060	16.5
	1200	447HP	—	—	21635	1350	2400	16.5
	900	447HP	—	—	22450	1450	2730	16.5
200	1800	447HP	—	—	20630	1115	2115	16.5
	1200	449HP	—	—	23570	1300	2450	16.5
	900	449HP	—	—	25215	1380	2800	16.5
250	1800	449HP	—	—	22815	1045	2185	16.5
	1200	449HP	—	—	25635	1230	2520	16.5

General Notes:

- Standard voltage is 460 Volts for motors 25 HP and larger.
- RGZZVESD is available in Class 1 Group D Division 1 only, Temp code T2D.
- Derate thrust capacity by 31% to obtain 3 year L10 brg life.

RGZZESD

High Efficiency Explosion Proof Class I Groups C and D

230/460 Volts
(575 Volts Available)

3-Phase-60 Hertz
40°C Ambient
Anti-Friction
Horizontal
Foot Mounted
1.0 Service Factor

Contact Factory for 1.15 Service Factor

Multiplier Symbol SA-7MXP

HP	RPM	Frame	Catalog No.	Part No.	RGZZESD Std. List $	RGZZESD C-FL* Ftd. $	RGZZESD C-FL Rnd. $
1	1800	143T	HEF7682	1MJ01444XC21	759	812	918
	1200	145T	—	—	846	899	1005
	900	182T	—	—	1365	1441	1524
1.5	3600	143T	—	—	784	837	943
	1800	145T	HEF7689	1MJ01454XC21	799	852	958
	1200	182T	—	—	904	980	1063
	900	184T	—	—	1568	1644	1727
2	3600	145T	—	—	860	913	1019
	1800	145T	HEF7696	1MJ01464XC21	839	892	998
	1200	184T	—	—	992	1068	1151
	900	213T	—	—	1870	1946	2029
3	3600	182T	—	—	919	995	1078
	1800	182T	HEG7703	1MJ01824XC21	916	992	1075
	1200	213T	—	—	1194	1270	1353
	900	215T	—	—	2194	2270	2353
5	3600	184T	—	—	1072	1148	1231
	1800	184T	HEG7710	1MJ01844XC21	999	1075	1158
	1200	215T	—	—	1476	1552	1635
	900	254T	—	—	2344	2443	2557
7.5	3600	213T	—	—	1284	1360	1443
	1800	213T	HEH7717	1MJ02134XC21	1279	1355	1438
	1200	254T	—	—	1902	2001	2115
	900	256T	—	—	2799	2898	3012
10	3600	215T	—	—	1416	1492	1575
	1800	215T	HEH7724	1MJ02154XC21	1438	1514	1597
	1200	256T	—	—	2189	2288	2402
	900	284T	—	—	3615	3655	3833
15	3600	254T	—	—	1863	1962	2076
	1800	254T	HEI7731	1MJ02544XC21	1841	1940	2054
	1200	284T	—	—	2993	3133	3311
	900	286T	—	—	4463	4603	4781
20	3600	256T	—	—	2162	2261	2375
	1800	256T	HEI7738	1MJ02564XC21	2144	2243	2357
	1200	286T	—	—	3451	3951	3769
	900	324T	—	—	5436	5652	5856

* See Modification Section "Endshields" for 140-250 frame "BA" dimensions

General Notes:

- Standard voltage is 460 Volts only for motors 25 HP and above.
- Frames 284T and larger are available in long or short shaft. TS indicates direct connection only.
- All 3600 RPM motors 25 HP and above suitable for direct connect only.

RGZZESD

High Efficiency Explosion Proof Class I Groups C and D

230/460 Volts
(575 Volts Available)

3-Phase-60 Hertz
40°C Ambient
Anti-Friction
Horizontal
Foot Mounted
1.0 Service Factor
T3C Temperature Code

Contact Factory for 1.15 Service Factor

General Notes:

- Standard voltage is 460 Volts only for motors 25 HP and larger.
- Frames 284T and larger are available in long or short shaft. TS indicates direct connection only.
- All 3600 RPM motors 25 HP and above suitable for direct connect only.

Multiplier Symbol SA-7MXP

HP	RPM	Frame	Catalog No.	Part No.	RGZZESD Std. List $	RGZZESD C-FL* Ftd. $	RGZZESD C-FL Rnd. $
25	3600	284TS	—	—	2811	2951	3129
	1800	284T	HEJ7745	1MJ02844XC41	2725	2865	3043
	1200	324T	—	—	4369	4585	4789
	900	326T	—	—	6311	6527	6731
30	3600	286TS	—	—	3132	3272	3450
	1800	286T	HEJ7752	1MJ02864XC41	3022	3162	3340
	1200	326T	—	—	4839	5055	5259
	900	364T	—	—	7396	7705	8119
40	3600	324TS	—	—	4221	4437	4641
	1800	324T	HEK7759	1MJ03244XC41	4096	4312	4516
	1200	364T	—	—	6553	6862	7276
	900	365T	—	—	8679	8988	9402
50	3600	326TS	—	—	5087	5303	5507
	1800	326T	HEK7766	1MJ03264XC41	4740	4956	5160
	1200	365T	—	—	7269	7578	7992
	900	404T	—	—	10531	11009	11589
60	3600	364TS	—	—	6650	6959	7373
	1800	364T	HEL7773	1MJ03644XC41	6607	6916	7330
	1200	404T	—	—	9268	9746	10326
	900	405T	—	—	12473	12951	13531
75	3600	365TS	—	—	7933	8242	8656
	1800	365T	HEL7780	1MJ03654XC41	7938	8247	8661
	1200	405T	—	—	10421	10899	11479
	900	444TS	—	—	16007	16605	17677
100	3600	405TS	—	—	11106	11584	12164
	1800	405T	HEM7787	1MJ04054XC41	10454	10932	11512
	1200	444TS	—	—	13657	14255	15327
	900	445TS	—	—	18909	19507	20579
125	3600	444TS	—	—	14230	14828	15900
	1800	444TS	—	—	13450	14048	15120
	1200	445TS	—	—	16045	16643	17715
	900	447TS	—	—	20357	20962	22027
150	3600	445TS	—	—	16452	17050	18122
	1800	445TS	—	—	15117	15715	16787
	1200	449TS	—	—	18117	18722	19787
	900	449TS	—	—	25371	25976	27041
200	3600	447TS	—	—	21012	21617	22682
	1800	447TS	—	—	18426	19031	20096
	1200	449TS	—	—	21240	21845	22910
	900	449TS	—	—	26633	27238	28303
250	3600	449TS	—	—	25014	25619	26684
	1800	449TS	—	—	21559	22164	23229
	1200	449TS	—	—	25276	25881	26946
300	3600	449TS	—	—	32523	33128	34193
	1800	449TS	—	—	24508	25113	26178

* See Modification Section "Endshields" for 140-250 frame "BA" dimensions

RGZZESD

High Efficiency
Explosion Proof
Dust Ignition Proof
Class 1 Group D
Class 2 Groups F & G

230/460 Volts
(575 Volts Available)

3 Phase-60 Hertz
40°C Ambient
Anti-friction
Horizontal
Foot Mounted
1.0 Service Factor
T3B Temperature Code

Note: Contact Factory for 1.15 Service Factor

General Notes:

- RGZZESD standard voltage is 460 Volts only for 25 HP and larger.
- Frames 284T and larger are available in long or short shaft. TS indicates direct connection only.
- All 3600 RPM motors 25 HP and above suitable for direct connect only.

Multiplier Symbol SA-7XXP

HP	RPM	Frame	RGZZESD Cat. No.	Part No.	List $
1	1800	143T	HEF0140	1MJ91444YP60	524
	1200	145T	HEF0588	1MJ91456YP60	611
	900	182T	HEG4644	1MJ91828YP60	1130
1.5	3600	143T	HEF0154	1MJ91442YP60	549
	1800	145T	HEF0595	1MJ91454YP60	564
	1200	182T	HEG1176	1MJ91826YP60	669
	900	184T	HEG4651	1MJ91848YP60	1333
2	3600	145T	HEF0609	1MJ91452YP60	625
	1800	145T	HEF0602	1MJ91464YP60	604
	1200	184T	HEG1687	1MJ91846YP60	757
	900	213T	HEH4658	1MJ92138YP60	1600
3	3600	182T	HEG1197	1MJ91822YP60	684
	1800	182T	HEG1183	1MJ91824YP60	681
	1200	213T	HEH2261	1MJ92136YP60	924
	900	215T	HEH4665	1MJ92158YP60	1924
5	3600	184T	HEG1708	1MJ91842YP60	837
	1800	184T	HEG1694	1MJ91844YP60	764
	1200	215T	HEH2828	1MJ92156YP60	1206
	900	254T	HEI4672	1MJ92548YP60	2009
7.5	3600	213T	HEH2282	1MJ92132YP60	1014
	1800	213T	HEH2268	1MJ92134YP60	1009
	1200	254T	HEI3367	1MJ92546YP60	1567
	900	256T	HEI4679	1MJ92568YP60	2464
10	3600	215T	HEH2849	1MJ92152YP60	1146
	1800	215T	HEH2835	1MJ92154YP60	1168
	1200	256T	HEI3878	1MJ92566YP60	1854
	900	284T	—	—	2979 *
15	3600	254T	HEI3388	1MJ92542YP60	1528
	1800	254T	HEI3374	1MJ92544YP60	1506
	1200	284T	HEJ4319	1MJ02846XE21	2518
	900	286T	—	—	3750 *
20	3600	256T	HEI3892	1MJ92562YP60	1827
	1800	256T	HEI3885	1MJ92564YP60	1809
	1200	286T	HEJ4788	1MJ02866XE21	2976
	900	324T	—	—	4686 *
25	3600	284TS	HEJ4571	1MJ02842XE42	2336
	1800	284T	HEJ4326	1MJ02844XE41	2250
	1200	324T	HEK5278	1MJ03246XE41	3714
	900	326T	—	—	5348 *
30	3600	286TS	HEJ5040	1MJ02862XE42	2657
	1800	286T	HEJ4795	1MJ02864XE41	2547
	1200	326T	HEK5691	1MJ03266XE41	4184
	900	364T	—	—	6376 *

*Indicates non-stock Item Build Unit

RGZZESD

High Efficiency
Explosion Proof
Dust Ignition Proof
Class 1 Group D
Class 2 Groups F & G

230/460 Volts
(575 Volts Available)

3 Phase-60 Hertz
40°C Ambient
Anti-friction
Horizontal
Foot Mounted
1.0 Service Factor
T3B Temperature Code

Note: Contact Factory for 1.15 Service Factor

General Notes:

- RGZZESD standard voltage is 460 Volts only for 25 HP and larger.
- Frames 284T and larger are available in long or short shaft. TS indicates direct connection only.
- All 3600 RPM motors 25 HP and above suitable for direct connect only.
- 440T frame long shaft motors have roller bearings.

Multiplier Symbol SA-7XXP

HP	RPM	Frame	RGZZESD Cat. No.	Part No.	List $
40	3600	324TS	HEK5488	1MJ03242XE42	3566
	1800	324T	HEK5292	1MJ03244XE41	3441
	1200	364T	HEL6069	1MJ03646XE41	5698
	900	365T	—	—	7547 *
50	3600	326TS	HEK5866	1MJ03262XE42	4432
	1800	326T	HEK5698	1MJ03264XE41	4085
	1200	365T	HEL6419	1MJ03656XE41	6414
	900	404T	—	—	9157 *
60	3600	364TS	HEL6244	1MJ03642XE42	5795
	1800	364T	HEL6076	1MJ03644XE41	5752
	1200	404T	HEM6755	1MJ04046XE41	7673
	900	405T	—	—	10308 *
75	3600	365TS	HEL6608	1MJ03652XE42	7078
	1800	365T	HEL6433	1MJ03654XE41	7083
	1200	405T	HEM6951	1MJ04056XE41	8826
	900	444T	—	—	13565 *
100	3600	405TS	HEM7161	1MJ04052XE42	9511
	1800	405T	HEM6965	1MJ04054XE41	8859
	1200	444T	HEN7329	1MJ04446XE41	11852
	900	445T	—	—	16443 *
125	3600	444TS	HEN7476	1MJ04442XE42	12425
	1800	444TS	HEN3111	1MJ04444XE42	11645
	1800	444T	HEN7336	1MJ04444XE41	11645
	1200	445T	HEN7644	1MJ04456XE41	14327
	900	447T	—	—	17702 *
150	3600	445TS	HEN7798	1MJ04452XE42	14647
	1800	445TS	HEN3104	1MJ04454XE42	13312
	1800	445T	HEN7651	1MJ04454XE41	13312
	1200	447T	HEN8596	1MJ04476XE41	15854
	900	449T	—	—	22062 *
200	3600	447TS	HEN8120	1MJ04472XE42	18432
	1800	447TS	HEN3097	1MJ04474XE42	16163
	1800	447T	HEN8603	1MJ04474XE41	16163
	1200	449T	HEN8253	1MJ04496XE41	18632
	900	449T	—	—	23362 *
250	3600	449TS	—	—	21942 *
	1800	449TS	—	—	18911 *
	1200	449TS	—	—	22172 *
300	3600	449TS	—	—	28529 *
	1800	449TS	—	—	21498 *

Out of scope of EPAct regulations.

*Indicates non-stock Item Build Unit.

RGZZESD

High Efficiency
Explosion Proof
Dust Ignition Proof
Class 1 Group D
Class 2 Groups F & G

575 Volts

3 Phase-60 Hertz
40°C Ambient
Anti-friction
Horizontal
Foot Mounted
1.0 Service Factor
T3B Temperature Code

Note: Contact Factory for 1.15 Service Factor

General Notes:

- Frames 284T and larger are available in long or short shaft. TS indicates direct connection only.
- All 3600 RPM motors 25 HP and above suitable for direct connect only.

Multiplier Symbol SA-7XXP

			RGZZESD		
HP	RPM	Frame	Cat. No.	Part No.	List $
1	1800	143T	HEF7388	1MJ91444YP00	524
	1200	145T	HEF7395	1MJ91456YP00	611
1.5	3600	143T	HEF7402	1MJ91442YP00	549
	1800	145T	HEF4709	1MJ91454YP00	564
	1200	182T	HEG7416	1MJ91826YP00	669
2	3600	145T	HEF7423	1MJ91452YP00	625
	1800	145T	HEF7430	1MJ91464YP00	604
	1200	184T	HEG7437	1MJ91846YP00	757
3	3600	182T	HEG7444	1MJ91822YP00	684
	1800	182T	HEG1190	1MJ91824YP00	681
	1200	213T	HEH7451	1MJ92136YP00	924
5	3600	184T	HEG7458	1MJ91842YP00	837
	1800	184T	HEG1701	1MJ91844YP00	764
	1200	215T	HEH7465	1MJ92156YP00	1206
7.5	3600	213T	HEH2289	1MJ92132YP00	1014
	1800	213T	HEH2275	1MJ92134YP00	1009
	1200	254T	HEI7472	1MJ92546YP00	1567
10	3600	215T	HEH2856	1MJ92152YP00	1146
	1800	215T	HEH2842	1MJ92154YP00	1168
	1200	256T	HEI7479	1MJ92566YP00	1854
15	3600	254T	HEI7486	1MJ92542YP00	1528
	1800	254T	HEI3381	1MJ92544YP00	1506
	1200	284T	HEJ7493	1MJ02846XE51	2518
20	3600	256T	HEI7500	1MJ92562YP00	1827
	1800	256T	HEI7507	1MJ92564YP00	1809
	1200	286T	HEJ7514	1MJ02866XE51	2976
25	3600	284TS	HEJ4578	1MJ02842XE52	2336
	1800	284T	HEJ4333	1MJ02844XE51	2250
	1200	324T	HEK5285	1MJ03246XE51	4184
30	3600	286TS	HEJ7521	1MJ02862XE52	2657
	1800	286T	HEJ4802	1MJ02864XE51	2547
	1200	326T	HEK7528	1MJ03266XE51	4184
40	3600	324TS	HEK7535	1MJ03242XE52	3566
	1800	324T	HEK5299	1MJ03244XE51	3441
	1200	364T	HEL7542	1MJ03646XE51	5698
50	3600	326TS	HEK5873	1MJ03262XE52	4432
	1800	326T	HEK5705	1MJ03264XE51	4085
	1200	365T	HEL6426	1MJ03656XE51	6414
60	3600	364TS	HEL7549	1MJ03642XE52	5795
	1800	364T	HEL6083	1MJ03644XE51	5752
	1200	404T	HEM6762	1MJ04056XE51	7673
75	3600	365TS	HEL7556	1MJ03652XE52	7078
	1800	365T	HEL7563	1MJ03654XE51	7083
	1200	405T	HEM7570	1MJ04056XE51	8826
100	1800	405T	HEM6972	1MJ04054XE51	8859

RGZZVESD

High Efficiency
Explosion Proof
Dust Ignition Proof
Class 1 Group D
Class 2 Groups F and G

230/460 Volts
(575 Volts Available)

3 Phase-60 Hertz
40°C Ambient
Anti-friction
Round Body
Vertical C-Flange
1.0 Service Factor

Note: Contact Factory for 1.15 Service Factor

General Notes:

- Frames 284T and larger are available in long or short shaft. TS indicates direct connection only.

Multiplier Symbol SA-7XXP

HP	RPM	Frame	RGZZVESD Cat. No.	Part No.	List $
1	1800	143TCV	VEF3230	1MJ91444YP62	683
	1200	145TCV	VEF3237	1MJ91456YP62	770
	900	182TCV	VEG3244	1MJ91828YP62	1289
1.5	3600	143TCV	VEF3251	1MJ91442YP62	708
	1800	145TCV	VEF3258	1MJ91454YP62	723
	1200	182TCV	VEG3265	1MJ91826YP62	828
	900	184TCV	VEG3272	1MJ91848YP62	1492
2	3600	145TCV	VEF3279	1MJ91452YP62	784
	1800	145TCV	VEF3286	1MJ91464YP62	763
	1200	184TCV	VEG3293	1MJ91846YP62	916
	900	213TCV	VEH3300	1MJ92138YP62	1759
3	3600	182TCV	VEG3307	1MJ91822YP62	843
	1800	182TCV	VEG3314	1MJ91824YP62	840
	1200	213TCV	VEH3321	1MJ92136YP62	1083
	900	215TCV	VEH3328	1MJ92158YP62	2083
5	3600	184TCV	VEG3335	1MJ91842YP62	996
	1800	184TCV	VEG3342	1MJ91844YP62	923
	1200	215TCV	VEH3349	1MJ92156YP62	1365
	900	254TCV	VEI3356	1MJ92548YP62	2222
7.5	3600	213TCV	VEH3363	1MJ92132YP62	1173
	1800	213TCV	VEH3370	1MJ92134YP62	1168
	1200	254TCV	VEI3377	1MJ92546YP62	1780
	900	256TCV	VEI3384	1MJ92568YP62	2677
10	3600	215TCV	VEH3391	1MJ92152YP62	1305
	1800	215TCV	VEH3398	1MJ92154YP62	1327
	1200	256TCV	VEI3405	1MJ92566YP62	2067
15	3600	254TCV	VEI3412	1MJ92542YP62	1741
	1800	254TCV	VEI3419	1MJ92544YP62	1719
	1200	284TCV	—	—	2836*
20	3600	256TCV	VEI3426	1MJ92562YP62	2040
	1800	256TCV	VEI3433	1MJ92564YP62	2022
	1200	286TCV	—	—	3294*

*Indicates non-stock Item Build Unit.

HSRGZVESD

High Efficiency
Totally Enclosed
Fan Cooled
Vertical Hollow Shaft
Severe Duty

230/460 Volts
(575 Volts Available)

3-Phase-60 Hertz
40°C Ambient
Anti-Friction
High Thrust
NEMA P-Base
1.15 Service Factor

Note: Only 1800 RPM is available

Multiplier Symbol SA-7EH

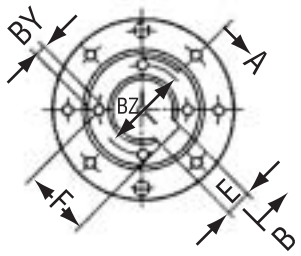
HP	RPM	Frame	Cat. No	Part No.	List	Thrust[1]	BD	BX	CD
25	1800	284TP	HE401	1PM02844PF2V	$ 2538	2600	10	1.001	25.1
30	1800	286TP	HE402	1PM02864PF2V	2854	2900	10	1.001	26.6
40	1800	324TP	HE403	1PM03244PF2V	3570	3400	16.5	1.188	31
50	1800	326TP	HE404	1PM03264PF2V	4230	3400	16.5	1.188	31
60	1800	364TP	HE405	1PM03644PF2V	5242	4300	16.5	1.188	34.8
75	1800	365TP	HE406	1PM03654PF2V	6382	4800	16.5	1.188	34.8
100	1800	405TP	HE407	1PM04054PFCV	8600	6300	16.5	1.438	40
125	1800	444TP	HE408	1PM04444PFCV	11190	6900	16.5	1.688	43.2
150	1800	445TP	HE409	1PM04454PFCV	13665	8000	16.5	1.688	43.2
200	1800	447TP	HE410	1PM04474PFCV	19102	8000	16.5	1.688	46.7
250	1800	449TP	HE411	1PM04494PFCV	19819	8000	16.5	1.688	51.7

[1]Lbs Down (1 yr B 10 life) with 30% momentary up thrust.
BD = Base Diameter of P Flange
BX = Standard - as stocked - Coupling Bore
CD = Flange Face to top of Drive Coupling

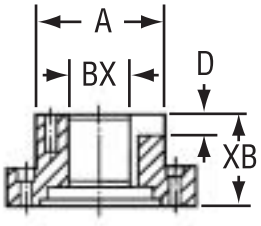
General Notes:

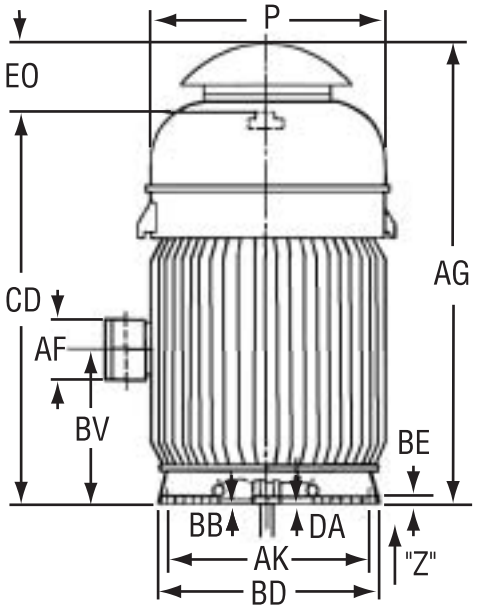
- Standard voltage is 460 Volts only for motors 100 HP and above. Also suitable for part winding start 100 HP and above.
- Non-reverse ratchet is standard on all units.
- Ensure the BX dimension is provided when ordering.

Details of coupling



Section A-B





Technical Notes

- HP x .746 = KW
  KW x 1.341 = HP
- Torque (Lb. - Ft.) = $\frac{\text{HP x 5250}}{\text{RPM}}$
- HP = $\frac{\text{Torque (Lb. - Ft.) x RPM}}{5250}$
- WK^2 (Inertia - Lb. $Ft.^2$) at Motor Shaft = (Load RPM ÷ Mtr. F.L. RPM)^2 x Load WK^2
- Inertia (Kilogram - $meter^2$): kgm^2 x 23.73 ≅ Lb. $Ft.^2$
  (Lb. $Ft.^2$ ÷ 23.73 ≅ kgm^2)
  (Lb. $Ft.^2$ x .042 ≅ kgm^2)
  GD^2 ($kgfm^2$) x 5.933 = Lb. Ft^2
  $kgfm^2$ ÷ 4 = kgm^2
- Torque (Newton - meters): Nm x .7376 = Lb. - Ft.
  (Lb. Ft. x 1.356 = Nm)
- Power (Kilowatts): Kw x 1.341 = HP
  (HP ÷ 1.341 = Kw)
  (HP x .746 = Kw)
- Temperature: °C = 5/9 (°F - 32)
  °F = (9/5 x °C) + 32
- Performance Data (Pages 50 - 60) Notes:
  - To find amperes at various voltages:
    - 575 V Data = 460 V Amperes x .80
    - 230 V Data = 460 V Amperes x 2.0
    - 200 V Data = 460 V Amperes x 2.3

    (Amperes = Full Load, Locked Rotor and No Load Values - from data pages)
  - All other data (KVA Code, Efficiencies, Power Factors, Torques and Stall Times) remain same as 460 V Data (winding connections can change - rarely - with voltage designs).

When NEMA Nominal F.L. Efficiency is:	Then Minimum F.L. Efficiency is:
96.5	95.8
96.2	95.4
95.8	95.0
95.4	94.5
95.0	94.1
94.5	93.6
94.1	93.0
93.6	92.4
93.0	91.7
92.4	91.0
91.7	90.2
91.0	89.5
90.2	88.5
89.5	87.5
88.5	86.5
87.5	85.5
86.5	84.0
85.5	82.5
84.0	81.5
82.5	80.0
81.5	78.5
80.0	77.0
78.5	75.5
77.0	74.0
75.5	72.0
74.0	70.0

Prices and data subject to change without notice.

RGZEESD

NEMA Premium™ Efficiency Totally Enclosed Fan Cooled Severe Duty

230/460 Volts
(575 Volts Available)

3 Phase-60 Hertz
40°C Ambient
Anti-friction
Horizontal
1.15 Service Factor

General Notes:

- Standard voltage is 460 volts only for motors 25 HP and larger.
- Frames 284T and larger are available in long or short shaft. TS indicates direct connection only.
- All 3600 RPM motors 25 HP and above suitable for direct connection only.
- Motors are suitable for use on ASD per NEMA MG1 Part 31 for 60 Hz and below variable torque or 60-15hz constant torque applications.
- Provisions for Inpro/Seal® bearing isolators both ends.

Multiplier Symbol SA-7XSD

HP	RPM	Frame	RGZEESD		
			Cat. No.	Part No.	List $
1	3600	143T	HNF0041	1LA01432ES21	410
	1800	143T	HNF0048	1LA01444ES21	384
	1200	145T	HNF0055	1LA01456ES21	476
1.5	3600	143T	HNF0062	1LA01442ES21	410
	1800	145T	HNF0069	1LA01454ES21	426
	1200	182T	HNG0076	1LA01826ES21	537
2	3600	145T	HNF0083	1LA01452ES21	491
	1800	145T	HNF0090	1LA01464ES21	469
	1200	184T	HNG0097	1LA01846ES21	600
3	3600	182T	HNG0104	1LA01822ES21	553
	1800	182T	HNG0111	1LA01824ES21	519
	1200	213T	HNH0118	1LA02136ES21	732
5	3600	184T	HNG0125	1LA01842ES21	685
	1800	184T	HNG0132	1LA01844ES21	607
	1200	215T	HNH0139	1LA02156ES21	1031
7.5	3600	213T	HNH0146	1LA02132ES21	828
	1800	213T	HNH0153	1LA02134ES21	823
	1200	254T	HNR0160	1LA02546ES21	1371
10	3600	215T	HNH0167	1LA02152ES21	968
	1800	215T	HNH0174	1LA02154ES21	991
	1200	256T	HNR0181	1LA02566ES21	1675
15	3600	254T	HNR0188	1LA02542ES21	1329
	1800	254T	HNR0195	1LA02544ES21	1306
	1200	284T	HNJ0202	1LA02846ES21	2222
20	3600	256T	HNR0209	1LA02562ES21	1646
	1800	256T	HNR0216	1LA02564ES21	1627
	1200	286T	HNJ0223	1LA02866ES21	2707
25	3600	284TS	HNJ0230	1LA02842ES42	2029
	1800	284T	HNJ0237	1LA02844ES41	1936
	1200	324T	HNK0244	1LA03246ES41	3189
30	3600	286TS	HNJ0251	1LA02862ES42	2369
	1800	286T	HNJ0258	1LA02864ES41	2253
	1200	326T	HNK0265	1LA03266ES41	3778
40	3600	324TS	HNK0272	1LA03242ES42	3125
	1800	324T	HNK0279	1LA03244ES41	2992
	1200	364T	HNL0286	1LA03646ES41	5123
50	3600	326TS	HNK0293	1LA03262ES42	4043
	1800	326T	HNK0300	1LA03264ES41	3675
	1200	365T	HNL0307	1LA03656ES41	5882
60	3600	364TS	HNL0314	1LA03642ES42	5318
	1800	364T	HNL0321	1LA03644ES41	5272
	1200	404T	HNM0328	1LA04046ES41	6892
75	3600	365TS	HNL0335	1LA03652ES42	6678
	1800	365T	HNL0342	1LA03654ES41	6683
	1200	405T	HNM0349	1LA04056ES41	8114
100	3600	405TS	HNM0356	1LA04052ES42	8949
	1800	405T	HNM0363	1LA04054ES41	8257
	1200	444T	HNN0370	1LA04446ES41	11090

DOE# CC032A

RGZEESD

NEMA Premium™ Efficiency Totally Enclosed Fan Cooled Severe Duty

230/460 Volts
(575 Volts Available)

3 Phase-60 Hertz
40°C Ambient
Anti-friction
Horizontal
1.15 Service Factor

Multiplier Symbol SA-7XSD

HP	RPM	Frame	RGZEESD Cat. No.	RGZEESD Part No.	RGZEESD List $
125	3600	444TS	HNN0377	1LA04442ES42	11697
	1800	444T	HNN0384	1LA04444ES41	10870
	1200	445T	HNN0391	1LA04456ES41	13621
150	3600	445TS	HNN0398	1LA04452ES42	14052
	1800	445T	HNN0405	1LA04454ES41	12637
	1200	447T	HNN0412	1LA04476ES41	15240
200	3600	447TS	HNN0419	1LA04472ES42	17776
	1800	447T	HNN0426	1LA04474ES41	15371
	1200	449T	HNN0433	1LA04496ES41	18656
250	3600	449TS	HNN0440	1LA04492ES42	22419
	1800	449TS	HNN0447	1LA04494ES41	19284
	1200	449TS	HNN0454	1LA04496HS41	20301
300	3600	449TS	HNN0461	1LA04492HS42	27898
	1800	449TS	HNN0468	1LA04494HS41	20445
	1200	S449LS	HNQ0475	1LA03006ES41	37844
350	3600	S449SS	HNQ0482	1LA03502ES42	35044
	1800	S449SS	HNQ0489	1LA03504ES42	32449
400	3600	S449SS	HNQ0503	1LA04002ES42	39331
	1800	S449SS	HNQ0510	1LA04004ES42	36427

General Notes:

- Standard voltage is 460 volts only for motors 25 HP and larger.
- Frames 284T and larger are available in long or short shaft. TS indicates direct connection only.
- All 3600 RPM motors 25 HP and above suitable for direct connection only.
- Motors are suitable for use on ASD per NEMA MG1 Part 31 for 60 Hz and below variable torque or 60-15hz constant torque applications.
- Provisions for Inpro/Seal® bearing isolators both ends.

DOE# CC032A

RGZEESDX / IEEE-841

NEMA Premium™ Efficiency Totally Enclosed Fan Cooled Severe Duty

460 Volts (575 Volts Available)

3 Phase-60 Hertz
40°C Ambient
Anti-friction
Horizontal
Foot Mounted
1.15 Service Factor

General Notes:

- Frames 284T and larger are available in long or short shaft. TS indicates direct connection only.
- All 3600 RPM motors 25 HP and above suitable for direct connection only.
- Inpro/Seal® bearing isolators on drive end and opposite drive end.
- *Modifications are limited. Contact factory or Sales Representative.
- Motors are suitable for use on ASD per NEMA MG1 Part 31 for 60 Hz and below variable torque or 60-15 Hz constant torque applications

Multiplier Symbol SA-7IEE

HP	RPM	Frame	RGZEESDX Cat. No.	Part No.	List $
1	1800	143T	—	—	500
	1200	145T	—	—	589
	900	182T	—	—	860
1.5	3600	143T	—	—	517
	1800	145T	—	—	539
	1200	182T	—	—	660
	900	184T	—	—	1015
2	3600	145T	—	—	593
	1800	145T	—	—	577
	1200	184T	—	—	702
	900	213T	—	—	1194
3	3600	182T	—	—	622
	1800	182T	—	—	596
	1200	213T	—	—	886
	900	215T	—	—	1515
5	3600	184T	—	—	756
	1800	184T	—	—	678
	1200	215T	—	—	1166
	900	254T	—	—	2013
7.5	3600	213T	—	—	933
	1800	213T	—	—	906
	1200	254T	—	—	1499
	900	256T	—	—	2540
10	3600	215T	—	—	1072
	1800	215T	—	—	1085
	1200	256T	—	—	1865
	900	284T	—	—	3018
15	3600	254T	—	—	1455
	1800	254T	—	—	1429
	1200	284T	—	—	2431
	900	286T	—	—	3860
20	3600	256T	—	—	1786
	1800	256T	—	—	1842
	1200	286T	—	—	2963
	900	324T	—	—	4719
25	3600	284TS	—	—	2220
	1800	284T	—	—	2120
	1200	324T	—	—	3591
	900	326T	—	—	5487
30	3600	286TS	—	—	2593
	1800	286T	—	—	2465
	1200	326T	—	—	4137
	900	364T	—	—	6494
40	3600	324TS	—	—	3420
	1800	324TS	—	—	3275
	1800	324T	—	—	3275
	1200	364T	—	—	5606
	900	365T	—	—	7852
50	3600	326TS	—	—	4348
	1800	326TS	—	—	3987
	1800	326T	—	—	3987
	1200	365T	—	—	6381
	900	404T	—	—	9139

DOE# CC032A

RGZEESDX / IEEE-841

NEMA Premium™ Efficiency Totally Enclosed Fan Cooled Severe Duty

460 Volts (575 Volts Available)

3 Phase-60 Hertz
40°C Ambient
Anti-friction
Horizontal
Foot Mounted
1.15 Service Factor

General Notes:

- Frames 284T and larger are available in long or short shaft. TS indicates direct connection only.
- All 3600 RPM motors 25 HP and above suitable for direct connection only.
- Inpro/Seal® bearing isolators on drive end and opposite drive end.
- *Modifications are limited. Contact factory or Sales Representative.
- Motors are suitable for use on ASD per NEMA MG1 Part 31 for 60 Hz and below variable torque or 60-15 Hz constant torque applications

Multiplier Symbol SA-7IEE

HP	RPM	Frame	RGZEESDX Cat. No.	Part No.	List $
60	3600	364TS	—	—	5770
	1800	364TS	—	—	5670
	1800	364T	—	—	5670
	1200	404T	—	—	7282
	900	405T	—	—	10255
75	3600	365TS	—	—	7245
	1800	365TS	—	—	7062
	1800	365T	—	—	7062
	1200	405T	—	—	8497
	900	444T	—	—	13636
100	3600	405TS	—	—	9624
	1800	405TS	—	—	8725
	1800	405T	—	—	8725
	1200	444T	—	—	11717
	900	445T	—	—	16710
125	3600	444TS	—	—	12360
	1800	444TS	—	—	11383
	1800	444T	—	—	11383
	1200	445T	—	—	14135
	900	447T	—	—	17163
150	3600	445TS	—	—	14450
	1800	445TS	—	—	12875
	1800	445T	—	—	12875
	1200	447T	—	—	15527
	900	449T	—	—	21945
200	3600	447TS	—	—	18122
	1800	447TS	—	—	15660
	1800	447T	—	—	15660
	1200	449T	—	—	18832
	900	S449LS	—	—	31275
250	3600	449TS	—	—	22840
	1800	449TS	—	—	19650
	1800	449T	—	—	19650
	1200	449T	—	—	20490
	900	S449LS	—	—	33925
300	3600	449TS	—	—	30830
	1800	S449SS	—	—	28330
	1800	S449LS	—	—	28330
	1200	S449LS	—	—	37850
350	3600	S449SS	—	—	35040
	1800	S449SS	—	—	32450
	1800	S449LS	—	—	32450
400	3600	S449SS	—	—	39300
	1800	S449SS	—	—	36400
	1800	S449LS	—	—	36400

Lead Time

Stock motor modifications

All stock motor modification lead times are based on warehouse stock motors only, please refer to custom motor section on next page for custom build lead times.

CURRENT STANDARD MODIFICATIONS

■ 2 WORKING DAYS*

Nameplate change (rerate/derate)
Space heater
C flange
D flange
Grounding device (IEEE 841 compliant)
Inpro/Seal® bearing isolator (shaft end)
Breather/drain
Alemite/grease relief
Auxiliary nameplate
Fungus proof/tropicalization
*2 working days for orders received before noon

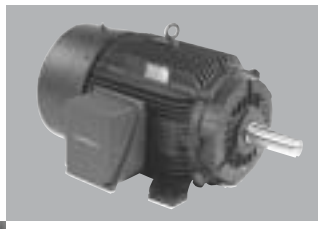
■ 5 WORKING DAYS

Standard thermostat
Routine testing
Stainless steel hardware
CE provisions/marking
Bronze fan
Dual to single voltage
Convert F1 to F2 assembly
Drip cover
Seal lead
Condulet to main box

SUPER MODIFICATION CAPABILITIES

■ 2-4 WEEKS

Special testing
Special paint
Special packaging/export box
Bearing change
Lubrication/grease change
Auxiliary conduit box installation (280 frame and up only)
Dowel pin hole
Additional drain
Additional grounding provision
Special thermal protection Klixon®
Reconnects (consult factory)
Lead cable change/length
Convert TEFC to TEAO
Terminal block
Low noise fan (S449, 2-pole)
Change rotation (S449, 2-pole)



Lead Time

Custom motors

All custom accessory lead times are based on "custom build" motors only, please refer to modification section on front for standard stock modification lead times.

CASE A1–6 WEEKS DELIVERY

Class H insulation
Double or triple dip & bake
Fungus proof/ tropicalization
Inverter Duty motor
Space heater
Special ambient (from -40°C to +70°C)
Special frequency
Special voltage (<600V)
Thermistor (standard)
Thermostat (standard)
Up-frame
Winding RTD (standard)
Y/D connection
Terminal strip
TEAO enclosure
Additional plate
Alemites/grease relief
Aluminum, bronze fan
Auxiliary condulet
Breather/drain
C or D flange
CE provision/marking
Dowel pin hole
Export packing/boxing
Fabricated conduit box
Group C
Inpro/Seal® bearing isolator
Jack screw provision
Oil mist provision
Oil mist ready
Oversized conduit box
Precision balance
Seal lead
Screen
Siemens standard paint for high corrosive environment
Special color paint
Special shaft extension

CASE A2–8 WEEKS DELIVERY

8-pole motor
Bearing RTD (standard)
Blower motor
Complete test report
Multispeed motor
NEMA Design C (4 or 6 pole)
Teflon® lead wire
VPI
ACM-1448 (C-4140) shaft material
Insulated bearing
Ready for tachometer installation
Ready for Stearns® brake installation
Shaft grounding
Special grease
Special Inpro/Seal® bearing isolators
TENV

CASE B–12 WEEKS DELIVERY

P-base motor
Tachometer installed
Special paint system (formulation)
Special shaft material
Stearns brake installed

CASE C–14/16 WEEKS DELIVERY

Synduction® motor

CASE D–TBD (To be determined)

Special engineered product

Note: These lists are not all inclusive, all options may not be available for all motor types / frames.

Modification Section

CONTENTS

Modified Motor Pricing Example: All modifications and accessories shown in this section are the list price additions to "Modifiable" list prices shown on the preceding pages. An example of how to construct a list price is shown below for a 75 HP RGZPSD 1800 RPM 3 Phase 60 Hertz 460 Volts TEFC horizontal foot mounted severe duty motor with Class F insulation 1.15 Service Factor including 115 Volt space heaters and normally closed thermostats.

Base list	$6033.00	Frame Size 365T
Space heaters	$ 262.00	
Thermostats	$ 200.00	
Total List	$6495.00	

Note: For less than 5 identical 140, 180 and 210 frame motors that must be built for the order, add $100.00 net per rating.

ALTITUDE - TEFC Only

3301 - 9000 ft., 1.0 service factor. For altitudes greater than 9000 ft., see Insulation page.

AMBIENT - see Insulation page.

ASSEMBLY

Motors can be furnished in assemblies shown. A charge of $70.00 list will be made for modifications of modifiable F-1 assembly stock motors.

Use the following symbols on orders to indicate the assembly reference.Always precede the symbol with the word "assembly" to avoid confusion with other symbols.

When motors are ordered according to a particular assembly symbol, bearing brackets are assembled and grease fitting are properly installed for operation with the motor in the position shown. However, no attempt is made to locate fittings on any particular side of the motor.

*F-2 assembly not available as modification for explosion motors.

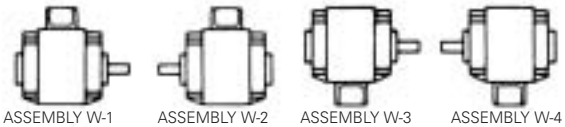
CAUTION

Horizontal ball bearing motors assembly W-5, W-6, W-7 and W-8 are not suitable for external thrust in excess of the weight of the rotor and half-coupling.

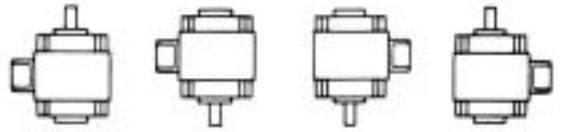
FLOOR MOUNTINGS

ASSEMBLY F-1 ASSEMBLY F-2*

WALL MOUNTINGS

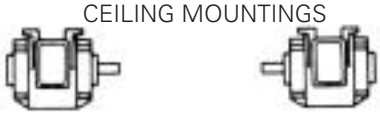


ASSEMBLY W-1 ASSEMBLY W-2 ASSEMBLY W-3 ASSEMBLY W-4



ASSEMBLY W-5* ASSEMBLY W-6* ASSEMBLY W-7* ASSEMBLY W-8*

CEILING MOUNTINGS



ASSEMBLY C-1 ASSEMBLY C-2

Assembly F-1, W-2, W-3, W-6, W-8 and C-2 = Standard Lead Location

Assembly F-2, W-1, W-4, W-5, W-7 and C-1 = Lead Location Opposite Standard

BALANCE

All motors are dynamically balanced to commercial limits measured in accordance with NEMA MG1-12.06. Modified motors can be built to exceed standard commercial limits based on Table 1 below.

TABLE 1
BALANCE LIMITS
MAXIMUM AMPLITUDE, INCHES, PEAK TO PEAK

Balance	NEMA Standard	Precision		Extra Precision		
RPM Frame (Sync)	143T 449T IN P-P	143T 326T IN P-P	364T 449T IN P-P	143T 256T IN P-P	284T 326T IN P-P	364T 449T IN P-P
0-999	.0025	.0005	.00075	.0002	.0003	.0004
1000-1999	.0020	.0005	.00075	.0002	.0003	.0004
1500-2999	.0015	.0005	.00075	.0002	.0003	.0004
3000-4000	.0010	.0005	.00075	.0002	.0003	.0004

NOTE: IN P-P refers to amplitude displacement.
Apply the list price additions as shown in Table 2 below to the basic modified motor list price.
NOTE: For balance limits greater than Precision balance contact factory.

TABLE 2
LIST PRICE ADDITION FOR SPECIAL BALANCE LIMITS

Frame Size List Price Additions									
Balance Limit	182 184	213 215	254 256	284 286	324 326	364 365	404 405	444 445	447 449
Precision	$128	$128	$147	$147	$167	$167	$211	$211	$404
Extra Precision	216	216	228	228	260	260	350	350	450

Prices and data subject to change without notice.

BASES

Prices for slide bases and adapter bases are:

SLIDE BASES — SINGLE ADJUSTMENT

Unit No. CP-839-481	Frame Size	List Price	Unit No. CP-839-481	Frame Size	List Price
120	143T	$ 83	130	324T	$223
121	145T	83	131	326T	223
122	182T	83	132	364T	290
123	184T	83	133	365T	290
124	213T	93	149	404T	585
125	215T	93	150	405T	585
126	254T	137	151	444T	650
127	256T	137	152	445T	650
128	284T	163	153	447T	870
129	286T	163	155	449T	870

SLIDE BASES — DOUBLE ADJUSTMENT

Unit No. CP-839-481	Frame Size	List Price	Unit No. CP-839-481	Frame Size	List Price
156	254T	$170	159	286T	$190
157	256T	170	160	324T	250
158	284T	190	161	326T	250
For 364T and larger, use standard base.					

ADAPTER BASES* — SOLD WITH MOTOR

Unit No. CP-839-481	Frame Old	New	List Price
101	182-184	143T-145T	$168
102	213-215	182T-184T	168
103	254U-256U	213T-215T	168
104	284U-286U	254T-256T	168
105	324S	284TS	192
106	324S-326S	284TS-286TS	192
107	324U-326U	284T-286T	192
108	364US-365US	324TS	224
109	365US	326TS	224
110	364U-365U	324T-326T	224
111	404U-405U	364T-365T	304
112	404US-405US	364TS-365TS	304
113	444U-445U	404T-405T	304
114	444US-445US	404TS-405TS	304
115	444US-445US	364TS-365TS	368
116	444U-445U	364T-365T	368
114	444US-445US	364T-365T	368

*If Special adapter base is required, refer to Factory for price and shipment.

BEARINGS

Motors having roller bearings (444T to 449T) require a minimum radial load. Use of these motors in direct connected applications is discouraged to avoid excessive drive end bearing noise and/or reduced bearing life.

Contact factory for insulated bearings.

BREATHERS AND DRAIN PLUGS

Horizontal mounted motors only.

Enclosed Motors—Non-Explosion-Proof, Severe Duty.

Solid drain plugs are available, no charge. Combination self draining and breather plugs are available. Price addition **$58.00 List**

Explosion-Proof Motors — Combination Breather and Drain (284T to 449T)

Underwriters approved combination breather and drain is available on explosion-proof motors Class I, Group D, Class II, Groups F, G hazardous areas. Price addition **$87.00 List.**

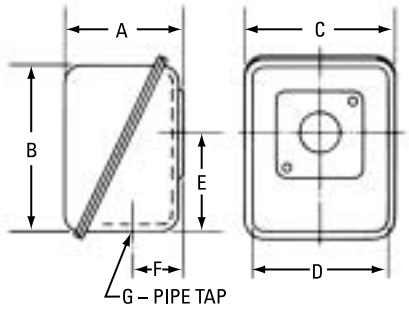
CE MARKING

CE compliance and marking can be provided for all Siemens non explosion-proof NEMA frame size enclosed motors. Each must be reviewed by engineering prior to order entry. **Add $195 list.**

CONDUIT BOX

Standard conduit box dimensions for horizontal mounted TEFC severe duty motors are:

External Dimensions (inches)	Frame 143T 184T	213T 215T	254T 256T	284T 286T	324T 326T	364T 365T	404T 405T	444T 447T	449T	S449SS S449LS
A	2.60	3.60	3.60	5.12	5.12	7.19	7.19	7.62	10.19	10.19
B	4.21	5.94	5.98	7.69	7.69	9.38	9.38	11.88	15.75	15.75
C	3.70	5.47	5.47	6.50	6.50	7.00	7.00	9.00	13.50	13.50
D	2.99	4.33	4.33	5.50	5.50	6.00	6.00	6.75	12.50	12.50
E	2.17	2.90	2.90	4.75	5.00	6.25	6.25	7.00	8.50	8.50
F	0.96	1.34	1.34	1.94	2.00	2.75	2.75	2.75	5.00	5.00
G	0.75	1.00	1.25	1.50*	2.00*	3.00*	3.00*	3.00	3.00	4.00
Approx. Internal Volume Cu. In.										
RGZP	28	58	58	189	189	316	316	762	N/A	N/A
RGZPSD	27-36	85	85	226	282	762	762	762	N/A	N/A
RGZESD	27-36	85	85	226	282	762	762	762	1600	1600
RGZZESD	29	80	80	154	265	478	478	478-815	N/A	N/A



*280-360 RGZP have steel conduit box. For max conduit size, 2.0/2.5/3.0 on 280/320/360 frames respectively.

CONNECTIONS

Motors are connected for 230/460 volts for all standard efficiency from 1 HP to 75 HP and all premium efficiency from 1 HP to 20 HP.

Wye Start, Delta Run. (Starting torques are reduced at the motor shaft.)

Connections listed below are supplied single voltage only (460 volts).

Part winding start. (Starting torques are reduced at the motor shaft.)

Frame Size List Price Additions	284 286	324 326	364 365	404 405	444 445	447 449
Part Winding Start*	$104	$126	$185	$290	$482	$506
Wye-Start Delta Run**	104	126	185	290	482	506

* Not available for ODP (Type RGE1) motors 405 frame and below.

** Not available for ODP (Type RGE1) motors 75 HP and below.

COUPLINGS, PINIONS

Rigid couplings, flexible couplings, pinions and V-belt sheaves can be pressed on at List Price adders per table below. Couplings, pinions or sheaves must be finish bored and key seated to Siemens shaft dimensions and must be shipped to the plant freight prepaid.

Frame Size List Price Additions								
182 184	213 215	254 256	284 286	324 326	364 365	404 405	444 445	447 449
$325	$325	$325	$325	$325	$480	$480	$480	$480

EXPLOSION-PROOF MOTORS

Class I:

Gr. B Hydrogen (not available)

Gr. C Atmospheres containing ethyl and ether vapor.

Gr. D Atmospheres containing gasoline, petroleum, naphtha, alcohols, acetone lacquer solvent vapors and natural gas.

Class II:

Gr. E Atmospheres containing metal dust.

Gr. F Atmospheres containing carbon black, coal or coke dust.

Gr. G Atmospheres containing grain dust.

For unlisted explosion-proof motors, add the following price additions to the enclosed motor of the rating required; use the pricing symbol assigned to the enclosed motor base price.

Frame Size List Price Additions		
Frame Size	Class I, Gr. D Class II, Gr. F & G Class B 1.0 S.F.	Class II, Gr. E
143-145	$ 470	$ 512
182-184	470	512
213-215	685	727
254-256	699	743
284-286	769	828
324-326	923	995
364-365	1077	1164
404-405	1230	1332
444-445	1600	1687
447-449	1662	1788

Division 2

Non XP motors can be used in Class I and Class II Division 2 areas provided no arcing devices are used.

Advise ignition temperature or T-code and Class with requests. ODP motors not available for application in Div 1 or Div 2 areas.

Non (agency) certified, non explosion-proof general purpose enclosures are available with the following metal tag:

MOTOR MEETS, DURING NORMAL OPERATION, THE DEFINITION IN THE NATIONAL ELECTRICAL CODE (2002 -501.8(B) FOR MOTORS PERMITTED TO BE INSTALLED IN CLASS 1, DIVISION 2 AREAS. NATIONAL ELECTRICAL CODE REQUIREMENTS AND RESTRICTIONS MUST BE OBSERVED. 51518308001

If nameplate is required add $205 list.

EXPORT PACKAGING & BOXING

Export wooden boxing of motors is available at 6% of total motor price or $75.00 net per motor minimum charge. Price includes standard Siemens markings. For individual or special markings refer to your Siemens Representative for quotation. Add 1 week to delivery for preparation.

FANS

List adders by Frame Size. For RGZESD only.

Material	140	180	210	250	280	320	360	400	444-445	447-449
Bronze	$418	$418	$540	$575	$720	$870	$910	$1014	$1400	$1400

FLANGED HOUSINGS AND/OR ENDSHIELDS

C and D Face Foot Mounted/Round Frame. Use the table below for C or D Flanges. Round frame list price adder does not include drip cover and vertical lifting attachments. See Vertical motor modification. Contact factory for XP. Special BA dimensions on C and D Flange with Feet.

Frame Size List Price Additions										
C Flange	143 145	182 184	213 215	254 256	284 286	324 326	364 365	404 405	444 445	447 449
With Feet	$ 53	$ 76	$ 76	$ 99	$140	$216	$ 309	$ 478	$ 598	$605
Without Feet*	67	99	99	134	213	306	553	826	1016	1250
D Flange Severe Duty										
With Feet	106	152	152	198	280	432	618	956	1196	1210
Without Feet*	134	198	198	268	426	612	1106	1652	2032	2500

*Not applicable on ODP motors 405 frames and smaller.

Field Modification C Flange Kits

Frame	NEMA 'BA'	RGE1 RGZP List Price	** RGZ 'BA'	RGZPSD RGZESD List	RGZPSD RGZESD 'BA'**
140	2.75"	$ 55	2.25"	$ 60	2.25"
180	3.50"	80	2.75"	85	2.75"
210	4.25"	110	3.50"	115	3.50"
250	4.75"	170	4.25"	175	4.25"
Frame	NEMA 'BA'	RGZP/RGE1 RGZPSD	** RGZ 'BA'	RGZESD	RGZESD 'BA'**
280	4.75"	$ 315	4.75"	$ 320	4.75"
320	5.25"	535	5.25"	540	5.25"
360	5.88"	745	5.88"	750	5.88"
400[1]	6.62"	1435	6.62"	1450	6.62"

$100 minimum order on kits.
**Non-standard NEMA BA Dimensions 140-250 Frames.
[1]Contact factory for ODP C-face kit availability.
*(Use non-modifiable RGZESD motor multiplier for same frame size.)

VERTICAL MOTORS

To price vertical C flange enclosed motors with drip cover and vertical lifting devices make the list price additions from the table to the modifiable motor list price.

VERTICAL C FLANGE—TEFC

Frame Size List Price Additions									
143 145	182 184	213 215	254 256	284 286	324 326	364 365	404 405	444 445	447 449
$159	$159	$159	$213	$318	$420	$723	$1058	$1670	$1670

VERTICAL D FLANGE—TEFC SEVERE DUTY (NO XP 140-250

Frame Size List Price Additions									
143 145	182 184	213 215	254 256	284 286	324 326	364 365	404 405	444 445	447 449
$379	$469	$469	$613	$738	$1070	$1503	$2018	$2710	$2920

FREQUENCY

Frames 143T-449T

The following tabulation shows the synchronous speeds for 60 and 50 Hertz. For different frequencies or adjustable frequency applications refer to your Siemens representative for quotation.

To rerate a continuous duty 60 hertz motor to a continuous duty 50 hertz motor, use the modifiable list price of the next larger HP 60 hertz motor and add $110 list price addition. Motor will be class F 1.0 S.F. only.

No. of Poles	60-Hertz	50-Hertz
2	3600	3000
4	1800	1500
6	1200	1000
8	900	750

For 1.15 S.F. contact factory.
For explosion-proof motors, contact factory.
For standard 50-Hertz voltages, see Voltage section.

GREASE FITTINGS

Alemite grease fittings are furnished on 280-440 frame TEFC motors and 140-440 frame severe duty motors.

Pressure relief fittings can be furnished on 280-440 frames, **add $15 list.**

GROUNDING, PROVISION FOR

A clamp type terminal is provided as standard inside the motor conduit box. For ground bolt mounted on motor frame (280-440 frame), **add $35 list.**

Prices and data subject to change without notice.

HARDWARE, STAINLESS STEEL

Stainless steel hardware, limited to bearing housing bolts, terminal housing bolts, fan bolts and breather drains only, is available on modifiable severe duty build motors. Make list price addition from table. This option is not available on explosion proof motors. Severe Duty construction required.

STAINLESS STEEL HARDWARE

Frames Size List Price Additions							
143 256	284 286	324 326	364 365	404 405	444 445	447 449	S449
$134	$134	$165	$203	$250	$308	$379	$425

INSULATION

Frame Size List Additions										
Condition	140	180	210	250	280	320	360	400	444-445	447-449
Fungus	$ 41	$ 41	$ 41	$ 52	$ 87	$ 111	$ 137	$ 184	$ 239	$ 294
Moisture/Powerhouse*[1]	105	105	105	137	227	294	373	524	722	1234
Class F[2]	64	64	64	84	140	184	236	341	484	1049
Class H*	82	82	82	105	175	230	294	425	606	1573
Vacuum Pressure Impregnation (VPI)*	—	—	—	—	—	—	—	2300	2500	2500

*Not available on ODP motors
VPI process not available on 360 frame motors and below
[1]Extra dip and bake
For Tropicalization, add for Moisture/Powerhouse + Fungus Protection

[2]For one of the following
A. Altitude-3301 to 9000 feet, 1.0 Service Factor.
B. Ambient-41˚C to 65˚C, 1.0 Service Factor.
C. Service Factor-1.15 (except Explosion-Proof Class II, Group G).

LUBRICATION

Oil Mist: Modifiable Premium Efficiency Severe Duty motors can be custom built for "Provisions for oil mist lubrication." Use the list price additions below to Modifiable Severe Duty list prices.

This is not available on Explosion proof or vertically mounted motors.

Frame Size List Price Additions								
Horizontal	180 210	254 256	284 286	324 326	364 365	404 405	444 445	447 449
Mtd.	$300	$350	$380	$380	$650	$1100	$1100	$1350

NAMEPLATES

Addition or alteration of information on standard nameplates, on Modified Stock motors, requires an adder of **$110 list**.

PAINT

Siemens standard finish paint consists of the following:

Epoxy modified acrylic air dry enamel.
Viscosity: 50-55 seconds No. 2 Zahn cup @ 77 Degrees F.
Fineness: 7 N.S. units Hegeman gage
Adhesion: 90% Cross-hatch test (tape)
Impact resistance: 40 inch pounds direct-No cracks
Composition: Lead and Chromate free
Color: RAL 5001 - Blue

PROTECTIVE DEVICES:

Stator RTD (Winding Temperature Detection)

A set of six Coil Head mounted "Resistance Temperature Detectors" are available on frames 364T-449T having a maximum winding voltage of 600 volts.

RTD resistance values available are:
100Ω (Platinum)*
120Ω (Nickel)

Required resistance value to be specified on order. Price does not include temperature readout devices. **Add $1996 List.**

* ODP 440T frame only

Thermal Protection Bearings 404T-449T Only

"Resistance Temperature Detector"
Two per motor; one each bearing is provided, but is not available on Division 1 explosion proof motors.

RTD resistance value available is 100Ω (Platinum). For other RTD resistance values, refer to Factory. Each RTD is provided with a conduit box and terminal block for easy connection. Required resistance value to be specified on order. **(Price does not include temperature readout devices.) Add $2200 List per motor.**

* ODP 440T frame only

Thermocouples

A set of six "Copper or Iron Constantan Thermocouples" may be furnished for winding temperature detection on frames 360T-440T having a maximum winding voltage of 600 volts. Type of thermocouples, copper or iron, must be specified on order. Price does not include readout devices. **Add $1186.00 List**

Thermistors (leads marked PM1 & PM2)

Positive temperature coefficient (PTC) thermistors mounted in endturns. Control module required for normally closed "switch action." Shipped loose for customer mounting. Control circuit voltage is 115V 60 hertz only. Addition for 280-440 frames **$658 list.**

Thermostats (leads marked P1 & P2)

Automatic reset only.
Normally closed–Specify on order.
Normally open–Available on special order. Consult factory for delivery.
Temperature sensitive–non current carrying.

Limitations:

600 Volt maximum, Insensitive to sudden voltage or current surge. No locked rotor protection. No single phase protection.

ROTATIONAL ARROWS

Available on all motors. Price addition **$25 list.** Specify rotation facing shaft extension on order entry form.

SERVICE FACTOR

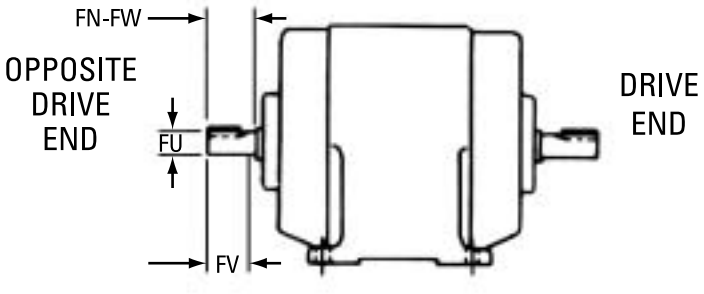
For non-standard service factor contact factory.

THERMOSTATS										
Frame Size Price Additions										
	143 145	182 184	213 215	254 256	284 286	324 326	364 365	404 405	444 445	447 449
Class "B"or"F" Insulation	$150	$150	$150	$150	$150	$200	$200	$300	$300	$370

SHAFTS:

Standard dimension are shown on standard book dimension prints. The following front end (non-drive end) standard double-end shafts are available at the price addition shown below. Shaft dimensions not shown should be referred to your Siemens Representative for quotation.

Note: Applicable to RGZESD only.



Double-End Shafts, Standard Steel—Drive-End Standard—Opposite Drive-End as Follows

Frame	FU	Key	NEMA Standard Short Shaft				NEMA Standard Long Shaft			
			FN-FW	FV	Key Length	List Addition	FN-FW	FV	Key Length	List Addition
143-145T	0.625	.188	—	—	—	$ 91	1.62	1.38	0.91	$ 91
182-184T	0.875	.188	—	—	—	91	2.25	2.00	1.41	91
213-215T	1.125	.25-.25	—	—	—	91	2.75	2.50	1.75	$ 91
254-256T	1.375	.312-.312	—	—	—	122	3.37	3.12	2.37	122
284-286T	1.625	.375-.375	3.25	3	1.87	185	4	3.75	2.87	185
324-326T	1.875	.50-.50	3.75	3.50	2	266	4.62	4.37	3.25	266
364-365T	1.875	.50-.50	3.75	3.50	2	301	4.62	4.37	3.25	301
404-405T	2.125	.50-.50	4.25	4	2.75	333	5.25	5	3.87	333
444-449T	2.375	.625-.625	4.75	4.50	3	368	5.87	5.62	4.25	368

SHAFT SEALS:

All RGZPSD and RGZESD motors 140 frame and larger have a shaft seal on the drive end which retards moisture from entering the bearing cavity. If customer requires Inpro/Seal® bearing isolators suitable in washdown and high dust atmospheres make the price addition from the table. Not available on explosion-proof or open drip-proof motors.

SHAFT SEALS

Frame Size List Price Additions										
Frame	143 145	182 184	213 215	254 256	284 286	324 326	364 365	404 405	444 445	447 449
List $	$363	$363	$379	$442	$458	$482	$553	$679	$742	$742

Contact factory for ODE requirements or vertical mounting.

SOFTWARE

Specify software as a separate line item on order entry form. Make NET price additions according to the table below. For special software requirements not listed refer to your Siemens representative for quotation.

MOTOR SOFTWARE **NET** PRICE					
Item #	Description	For **EACH** Motor Rating			
		Initial		Duplicate Additional	
		Quan.	$ Net	Quan.	$ Net
1.	Standard data transmittal and certification sheet—including motor description, nameplate data (included with each data item)	1	$ 10	1	$ 5
2.	Standard tabulated outline dimension sheet	1	10	1	5
3.	Standard conduit box outline dimension sheet	1	10	1	5
4.	Standard wiring/connection diagram	1	10	1	5
5.	Standard installation, operation and maintenance bulletins	1	10	1	5
6.	Standard renewal parts bulletins for standard construction	1	10	1	5
7.	Standard tabulation performance data sheets—typical data; apply addition for each specified voltage condition	1	50	1	10
8.	Standard performance curves, single page format includes curves of speed vs torque, amps; horsepower vs P.F., efficiency, amps, speed; based on typical data; apply addition for each specified voltage condition	1	150	1	50
9.	Non-standard outline drawings or special construction or accessories	1	100	1	25
10.	Completion of customer performance tabular data sheets—using typical performance data only	1	100	–	–
11.	Special calculated data, i.e. time current, thermal damage, critical speed, B-10 verification on standard Siemens format. Apply addition for each specified data.	1	250	1	10
12.	Certification of compliance—copy of original customer P.O. must accompany order	1	75	1	10
13.	Any non-Siemens standard data format, or special data not detailed above—contact factory with complete details for price additions				

The data available above is provided on quality, black print on white paper, reproduction.

Any engineering data, curves and drawings can be supplied on vellum, mylar or aperature card format. Make net price addition per each software item from table at right:

SPECIAL-DATA **NET** PRICE			
Data Format	For Each Item of Data		
	Initial Quan.	$ **NET**	Additional -Duplicate Quantity **NET/EACH** $
Vellum	5	$ 25	$ 5
Mylar	1	50	25

SPACE HEATERS

(Leads marked H1 & H2)

List addition covers space heaters installed in enclosed motors with leads terminated in the main conduit box.

For explosion-proof motors (except as noted*) and others requiring maximum surface temperature of 200° C (with max rated motor ambient of 40°C): DOUBLE THE ADDITION.

Not available on ODP motors.

*NEC (1999) requires any division 2 motor that is not agency certified and is a general purpose non-explosion proof enclosure to permanently mark on a visible nameplate on the motor surface the max surface temp based on 40° C ambient - this plate will show 200° C. **CAUTION:** Use in division 2 areas with ignition temperatures below 250° C (250 x .80 = 200) should be avoided. [Reference: 501-8(b)]

Separate termination of heater leads:

In Standard Condulet, on Conduit Box (Frame 180T - 449T only) . . . . . .Add **$165 list**

In Diagonally Split Cast Iron Conduit Box (Frame 284T - 449T only) . . . . . .Add **$291 list**

In Explosion-Proof Condulet (284T - 449T only) . . . . . Add **$400 list**

In a separate termination on opposite side of frame from main terminal box (RGZPSD / RGZESD ONLY)

In standard condulet (Frame 180T to 256T only) . . .Add **$165 list**

In diagonally split cast iron conduit box (Frame 284T - 449T only) . . . . . .Add **$165 list**

SPACE HEATERS

Frame Size	List Price Additions
143-184	$146
213-256	$146
284-326	$218
364-365	$262
404-405	$320
444-445	$379
447-449	$428

[1]Available 115 or 230 volts only Frames 143T-215T.
Heater voltage will be 115 volts single phase unless otherwise specified.

TAG, METAL AUXILIARY

Addition of metal auxiliary tag requires **$110 list** adder.

TERMINALS

For Burndy Hydent™ type YA supplied on frames 140-449. Add **$115 list.**

Crimp type (Compression) frames 180-449. Add **$25 list** 3 lead motor, **$50 list** 9 lead motor.

Terminal Blocks - 3 lead only.

Frame	$ net adder
140-210	$150
250-280	$225
320-360	$330

TESTS

All Siemens motors are given a routine line test per NEMA MG 1. and IEEE-112.

A description is given below:

ROUTINE TEST

Routine test consists of the following items tested in accordance with IEEE Std. 112.

- No Load Current
- No Load Speed
- Locked-Rotor Current
- Winding Resistance
- High Potential
- Bearings/Vibration Check

(Vibration data is NOT recorded with a routine test). For vibration data included with routine test report add **$50.00 NET PER MOTOR.**

Test report of routine test is based on IEEE STD. 112 Form A-1 and includes complete nameplate information.

COMPLETE TEST

Complete test consists of the following items tested in accordance with NEMA and IEEE STD. 112 test standards.

- Full Load Heat Run
- Temperature Rise at F.L.
- Winding Resistance
- Rated F.L. Slip
- No Load Current
- Breakdown Torque
- Locked Rotor Torque-Amps
- High Potential Tests
- Efficiencies @ 100, 75, 50 Percent Load
- Power Factor @ 100, 75, 50 Percent Load

Test report of complete test is based on IEEE Std. Form A-2 and includes complete nameplate information.

CALIBRATION TESTS

Calibration test consists of 0-125% rated load test measurement of speed, torque, current, power factor and efficiency, at rated voltage. Data is curve plotted, on Siemens standard format.

SPECIAL TESTS

For tests or reporting format other than those listed above, contact Siemens with complete specification, for price additions.

NOISE TEST

Tests to verify sound levels can be performed. These tests are conducted per procedures defined in IEEE-85. Tests are performed under no load conditions.

TESTS

Pricing: Five copies of each test report are provided on 8.5 x 11 paper suitable for reproduction. Additional copies are available for NET price of $10 per copy. Specify copies as separate line item on order entry form.

For pricing of other than routine line test use the NET price additions in the table. Specify tests as separate line item on order entry form. Add one week to delivery time for all tests except routine line test.

On witnessed tests customers will be notified approximately two weeks before testing. Siemens reserves the right to charge up to $100 NET per working day for customer's delays after test date and time have been agreed to.

Horsepower	30 and Below	40	50	60	75	100	125	150	200	250	300
Test Report	NET Price Addition Per UNIT										
Routine Test											
—Initial	$ 50	$ 50	$ 50	$ 50	$ 50	$ 50	$ 50	$ 50	$ 50	$ 50	$ 50
—Witnessed	275	310	330	350	375	430	465	535	605	700	760
Complete Test											
—Initial	1140	1205	1325	1485	1620	1850	2010	2125	2240	3000	3380
—Witnessed	1710	1810	1990	2230	2430	2775	3015	3190	3360	4500	5070
Calibration Test	865	905	995	1115	1215	1390	1505	1595	1680	2250	2535
Electrical Duplicate											
—Routine Test	50	50	50	50	50	50	50	50	50	50	50
—Complete Test	75	75	75	75	75	75	75	75	75	75	75
Noise											
—Initial	700	700	700	900	900	900	900	900	900	900	900
—Witnessed	1100	1100	1100	1300	1300	1300	1300	1300	1300	1300	1300

Refer to factory for prices of test reports for adjustable speed drives.

Multispeed motor test reports are priced based upon the number of speeds tested. Net prices are at the following percentage of the single-speed price:

One speed tested	100%
Two speeds	150%

VERTICAL JACKING PROVISIONS (280T-449T)

This option is provided on foot mounted motors only. It is used to assist the installer in proper alignment of the motor shaft with the driven piece of equipment for shimming purposes. Siemens will provide the tapped hole (one per foot), four per motor. A 1/2-13 UNC threaded hole will be provided on 280T frame, a 3/4-10 UNC threaded hole on 320T-360T and a 7/8-14 UNF threaded hole on 400T-440T frames.

The customer is responsible for providing the bolts.

$200 NET per motor

VOLTAGE

Standard 50 Hertz voltages are 220, 380, 400, 415, 440, 550 and 220/380.

Standard 60 Hertz voltages are 200, 230, 460, 575 and 230/460.

For any other voltage, use table.

Frame Size List Price Additions								
Voltage	213 215	254 256	284 286	324 326	364 365	404 405	444 445	447 449
200-600*	$81	$112	$134	$323	$366	$479	$796	$979

* 575 volt rated for nominal 600 volt supply.

EPACT Efficiency
Open Drip Proof (ODP)
Type RGE / RGE1

460 Volts
NEMA Design B
40°C Ambient

HP	Synch RPM	F.L. RPM	Frame	Current [A]* No Load	Current [A]* Full Load	Current [A]* Locked Rotor	kVA/ HP Code	Nominal Efficiency 1/2	Nominal Efficiency 3/4	Nominal Efficiency Full Load	Power Factor 1/2	Power Factor 3/4	Power Factor Full Load	Torque Full Load [Lb-Ft]	Locked Rotor	Break-Down
1	1800	1735	143T	1.1	1.6	12.8	M	83.0	84.0	85.5	52.0	65.0	74.0	2.9	320%	350%
	1200	1130	145T	1.5	1.9	14.8	N	76.0	79.0	80.0	43.0	56.0	66.0	4.5	170%	265%
1.5	3600	3450	143T	0.8	2.2	15.5	K	83.0	83.5	84.0	64.8	77.8	79.7	2.2	280%	320%
	1800	1735	145T	1.4	2.2	17.6	M	81.0	84.5	85.5	65.5	75.5	82.0	4.4	300%	330%
	1200	1150	182T	1.6	2.6	19.5	M	84.0	85.0	85.5	50.0	61.0	68.0	6.8	165%	250%
2	3600	3455	145T	1.2	2.9	22.5	L	84.5	85.0	85.5	67.7	77.5	80.8	3.0	310%	340%
	1800	1735	145T	2.4	3.2	25.0	M	81.5	84.5	85.5	50.0	63.0	73.0	5.9	320%	350%
	1200	1150	184T	2.3	3.4	25.0	M	84.0	86.0	85.5	49.0	60.0	68.0	9.0	180%	240%
3	3600	3515	145T	2.4	4.1	32.0	K	84.5	85.0	85.5	69.9	79.4	83.3	4.4	260%	300%
	1800	1735	182T	2.4	4.2	32.0	K	85.5	87.0	87.5	64.0	73.0	79.0	8.9	270%	300%
	1200	1160	213T	3.0	5.0	32.0	K	86.5	87.5	87.5	46.0	58.0	67.0	13.5	180%	230%
5	3600	3495	182T	2.6	6.6	45.3	J	86.6	87.4	87.5	70.7	80.5	83.5	7.5	250%	300%
	1800	1725	184T	3.5	6.8	45.3	J	87.0	87.5	87.5	65.0	76.0	81.0	15.1	270%	320%
	1200	1150	215T	4.0	7.8	45.5	J	86.5	87.0	87.5	52.0	63.0	70.0	22.7	200%	230%
7.5	3600	3510	184T	3.9	9.9	63.5	H	87.7	88.2	88.5	68.5	79.3	81.5	11.2	180%	250%
	1800	1745	213T	6.1	10.2	63.5	H	89.7	90.2	90.2	60.0	72.0	78.0	22.5	270%	320%
	1200	1165	254T	5.9	11.0	63.5	H	89.3	90.7	91.0	52.0	63.0	72.0	33.7	220%	280%
10	3600	3500	213T	4.3	12.8	81.0	H	89.4	89.5	89.5	70.0	81.5	83.3	15.0	210%	240%
	1800	1740	215T	5.8	12.9	81.0	H	90.5	90.5	90.2	68.0	77.5	82.0	29.8	250%	280%
	1200	1160	256T	6.6	13.9	81.0	H	90.8	91.7	91.7	60.0	70.0	75.0	45.2	220%	250%
15	3600	3535	215T	7.2	18.8	116.0	G	87.9	89.8	90.2	72.7	82.5	83.5	22.2	200%	250%
	1800	1760	254T	8.3	18.8	116.0	G	91.7	92.4	92.4	67.0	76.0	82.0	44.6	210%	250%
	1200	1170	284T	6.0	19.3	100.0	F	91.0	91.7	91.0	70.0	78.0	80.0	67.4	180%	220%
20	3600	3505	254T	7.7	24.7	145.0	G	90.0	90.5	91.0	71.5	82.5	84.1	29.9	200%	240%
	1800	1755	256T	8.7	25.0	145.0	G	92.4	92.7	92.4	72.0	79.0	82.0	59.7	230%	280%
	1200	1175	286T	9.0	26.2	145.0	G	91.0	91.7	91.7	67.0	75.0	78.0	89.4	180%	230%
25	3600	3550	256T	12.9	30.0	180.0	G	89.5	91.0	91.0	73.5	83.5	85.0	37.4	200%	240%
	1800	1760	284T	11.3	31.0	183.0	G	92.7	93.3	93.0	72.4	79.0	82.0	74.4	190%	250%
	1200	1170	324T	11.0	31.1	180.0	G	91.7	93.0	93.0	70.0	79.0	81.0	112.3	180%	230%
30	3600	3540	284TS	12.0	35.7	215.0	G	92.4	93.6	93.0	76.0	82.0	84.5	44.5	140%	210%
	1800	1770	286T	11.9	36.4	217.0	G	93.0	93.6	93.6	70.0	79.0	83.0	88.8	180%	250%
	1200	1175	326T	13.0	37.1	200.0	F	91.7	92.6	93.0	72.0	80.0	81.5	134.1	180%	220%
40	3600	3535	286TS	16.0	46.9	285.0	G	91.0	92.4	92.4	79.0	84.0	86.5	59.4	160%	230%
	1800	1760	324T	20.0	48.2	290.0	G	92.4	93.0	93.0	74.0	81.0	83.5	119.4	150%	230%
	1200	1175	364T	18.0	47.6	300.0	G	92.4	93.6	93.6	75.0	81.5	84.0	178.9	160%	220%

*Current at 575 volts = current at 460V x 0.80 All other data (kVA Code, Efficiencies, Power Factors, Torques and Stall Times) remain same as 460V data.

DOE# CC015A RGE1
DOE# CC032A RGE

Prices and data subject to change without notice.

EPACT Efficiency
Open Drip Proof (ODP)
Types RGE / RG / RGE1

460 Volts
NEMA Design B
40°C Ambient

HP	Synch RPM	F.L. RPM	Frame	Current [A]* No Load	Current [A]* Full Load	Current [A]* Locked Rotor	kVA/ HP Code	Nominal Efficiency 1/2	Nominal Efficiency 3/4	Nominal Efficiency Full Load	Power Factor 1/2	Power Factor 3/4	Power Factor Full Load	Torque Full Load [Lb-Ft]	Locked Rotor	Break-Down
	3600	3530	324TS	19.0	57.2	360.0	G	91.0	92.4	93.0	79.5	85.5	88.0	74.4	150%	210%
50	1800	1770	326T	22.0	57.5	350.0	F	93.0	93.6	93.6	77.0	83.5	87.0	148.4	150%	230%
	1200	1175	365T	23.0	59.9	340.0	F	91.7	93.6	93.6	75.0	81.5	83.5	223.6	150%	210%
	3600	3535	326TS	27.0	71.1	435.0	G	92.4	93.6	93.0	69.0	81.0	85.0	89.2	150%	210%
60	1800	1770	364T	28.0	69.4	435.0	G	93.0	94.1	94.1	77.5	84.0	86.0	178.1	150%	230%
	1200	1175	404T	28.0	68.6	430.0	G	92.4	94.1	93.6	78.5	85.0	87.5	268.3	150%	210%
	3600	3555	364TS	33.0	84.8	540.0	G	92.4	93.6	93.6	80.0	86.5	88.5	111	140%	210%
75	1800	1775	365T	30.0	85.9	520.0	F	94.1	94.5	94.5	78.0	84.5	86.5	222	140%	220%
	1200	1175	405T	30.0	85.3	530.0	G	93.0	93.6	94.1	76.0	85.0	87.5	336	150%	220%
	3600	3550	365TS	38.0	112.4	725.0	G	93.0	94.1	94.1	80.0	86.5	88.5	148	140%	210%
100	1800	1770	404T	35.0	112.0	725.0	G	94.1	95.0	95.0	79.0	84.5	88.0	297	130%	220%
	1200	1185	444T	33.0	116.0	725.0	G	93.8	94.5	94.1	76.0	83.0	85.5	443	140%	210%
	3600	3550	404TS	44.0	138.4	890.0	G	93.6	94.5	94.5	80.0	86.5	89.5	185	130%	200%
125	1800	1770	405T	44.0	144.9	900.0	G	93.6	95.0	95.0	77.5	84.0	85.0	371	125%	220%
	1200	1185	445T	40.0	145.0	908.0	G	94.3	94.5	94.1	77.0	83.5	85.5	554	140%	210%
	3600	3550	405TS	49.0	168.0	1080.0	G	93.0	94.5	95.0	80.0	86.0	88.0	222	130%	200%
150	1800	1785	444T	81.0	190.0	1085.0	G	94.1	94.9	95.0	63.0	72.5	77.5	441	170%	220%
	1200	1185	445T	49.0	174.0	1085.0	G	94.9	94.9	94.5	77.0	83.5	85.5	665	150%	205%
	3600	3570	444TS	55.0	223.0	1450.0	G	94.5	94.7	94.5	82.0	87.5	89.0	294	140%	220%
200	1800	1785	445T	78.0	235.0	1450.0	G	94.8	95.1	95.0	73.5	81.5	84.0	588	175%	210%
	1200	1185	447T	73.0	232.0	1450.0	G	95.0	95.0	94.5	76.0	82.5	85.5	886	150%	205%
	3600	3565	445TS	55.0	277.0	1825.0	G	93.6	94.2	94.0	84.5	88.6	90.0	369	115%	240%
250	1800	1785	445T	120.0	315.0	1825.0	G	92.5	94.0	94.0	64.0	75.0	79.0	738	100%	200%
	1200	1185	449T	96.0	288.0	1825.0	G	95.5	95.5	95.0	75.0	83.0	85.5	1108	155%	210%
	3600	3565	447TS	60.0	335.0	2200.0	G	92.5	93.3	93.0	87.0	89.1	90.0	443	130%	240%
300	1800	1785	447TS	140.0	364.0	2200.0	G	92.8	94.2	94.1	75.0	79.0	82.0	885	100%	200%
	1200	1185	449TS	117.0	351.0	2200.0	G	94.5	94.5	94.1	75.0	83.0	85.0	1330	100%	180%
350	3600	3570	447TS	70.0	389.0	2550.0	G	92.0	93.6	93.6	87.0	90.0	90.0	516	130%	220%
	1800	1780	447TS	167.0	433.0	2550.0	G	93.0	94.5	94.5	70.0	78.0	80.0	1036	80%	180%
400	3600	3570	449TS	85.0	442.0	2900.0	G	93.0	94.3	94.1	88.0	90.0	90.0	590	100%	200%
	1800	1775	449TS	190.0	495.0	2900.0	G	93.5	94.0	94.5	70.0	75.0	80.0	1180	80%	180%
450	3600	3560	449TS	120.0	487.0	3250.0	G	94.0	95.1	95.0	88.0	91.0	91.0	663	140%	270%
500	3600	3555	449TS	143.0	570.0	3625.0	G	94.9	95.1	94.8	81.2	86.5	88.2	738	130%	220%

*Current at 575 volts = current at 460V x 0.80 All other data (kVA Code, Efficiencies, Power Factors, Torques and Stall Times) remain same as 460V data.

DOE# CC015A RGE1
DOE# CC032A RGE/RG

Prices and data subject to change without notice.

EPACT Efficiency
Totally Enclosed Fan Cooled (TEFC)
Types RGZP / RGZPSD

460 Volts
NEMA Design B
40°C Ambient

				Current (A)*			kVA/	Nominal Efficiency			Power Factor			Torque			LR Stall Time		Winding
HP	Synch RPM	F.L. RPM	Frame	No Load	Full Load	Locked Rotor	HP Code	1/2	3/4	Full Load	1/2	3/4	Full Load	Full Load (Lb-Ft)	Locked Rotor	Break-Down	Hot (Sec)	Cold (Sec)	Connec-tion
	3600	3490	143T	0.8	1.4	11	K	72.1%	74.8%	75.5%	75%	86%	92%	1.5	280%	340%	15	30	wye
1	1800	1745	143T	1.1	1.5	11	K	78.7%	81.8%	82.5%	52%	66%	76%	3.0	290%	320%	14	30	wye
	1200	1140	145T	1.3	1.8	9	J	76.4%	78.8%	80.0%	42%	56%	65%	4.6	230%	290%	19	40	wye
	900	860	182T	1.2	1.9	8	H	76.6%	78.9%	78.5%	42%	54%	63%	6.1	220%	260%	20	40	wye
	3600	3485	143T	0.9	2.0	16	K	78.0%	82.0%	82.5%	69%	79%	85%	2.3	270%	320%	13	28	wye
1.5	1800	1740	145T	1.4	2.2	17	K	80.7%	83.5%	84.0%	54%	67%	76%	4.5	290%	320%	13	29	wye
	1200	1160	182T	1.5	2.3	16	K	81.6%	84.2%	85.5%	50%	63%	71%	6.8	280%	320%	22	33	wye
	900	860	184T	1.8	2.6	13	H	78.0%	80.4%	80.0%	45%	58%	68%	9.2	220%	270%	18	30	wye
	3600	3495	145T	1.1	2.5	22	K	79.9%	83.2%	84.0%	73%	83%	89%	3.0	270%	320%	15	33	wye
2	1800	1735	145T	1.9	2.9	21	K	80.7%	83.6%	84.0%	52%	67%	77%	6.1	290%	310%	12	25	wye
	1200	1160	184T	1.9	3.0	22	K	84.5%	86.0%	86.5%	50%	63%	72%	9.1	220%	300%	21	32	wye
	900	865	213T	2.2	3.3	17	H	80.0%	82.0%	82.5%	46%	60%	69%	12.0	200%	290%	18	30	wye
	3600	3505	182T	1.7	3.7	32	K	81.5%	85.0%	85.5%	73%	84%	89%	4.5	230%	320%	16	37	wye
3	1800	1740	182T	1.8	3.9	30	K	87.5%	88.0%	87.5%	65%	76%	82%	9.1	260%	300%	16	35	wye
	1200	1165	213T	2.3	4.0	32	K	85.8%	87.6%	87.5%	58%	73%	80%	14.0	210%	300%	17	35	wye
	900	865	215T	3.1	4.7	26	H	82.5%	84.2%	84.0%	48%	62%	71%	18.0	190%	280%	15	32	wye
	3600	3490	184T	1.8	5.8	46	J	86.5%	87.8%	87.5%	82%	89%	92%	7.5	260%	320%	12	26	wye
5	1800	1730	184T	3.2	6.5	46	J	87.5%	88.2%	87.5%	63%	75%	82%	15.0	260%	300%	17	36	wye
	1200	1160	215T	3.3	6.8	46	J	87.0%	88.0%	87.5%	60%	72%	79%	23.0	210%	300%	14	29	wye
	900	865	254T	4.1	7.5	40	H	86.0%	87.0%	86.5%	53%	66%	72%	30.0	180%	260%	13	25	wye
	3600	3515	213T	3.4	8.8	64	H	87.0%	88.0%	88.5%	77%	86%	90%	11.0	190%	280%	14	29	wye
7.5	1800	1750	213T	4.2	9.5	64	H	89.0%	90.0%	89.5%	66%	77%	83%	23.0	210%	270%	14	29	wye
	1200	1170	254T	4.5	9.8	60	H	89.9%	90.0%	89.5%	67%	76%	80%	34.0	180%	250%	20	39	wye
	900	865	256T	6.6	12.0	64	H	87.0%	88.0%	87.5%	49%	61%	69%	46.0	190%	260%	15	30	wye
	3600	3505	215T	4.0	12.0	81	H	89.0%	89.8%	89.5%	80%	89%	91%	15.0	190%	260%	14	29	wye
10	1800	1750	215T	5.4	13.0	81	H	89.5%	90.0%	89.5%	68%	79%	84%	30.0	210%	270%	15	30	wye
	1200	1165	256T	5.0	13.0	75	G	89.9%	90.1%	89.5%	67%	77%	81%	45.0	170%	250%	18	35	wye
	900	875	284T	9.1	15.0	81	H	89.4%	90.9%	91.0%	50%	61%	69%	60.0	150%	220%	15	30	delta
	3600	3530	254T	5.0	17.0	116	G	88.5%	90.0%	90.2%	84%	90%	92%	22.0	190%	260%	17	31	wye
15	1800	1760	254T	7.3	19.0	116	G	91.0%	91.5%	91.0%	69%	78%	83%	45.0	190%	260%	18	35	wye
	1200	1175	284T	10.0	20.0	116	G	90.2%	90.9%	90.2%	57%	71%	78%	67.0	160%	270%	20	45	delta
	900	875	286T	14.0	23.0	116	G	90.1%	91.4%	91.0%	50%	60%	67%	90.0	150%	220%	18	35	delta
	3600	3525	256T	7.4	23.0	145	G	88.3%	89.9%	90.2%	82%	86%	90%	30.0	180%	260%	17	25	wye
20	1800	1755	256T	9.1	26.0	145	G	90.9%	91.4%	91.0%	67%	77%	81%	60.0	190%	270%	18	35	wye
	1200	1175	286T	12.0	26.0	145	G	90.7%	90.9%	90.2%	63%	74%	80%	89.0	160%	250%	19	43	delta
	900	880	324T	18.0	31.0	145	G	90.0%	91.2%	91.0%	50%	61%	67%	119.0	140%	200%	15	35	delta
	3600	3525	284TS	8.0	29.0	183	G	90.5%	90.4%	91.0%	82%	88%	89%	37.0	160%	250%	16	30	delta
25	1800	1765	284T	13.0	29.0	183	G	92.6%	92.9%	92.4%	72%	82%	87%	74.0	220%	280%	19	40	delta
	1200	1180	324T	15.0	33.0	183	G	92.1%	92.3%	91.7%	58%	69%	77%	111.0	170%	240%	25	50	delta

*Current at 575 volts = current at 460V x 0.80 All other data (kVA Code, Efficiencies, Power Factors, Torques and Stall Times) remain same as 460V data.

DOE# CC032A

Prices and data subject to change without notice.

EPACT Efficiency
Totally Enclosed Fan Cooled (TEFC)
Types RGZP / RGZPSD

460 Volts
NEMA Design B
40°C Ambient

HP	Synch RPM	F.L. RPM	Frame	Current (A)* No Load	Current (A)* Full Load	Current (A)* Locked Rotor	kVA/ HP Code	Nominal Efficiency 1/2	Nominal Efficiency 3/4	Nominal Efficiency Full Load	Power Factor 1/2	Power Factor 3/4	Power Factor Full Load	Torque Full Load (Lb-Ft)	Torque Locked Rotor	Torque Break-Down	LR Stall Time Hot (Sec)	LR Stall Time Cold (Sec)	Winding Connection
	3600	3525	286TS	9.5	34	218	G	91.9%	91.8%	91.0%	86%	89%	90%	45	160%	250%	16	30	delta
30	1800	1765	286T	15	35	218	G	92.6%	93.0%	92.4%	72%	84%	88%	89	220%	280%	19	40	delta
	1200	1180	326T	19	39	218	G	91.9%	92.2%	91.7%	59%	72%	79%	134	170%	240%	25	50	delta
	3600	3530	324TS	13	46	290	G	91.3%	92.1%	91.7%	85%	89%	90%	60	150%	250%	22	45	delta
40	1800	1770	324T	15	47	290	G	93.5%	93.6%	93.0%	76%	83%	86%	119	190%	240%	20	40	delta
	1200	1180	364T	24	52	290	G	93.0%	93.3%	93.0%	60%	71%	77%	178	170%	230%	29	55	delta
	3600	3530	326TS	15	55	363	G	92.0%	92.7%	92.4%	86%	91%	92%	74	150%	250%	18	37	delta
50	1800	1770	326T	18	58	363	G	93.4%	93.5%	93.0%	78%	85%	87%	148	190%	240%	20	40	delta
	1200	1180	365T	30	66	363	G	93.2%	93.6%	93.0%	61%	72%	77%	223	170%	230%	29	55	delta
	3600	3545	364TS	19	68	435	G	93.2%	93.5%	93.0%	81%	87%	89%	89	160%	250%	16	28	delta
60	1800	1775	364T	21	71	435	G	93.9%	94.1%	93.6%	74%	82%	85%	178	160%	240%	22	45	delta
	1200	1185	404T	27	74	435	G	94.5%	94.3%	93.6%	75%	80%	81%	266	165%	230%	18	38	delta
	3600	3545	365TS	22	85	543	G	93.2%	93.4%	93.0%	82%	87%	89%	111	160%	260%	16	27	delta
75	1800	1775	365T	27	87	543	G	94.4%	94.6%	94.1%	74%	83%	85%	222	155%	240%	22	45	delta
	1200	1185	405T	35	93	543	G	94.1%	94.3%	93.6%	78%	80%	81%	333	170%	240%	13	27	delta
	3600	3565	405TS	19	112	725	G	93.7%	93.8%	93.6%	89%	91%	91%	147	120%	210%	12	25	delta
100	1800	1780	405T	28	114	725	G	94.7%	94.9%	94.5%	81%	86%	87%	295	160%	200%	22	43	delta
	1200	1185	444TS	38	117	725	G	93.9%	94.2%	94.1%	79%	84%	85%	443	165%	230%	18	38	delta
	3600	3575	444TS	31	138	908	G	94.2%	94.6%	94.5%	84%	89%	90%	184	120%	200%	24	40	delta
125	1800	1785	444TS	43	145	908	G	93.5%	94.5%	94.5%	78%	84%	86%	368	160%	200%	26	56	delta
	1200	1185	445TS	44	145	908	G	94.1%	94.4%	94.1%	80%	85%	86%	554	140%	220%	15	32	delta
	3600	3575	445TS	37	165	1085	G	94.2%	94.6%	94.5%	87%	89%	90%	221	145%	235%	23	40	delta
150	1800	1785	445TS	45	170	1085	G	94.6%	95.1%	95.0%	81%	86%	87%	441	150%	200%	25	53	delta
	1200	1185	447TS	45	171	1085	G	95.1%	95.4%	95.0%	81%	86%	87%	665	120%	200%	12	25	delta
	3600	3575	447TS	39	212	1450	G	94.4%	95.1%	95.0%	90%	92%	93%	294	120%	200%	16	27	delta
200	1800	1785	447TS	61	225	1450	G	94.9%	95.2%	95.0%	81%	86%	87%	588	150%	200%	18	31	delta
	1200	1185	449TS	60	224	1450	G	94.8%	95.3%	95.0%	82%	87%	88%	886	120%	200%	18	38	delta
250	3600	3570	449TS	50	274	1825	G	93.6%	94.2%	94.1%	80.7%	88.2%	90.7%	368	100%	190%	15	26	delta
	1800	1785	449T	83	293	1825	G	93.2%	94.5%	94.1%	80.9%	84.9%	84.9%	736	125%	200%	14	24	delta

*Current at 575 volts = current at 460V x 0.80 All other data (kVA Code, Efficiencies, Power Factors, Torques and Stall Times) remain same as 460V data.

High Efficiency
Totally Enclosed Fan Cooled (TEFC)
Types RGZESD / RGZZESD / RGZESDX

460 Volts, NEMA Design B, 40° C Ambient

				Current (A)*			kVA/	Nominal Efficiency			Power Factor			Torque			LR Stall Time		Winding
HP	Synch RPM	F.L. RPM	Frame	No Load	Full Load	Locked Rotor	HP Code	1/2	3/4	Full Load	1/2	3/4	Full Load	Full Load (Lb-Ft)	Locked Rotor	Break-Down	Hot (Sec)	Cold (Sec)	Connec-tion
1.0	1800	1745	143T	1.1	1.5	11	K	78.7%	81.8%	82.5%	52%	66%	76%	3.0	290%	320%	14	30	wye
1.0	1200	1140	145T	1.3	1.8	9	J	76.4%	78.8%	80.0%	42%	56%	65%	4.6	230%	290%	19	40	wye
1.0	900	860	182T	1.2	1.9	8	H	76.6%	78.9%	78.5%	42%	54%	63%	6.1	220%	260%	20	40	wye
1.5	3600	3485	143T	0.9	2.0	16	K	78.0%	82.0%	82.5%	69%	79%	85%	2.3	270%	320%	13	28	wye
1.5	1800	1740	145T	1.4	2.2	17	K	80.7%	83.5%	84.0%	54%	67%	76%	4.5	290%	320%	13	29	wye
1.5	1200	1160	182T	1.5	2.3	16	K	81.6%	84.2%	85.5%	50%	63%	71%	6.8	280%	320%	22	33	wye
1.5	900	860	184T	1.8	2.6	13	H	78.0%	80.4%	80.0%	45%	58%	68%	9.2	220%	270%	18	30	wye
2.0	3600	3495	145T	1.1	2.5	22	K	79.9%	83.2%	84.0%	73%	83%	89%	3.0	270%	320%	15	33	wye
2.0	1800	1735	145T	1.9	2.9	21	K	80.7%	83.6%	84.0%	52%	67%	77%	6.1	290%	310%	12	25	wye
2.0	1200	1160	184T	1.9	3.0	22	K	84.5%	86.0%	86.5%	50%	63%	72%	9.1	220%	300%	21	32	wye
2.0	900	865	213T	2.2	3.3	17	H	80.0%	82.0%	82.5%	46%	60%	69%	12.0	200%	290%	18	30	wye
3.0	3600	3510	182T	1.7	3.6	32	K	83.8%	86.2%	86.5%	75%	84%	90%	4.5	230%	320%	15	34	wye
3.0	1800	1740	182T	1.8	3.9	30	K	87.5%	88.0%	87.5%	65%	76%	82%	9.1	260%	300%	16	35	wye
3.0	1200	1165	213T	2.3	4.0	32	K	85.8%	87.6%	87.5%	58%	73%	80%	14.0	210%	300%	17	35	wye
3.0	900	865	215T	3.1	4.7	26	H	82.5%	84.2%	84.0%	48%	62%	71%	18.0	190%	280%	15	32	wye
5.0	3600	3490	184T	1.8	5.8	46	J	86.5%	87.8%	87.5%	82%	89%	92%	7.5	260%	320%	12	26	wye
5.0	1800	1730	184T	3.2	6.5	46	J	87.5%	88.2%	87.5%	63%	75%	82%	15.0	260%	300%	17	36	wye
5.0	1200	1160	215T	3.3	6.8	46	J	89.0%	89.7%	88.5%	59%	71%	78%	23.0	210%	300%	14	29	wye
5.0	900	865	254T	4.1	7.5	40	H	86.0%	87.0%	86.5%	53%	66%	72%	30.0	180%	260%	13	25	wye
7.5	3600	3515	213T	3.4	8.8	64	H	87.0%	88.0%	88.5%	77%	86%	90%	11.0	190%	280%	11	25	wye
7.5	1800	1750	213T	4.2	9.5	64	H	89.0%	90.0%	89.5%	66%	77%	83%	23.0	210%	270%	14	29	wye
7.5	1200	1170	254T	4.5	9.8	60	H	90.6%	90.9%	90.2%	59%	72%	78%	34.0	180%	250%	18	35	wye
7.5	900	865	256T	6.6	12.0	64	H	87.0%	88.0%	87.5%	49%	61%	69%	46.0	190%	260%	15	30	wye
10.0	3600	3505	215T	4.0	12.0	81	H	89.0%	89.8%	89.5%	80%	89%	87%	15.0	190%	260%	14	29	wye
10.0	1800	1750	215T	5.4	13.0	81	H	89.5%	90.0%	89.5%	68%	79%	84%	30.0	210%	270%	15	30	wye
10.0	1200	1165	256T	5.0	13.0	75	G	91.7%	91.5%	90.2%	65%	75%	80%	45.0	170%	250%	18	35	wye
10.0	900	875	284T	9.1	15.0	81	H	89.4%	90.9%	91.0%	50%	61%	69%	60.0	150%	220%	15	30	delta
15.0	3600	3530	254T	5.0	17.0	116	G	88.5%	90.0%	90.2%	84%	90%	92%	22.0	190%	260%	17	31	wye
15.0	1800	1760	254T	7.3	19.0	116	G	91.7%	92.1%	91.7%	68%	78%	82%	45.0	190%	260%	18	35	wye
15.0	1200	1175	284T	10.0	20.0	116	G	91.0%	91.7%	91.0%	57%	71%	77%	67.0	160%	270%	20	45	delta
15.0	900	875	286T	14.0	23.0	116	G	90.1%	91.4%	91.0%	50%	60%	67%	90.0	150%	220%	18	35	delta
20.0	3600	3525	256T	7.4	23.0	145	G	88.3%	89.9%	90.2%	82%	86%	90%	30.0	180%	260%	17	25	wye
20.0	1800	1755	256T	9.1	26.0	145	G	92.1%	92.4%	91.7%	67%	76%	80%	60.0	190%	270%	18	35	wye
20.0	1200	1175	286T	12.0	26.0	145	G	92.1%	92.4%	91.7%	62%	73%	79%	89.0	160%	250%	19	43	delta
20.0	900	880	324T	18.0	31.0	145	G	90.0%	91.2%	91.0%	50%	61%	67%	119.0	140%	200%	15	35	delta
25.0	3600	3525	284TS	8.0	29.0	183	G	92.0%	92.2%	91.7%	80%	85%	88%	37.0	160%	250%	16	30	delta
25.0	1800	1765	284T	13.0	29.0	183	G	93.3%	93.6%	93.0%	72%	82%	87%	74.0	220%	280%	19	40	delta
25.0	1200	1180	324T	15.0	33.0	183	G	92.2%	92.7%	92.4%	57%	69%	77%	111.0	170%	240%	25	50	delta
25.0	900	880	326T	22.0	38.0	183	G	89.2%	90.5%	90.2%	50%	61%	68%	149.0	150%	200%	22	40	delta
30.0	3600	3525	286TS	9.5	34.0	218	G	92.0%	92.2%	91.7%	84%	89%	90%	45.0	160%	250%	16	30	delta
30.0	1800	1765	286T	15.0	35.0	218	G	93.2%	93.6%	93.0%	71%	82%	86%	89.0	220%	280%	19	40	delta
30.0	1200	1180	326T	19.0	39.0	218	G	92.6%	92.9%	92.4%	58%	70%	78%	134.0	170%	240%	25	50	delta
30.0	900	885	364T	26.0	47.0	218	G	89.9%	91.3%	91.0%	50%	62%	66%	178.0	150%	200%	22	40	delta

*Current at 575 volts = current at 460V x 0.80 All other data (kVA Code, Efficiencies, Power Factors, Torques and Stall Times) remain same as 460V data.

DOE# CC032A

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High Efficiency
Totally Enclosed Fan Cooled (TEFC)
Types RGZESD / RGZZESD / RGZESDX

460 Volts, NEMA Design B, 40° C Ambient

HP	Synch RPM	F.L. RPM	Frame	Current (A)* No Load	Current (A)* Full Load	Current (A)* Locked Rotor	kVA/ HP Code	Nominal Efficiency 1/2	Nominal Efficiency 3/4	Nominal Efficiency Full Load	Power Factor 1/2	Power Factor 3/4	Power Factor Full Load	Torque Full Load (Lb-Ft)	Torque Locked Rotor	Torque Break-Down	LR Stall Time Hot (Sec)	LR Stall Time Cold (Sec)	Winding Connection
40.0	3600	3530	324TS	12	45	290	G	94.0%	94.1%	93.6%	80%	87%	89%	60	150%	250%	22	45	delta
40.0	1800	1770	324T	15	47	290	G	94.0%	94.2%	93.6%	77%	82%	85%	119	190%	240%	20	40	delta
40.0	1200	1180	364T	24	52	290	G	93.6%	93.9%	93.6%	59%	71%	77%	178	170%	230%	29	55	delta
40.0	900	885	365T	36	63	290	G	90.7%	92.0%	91.7%	49%	60%	65%	237	150%	200%	25	40	delta
50.0	3600	3530	326TS	15	55	363	G	94.1%	94.2%	93.6%	82%	89%	91%	74	150%	250%	18	37	delta
50.0	1800	1770	326T	18	58	363	G	94.1%	94.2%	93.6%	77%	87%	86%	148	190%	240%	20	40	delta
50.0	1200	1180	365T	30	66	363	G	94.0%	94.2%	93.6%	60%	71%	76%	223	170%	230%	29	55	delta
50.0	900	885	404T	28	67	363	G	92.3%	92.4%	91.7%	64%	73%	76%	297	140%	200%	25	40	delta
60.0	3600	3565	364TS	19	68	435	G	93.8%	94.1%	93.6%	80%	86%	88%	89	160%	250%	16	28	delta
60.0	1800	1775	364T	21	71	435	G	93.9%	94.1%	93.6%	74%	82%	85%	178	160%	240%	22	45	delta
60.0	1200	1185	404T	26	74	435	G	94.1%	94.5%	94.1%	70%	78%	81%	266	150%	200%	25	50	delta
60.0	900	885	405T	30	78	435	G	92.3%	92.4%	91.7%	67%	76%	79%	356	140%	200%	30	35	delta
75.0	3600	3565	365TS	22	85	543	G	94.3%	94.5%	94.1%	81%	86%	88%	111	160%	260%	16	27	delta
75.0	1800	1775	365T	27	87	543	G	94.4%	94.6%	94.1%	74%	83%	85%	222	155%	240%	22	45	delta
75.0	1200	1185	405T	34	93	543	G	94.7%	94.9%	94.5%	68%	77%	80%	332	150%	200%	33	45	delta
75.0	900	885	444T	37	94	543	G	92.9%	93.3%	93.0%	67%	76%	80%	445	135%	200%	25	32	delta
100	3600	3570	405TS	19	108	725	G	94.6%	94.7%	94.1%	90%	92%	92%	147	120%	200%	25	45	delta
100	1800	1780	405T	30	113	725	G	95.0%	95.2%	94.5%	80%	85%	87%	295	160%	200%	25	35	delta
100	1200	1185	444TS	38	117	725	G	94.6%	94.9%	94.5%	75%	82%	85%	443	140%	200%	30	35	delta
100	900	885	445T	48	123	725	G	94.2%	94.5%	94.1%	70%	78%	81%	593	130%	200%	22	30	delta
125	3600	3575	444TS	32	138	908	G	94.0%	94.6%	94.5%	85%	89%	90%	184	120%	200%	18	23	delta
125	1800	1785	444TS	42	143	908	G	95.1%	95.3%	95.0%	78%	84%	86%	368	160%	200%	20	25	delta
125	1200	1185	445TS	44	144	908	G	94.7%	94.9%	94.5%	77%	84%	86%	554	140%	200%	25	35	delta
125	900	885	447T	54	152	908	G	94.1%	94.2%	93.6%	70%	79%	82%	742	130%	200%	20	30	delta
150	3600	3575	445TS	37	164	1085	G	94.8%	95.2%	95.0%	84%	89%	90%	220	120%	200%	15	18	delta
150	1800	1785	445TS	45	170	1085	G	95.7%	96.0%	95.8%	80%	85%	86%	441	150%	200%	20	30	delta
150	1200	1185	447TS	45	170	1085	G	95.4%	95.6%	95.0%	81%	86%	87%	665	125%	200%	28	43	delta
150	900	885	447T	72	186	1085	G	94.1%	94.5%	94.1%	67%	76%	80%	890	130%	200%	20	25	delta
200	3600	3575	447TS	40	216	1450	G	94.9%	95.2%	95.0%	88%	90%	91%	294	120%	200%	16	20	delta
200	1800	1785	447TS	60	225	1450	G	96.0%	96.1%	95.8%	81%	86%	87%	588	150%	200%	18	25	delta
200	1200	1185	449TS	55	226	1450	G	95.4%	95.5%	95.0%	82%	86%	87%	886	125%	200%	25	32	delta
200	900	885	449T	101	241	1450	G	94.8%	94.9%	94.5%	71%	79%	82%	1186	125%	200%	15	25	delta
250	3600	3570	449TS	45	267	1825	G	95.3%	95.6%	95.4%	90%	92%	92%	368	120%	200%	12	18	delta
250	1800	1785	449TS	78	281	1825	G	95.8%	96.0%	95.8%	80%	85%	87%	735	140%	200%	18	25	delta
250	1200	1185	449TS	75	280	1825	G	95.5%	95.5%	95.0%	82%	87%	88%	1108	120%	200%	20	25	delta
250	900	885	S449	111	303	1825	G	94.5%	94.8%	94.5%	70%	78%	82%	1483	105%	200%	25	32	delta
300	3600	3575	449TS	68	323	2200	G	95.2%	95.8%	95.8%	86%	90%	91%	441	100%	200%	12	13	delta
300	1800	1785	449TS	110	346	2200	G	95.0%	95.5%	95.4%	76%	83%	85%	882	120%	200%	12	15	delta
300	1200	1185	S449	90	336	2200	G	95.5%	95.5%	95.0%	82%	87%	88%	1329	105%	200%	26	33	delta
350	3600	3570	S449SS	67	369	2550	G	95.4%	95.7%	95.4%	90%	92%	93%	515	80%	200%	20	26	delta
350	1800	1785	S449	115	390	2550	G	95.5%	95.9%	95.8%	79%	86%	88%	1029	100%	200%	25	32	delta
350	1200	1185	S449	133	395	2550	G	95.2%	95.3%	95.0%	77%	84%	87%	1551	100%	200%	17	20	delta
400	3600	3570	S449SS	80	418	2900	G	94.2%	95.6%	95.4%	90%	93%	94%	588	80%	200%	17	24	delta
400	1800	1785	S449	138	449	2900	G	95.7%	96.0%	95.8%	79%	85%	87%	1176	100%	200%	21	26	—
400	1200	1185	S449	145	455	3260**	H	95.2%	95.3%	94.5%	79%	84%	87%	1772	100%	200%	—	—	—

*Current at 575 volts = current at 460V x 0.80 All other data (kVA Code, Efficiencies, Power Factors, Torques and Stall Times) remain same as 460V data.

**NEMA Design A. 1.0 s.f., Class F.

DOE# CC032A

Type RGZESD
Multi-Speed 1 Winding
Variable Torque

3-Phase-60 Hertz / 460 Volts

HP	RPM	F.L. Amps*	Frame	EFF. 1/2	EFF. 3/4	EFF. F.L.	P.F. 1/2	P.F. 3/4	P.F. F.L.	Torque F.L.	Torque LR%	Torque BD%
1/	1740/	1.8	143T	69.2	75.6	78.7	46.2	58.9	68.4	3.0	295	369
.25	855	0.8		41.9	50.7	55.7	35.0	42.7	50.1	1.5	249	295
1.5/	1725/	2.3	145T	74.2	78.4	79.3	55.2	69.0	77.7	4.6	243	320
.37	845	1.1		49.1	57.4	61.4	37.1	46.1	54.6	2.3	243	245
2/	1750/	2.9	182T	80.6	82.8	82.6	62.9	75.3	82.4	6.0	171	290
.5	855	1.2		65.1	70.1	71.3	42.3	53.5	62.2	3.1	157	242
3/	1745/	4.1	184T	83.0	84.7	84.4	62.8	75.2	82.4	9.0	187	313
.75	855	1.6		69.2	73.0	73.8	41.7	52.9	61.4	4.6	207	244
5/	1755/	6.5	213T	84.7	86.1	85.7	64.8	76.8	83.3	15.0	221	301
1.2	865	2.5		71.7	75.8	76.8	40.3	51.5	59.9	7.3	220	253
7.5/	1750/	9.6	215T	86.0	86.9	86.3	65.7	77.9	84.0	22.5	203	288
1.9	860	3.6		74.1	77.7	78.4	42.5	54.3	62.7	11.6	160	229
10/	1755/	13.4	254T	87.3	89.2	89.6	58.8	70.1	76.3	29.9	219	307
2.5	880	6.0		74.4	78.8	80.4	30.0	38.9	45.9	14.9	112	193
15/	1755/	20.8	256T	88.2	90.2	90.7	55.0	67.0	74.0	44.9	286	322
3.7	880	10.1		70.8	76.6	78.8	28.4	36.6	43.3	22.1	145	217
20/	1770/	27.0	284T	84.3	86.9	87.4	62.6	74.4	79.9	59.3	225	230
5	880	9.0		82.5	85.3	85.9	42.4	53.3	60.6	29.8	131	225
25/	1770/	30.	286T	91.4	91.8	91.2	88.1	88.6	87.7	74.2	191	286
6.2	880	10.6		88.1	88.6	87.7	45.5	56.3	62.6	37.0	122	183
30/	1775/	36.4	324T	88.7	90.1	91.0	72.9	81.1	84.8	88.7	213	285
7.5	880	12.5		86.2	88.3	88.5	45.6	57.3	63.7	44.7	139	195
40/	1775/	48	326T	92.4	92.8	92.4	70.4	80.0	84.2	118	197	297
10	880	17		90.0	90.7	90.3	44.1	55.5	62.2	59.7	158	193
50/	1780/	65	364T	87.1	89.2	91.0	64.4	75.0	80.4	147	230	314
12.5	885	22		85.0	87.5	88.3	43.8	54.7	61.5	74	150	253
60/	1780/	74	365T	90.4	91.5	91.4	69.0	78.7	83.0	177	220	293
15	885	25		90.0	91.0	90.7	44.0	55.2	61.5	89	146	300
75/	1785/	88	405T	91.4	91.6	91.0	82.1	87.8	89.5	220	164	259
19	890	32		88.1	89.7	89.8	45.7	57.8	65.0	111	118	213
100/	1790/	118	444TS	92.8	93.4	93.1	77.8	85.3	88.2	293	236	323
25	890	45		89.4	90.9	91.1	39.0	51.1	59.2	146	169	250
125/	1790/	158	445TS	92.8	93.6	93.5	75.3	83.6	86.9	366	242	320
31	890	57		89.1	91.0	91.5	38.4	50.3	58.5	181	170	250
150/	1790/	180	447TS	92.7	93.5	93.3	76.9	84.4	87.2	440	219	292
37.5	895	67		89.7	91.2	91.4	38.5	50.4	58.2	220	156	224
200/	1785/	230	449TS	93.9	94.3	93.9	81.5	87.2	88.8	586	199	262
50	890	85		91.3	92.3	92.2	42.8	54.7	61.7	293	139	199
250/	1785/	288	449TS	93.2	93.9	93.8	80.0	85.0	86.0	735	185	250
62.5	890	105.		89.6	91.0	91.0	45.5	55.5	61.0	369	130	150

*Current at 575 volts = current at 460V x 0.80 All other data (kVA Code, Efficiencies, Power Factors, Torques and Stall Times) remain same as 460V data.

High Efficiency
Totally Enclosed Fan Cooled (TEFC)
Types RGZESDX IEEE Std. 841-2001

460 Volts only
NEMA Design B
40° C Ambient

HP	Synch RPM	F.L. RPM	Frame	Current [A]* No Load	Current [A]* Full Load	Current [A]* Locked Rotor	kVA/ HP Code	Nominal Efficiency 1/2	Nominal Efficiency 3/4	Nominal Efficiency Full Load	Nominal Efficiency Min Guar	Power Factor 1/2	Power Factor 3/4	Power Factor Full Load	Torque Full Load [Lb-Ft]	Torque Locked Rotor	Torque Break-Down	LR Stall Time Hot (Sec.)	LR Stall Time Cold (Sec.)	Winding Connec-tion
1	3600	3495	143T	0.6	1.3	11	K	78.7%	81.9%	82.5%	80.0%	71%	82%	88%	1.5	230%	360%	18	38	wye
1	1800	1760	143T	1.0	1.5	12	L	80.6%	83.3%	84.0%	81.5%	52%	66%	74%	3.0	275%	400%	16	38	wye
1	1200	1160	145T	1.0	1.6	11	K	78.4%	81.2%	81.5%	78.5%	50%	64%	72%	4.5	220%	310%	22	38	wye
1	900	860	182T	1.3	1.9	8	H	72.1%	75.0%	78.5%	75.5%	43%	56%	65%	6.1	200%	260%	20	40	wye
1.5	3600	3495	143T	0.9	1.9	17	L	83.0%	85.3%	85.5%	82.5%	73%	83%	88%	2.3	270%	400%	16	36	wye
1.5	1800	1755	145T	1.4	2.2	19	L	82.8%	85.2%	85.5%	82.5%	54%	67%	75%	4.5	260%	400%	16	35	wye
1.5	1200	1160	182T	1.5	2.3	16	K	84.0%	86.3%	86.5%	84.0%	49%	62%	71%	6.8	300%	400%	22	35	wye
1.5	900	860	184T	2.0	2.8	13	H	78.0%	80.4%	80.0%	77.0%	42%	54%	63%	9.2	230%	300%	19	31	wye
2	3600	3495	145T	1.1	2.4	23	L	84.4%	86.4%	86.5%	84.0%	74%	85%	90%	3.0	280%	400%	16	37	wye
2	1800	1755	145T	1.6	2.8	22	K	83.0%	85.4%	85.5%	82.5%	57%	70%	78%	6.0	260%	380%	16	33	wye
2	1200	1160	184T	1.8	3.0	22	K	85.5%	87.5%	87.5%	85.5%	49%	64%	71%	9.1	290%	360%	21	35	wye
2	900	870	213T	2.2	3.2	17	H	82.8%	84.3%	84.0%	81.5%	46%	60%	70%	12.0	200%	290%	18	30	wye
3	3600	3505	182T	1.6	3.6	32	K	84.3%	86.5%	86.5%	84.0%	77%	88%	90%	4.5	280%	360%	15	34	wye
3	1800	1735	182T	2.0	3.9	32	K	88.2%	89.0%	88.5%	86.5%	62%	74%	81%	9.3	300%	340%	16	35	wye
3	1200	1170	213T	2.1	4.0	32	K	88.1%	89.1%	88.5%	86.5%	59%	72%	79%	13.0	250%	350%	17	35	wye
3	900	865	215T	2.5	4.5	26	H	86.0%	86.5%	85.5%	82.5%	51%	64%	73%	18.0	190%	280%	16	32	wye
5	3600	3485	184T	1.8	5.7	46	J	88.0%	89.1%	88.5%	86.5%	83%	89%	92%	7.5	260%	320%	14	30	wye
5	1800	1730	184T	3.0	6.5	46	J	88.2%	89.0%	88.5%	86.5%	64%	75%	81%	15.0	280%	340%	17	36	wye
5	1200	1160	215T	3.3	6.8	46	J	89.0%	89.7%	88.5%	86.5%	59%	71%	78%	23.0	210%	300%	14	29	wye
5	900	865	254T	4.1	7.5	40	H	86.0%	87.0%	86.5%	84.0%	53%	66%	72%	30.0	180%	260%	13	25	wye
7.5	3600	3535	213T	2.9	8.6	64	H	88.7%	90.4%	89.5%	87.5%	78%	87%	91%	11.0	220%	320%	12	20	wye
7.5	1800	1760	213T	4.2	9.5	64	H	90.2%	90.9%	90.2%	88.5%	63%	76%	82%	22.0	210%	270%	14	29	wye
7.5	1200	1170	254T	4.5	9.8	60	H	90.6%	90.9%	90.2%	88.5%	59%	72%	78%	34.0	180%	250%	18	35	wye
7.5	900	865	256T	6.6	12.0	64	H	87.0%	88.0%	87.5%	85.5%	48%	60%	68%	46.0	190%	260%	15	30	wye
10	3600	3520	215T	3.3	11.4	81	H	89.7%	90.7%	90.2%	88.5%	81%	88%	91%	15.0	220%	290%	14	29	wye
10	1800	1755	215T	6.0	12.5	81	H	90.3%	90.8%	90.2%	88.5%	63%	76%	83%	30.0	260%	320%	15	30	wye
10	1200	1165	256T	5.0	13.0	75	G	91.7%	91.5%	90.2%	88.5%	65%	75%	80%	45.0	170%	250%	18	35	wye
10	900	875	284T	9.1	15.0	81	H	87.9%	89.7%	90.2%	88.5%	49%	61%	69%	60.0	150%	220%	15	30	delta
15	3600	3530	254T	5.0	17.0	116	G	89.5%	91.1%	91.0%	89.5%	83%	89%	91%	22.0	190%	260%	17	31	wye
15	1800	1760	254T	8.0	19.0	116	G	91.7%	92.1%	91.7%	90.2%	67%	77%	82%	45.0	190%	260%	18	35	wye
15	1200	1175	284T	10.0	20.0	116	G	91.0%	91.7%	91.0%	89.5%	57%	71%	77%	67.0	160%	270%	20	45	delta
15	900	875	286T	14.0	23.0	116	G	88.7%	90.0%	90.2%	88.5%	48%	60%	67%	90.0	150%	220%	18	35	delta
20	3600	3525	256T	7.4	23.0	145	G	90.3%	91.2%	91.0%	89.5%	81%	87%	90%	30.0	180%	260%	17	25	wye
20	1800	1755	256T	9.1	26.0	145	G	92.1%	92.4%	91.7%	90.2%	67%	76%	80%	60.0	190%	270%	18	35	wye
20	1200	1175	286T	12.0	26.0	145	G	91.8%	92.0%	91.7%	90.2%	62%	73%	78%	89.0	160%	250%	19	43	delta
20	900	880	324T	18.0	31.0	145	G	89.8%	91.1%	91.0%	89.5%	50%	61%	67%	119.0	140%	200%	15	35	delta
25	3600	3525	284TS	8.0	29.0	183	G	92.0%	92.2%	91.7%	90.2%	80%	85%	88%	37.0	160%	250%	16	30	delta
25	1800	1765	284T	13.0	29.0	183	G	93.3%	93.6%	93.0%	91.7%	72%	82%	87%	74.0	220%	280%	19	40	delta
25	1200	1180	324T	15.0	33.0	183	G	92.2%	92.7%	92.4%	91.0%	57%	69%	77%	111.0	170%	240%	25	50	delta
25	900	880	326T	24.0	41.0	183	G	89.2%	90.5%	90.2%	88.5%	47%	57%	63%	149.0	150%	200%	22	40	delta
30	3600	3525	286TS	9.5	34.0	218	G	92.0%	92.2%	91.7%	90.2%	84%	89%	90%	45.0	160%	250%	16	30	delta
30	1800	1765	286T	15.0	35.0	218	G	93.2%	93.6%	93.0%	91.7%	71%	82%	86%	89.0	220%	280%	19	40	delta
30	1200	1180	326T	19.0	39.0	218	G	92.6%	92.9%	92.4%	91.0%	58%	70%	78%	134.0	170%	240%	25	50	delta
30	900	885	364T	26.0	47.0	218	G	90.6%	92.0%	91.7%	90.2%	49%	61%	65%	178.0	150%	200%	22	40	delta
40	3600	3535	324TS	12.0	45.0	290	G	94.0%	94.1%	93.6%	92.4%	80%	87%	89%	60.0	150%	250%	22	45	delta
40	1800	1770	324T	15.0	47.0	290	G	94.0%	94.2%	93.6%	92.4%	77%	82%	85%	119.0	190%	240%	20	40	delta
40	1200	1180	364T	24.0	52.0	290	G	93.6%	93.9%	93.6%	92.4%	59%	71%	77%	178.0	170%	230%	29	55	delta
40	900	885	365T	36.0	63.0	290	G	90.7%	92.0%	91.7%	90.2%	49%	60%	65%	237.0	150%	200%	25	40	delta
50	3600	3530	326TS	15.0	55.0	363	G	94.1%	94.1%	93.6%	92.4%	81%	86%	88%	74.0	150%	250%	18	37	delta
50	1800	1770	326T	18.0	58.0	363	G	94.1%	94.2%	93.6%	92.4%	77%	87%	86%	148.0	190%	240%	20	40	delta
50	1200	1180	365T	30.0	66.0	363	G	94.0%	94.2%	93.6%	92.4%	60%	71%	76%	223.0	170%	230%	29	55	delta
50	900	885	404T	28.0	67.0	363	G	93.0%	93.1%	92.4%	91.0%	64%	73%	76%	297.0	140%	200%	25	40	delta

*Current at 575 volts = current at 460V x 0.80 All other data (kVA Code, Efficiencies, Power Factors, Torques and Stall Times) remain same as 460V data.

DOE# CC032A

Prices and data subject to change without notice.

High Efficiency
Totally Enclosed Fan Cooled (TEFC)
Types RGZESDX IEEE Std. 841-2001

460 Volts only
NEMA Design B
40° C Ambient

				Current [A]*			kVA/	Nominal Efficiency				Power Factor			Torque			LR Stall Time		Winding
HP	Synch RPM	F.L. RPM	Frame	No Load	Full Load	Locked Rotor	HP Code	1/2	3/4	Full Load	Min Guar	1/2	3/4	Full Load	Full Load [Lb-Ft]	Locked Rotor	Break-Down	Hot (Sec.)	Cold (Sec.)	Connec-tion
60	3600	3565	364TS	19	68.0	435	G	93.8%	94.1%	93.6%	92.4%	80%	86%	88%	89.0	160%	250%	16	28	delta
60	1800	1775	364T	21	71.0	435	G	94.4%	94.6%	94.1%	93.0%	73%	81%	84%	178.0	160%	240%	22	45	delta
60	1200	1185	404T	26	74.0	435	G	94.1%	94.5%	94.1%	93.0%	70%	78%	81%	266.0	150%	200%	25	50	delta
60	900	885	405T	30	78.0	435	G	93.0%	93.1%	92.4%	91.0%	66%	75%	78%	356.0	140%	200%	30	35	delta
75	3600	3565	365TS	22	85.0	543	G	93.7%	94.3%	94.1%	93.0%	81%	86%	88%	111.0	160%	260%	16	27	delta
75	1800	1775	365T	27	87.0	543	G	94.8%	95.0%	94.5%	93.6%	74%	83%	85%	222.0	155%	240%	22	45	delta
75	1200	1185	405T	34	93.0	543	G	94.7%	94.9%	94.5%	93.6%	68%	77%	80%	332.0	150%	200%	33	45	delta
75	900	885	444T	37	94.0	543	G	93.5%	93.9%	93.6%	92.4%	67%	76%	80%	445.0	135%	200%	25	32	delta
100	3600	3570	405TS	19	108.0	725	G	94.6%	94.7%	94.1%	93.0%	90%	92%	92%	147.0	120%	200%	25	45	delta
100	1800	1780	405T	30	113.0	725	G	95.5%	95.7%	95.0%	94.1%	80%	85%	87%	295.0	160%	200%	25	35	delta
100	1200	1185	444TS	38	117.0	725	G	94.6%	94.9%	94.5%	93.6%	75%	82%	85%	443.0	140%	200%	30	35	delta
100	900	885	445T	48	123.0	725	G	94.2%	94.5%	94.1%	93.0%	70%	78%	81%	593.0	130%	200%	22	30	delta
125	3600	3575	444TS	32	138.0	908	G	94.5%	95.1%	95.0%	94.1%	84%	88%	89%	184.0	120%	200%	18	23	delta
125	1800	1785	444TS	49	143.0	908	G	95.1%	95.3%	95.0%	94.1%	78%	84%	86%	368.0	160%	200%	20	25	delta
125	1200	1185	445TS	48	144.0	908	G	94.7%	94.9%	94.5%	93.6%	77%	84%	86%	554.0	140%	200%	25	35	delta
125	900	885	447T	54	152.0	908	G	94.6%	94.7%	94.1%	93.0%	70%	79%	82%	742.0	130%	200%	20	30	delta
150	3600	3575	445TS	37	164.0	1085	G	94.8%	95.2%	95.0%	94.1%	84%	89%	90%	220.0	120%	200%	15	18	delta
150	1800	1785	445TS	52	170.0	1085	G	95.6%	96.0%	95.8%	95.0%	80%	85%	86%	441.0	150%	200%	20	30	delta
150	1200	1185	447TS	59	173.0	1085	G	95.5%	95.7%	95.4%	94.5%	73%	82%	85%	665.0	125%	200%	28	43	delta
150	900	885	449T	61	180.0	1085	G	94.3%	94.5%	94.1%	93.0%	72%	80%	83%	890.0	130%	200%	20	25	wye
200	3600	3575	447TS	44	216.0	1450	G	95.3%	95.6%	95.4%	94.5%	88%	90%	91%	294.0	120%	200%	16	20	delta
200	1800	1785	447TS	70	226.0	1450	G	95.9%	96.1%	95.8%	95.0%	80%	85%	87%	588.0	150%	200%	18	25	delta
200	1200	1185	449TS	73	228.0	1450	G	95.6%	95.6%	95.4%	94.5%	75%	84%	86%	886.0	125%	200%	25	32	delta
200	900	885	S449	78	240.0	1450	G	95.0%	95.0%	94.5%	93.6%	71%	79%	83%	1187.0	125%	200%	15	25	wye
250	3600	3570	449TS	45	267.0	1825	G	95.3%	95.6%	95.4%	94.5%	90%	92%	92%	368.0	120%	200%	12	18	delta
250	1800	1785	449TS	77	280.0	1825	G	95.8%	96.0%	95.8%	95.0%	80%	85%	87%	735.0	140%	200%	18	25	delta
250	1200	1185	449TS	75	280.0	1825	G	95.5%	95.5%	95.0%	94.1%	82%	87%	88%	1108.0	120%	200%	20	25	delta
250	900	885	S449	109	303.0	1825	G	94.5%	94.8%	94.5%	93.6%	70%	78%	82%	1483.0	105%	200%	25	32	delta
300	3600	3575	449TS	68	323.0	2200	G	95.2%	95.8%	95.8%	95.0%	86%	90%	91%	441.0	100%	200%	12	13	delta
300	1800	1785	S449	98	335.0	2200	G	95.2%	95.9%	95.8%	95.0%	79%	86%	88%	882.0	120%	200%	22	30	delta
300	1200	1185	S449	90	336.0	2200	G	95.5%	95.5%	95.0%	94.1%	82%	87%	88%	1329.0	105%	200%	26	33	delta
350	3600	3570	S449SS	67	369.0	2550	G	95.4%	95.7%	95.4%	94.5%	90%	92%	93%	515.0	80%	200%	20	26	delta
350	1800	1785	S449	115	390.0	2550	G	95.5%	95.9%	95.8%	95.0%	79%	86%	88%	1029.0	100%	200%	25	32	delta
350	1200	1185	S449	133	395.0	2550	G	95.2%	95.3%	95.0%	94.1%	77%	84%	87%	1551.0	100%	200%	17	20	delta
400	3600	3570	S449SS	80	418.0	2900	G	94.2%	95.6%	95.4%	94.5%	90%	93%	94%	588.0	80%	200%	17	24	delta
400	1800	1785	S449	138	449.0	2900	G	95.7%	96.0%	95.8%	95.0%	79%	85%	87%	1176.0	100%	200%	21	26	delta

*Current at 575 volts = current at 460V x 0.80 All other data (kVA Code, Efficiencies, Power Factors, Torques and Stall Times) remain same as 460V data.

NEMA Premium™ Efficiency
Totally Enclosed Fan Cooled (TEFC)
Types RGZEESD & RGZEESDX

460 Volts only
NEMA Design B
40° C Ambient

HP	Synch RPM	F.L. RPM	Frame	Current [A] No Load	Current [A] Full Load	Current [A] Locked Rotor	kVA/ HP Code	Nominal Efficiency 1/2	Nominal Efficiency 3/4	Nominal Efficiency Full Load	Nominal Efficiency Min Guar	Power Factor 1/2	Power Factor 3/4	Power Factor Full Load	Torque Full Load [Lb-Ft]	Torque Locked Rotor	Torque Break-Down	LR Stall Time Hot (Sec.)	LR Stall Time Cold (Sec.)	Winding Connec-tion
1	3600	3495	143T	0.6	1.3	11	K	78.7%	81.9%	82.5%	80.0%	71%	82%	88%	1.5	230%	360%	18	38	wye
1	1800	1760	143T	1.0	1.5	12	L	82.0%	84.8%	85.5%	82.5%	52%	65%	73%	3.0	275%	400%	16	34	wye
1	1200	1160	145T	1.0	1.6	11	K	79.4%	82.2%	82.5%	80.0%	48%	61%	69%	4.5	220%	310%	22	38	wye
1.5	3600	3495	143T	0.9	1.9	17	L	83.0%	85.3%	85.5%	82.5%	73%	83%	88%	2.3	270%	400%	16	36	wye
1.5	1800	1755	145T	1.4	2.2	19	L	83.8%	86.2%	86.5%	84.0%	53%	66%	74%	4.5	260%	400%	16	35	wye
1.5	1200	1175	182T	1.5	2.3	20	M	83.3%	86.3%	87.5%	85.5%	49%	62%	70%	6.7	290%	460%	20	38	wye
2	3600	3495	145T	1.1	2.4	23	L	84.4%	86.4%	86.5%	84.0%	74%	85%	90%	3.0	280%	400%	16	37	wye
2	1800	1755	145T	1.6	2.8	22	K	84.0%	86.4%	86.5%	84.0%	56%	69%	77%	6.0	260%	380%	16	33	wye
2	1200	1175	184T	1.6	2.9	24	L	86.0%	88.1%	88.5%	86.5%	55%	67%	74%	8.9	280%	440%	18	38	wye
3	3600	3505	182T	1.6	3.6	32	K	84.3%	86.5%	86.5%	84.0%	77%	88%	90%	4.5	280%	360%	15	34	wye
3	1800	1770	182T	2.0	4.0	32	K	86.9%	89.0%	89.5%	87.5%	59%	72%	79%	9.0	260%	320%	17	35	wye
3	1200	1180	213T	2.4	4.3	32	K	86.5%	89.0%	89.5%	87.5%	54%	66%	73%	13.0	250%	300%	18	36	wye
5	3600	3485	184T	1.8	5.7	46	J	88.0%	89.1%	88.5%	86.5%	83%	89%	92%	7.5	260%	320%	14	30	wye
5	1800	1765	184T	3.0	6.4	46	J	88.9%	89.9%	89.5%	87.5%	65%	76%	82%	15.0	260%	320%	18	35	wye
5	1200	1175	215T	3.8	6.9	46	J	87.8%	89.2%	89.5%	87.5%	56%	68%	75%	22.0	220%	320%	17	35	wye
7.5	3600	3535	213T	2.9	8.6	64	H	88.7%	90.4%	89.5%	87.5%	78%	87%	91%	11.0	220%	320%	12	20	wye
7.5	1800	1770	213T	4.3	9.5	64	H	90.2%	91.6%	91.7%	90.2%	66%	76%	81%	21.0	210%	290%	21	39	wye
7.5	1200	1180	254T	5.9	10.5	64	H	89.3%	90.9%	91.0%	89.5%	55%	67%	75%	33.0	160%	260%	19	42	wye
10	3600	3520	215T	3.3	11.4	81	H	89.7%	90.7%	90.2%	88.5%	81%	88%	91%	15.0	220%	290%	14	29	wye
10	1800	1770	215T	5.5	12.5	81	H	91.3%	92.1%	91.7%	90.2%	66%	77%	82%	30.0	210%	290%	20	38	wye
10	1200	1180	256T	7.0	13.8	81	H	89.9%	91.2%	91.0%	89.5%	56%	68%	75%	45.0	170%	260%	20	44	wye
15	3600	3530	254T	5.0	17.0	116	G	89.5%	91.1%	91.0%	89.5%	83%	89%	91%	22.0	190%	260%	17	31	wye
15	1800	1770	254T	8.0	19.0	116	G	92.0%	92.6%	92.4%	91.0%	67%	77%	81%	45.0	200%	260%	19	40	wye
15	1200	1180	284T	11.0	21.0	116	G	90.9%	91.8%	91.7%	90.2%	53%	66%	73%	67.0	150%	240%	22	48	delta
20	3600	3525	256T	7.4	23.0	145	G	90.3%	91.2%	91.0%	89.5%	81%	87%	90%	30.0	180%	260%	17	25	wye
20	1800	1770	256T	9.5	24.0	145	G	93.1%	93.3%	93.0%	91.7%	69%	79%	83%	59.0	200%	270%	20	42	wye
20	1200	1180	286T	13.0	27.0	145	G	91.2%	92.0%	91.7%	90.2%	57%	69%	76%	89.0	150%	240%	20	45	delta
25	3600	3525	284TS	8.0	29.0	183	G	92.0%	92.2%	91.7%	90.2%	80%	85%	88%	37.0	160%	250%	16	30	delta
25	1800	1775	284T	11.0	30.0	183	G	93.5%	94.0%	93.6%	92.4%	71%	80%	84%	74.0	180%	250%	24	44	delta
25	1200	1185	324T	14.0	33.0	183	G	92.7%	93.2%	93.0%	91.7%	62%	72%	76%	111.0	170%	240%	28	54	delta
30	3600	3525	286TS	9.5	34.0	218	G	92.0%	92.2%	91.7%	90.2%	84%	89%	90%	45.0	160%	250%	16	30	delta
30	1800	1775	286T	12.0	35.0	218	G	93.9%	94.1%	93.6%	92.4%	73%	82%	85%	89.0	180%	250%	24	44	delta
30	1200	1185	326T	15.0	39.0	218	G	93.1%	93.5%	93.0%	91.7%	64%	73%	77%	133.0	170%	220%	26	52	delta
40	3600	3535	324TS	12.0	45.0	290	G	94.0%	94.1%	93.6%	92.4%	80%	87%	89%	60.0	150%	250%	22	45	delta
40	1800	1780	324T	15.0	46.0	290	G	94.0%	94.3%	94.1%	93.0%	75%	83%	86%	118.0	180%	230%	22	45	delta
40	1200	1185	364T	18.0	49.0	290	G	94.0%	94.4%	94.1%	93.0%	70%	79%	81%	177.0	190%	220%	29	55	delta
50	3600	3535	326TS	15.0	55.0	363	G	94.1%	94.2%	93.6%	92.4%	82%	89%	91%	74.0	150%	250%	18	37	delta
50	1800	1780	326T	19.0	58.0	363	G	94.8%	95.0%	94.5%	93.6%	74%	82%	85%	148.0	170%	230%	22	45	delta
50	1200	1185	365T	24.0	62.0	363	G	94.0%	94.3%	94.1%	93.0%	67%	76%	80%	222.0	190%	220%	29	55	delta
60	3600	3565	364TS	19.0	68.0	435	G	93.8%	94.1%	93.6%	92.4%	80%	86%	88%	89.0	160%	250%	16	28	delta
60	1800	1780	364T	21.0	68.0	435	G	95.2%	95.4%	95.0%	94.1%	77%	85%	87%	177.0	180%	240%	26	38	delta
60	1200	1185	404T	28.0	74.0	435	G	94.2%	94.7%	94.5%	93.6%	65%	76%	80%	266.0	180%	220%	25	50	delta
75	3600	3565	365TS	22.0	85.0	543	G	93.7%	94.3%	94.1%	93.0%	81%	86%	88%	111.0	160%	260%	16	27	delta
75	1800	1780	365T	25.0	85.0	543	G	95.6%	95.8%	95.4%	94.5%	78%	85%	87%	221.0	180%	240%	25	35	delta
75	1200	1185	405T	34.0	93.0	543	G	94.7%	94.9%	94.5%	93.6%	68%	77%	80%	332.0	180%	220%	33	45	delta
100	3600	3570	405TS	19.0	108.0	725	G	94.6%	94.7%	94.1%	93.0%	90%	92%	92%	147.0	120%	200%	25	45	delta
100	1800	1780	405T	30.0	113.0	725	G	95.8%	96.0%	95.4%	94.5%	80%	86%	87%	295.0	180%	200%	25	35	delta
100	1200	1185	444T	39.0	117.0	725	G	95.1%	95.3%	95.0%	94.1%	73%	81%	84%	443.0	160%	200%	30	35	delta
125	3600	3575	444TS	32.0	138.0	908	G	94.5%	95.1%	95.0%	94.1%	84%	88%	89%	184.0	120%	200%	18	23	delta
125	1800	1785	444T	45.0	143.0	908	G	95.4%	95.6%	95.4%	94.5%	78%	84%	86%	368.0	160%	200%	20	25	delta
125	1200	1185	445T	48.0	144.0	908	G	95.1%	95.4%	95.0%	94.1%	74%	82%	85%	554.0	160%	200%	25	35	delta
150	3600	3575	445TS	37.0	164.0	1085	G	94.8%	95.2%	95.0%	94.1%	84%	89%	90%	220.0	120%	200%	15	18	delta
150	1800	1785	445T	52.0	170.0	1085	G	95.7%	96.0%	95.8%	95.0%	78%	84%	86%	441.0	150%	200%	20	30	delta
150	1200	1190	447T	59.0	172.0	1085	G	95.6%	96.0%	95.8%	95.0%	73%	82%	85%	662.0	140%	200%	28	43	delta

*Current at 575 volts = current at 460V x 0.80 All other data (kVA Code, Efficiencies, Power Factors, Torques and Stall Times) remain same as 460V data.

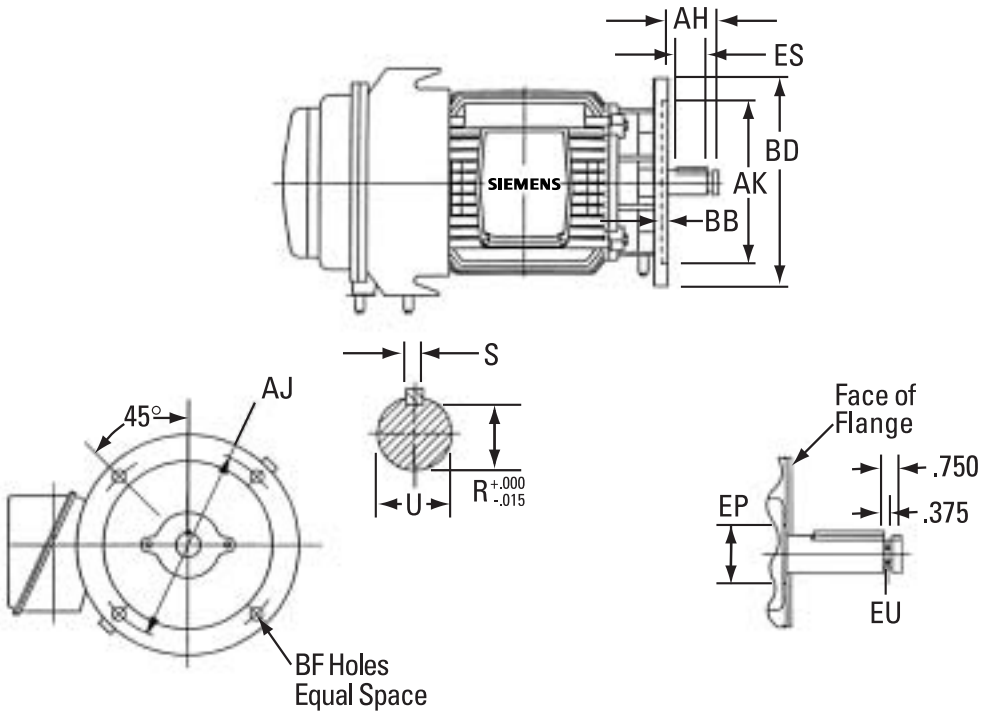
NEMA Premium™ Efficiency
Totally Enclosed Fan Cooled (TEFC)
Types RGZEESD & RGZEESDX

460 Volts only
NEMA Design B
40° C Ambient

				Current [A]			kVA/	Nominal Efficiency				Power Factor			Torque			LR Stall Time		Winding
HP	Synch RPM	F.L. RPM	Frame	No Load	Full Load	Locked Rotor	HP Code	1/2	3/4	Full Load	Min Guar	1/2	3/4	Full Load	Full Load [Lb-Ft]	Locked Rotor	Break-Down	Hot (Sec.)	Cold (Sec.)	Connec-tion
200	3600	3575	447TS	44	216	1450	G	95.3%	95.6%	95.4%	94.5%	88%	90%	91%	294	120%	200%	16	20	delta
200	1800	1785	447T	70	226	1450	G	96.2%	96.5%	96.2%	95.4%	76%	84%	86%	588	160%	200%	18	25	delta
200	1200	1190	449T	73	227	1450	G	95.6%	96.2%	95.8%	95.0%	75%	83%	86%	883	125%	200%	25	32	delta
250	3600	3570	449TS	45	269	1825	G	95.7%	96.0%	95.8%	95.0%	89%	91%	91%	368	120%	200%	12	18	delta
250	1800	1785	449TS	90	281	2100	H	96.1%	96.3%	96.2%	95.4%	80%	85%	87%	735	140%	200%	18	25	delta
250	1200	1190	449TS	86	281	2050	H	95.7%	96.0%	95.8%	95.0%	81%	86%	87%	1104	120%	200%	20	25	delta
300	3600	3575	449TS	68	323	2200	G	95.2%	95.8%	95.8%	95.0%	86%	90%	91%	441	100%	200%	12	13	delta
300	1800	1785	449TS	120	346	2200	G	96.1%	96.3%	96.2%	95.4%	75%	82%	84%	882	120%	200%	22	30	delta
300	1200	1185	S449	116	342	2400	H	96.0%	96.1%	95.8%	95.0%	82%	85%	86%	1329	105%	200%	26	33	delta
350	3600	3570	S449SS	68	372	2550	G	95.8%	96.1%	95.8%	95.0%	89%	91%	92%	515	80%	200%	20	26	delta
350	1800	1785	S449	130	392	2800	H	95.8%	96.3%	96.2%	95.4%	77%	84%	86%	1029	100%	200%	25	32	delta
350	1200	1189	5011	126	401	2436	F	95.9%	96.2%	95.9%	95.0%	75.3%	82.7%	85.3%	1546	100%	239%	34	39	delta
400	3600	3570	S449SS	80	422	2900	G	94.6%	96.1%	95.8%	95.0%	89%	92%	93%	588	80%	200%	17	24	delta
400	1800	1785	S449	140	454	2900	G	96.0%	96.4%	96.2%	95.4%	77%	84%	86%	1176	100%	200%	21	26	delta
400	1200	1187	5011	126	456	2435	E	96.0%	96.1%	95.8%	95.0%	78.2%	84.1%	85.7%	1769	81%	209%	34	39	wye
450	3600	3570	5011	56	470	2877	F	95.9%	96.1%	95.9%	95.0%	92.8%	93.7%	93.4%	662	77%	212%	35	40	delta
450	1800	1788	5011	119	494	3388	G	96.0%	96.3%	96.2%	95.4%	82.7%	87.4%	88.6%	1322	101%	217%	30	34	delta
450	1200	1186	5013	193	527	3293	G	95.8%	96.0%	95.8%	95.0%	70.5%	79.7%	83.5%	1993	106%	266%	20	23	wye
500	3600	3569	5011	59	522	3210	F	96.0%	96.1%	95.9%	95.0%	93.1%	93.9%	93.5%	736	79%	212%	32	37	delta
500	1800	1787	5011	124	548	3633	G	96.0%	96.3%	96.2%	95.4%	83.8%	87.9%	88.9%	1469	99%	209%	30	34	delta
500	1200	1190	5810	163	568	3237	F	96.1%	96.2%	95.9%	95.0%	77.7%	84.1%	86.0%	2207	83%	217%	32	38	delta

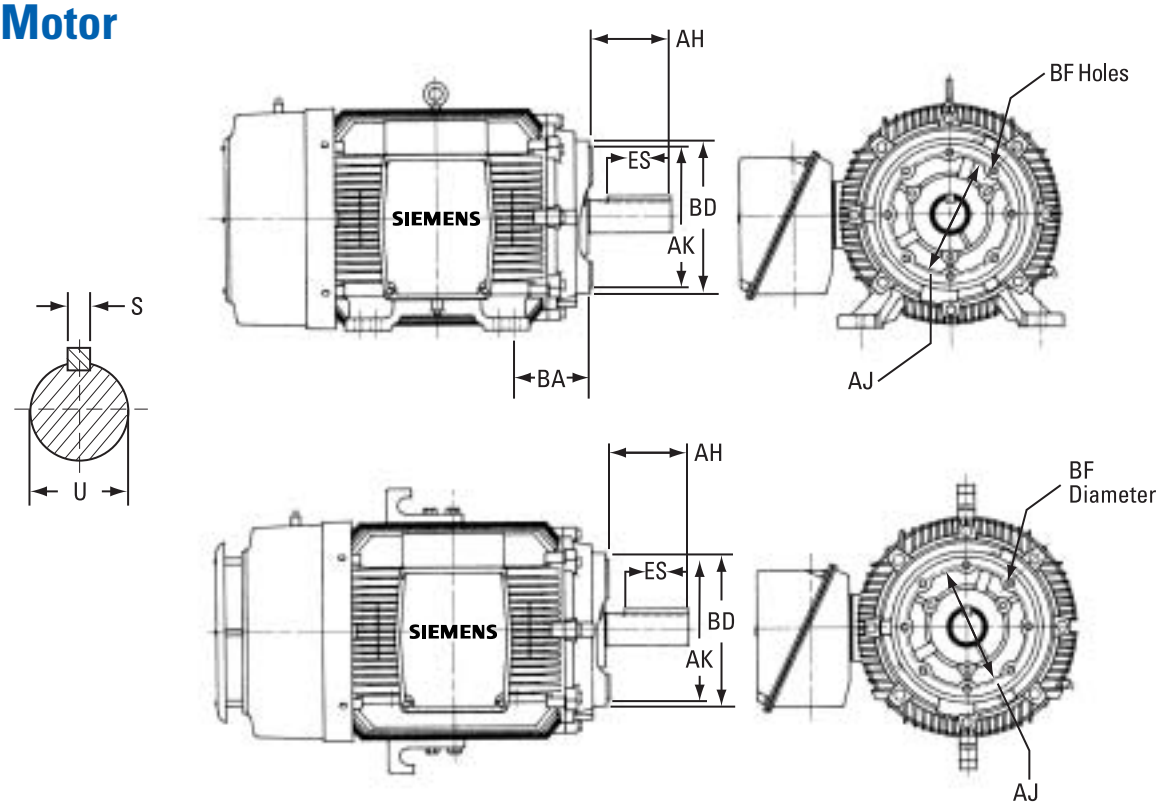
*Current at 575 volts = current at 460V x 0.80 All other data (kVA Code, Efficiencies, Power Factors, Torques and Stall Times) remain same as 460V data.

Vertical Solid Shaft P-Base



Frame		U	ES	EU	EP	AH	AJ	AK	BB	BD	BF	R	S
143LP	145LP	1.125	1.25	0.875	1.160	2.75	9.12	8.25	0.19	10.00	.438	0.986	.250
182LP	184LP	1.125	1.25	0.875	1.160	2.75	9.12	8.25	0.19	10.00	.438	0.986	.250
213LP	215 LP	1.625	1.25	1.250	1.770	2.75	9.12	8.25	0.19	10.00	.438	1.416	.375
254LP	256LP	1.625	1.25	1.250	1.770	2.75	9.12	8.25	0.19	10.00	.438	1.416	.375
284LPH	286LPH	2.125	3.00	1.750	2.360	4.50	14.75	13.50	0.25	16.50	.688	1.845	.500
324LP	326 LP	2.125	3.00	1.750	2.360	4.50	14.75	13.50	0.25	16.50	.688	1.845	.500
364LP	365LP	2.125	3.00	1.750	2.380	4.50	14.75	13.50	0.25	16.50	.688	1.845	.500
404LP	405LP	2.125	3.00	1.750	2.999	4.50	14.75	13.50	0.25	16.38	.688	1.845	.500
444LP	445LP	2.125	3.00	1.750	2.999	4.50	14.75	13.50	0.25	16.38	.688	1.845	.500
447LP	449LP	2.125	3.00	1.750	2.999	4.50	14.75	13.50	0.25	16.38	.688	1.845	.500
143HP	145HP	0.875	1.25	0.688	1.160	2.75	9.12	8.25	0.19	10.00	.438	0.771	.188
182HP	184HP	1.125	1.25	0.875	1.160	2.75	9.12	8.25	0.19	10.00	.438	0.986	.250
213HP	215HP	1.125	1.25	0.875	1.380	2.75	9.12	8.25	0.19	10.00	.438	0.986	.250
254HP	256HP	1.125	1.25	0.875	1.770	2.75	9.12	8.25	0.19	10.00	.438	0.986	.250
284HP	286HP	1.125	1.25	0.875	2.360	2.75	9.12	8.25	0.19	10.00	.438	0.986	.250
284HPH	286HPH	1.625	3.00	1.250	2.360	4.50	14.75	13.50	0.25	16.50	.688	1.416	.375
324HP	326HP	1.625	3.00	1.250	2.360	4.50	14.75	13.50	0.25	16.50	.688	1.416	.375
364HP	365HP	1.625	3.00	1.250	2.360	4.50	14.75	13.50	0.25	16.50	.688	1.416	.375
404HP	405HP	1.625	3.00	1.250	2.999	4.50	14.75	13.50	0.25	16.38	.688	1.416	.375
444HP	445HP	2.125	3.00	1.750	2.999	4.50	14.75	13.50	0.25	16.38	.688	1.845	.500
447HP	449HP	2.125	3.00	1.750	2.999	4.50	14.75	13.50	0.25	16.38	.688	1.845	.500

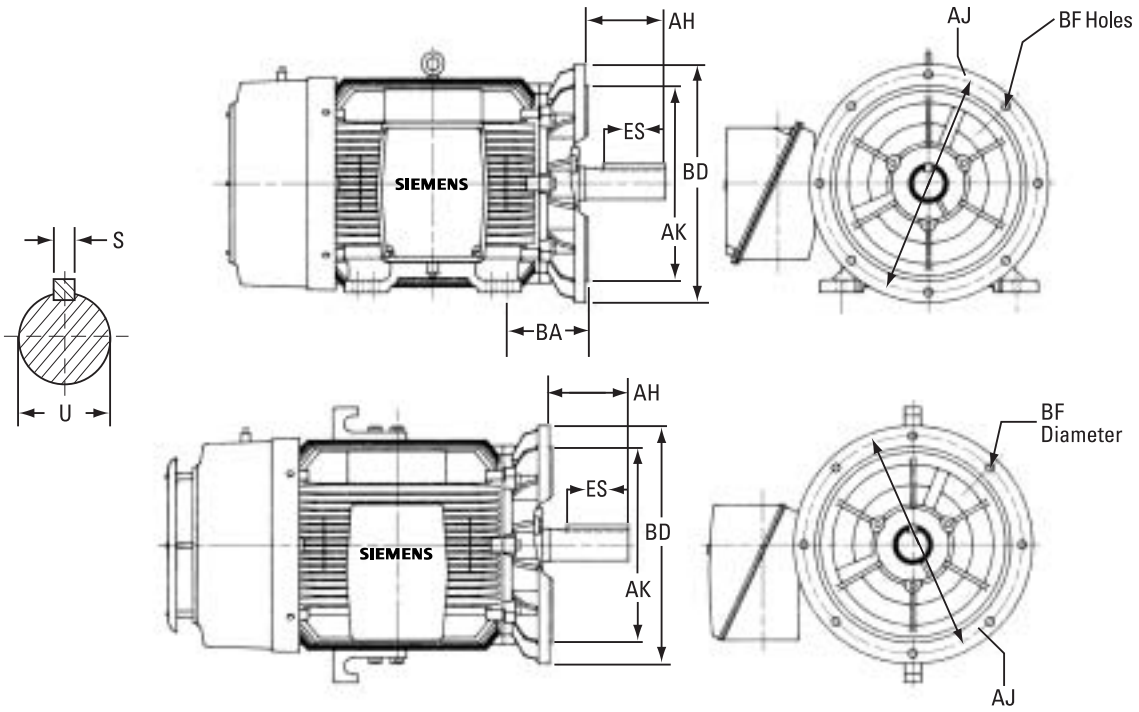
C-Flange Motor



Frame	BD	AJ	AK	U	AH	BA	ES	S	BF #	BF DIA
143/5TC	6.50	5.875	4.5	0.875	2.12	2.250**	1.41	.188	4	***
182/4TC	9.00*	7.250*	8.5*	1.125	2.62	2.750**	1.78	.250	4	***
213/5TC	9.00	7.250	8.5	1.375	3.12	3.500**	2.41	.312	4	***
254/6TC	10.00	7.250	8.5	1.625	3.75	4.250**	2.91	.375	4	***
284/6TC	10.75	9.000	10.5	1.875	4.38	4.750	3.25	.500	4	***
284/6TSC	10.75	9.00	10.5	1.625	3.00	4.750	1.88	.380	4	***
324/6TC	12.75	11.00	12.5	2.125	5.00	5.250	3.88	.500	4	***
324/6TSC	12.75	11.00	12.5	1.875	3.50	5.250	2.00	.500	4	***
364/5TC	12.75	11.00	12.5	2.375	5.62	5.880	4.25	.625	8	***
364/5TSC	12.75	11.00	12.5	1.875	3.50	5.880	2.00	.500	8	***
404/5TC	13.50	11.00	12.5	2.875	7.00	6.625	5.62	.750	8	***
404/5TSC	13.50	11.00	12.5	2.125	4.00	6.625	2.75	.500	8	***
444/5TC	16.62	14.00	16.0	3.375	8.25	7.500	6.88	.875	8	***
444/5TSC	16.62	14.00	16.0	2.375	4.50	7.500	3.00	.625	8	***
447TC	16.62	14.00	16.0	3.375	8.25	7.500	6.88	.875	8	***
447TSC	16.62	14.00	16.0	2.375	4.50	7.500	3.00	.625	8	***
449TC	16.62	14.00	16.0	3.375	8.25	7.500	6.88	.875	8	***
449TSC	16.62	14.00	16.0	2.375	4.50	7.500	3.00	.625	8	***

* Optional 4.5 inch "AK" (See 143/5TC) is available for 182/4 TC. Contact factory if required.
** "BA" Dimension of 143TC to 256TC and 143TD to 445TSD differ from NEMA dimensions. See "Endshields" section for details.
*** Tap for 449TC to 324TC = .625 - 11. For 286TC to 182TC = .500 - 13. 140TC = .375 - 16 NC.
**** "T" dimension (when used) - max 3 inches.

D-Flange Motor



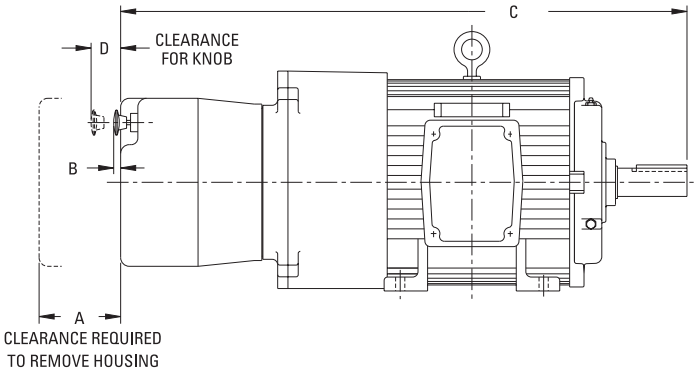
Frame	BD	AJ	AK	U	AH	BA	ES	S	BF #	BF DIA
143/5TD	11.00	10.0	9	.875	2.25	2.25**	1.41	.188	4	.530
182/4TD	11.00	10.0	9	1.125	2.75	2.75**	1.78	.250	4	.530
213/5TD	11.00	10.0	9	1.375	3.38	3.50**	2.41	.310	4	.530
254/6TD	14.00	12.5	11	1.625	4.00	4.25**	2.91	.375	4	.812
284/6TD	13.88	12.5	11	1.875	4.62	5.88**	3.25	.500	4	.812
284/6TSD	13.88	12.5	11	1.625	3.25	5.88**	1.88	.375	4	.812
324/6TD	17.88	16.0	14	2.125	5.25	6.25**	3.88	.500	4	.812
324/6TSD	17.88	16.0	14	1.875	3.75	6.25**	2.00	.500	4	.812
364/5TD	17.88	16.0	14	2.375	5.88	6.75**	4.25	.620	4	.812
364/5TSD	17.88	16.0	14	1.875	3.75	6.75**	2.00	.500	4	.812
404/5TD	21.88	20.0	18	2.875	7.25	7.12**	5.62	.750	8	.812
404/5TSD	21.88	20.0	18	2.125	4.25	7.12**	2.75	.500	8	.812
444/5TD	21.88	20.0	18	3.375	8.50	8.38**	6.88	.875	8	.812
444/5TSD	21.88	20.0	18	2.375	4.75	8.38**	3.00	.625	8	.812
447TD	21.88	20.0	18	3.375	8.50	8.38	6.88	.875	8	.812
447TSD	21.88	20.0	18	2.375	4.75	8.38	3.00	.625	8	.812
449TD	21.88	20.0	18	3.375	8.50	8.38	6.88	.875	8	.812
449TSD	21.88	20.0	18	2.375	4.75	8.38	3.00	.625	8	.812

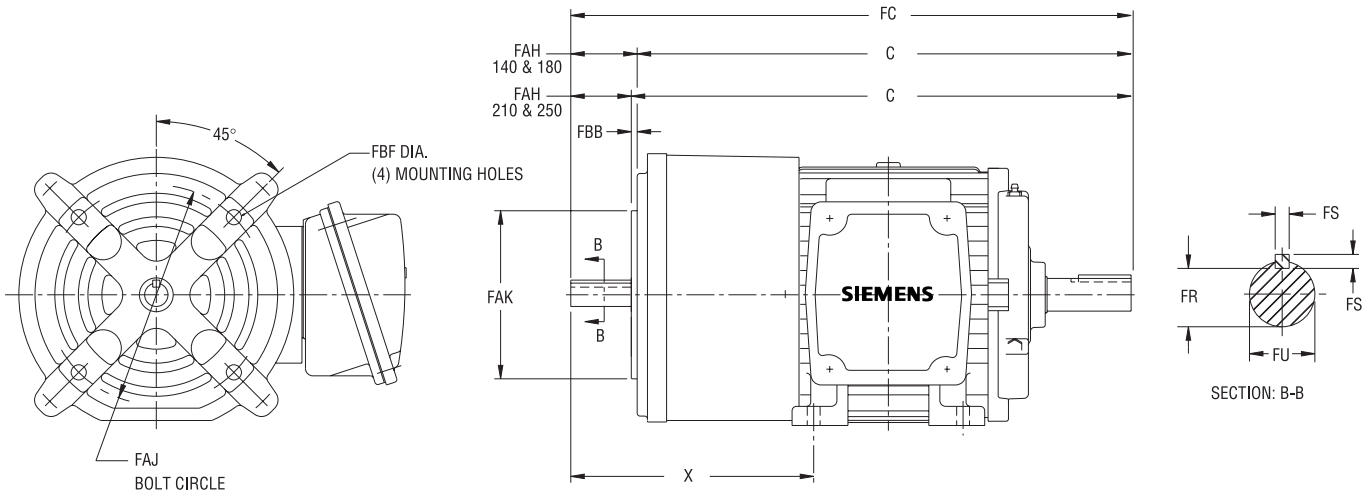
* Optional 4.5 inch "AK" (See 143/5TC) is available for 182/4 TC. Contact factory if required.
** "BA" Dimension of 143TC to 256TC and 143TD to 445TSD differ from NEMA dimensions.
*** "T" dimension (when used) - max 3 inches.

ALL DIMENSIONS IN INCHES.

Brake Motors

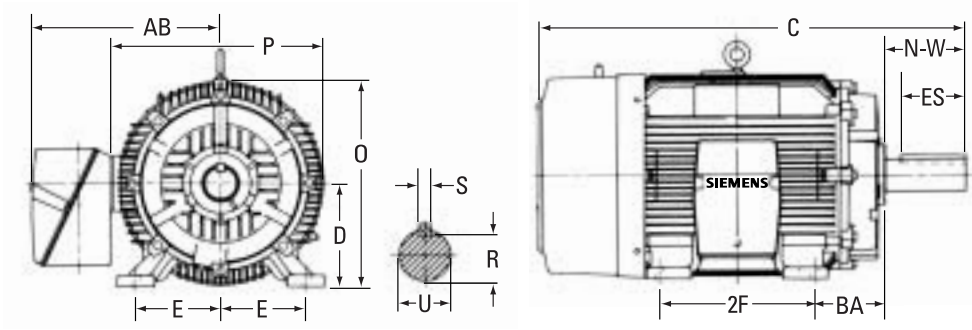
Frame	A	B	C	D	Brake Size Lb.-Ft.
143T	2.94	—	17.28	—	6
145T	2.94	—	18.74	—	10
182T	2.94	—	20.28	—	15
184T	2.94	—	21.28	—	20
213T	4.69	.4	26.56	1.3	35
215T	4.69	.4	28.56	1.3	50
254T	4.69	.4	32.58	1.3	75
256T	4.69	.4	34.82	1.3	105
284T	4.69	.4	37.50	1.3	50
284T	4.69	.4	37.50	1.3	75
286T	4.69	.4	39.00	1.3	75
286T	4.69	.4	39.50	1.3	105
324T	4.69	.4	42.50	1.3	105
324T	6.00	—	45.00	1.4	175
326T	4.69	.4	42.5	1.3	105
326T	6.00	—	45.20	1.4	230
364T	6.00	—	48.50	1.4	330
365T	6.00	—	48.50	1.4	330





Frame	C	FC	X	FAH	FAJ	FAK	FBB	FR	FS	FU	BRAKE SIZE Lb-Ft
143T	13.22	15.03	6.53	1.81	5.88	4.50	.16	.517	.188	.625	6
145T	14.22	16.03	6.53	1.81	5.88	4.50	.16	.517	.188	.625	10
182T	15.77	18.03	8.03	2.26	5.88	4.50	.16	.771	.188	.875	15
184T	16.77	19.03	8.03	2.26	5.88	4.50	.16	.771	.188	.875	20
213T	19.11	21.87	9.50	2.76	7.25	8.50	—	.986	.250	1.125	35
215T	20.61	23.37	9.50	2.76	7.25	8.50	—	.986	.250	1.125	50
254T	24.65	28.05	11.55	3.40	7.25	8.50	—	1.201	.312	1.375	75
256T	26.40	29.80	11.55	3.40	7.25	8.50	—	1.201	.312	1.375	105
284T	29.42	31.75	12.88	2.33	7.25	8.50	—	1.201	.312	1.375	105
286T	30.92	33.25	12.88	2.33	7.25	8.50	—	1.201	.312	1.375	105

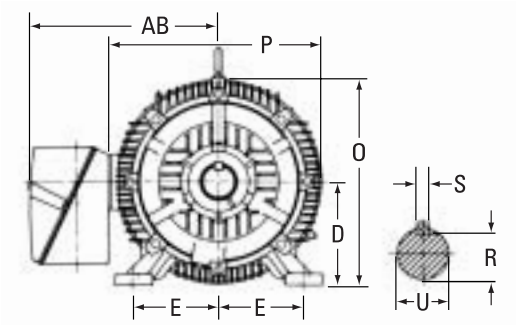
NEMA Totally Enclosed Fan Cooled (Except NEMA Premium™)

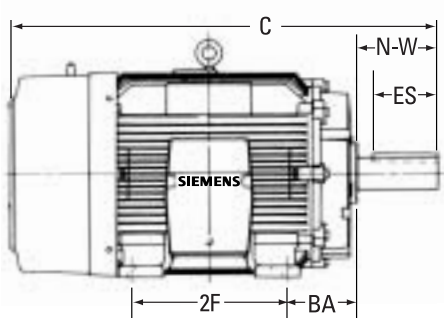


NEMA Frame	S	R	ES	C	D	E	2F	BA	N-W	O	P	AB	U	Approx. Shipping Weight in lbs. RGZ	Approx. Shipping Weight in lbs. RGZZ
143T	.188	.77	1.38	12.2	3.50	2.75	4	2.25	2.25	6.93	7.7	6.46	.875 +.0000 −.0005	45	65
145T	.188	.77	1.38	13.3	3.50	2.75	5	2.25	2.25	6.93	7.7	6.46		55	75
182T	.250	.99	1.75	14.2	4.50	3.75	4.50	2.75	2.75	8.86	9.7	7.36	1.125 +.0000 −.0005	85	125
184T	.250	.99	1.75	15.2	4.50	3.75	5.50	2.75	2.75	8.86	9.7	7.36		100	130
213T	.313	1.20	2.38	18.0	5.25	4.25	5.50	3.50	3.38	10.62	11.2	9.02	1.375 +.0000 −.0005	130	170
215T	.313	1.20	2.38	19.1	5.25	4.25	7	3.50	3.38	10.62	11.2	9.02		162	190
254T	.375	1.42	2.88	22.3	6.25	5	8.25	4.25	4	12.62	13.4	9.92	1.625 +.000 −.001	250	290
256T	.375	1.42	2.88	24.1	6.25	5	10	4.25	4	12.62	13.4	9.92		295	360
284T	.500	1.59	3.25	27.4	7	5.50	9.50	4.75	4.63	14.19	15.5	13.4	1.875 +.000 −.001	380	450
286T	.500	1.59	3.25	28.9	7	5.50	11	4.75	4.63	14.19	15.5	13.4		450	525
284TS	.375	1.42	1.88	26.0	7	5.50	9.50	4.75	3.25	14.19	15.5	13.4	1.625 +.000 −.001	380	450
286TS	.375	1.42	1.88	27.5	7	5.50	11	4.75	3.25	14.19	15.5	13.4		450	525
324T	.500	1.85	3.88	32.0	8	6.25	10.50	5.25	5.25	15.94	17.1	15.75	2.125 +.000 −.001	565	660
326T	.500	1.85	3.88	32.0	8	6.25	12	5.25	5.25	15.94	17.1	15.75		640	690
324TS	.500	1.59	2	30.0	8	6.25	10.50	5.25	3.75	15.94	17.1	15.75	1.875 +.000 −.001	565	660
326TS	.500	1.59	2	30.0	8	6.25	12	5.25	3.75	15.94	17.1	15.75		640	690
364T	.625	2.02	4.25	34.2	9	7	11.25	5.88	5.88	17.81	18.5	17.69	2.375 +.000 −.001	830	900
365T	.625	2.02	4.25	34.2	9	7	12.25	5.88	5.88	17.81	18.5	17.69		850	915
364TS	.500	1.59	2	32.1	9	7	11.25	5.88	3.75	17.81	18.5	17.69	1.875 +.000 −.001	830	900
365TS	.500	1.59	2	32.1	9	7	12.25	5.88	3.75	17.81	18.5	17.69		850	915
404T	.750	2.45	5.63	39.5	10	8	12.25	6.625	7.25	19.90	19.6	17.50	2.875 +.000 −.001	1100	1290
405T	.750	2.45	5.63	39.5	10	8	13.75	6.625	7.25	19.90	19.6	17.50		1250	1420
404TS	.500	1.85	2.75	36.5	10	8	12.25	6.625	4.25	19.90	19.6	17.50	2.125 +.000 −.001	1100	1290
405TS	.500	1.85	2.75	36.5	10	8	13.75	6.625	4.25	19.90	19.6	17.50		1250	1420
444T	.875	2.88	6.88	45.6	11	9	14.50	7.50	8.50	21.9	21.7	19.94	3.375 +.000 −.001	1620	1740
445T	.875	2.88	6.88	45.6	11	9	16.50	7.50	8.50	21.9	21.7	19.94		1740	1930
444TS	.625	2.02	3	41.8	11	9	14.50	7.50	4.75	21.9	21.7	19.94	2.375 +.000 −.001	1620	1740
445TS	.625	2.02	3	41.8	11	9	16.50	7.50	4.75	21.9	21.7	19.94		1740	1930
447T	.875	2.88	6.88	49.1	11	9	20	7.50	8.50	21.9	21.8	19.94	3.375	2000	2415
447TS	.625	2.02	3	45.4	11	9	20	7.50	4.75	21.9	21.8	19.94	2.375	2000	2415
449T	.875	2.88	6.88	54.1	11	9	25	7.50	8.50	21.9	21.8	22.00	3.375	2300	2625
449TS	.625	2.02	3	50.3	11	9	25	7.50	4.75	21.9	21.8	22.00	2.375	2300	2625
S449LS	.875	3.13	7.5	67.1	11	9	25	7.50	9.12	23.4	25.4	23.01	3.625	3050	
S449SS	.625	2.28	3.5	67.1	11	9	25	7.50	5.25	23.4	25.4	23.01	2.625	3050	—

Prices and data subject to change without notice.

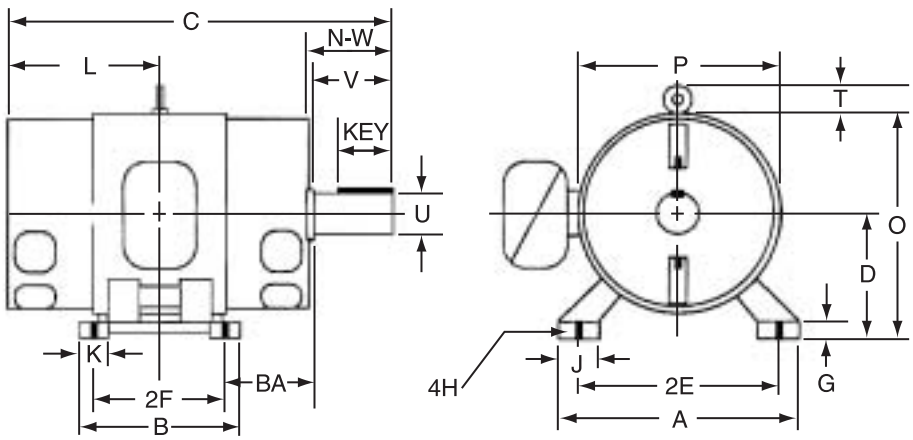
NEMA Premium™ Totally Enclosed Fan Cooled





NEMA Frame	S	R	ES	C	D	E	2F	BA	N-W	O	P	AB	U	Approx. Shipping Weight in lbs.
143T	0.188	0.77	1.41	14.0	3.50	2.75	4.00	2.25	2.25	7.56	8.1	7.05	0.875	45
145T	0.188	0.77	1.41	14.0	3.50	2.75	5.00	2.25	2.25	7.56	8.1	7.13	0.875	55
182T	0.250	0.99	1.78	14.8	4.50	3.75	4.50	2.75	2.75	9.00	9.0	8.00	1.125	85
184T	0.250	0.99	1.78	16.2	4.50	3.75	5.50	2.75	2.75	9.74	10.8	8.58	1.125	100
213T	0.312	1.20	2.41	20.3	5.25	4.25	5.50	3.50	3.38	11.35	12.2	10.63	1.375	130
215T	0.312	1.20	2.41	20.3	5.25	4.25	7.00	3.50	3.38	11.35	12.2	10.63	1.375	162
254T	0.375	1.42	2.91	25.8	6.25	5.00	8.25	4.25	4.00	13.34	14.4	11.62	1.625	250
256T	0.375	1.42	2.91	25.8	6.25	5.00	10.00	4.25	4.00	13.34	14.4	11.62	1.625	295
284T	0.500	1.59	3.25	29.4	7	5.50	9.50	4.75	4.63	14.88	15.9	14.33	1.875	380
286T	0.500	1.59	3.25	29.4	7	5.50	11.00	4.75	4.63	14.88	15.9	14.33	1.875	450
284TS	0.375	1.42	1.88	26.0	7	5.50	9.50	4.75	3.25	14.27	14.4	13.39	1.625	380
286TS	0.375	1.42	1.88	27.5	7	5.50	11.00	4.75	3.25	14.27	14.4	13.39	1.625	450
324T	0.500	1.85	3.88	32.1	8	6.25	10.50	5.25	5.25	16.67	17.7	15.99	2.125	565
326T	0.500	1.85	3.88	32.1	8	6.25	12.00	5.25	5.25	16.67	17.7	15.99	2.125	640
324TS	0.500	1.59	2.00	30.0	8	6.25	10.50	5.25	3.75	15.94	15.8	15.50	1.875	565
326TS	0.500	1.59	2.00	30.0	8	6.25	12.00	5.25	3.75	15.94	15.8	15.50	1.875	640
364T	0.625	2.02	4.25	35.6	9	7	11.25	5.88	5.88	18.49	19.6	18.57	2.375	850
365T	0.625	2.02	4.25	35.6	9	7	12.25	5.88	5.88	18.49	19.6	18.57	2.375	850
364TS	0.500	1.59	2.00	32.0	9	7	11.25	5.88	3.75	17.81	17.7	17.94	1.875	830
365TS	0.500	1.59	2.00	32.0	9	7	12.25	5.88	3.75	17.81	17.7	17.94	1.875	850
404T	0.750	2.45	5.63	39.5	10	8	12.25	6.625	7.25	19.90	19.6	18.70	2.875	1100
405T	0.750	2.45	5.63	39.5	10	8	13.75	6.625	7.25	19.90	19.6	18.70	2.875	1250
404TS	0.500	1.85	2.75	36.5	10	8	12.25	6.625	4.25	19.90	19.6	18.70	2.125	1100
405TS	0.500	1.85	2.75	36.5	10	8	13.75	6.625	4.25	19.90	19.6	18.70	2.125	1250
444T	0.875	2.88	6.88	45.6	11	9	14.50	7.50	8.50	21.90	21.7	19.94	3.375	1620
445T	0.875	2.88	6.88	45.6	11	9	16.50	7.50	8.50	21.90	21.7	19.94	3.375	1740
444TS	0.625	2.02	3.00	41.8	11	9	14.50	7.50	4.75	21.90	21.7	19.94	2.375	1620
445TS	0.625	2.02	3.00	41.8	11	9	16.50	7.50	4.75	21.90	21.7	19.94	2.375	1740
447T	0.875	2.88	6.88	49.1	11	9	20.00	7.50	8.50	21.90	21.8	19.94	3.375	2000
447TS	0.625	2.02	3.00	45.4	11	9	20.00	7.50	4.75	21.90	21.8	19.94	2.375	2000
449T	0.875	2.88	6.88	54.1	11	9	25.00	7.50	8.50	21.90	21.8	22.00	3.375	2300
449TS	0.625	2.02	3.00	50.3	11	9	25.00	7.50	4.75	21.90	21.8	22.00	2.375	2300
S449LS	0.625	3.13	7.50	63.6	11	9	25.00	7.50	9.12	23.30	24.6	23.00	3.625	3050
S449SS	0.625	2.28	3.50	63.2	11	9	25.00	7.50	5.25	23.30	24.6	23.00	2.625	3050

NEMA
Open Drip Proof
Foot Mount



Frame	DRIVE END				A	B	C	D	E	F	G	H	J	K	L	O	P	T	BA
	U	N-W	V	KEY SIZE															
143T	0.875	2.25	2.20	0.1875sq. x 1.410	6.50	5.98	12.56	3.50	2.75	2.000	0.12	0.340	0.98	0.98	3.42	6.69	6.26	—	2.250
145T	0.875	2.25	2.20	0.1875sq. x 1.410	6.50	5.98	12.56	3.50	2.75	2.500	0.12	0.340	0.98	0.98	3.42	6.69	6.26	—	2.250
182T	1.125	2.75	2.70	0.2500sq. x 1.780	8.80	5.55	12.75	4.50	3.75	2.250	0.55	0.410	1.34	—	5.00	9.09	9.37	1.88	2.750
184T	1.125	2.75	2.70	0.2500sq. x 1.780	8.80	6.57	13.75	4.50	3.75	2.750	0.55	0.410	1.34	—	5.50	9.09	9.37	1.88	2.750
213T	1.375	3.38	3.30	0.3125sq. x 2.410	10.24	6.77	15.75	5.25	4.25	2.750	0.67	0.410	1.61	—	6.12	10.69	10.98	1.88	3.500
215T	1.375	3.38	3.30	0.3125sq. x 2.410	10.24	8.35	17.25	5.25	4.25	3.500	0.67	0.410	1.61	—	6.87	10.69	10.98	1.88	3.500
254T	1.625	4.00	3.90	0.3750sq. x 2.910	12.24	10.00	20.45	6.25	5.00	4.125	0.79	0.530	2.36	—	8.07	12.85	13.11	2.32	4.250
256T	1.625	4.00	3.90	0.3750sq. x 2.910	12.24	11.73	22.18	6.25	5.00	5.000	0.79	0.530	2.36	—	8.93	12.85	13.11	2.32	4.250
284T	1.875	4.62	4.38	0.5000sq. x 3.250	13.62	11.50	23.32	7.00	5.50	4.750	0.88	0.530	2.68	2.76	9.20	14.45	14.72	2.32	4.750
284TS	1.625	3.25	3.00	0.3750sq. x 1.875	13.62	11.50	21.95	7.00	5.50	4.750	0.88	0.530	2.68	2.76	9.20	14.45	14.72	2.32	4.750
286T	1.875	4.62	4.38	0.5000sq. x 3.250	13.62	13.00	24.82	7.00	5.50	5.500	0.88	0.530	2.68	2.76	9.95	14.45	14.72	2.32	4.750
286TS	1.625	3.25	3.00	0.3750sq. x 1.875	13.62	13.00	23.45	7.00	5.50	5.500	0.88	0.530	2.68	2.76	9.95	14.45	14.72	2.32	4.750
324T	2.125	5.25	5.00	0.5000sq. x 3.875	15.56	13.00	26.09	8.00	6.25	5.250	1.00	0.656	2.72	2.87	10.34	16.26	16.77	2.75	5.250
324TS	1.875	3.75	3.50	0.5000sq. x 2.000	15.56	13.00	24.59	8.00	6.25	5.250	1.00	0.656	2.72	2.87	10.34	16.26	16.77	2.75	5.250
326T	2.125	5.25	5.00	0.5000sq. x 3.875	15.56	14.50	27.59	8.00	6.25	6.000	1.00	0.656	2.72	2.87	11.09	16.26	16.77	2.75	5.250
326TS	1.875	3.75	3.50	0.5000sq. x 2.000	15.56	14.50	26.09	8.00	6.25	6.000	1.00	0.656	2.72	2.87	11.09	16.26	16.77	2.75	5.250
364T	2.375	5.88	5.62	0.6250sq. x 4.250	17.28	13.00	28.70	9.00	7.00	5.620	1.00	0.656	2.72	3.00	11.32	18.17	18.62	3.12	5.875
364TS	1.875	3.75	3.50	0.5000sq. x 2.000	17.28	13.00	26.57	9.00	7.00	5.620	1.00	0.656	2.72	3.00	11.32	18.17	18.62	3.12	5.875
365T	2.375	5.88	5.62	0.6250sq. x 4.250	17.28	14.00	29.70	9.00	7.00	6.120	1.00	0.656	2.72	3.00	11.82	18.17	18.62	3.12	5.875
365TS	1.875	3.75	3.50	0.5000sq. x 2.000	17.28	14.00	27.57	9.00	7.00	6.120	1.00	0.656	2.72	3.00	11.82	18.17	18.62	3.12	5.875
404T	2.875	7.25	7.00	0.7500sq. x 5.625	19.53	14.50	32.60	10.00	8.00	6.120	1.06	0.812	3.07	3.00	12.60	20.28	20.87	3.12	6.625
404TS	2.125	4.25	4.00	0.5000sq. x 2.750	19.53	14.50	29.60	10.00	8.00	6.120	1.06	0.812	3.07	3.00	12.60	20.28	20.87	3.12	6.625
405T	2.875	7.25	7.00	0.7500sq. x 5.625	19.53	16.00	34.10	10.00	8.00	6.880	1.06	0.812	3.07	3.00	13.35	20.28	20.87	3.12	6.625
405TS	2.125	4.25	4.00	0.5000sq. x 2.750	19.53	16.00	31.10	10.00	8.00	6.880	1.06	0.812	3.07	3.00	13.35	20.28	20.87	3.12	6.625
444T	3.375	8.50	8.25	0.8750sq. x 6.875	21.74	17.50	37.87	11.00	9.00	7.250	1.06	0.812	3.37	3.75	14.62	22.83	23.54	3.12	7.500
444TS	2.375	4.75	4.50	0.6250sq. x 3.000	21.74	17.50	34.12	11.00	9.00	7.250	1.06	0.812	3.37	3.75	14.62	22.83	23.54	3.12	7.500
445T	3.375	8.50	8.25	0.8750sq. x 6.875	21.74	19.50	39.87	11.00	9.00	8.250	1.06	0.812	3.37	3.75	15.62	22.83	23.54	3.12	7.500
445TS	2.375	4.75	4.50	0.6250sq. x 3.000	21.74	19.50	36.12	11.00	9.00	8.250	1.06	0.812	3.37	3.75	15.62	22.83	23.54	3.12	7.500
447T	3.375	8.50	8.25	.87500sq. x 6.875	21.74	23.00	41.40	11.00	9.00	10.000	1.06	0.812	3.37	3.75	17.22	22.83	23.54	3.12	7.500
447TS	2.375	4.75	4.50	0.6250sq. x 3.000	21.74	23.00	40.22	11.00	9.00	10.000	1.06	0.812	3.37	3.75	17.22	22.83	23.54	3.12	7.500
449T	3.375	8.50	8.25	0.8750sq. x 6.875	21.74	28.00	48.37	11.00	9.00	12.500	1.06	0.812	3.37	3.75	19.87	22.83	23.54	3.12	7.500
449TS	2.375	4.75	4.50	0.6250sq. x 3.000	21.74	28.00	44.62	11.00	9.00	12.500	1.06	0.812	3.37	3.75	19.87	22.83	23.54	3.12	7.500

[1]Tolerance on shaft diameter U: +0.0000 inch -0.0005 inch for frames 143 - 215, +0.000 inch -0.001 inch for frames 254 - 449.

DIMENSIONS IN INCHES

Low Voltage IEC Motors

Manufactured in Europe

Standards and Specifications

- Low Voltage motors are designed, built and tested in complete accordance with IEC / DIN / VDE standards. CE approved mark appears in the nameplate of Siemens low voltage IEC motors along with our Compliance Certification Number for those motors under the EPAct regulation.

  Note: All dimensions are in mm.

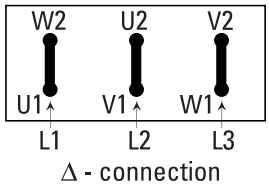
Title	DIN/EN	IEC
General requirements for rotating electrical machines	DIN EN 60 034-1	IEC 60 034-1, IEC 60 085
Three-phase induction motors for general use with standardized dimensions and outputs	pr EN 50 347	IEC 60 072 fixing dim. only
Starting performance of rotating electrical machines	DIN EN 60 034-12	IEC 60 034-12
Terminal designations and direction of rotation, rotating electrical machines	DIN VDE 0530 Part 8	IEC 60 034-8
Types of construction and installation	DIN EN 60 034-7	IEC 60 034-7
Entry into the terminal box	DIN 42 925	—
Built-in thermal protection	—	IEC 60 034-11
Noise emission limits for rotating electrical machines	DIN EN 60 034-9	IEC 60 034-9
IEC standard voltages	DIN IEC 60 038	IEC 60 038
Methods of cooling rotating electrical machines	DIN EN 60 034-6	IEC 60 034-6
Vibration severity of rotating electrical machines	DIN EN 60 034-14	IEC 60 034-14
Degrees of protection of rotating electrical machines	DIN EN 60 034-5	IEC 60 034-5

Availability

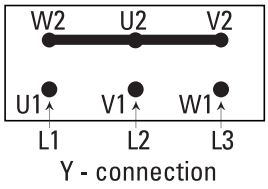
- In addition to the motor stock in our warehouse in Little Rock, Arkansas, Siemens offers a full line of Low Voltage IEC motors including larger ratings to 1000 kW, motors for hazardous zones as Ex nA (Zone 2) and flame proof motors Ex de for T1-T4 temperature classes, pole changing motors and a wide extended modification capabilities.

Voltage and Ratings

Motors described in the catalog are designated for:
3 HP and below: 3AC 60 Hz 460 V Y
5 HP and above: 3AC 60 Hz 460 V Δ
40°C Ambient Temperature and 1000m ASL



Δ - connection



Y - connection

Altitude and Coolant Temperature

The motors are design for class F and use in class B. If the actual operating conditions deviate from this class the maximum output should be adjusted according to the table below.

Sea Level (meters)	Temperature in °C 30-40	50	55
1000	1.00	0.96	0.92
1500	0.97	0.93	0.89
2000	0.94	0.90	0.86
2500	0.90	0.86	0.83
3000	0.86	0.82	0.79

1m = 3.28 ft

1°C = 5/9 (°F-32)

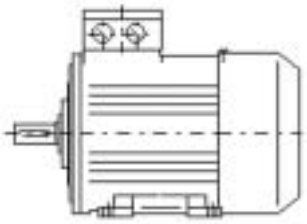
Motors are suitable to operate at 10:1 ratio for variable torque applications, attention must be paid to the below factors for constant torque application [1]. The insulation system utilized is such that motors can operate unrestrictedly in converted fed operation mode up to voltages of 500V.

CONSTANT TORQUE APPLICATION

Type	Range	Frame	2 Pole 2:1	5:1	10:1	100:1	4 Pole 2:1	5:1	10:1	100:1	6 Pole 2:1	5:1	10:1	100:1
1LA9	0.75 kW - 1.1 kW	80	1.00	0.80	0.65	0.50	1.00	0.75	0.60	0.50	1.00	0.70	0.55	0.50
1LA9	0.75 kW - 2.2 KW	90	1.00	0.80	0.65	0.50	1.00	0.75	0.60	0.50	1.00	0.70	0.55	0.50
1LA9	1.5 kW - 2.2 kW	100	1.00	0.80	0.70	0.50	1.00	0.80	0.65	0.50	1.00	0.75	0.60	0.50
1LA9	2.2 kW - 4 KW	112	1.00	0.80	0.70	0.50	1.00	0.80	0.65	0.50	1.00	0.75	0.60	0.50
1LA9	4 kW - 7.5 KW	132	1.00	0.80	0.70	0.50	1.00	0.80	0.65	0.50	1.00	0.75	0.60	0.50
1LA9	7.5 kW - 18.5 kW	160	1.00	0.80	0.70	0.50	1.00	0.80	0.65	0.50	1.00	0.75	0.60	0.50
1LG6	15 kW - 22 kW	180	1.00	0.85	0.80	0.72	1.00	0.85	0.80	0.70	1.00	0.85	0.80	0.70
1LG6	18.5 kW - 37 kW	200	1.00	0.85	0.80	0.72	1.00	0.85	0.80	0.70	1.00	0.85	0.80	0.70
1LG6	30 kW - 45 kW	225	1.00	0.85	0.80	0.72	1.00	0.85	0.80	0.70	1.00	0.85	0.80	0.70
1LG6	37 kW - 55 kW	250	1.00	0.85	0.80	0.72	1.00	0.85	0.80	0.70	1.00	0.85	0.80	0.70
1LG6	45 kW - 90 kW	280	1.00	0.85	0.80	0.72	1.00	0.85	0.80	0.70	1.00	0.85	0.80	0.70
1LG6	75 kW - 160 kW	315	0.98	0.85	0.80	0.71	1.00	0.85	0.80	0.70	1.00	0.85	0.80	0.70

[1] Some motors require special measures, please contact your Sales representative for more information

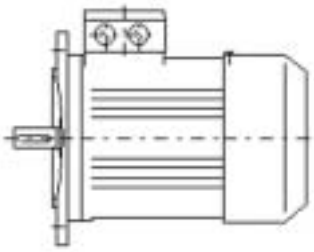
IECINV3
IP55 / TEFC
Aluminum Enclosure

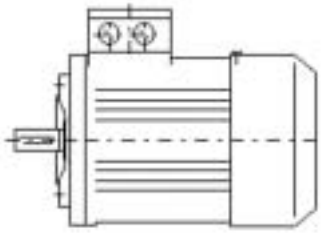


IMB3 Foot Mounted

HP 60Hz	kW 50Hz	RPM	Frame	Part No	Catalog No.	List $	Eff @ FL	P.F. FL	A FL	Torque Nm	LRT PU	LRC PU	BDT PU	Curve /CL	Kg
0.16	0.12	1800	63M	1LA70604AB10	GSQ2005	139	55.0	0.75	0.37	0.7	1.9	2.8	2	12/13	3.5
		3600	63M	1LA70602AA10	GSQ1998	155	63.0	0.82	0.44	0.5	2.0	3.7	2.2	1/16	3.5
0.25	0.18	1800	63M	1LA70634AB10	GSQ2026	165	60.0	0.77	0.49	1.1	1.9	3.0	1.9	12/13	4.1
		1200	71M	1LA70706AA10	—	241	56.0	0.75	0.54	1.7	2.0	2.1	2.3	6/16	6.3
		3600	63M	1LA70632AA10	*	182	65.0	0.82	0.59	0.7	2.0	4.0	2.2	1/16	4.1
0.33	0.25	1800	71M	1LA70704AB10	GSR2047	192	60.0	0.79	0.66	1.5	1.9	3.0	1.9	12/13	4.8
		1200	71M	1LA70736AA10	GSR2054	254	61.0	0.76	0.68	2.2	2.8	2.2	2.7	6/16	6.3
		3600	71M	1LA70702AA10	GSR2040	218	66.0	0.82	0.86	1.1	2.3	3.5	2.3	1/16	5
0.50	0.37	1800	71M	1LA70734AB10	—	235	65.0	0.80	0.89	2.1	1.9	3.3	2.1	12/13	6
		1200	80M	1LA70806AA10	GST2075	282	62.0	0.72	1.04	3.2	3.9	1.9	3.1	6/16	7.5
		3600	71M	1LA70732AA10	—	265	71.0	0.82	1.19	1.6	2.5	4.3	2.6	1/16	6.6
0.75	0.55	1800	80M	1LA70804AA10	GST2089	279	67.0	0.82	1.26	3.1	2.2	3.9	2.2	6/16	8
		1200	80M	1LA70836AA10	GST2096	313	67.0	0.74	1.39	4.8	5.8	2.1	3.4	6/16	9.4

Kg x 2.205 = Lbs.





IMB5 Flange Mounted
IMB14 Flange Mounted

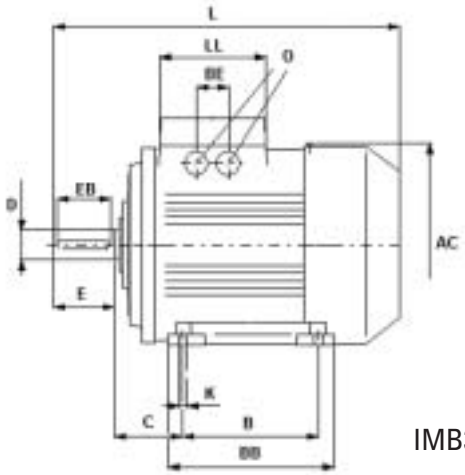
HP 60Hz	kW 50Hz	RPM	Frame	IMB5 Flange Mounted Part No	IMB5 Flange Mounted Catalog No.	IMB5 Flange Mounted List $	IMB14 Flange Mounted Part No	IMB14 Flange Mounted Catalog No.	IMB14 Flange Mounted List $
0.16	0.12	1800	63M	1LA70604AB11	GSQ2306	177	1LA70604AB12	GSQ2600	177
		3600	63M	1LA70602AA11	GSQ2292	193	1LA70602AA12	GSQ2586	193
0.25	0.18	1800	63M	1LA70634AB11	GSQ2299	203	1LA70634AB12	GSQ2593	203
		1200	71M	1LA70706AA11	—	283	1LA70706AA12	—	283
		3600	63M	1LA70632AA11	GSQ2313	220	1LA70632AA12	GSQ2607	220
0.33	0.25	1800	71M	1LA70704AB11	GSR2320	234	1LA70704AB12	GSR2614	234
		1200	71M	1LA70736AA11	GSR2327	296	1LA70736AA12	GSR2621	296
		3600	71M	1LA70702AA11	GSR2334	260	1LA70702AA12	GSR2628	260
0.50	0.37	1800	71M	1LA70734AB11	GSR2341	277	1LA70734AB12	GSR2635	277
		1200	80M	1LA70806AA11	GST2348	329	1LA70806AA12	—	329
		3600	71M	1LA70732AA11	GSR2355	307	1LA70732AA12	GSR2649	307
0.75	0.55	1800	80M	1LA70804AA11	GST2362	326	1LA70804AA12	GST2656	326
		1200	80M	1LA70836AA11	GST2369	360	1LA70836AA12	GST2663	360

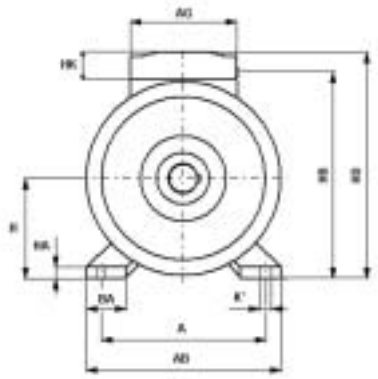
* Please inquire about availability options in stock.
— Indicates non stock/build item

Prices and data subject to change without notice.

Dimensions

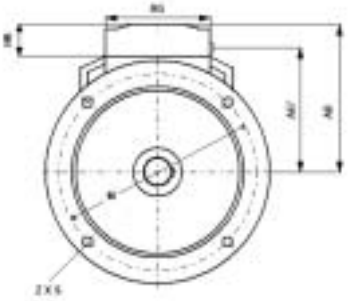
1LA7 Frame Size 71M to 80M





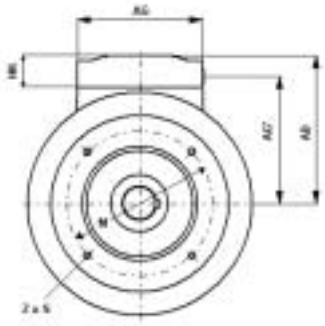
IMB3 Mounting

Frame Size	AC	B	BB	BE	C	D	E	EB	L	LL	O		A	AB	BA	H	HA	HB	HD	HK	K'	AG
63	118	80	106	32	40	11	23	16	202.5	75	M16	M25	100	120	28	63	7	133.5	164	39	10	75
71	145	90	118	32	45	14	30	22	240	75	M16	M25	112	132	27	71	7	140.5	182	39	10	75
80	162	100	143	32	50	19	40	32	274	75	M16	M25	125	150	32	80	8	158.5	200	39	14	75
90	181	100	176	32	56	24	50	40	332	75	M16	M25	140	165	33	90	10	176.5	218	39	14	75



IMB5 Mounting

Frame Size	AG	HK	AG'	M	AD	S	Z
63	75	39	77.5	115	101	10	4
71	75	39	87.5	130	111	10	4
80	75	39	96.5	165	120	12	4
90	75	39	104.5	165	128	12	4

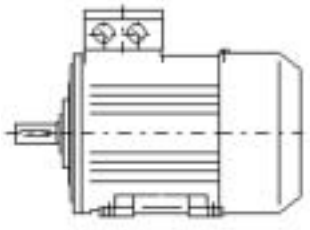


IMB14 Mounting

Frame Size	AG	HK	AG'	M	AD	S	Z
63	75	39	77.5	75	101	M5	4
71	75	39	87.5	85	111	M6	4
80	75	39	96.5	100	120	M6	4
90	75	39	104.5	115	128	M8	4

Prices and data subject to change without notice.

IECEPA3
IP55 / TEFC
Aluminum Enclosure



IMB3 Foot Mounted

HP 60Hz	kW 50Hz	RPM	Frame	Part No	Catalog No.	List $	Eff @ FL	P.F. FL	A FL	Torque Nm	LRT PU	LRC PU	BDT PU	Curve /CL	Kg
		3600	80M	1LA90802KA10	*	370	75.5	0.84	1.48	2.1	4.4	9.6	4.4	8/16	9.8
1.0	0.75	1800	80M	1LA90834KA10	*	370	82.5	0.72	1.59	4.2	4.0	7.3	3.9	7/16	12.3
		1200	90S	1LA90906KA10	IEPA0906	514	80.0	0.66	1.78	6.3	3.0	5.6	3	9/16	15.7
		3600	80M	1LA90832KA10	IEPA0832	412	82.5	0.88	1.90	3.0	3.8	8.6	3.8	8/16	12.3
1.5	1.1	1800	90S	1LA90904KA10	—	454	84.0	0.76	2.15	6.0	3.1	7.7	3.9	7/16	15
		1200	90L	1LA90966KA10	IEPA0966	552	85.5	0.64	2.55	9.2	3.7	6.4	3.7	10/16	17
		3600	90S	1LA90902KA10	IEPA0902	476	84.0	0.86	2.60	4.1	4.1	8.6	4.1	8/16	15
2.0	1.5	1800	90L	1LA90964KA10	*	529	84.0	0.76	2.95	8.2	3.6	8.1	4.2	8/16	16.6
		1200	100L	1LA91066KA10	IEPA1066	752	86.5	0.62	3.50	13.0	3.3	6.7	3.8	7/16	28
		3600	90L	1LA90962KA10	*	571	85.5	0.85	3.80	6.0	4.1	8.5	5.1	8/16	18.6
3.0	2.2	1800	100L	1LA91064KA10	IEPA1064	650	87.5	0.79	4.00	12.0	3.4	8.4	4.3	8/16	26
		1200	112M	1LA91136KA10	IEPA1136	960	87.5	0.66	4.80	18.0	2.9	7.5	3.7	7/16	38
		3600	112M	1LA91132KA60	IEPA1132	945	87.5	0.88	6.00	10.0	2.8	9.2	4	7/16	36
5.0	4.0	1800	112M	1LA91134KA60	IEPA1134	1,040	87.5	0.79	6.70	20.0	3.2	8.6	3.9	7/16	38
		1200	132M	1LA91336KA60	IEPA1336	1,418	87.5	0.77	6.90	31.0	3.0	7.9	3.6	7/16	48
		3600	132S	1LA91302KA60	IEPA1302	1,229	88.5	0.90	8.70	15.0	2.7	8.5	3.8	7/16	50
7.5	5.5	1800	132S	1LA91304KA60	IEPA1304	1,244	89.5	0.81	9.50	30.0	3.2	8.7	4.1	8/16	53
		1200	132M	1LA91346KA60	IEPA1346	1,750	89.5	0.73	10.60	45.0	3.7	8.4	4.3	8/16	65
		3600	132S	1LA91312KA60	IEPA1312	1,538	89.5	0.92	11.40	20.0	2.8	8.3	3.7	7/16	57
10	7.5	1800	132M	1LA91334KA60	IEPA1334	1,523	89.5	0.82	12.80	41.0	3.4	8.7	4.1	8/16	71
		1200	160M	1LA91636KA60	IEPA1636	2,245	89.5	0.70	15.00	62.0	2.4	6.4	2.8	6/16	102
		3600	160M	1LA91632KA60	*	1,890	90.2	0.90	17.00	30.0	2.5	8.5	3.7	7/16	82
15	11	1800	160M	1LA91634KA60	IEPA1634	1,867	91.0	0.85	17.90	60.0	2.6	8.1	3.2	7/16	90
		1200	160L	1LA91666KA60	IEPA1666	2,835	90.2	0.77	19.90	90.0	3.1	8.3	3.8	7/16	114
20	15	3600	160M	1LA91642KA60	IEPA1642	2,317	90.2	0.90	23.20	40.0	2.5	8.5	3.7	7/16	99
		1800	160L	1LA91664KA60	IEPA1664	2,317	91.0	0.85	24.50	81.0	2.8	8.5	3.5	7/16	114
25	18.5	3600	160L	1LA91662KA60	IEPA1662	2,835	91.0	0.92	27.70	50.0	2.4	8.5	3.5	7/16	120

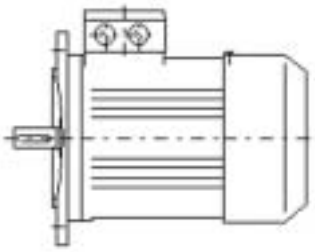
* Please inquire about availability options in stock.
— Indicates non stock/build item.
Out of the scope of EPAct regulations.

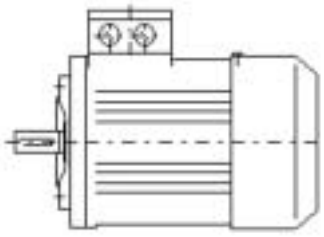
Kg x 2.205 = Lbs.

All motors listed on this page are EPAct Compliant.
DOE# 0032A

Prices and data subject to change without notice.

IECEPA3
IP55 / TEFC
Aluminum Enclosure





IMB5 Flange Mounted
IMB14 Flange Mounted

HP 60Hz	kW 50Hz	RPM	Frame	IMB5 Flange Mounted			IMB14 Flange Mounted		
				Part No	Catalog No.	List $	Part No	Catalog No.	List $
1.0	0.75	3600	80M	1LA90802KA11	*	417	1LA90802KA12	*	417
		1800	80M	1LA90834KA11	GST2383EP	417	1LA90834KA12	GST2677EP	417
		1200	90S	1LA90906KA11	GSV2390EP	571	1LA90906KA12	GSV2684EP	571
1.5	1.1	3600	80M	1LA90832KA11	GST2397EP	459	1LA90832KA12	*	459
		1800	90S	1LA90904KA11	GSV2404EP	511	1LA90904KA12	GSV2698EP	511
		1200	90L	1LA90966KA11	GSV2411EP	609	1LA90966KA12	GSV2705EP	609
2.0	1.5	3600	90S	1LA90902KA11	GSV2418EP	533	1LA90902KA12	GSV2712EP	533
		1800	90L	1LA90964KA11	GSV2425EP	586	1LA90964KA12	*	586
		1200	100L	1LA91066KA11	GSW2432EP	822	1LA91066KA12	—	822
3.0	2.2	3600	90L	1LA90962KA11	GSV2439EP	628	1LA90962KA12	GSV2733EP	628
		1800	100L	1LA91064KA11	GSW2446EP	720	1LA91064KA12	GSW2740EP	720
		1200	112M	1LA91136KA11	GSX2453EP	1,047	1LA91136KA12	—	1047
5.0	4.0	3600	112M	1LA91132KA11	GSX2481EP	1,032	1LA91132KA12	*	1032
		1800	112M	1LA91134KA11	GSX2488EP	1,127	1LA91134KA12	GSX2775EP	1127
		1200	132M	LA91336KA11	*	1,532	1LA91336KA12	—	1532
7.5	5.5	3600	132S	1LA91302KA11	GSY2502EP	1,343	1LA91302KA12	—	1343
		1800	132S	1LA91304KA11	GSY2509EP	1,358	1LA91304KA12	—	1358
		1200	132M	1LA91346KA11	GSY2516EP	1,864	1LA91346KA12	—	1864
10	7.5	3600	132S	1LA91312KA11	GSY2523EP	1,652	1LA91312KA12	—	1652
		1800	132M	1LA91334KA11	GSY2530EP	1,637	1LA91334KA12	—	1637
		1200	160M	1LA91636KA11	GSZ2537EP	2,392	1LA91636KA12	—	2392
15	11	3600	160M	1LA91632KA11	*	2,037	1LA91632KA12	—	2037
		1800	160M	1LA91634KA11	GSZ2551EP	2,014	1LA91634KA12	—	2014
		1200	160L	1LA91666KA11	*	2,982	1LA91666KA12	—	2982
20	15	3600	160M	1LA91642KA11	*	2,464	1LA91642KA12	—	2464
		1800	160L	1LA91664KA11	*	2,464	1LA91664KA12	—	2464
25	18.5	3600	160L	1LA91662KA11	*	2,982	1LA91662KA12	—	2982

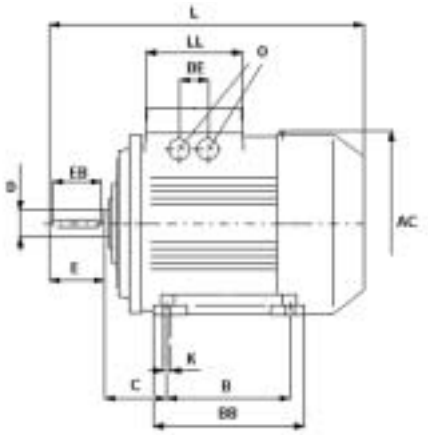
* Please inquire about availability options in stock.
— Indicates non stock / build item.

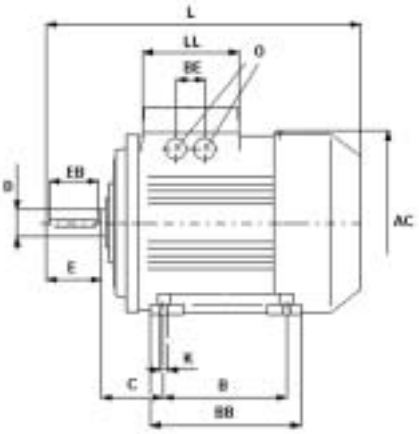
kg x 2.205 - Lbs.

Prices and data subject to change without notice.

Dimensions

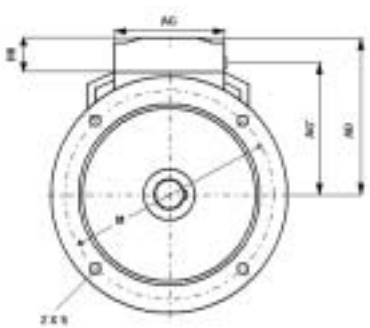
1LA9 Frame Size 80M to 160L





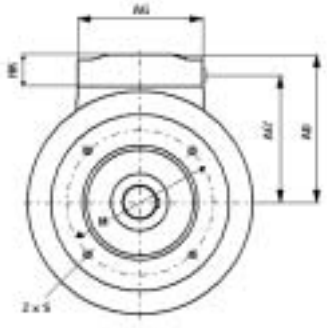
IMB3 Mounting

Frame Size	AC	BE	E	EB	D	C	LL	B	BB	L	O		A	AB	BA	H	HA	HB	HD	HK	K'	AG
80M	162	32	40	32	19	50	75	100	118	309	M16	M25	125	150	32	80	8	176.5	200	39	14	75
90S	181	32	50	40	24	56	75	140	143	332	M16	M25	140	165	33	90	10	194.5	218	39	14	75
90L	181	32	50	40	24	56	75	140	143	376	M16	M25	140	165	33	90	10	194.5	218	39	14	75
100L	202	42	60	50	28	63	120	140	176	442	M32	M32	160	196	47	100	12	178	235	35	16	120
112M	227	42	60	50	28	70	120	140	176	433	M32	M32	190	226	47	112	12	203	260	35	16	120
132S	266	42	80	70	38	89	140	140	180	453.5	M32	M32	216	256	49	132	15	239	299	36	16	140
132M	266	42	80	70	38	89	140	178	218	491.5	M32	M32	216	256	49	132	15	239	299	36	16	140
160M	319	54	110	70	42	108	140	210	256	588	M40	M40	254	300	57	160	18	287	357	42	19	165
160L	319	54	110	70	42	108	140	254	300	628	M40	M40	254	300	57	160	18	287	357	42	19	165



IMB5 Mounting

Frame Size	AG	HK	AG'	M	AD	S	Z
80	75	39	96.5	165	120	12	4
90	75	39	104.5	165	128	12	4
100	120	35	78	215	135	14	4
112	120	35	91	215	148	14	4
132	140	36	107	265	167	14.5	4
160	165	42	127	300	197	18.5	4



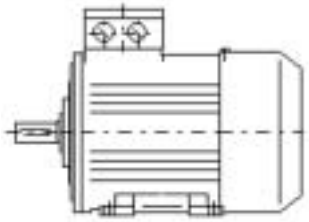
IMB14 Mounting

Frame Size	AG	HK	AG'	M	AD	S	Z
80	75	39	96.5	100	120	M6	4
90	75	39	104.5	100	128	M8	4
100	120	35	78	115	135	M8	4
112	120	35	91	130	148	M8	4
132	140	36	107	165	167	M10	4
160	165	42	127	215	197	M10	4

Prices and data subject to change without notice.

IECEPA3
IP55 / TEFC
Cast Iron Enclosure

IMB3 Foot Mounted



HP 60Hz	kW 50Hz	RPM	Frame	Part No	Catalog No.	List $	Eff @ FL	P.F. FL	A FL	Torque Nm	LRT PU	LRC PU	BDT PU	Curve /CL	Kg
20	15	1200	180L	1LG61866AA60	*	3,555	91.0	0.80	25.9	121.6	2.9	6.5	3.0	9/16	175
25	18.5	1800	180M	1LG61834AA60	*	3,035	92.4	0.82	30.6	99.5	2.9	7.1	3.3	3/16	155
		1200	200L	1LG62066AA60	*	4,515	91.7	0.79	32.1	149.7	2.9	6.5	2.7	9/16	210
30	22	3600	180M	1LG61832AA60	*	3,546	93.6	0.88	33.5	59.0	2.7	7.9	3.7	2/16	180
		1800	180L	1LG61864AA60	*	3,646	92.4	0.83	36.0	118.4	2.8	7.4	3.4	3/16	180
		1200	200L	1LG62076AA60	*	5,228	91.7	0.80	37.6	178.1	2.9	6.4	2.7	9/16	240
40	30	3600	200L	1LG62062AA60	*	4,495	92.4	0.88	46.3	80.4	2.7	7.8	3.7	2/16	225
		1800	200L	1LG62074AA60	*	4,618	93.0	0.84	48.2	161.4	3.0	7.7	3.7	3/16	225
		1200	225M	1LG62236AA60	*	7,798	93.0	0.82	49.4	242.0	3.4	7.2	3.4	9/16	325
50	37	3600	200L	1LG62072AA60	*	5,670	92.4	0.89	56.5	99.1	2.8	8.3	3.7	2/16	255
		1800	225S	1LG62204AA60	*	6,009	93.6	0.84	59.1	198.0	3.1	7.5	3.4	4/16	290
		1200	250M	1LG62536AA60	—	7,804	93.0	0.82	60.9	297.9	3.4	7.4	2.9	4/16	405
		1200	225M	1LG62286AA60	*	7,414	93.0	0.83	60.2	298.4	3.2	7.6	3.4	9/16	355
60	40	3600	225M	1LG62232AA60	*	6,377	94.1	0.89	59.9	107.0	2.8	7.8	3.6	2/16	330
		1800	225M	1LG62234AA60	*	6,201	94.1	0.85	62.8	214.0	3.3	7.9	3.5	4/16	330
		1200	280S	1LG62806AA60	—	9,562	94.1	0.83	72.3	361.1	3.6	7.7	3.1	4/16	520
		1200	250M	1LG62586AA60	—	9,084	93.6	0.82	73.6	362.4	3.4	7.7	2.9	4/16	430
75	55	3600	250M	1LG62532AA60	*	7,734	93.6	0.89	82.9	146.8	2.7	7.5	3.2	14/16	420
		3600	225M	1LG62282AA60	—	7,347	94.1	0.90	81.5	147.1	3.3	8.7	3.7	2/16	390
		1800	250M	1LG62534AA60	*	7,523	94.5	0.86	84.9	293.4	2.9	8.2	3.4	14/16	460
		1800	225M	1LG62284AA60	—	7,147	94.1	0.85	86.3	294.3	3.0	7.8	3.3	4/16	355
		1200	280M	1LG62836AA60	—	11,601	94.5	0.83	88.0	441.4	3.9	8.3	3.3	4/16	570
100	75	3600	280S	1LG62802AB60	*	10,617	95.0	0.89	111.3	200.1	2.8	7.9	3.4	14/13	530
		3600	250M	1LG62582AA60	—	10,086	94.1	0.89	112.4	200.1	2.8	8.4	3.5	14/16	470
		1800	280S	1LG62804AA60	*	12,866	95.0	0.86	115.2	400.6	2.9	7.6	3.2	14/16	575
		1800	250M	1LG62584AA60	—	12,223	94.5	0.86	115.8	400.6	3.0	8.1	3.3	14/16	495
		1200	315S	1LG63106AA60	—	15,749	94.5	0.82	121.5	601.4	3.3	8.4	3.4	4/16	760
		1200	280M	1LG62886AA60	—	14,962	94.5	0.84	118.6	601.9	4.0	8.4	3.3	4/16	615
125	90	3600	280M	1LG62832AB60	*	12,866	95.0	0.90	132.1	240.1	2.9	8.3	3.4	14/13	615
		1800	280M	1LG62834AA60	*	12,093	95.0	0.86	138.3	480.2	3.0	8.2	3.4	14/16	675
		1200	315M	1LG63136AA60	*	18,873	94.5	0.84	142.3	721.7	3.0	7.9	3.1	4/16	935
150	110	3600	315S	1LG63102AB60	*	15,749	94.5	0.91	160.6	293.4	2.6	7.5	3.1	14/13	790
		3600	280M	1LG62882AA60	—	14,962	95.0	0.90	161.5	293.4	3.1	8.5	3.6	14/16	660
		1800	315S	1LG63104AA60	*	15,046	95.0	0.87	167.0	586.5	3.1	7.8	3.2	4/16	810
		1800	280M	1LG62884AA60	—	14,294	95.0	0.86	169.0	587.5	3.1	8.4	3.5	14/16	710
		1200	315L	1LG63166AA60	*	23,074	95.0	0.84	173.0	881.3	3.3	8.5	3.3	4/16	1010
175	132	3600	315M	1LG63132AB60	*	18,913	95.0	0.91	191.6	351.5	3.0	8.3	3.3	14/13	915
		1800	315M	1LG63134AA60	*	17,929	95.4	0.87	199.6	703.9	3.2	8.4	3.3	4/16	965
		1200	315L	1LG63176AA60	*	22,780	95.4	0.84	206.7	1057.6	3.8	8.9	3.7	4/16	1180
200	160	3600	315L	1LG63162AB60	—	23,342	95.4	0.91	231.3	425.9	3.2	8.4	3.5	14/13	1055
		1800	315L	1LG63164AA60	—	22,006	95.4	0.87	242.0	852.7	3.7	9.0	3.6	4/16	1105
		1200	315L	1LG63186AA60	*	27,069	95.4	0.84	250.6	1281.9	4.0	9.4	4.0	4/16	1245

* Please inquire about availability options in stock.
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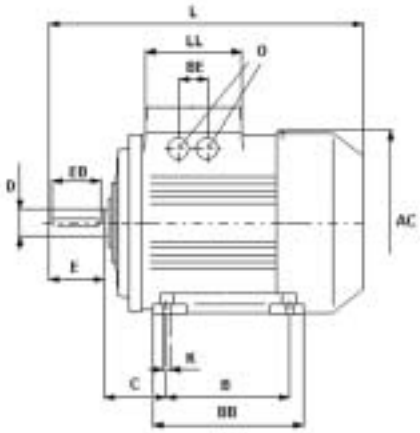
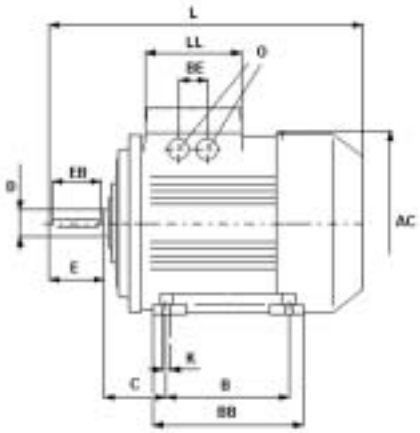
Out of the scope of EPAct regulations.

Prices and data subject to change without notice.

Dimensions

1LG6 Frame Size 180M to 315L



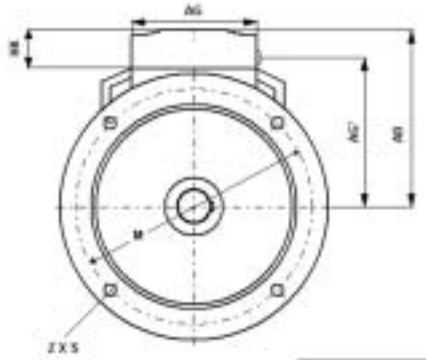


IMB3

Frame	AC	BE	E	EB	D	C	LL	B	BB	O		A	AB	BA	H	HA	HB	HD	HK	K'	AG
180	364	54	110	100	48	121	132	241	328	M40	M40	279	340	91	180	15	400	442	79	19	81
200	402	85	110	100	55	133	192	305	355	M50	M50	318	380	60	200	20	447	500	101	25	164
225	452	110	140[1]	125[3]	60[5]	149	197	286	361	M50	M50	356	436	85	225	34	500	550	135	25	164
250	502	110	140	125	65[6]	168	236	349	409	M63	M63	406	490	100	250	40	560	620	142	30	183
280	555	110	140	125	75[7]	190	236	368	479	M63	M63	457	540	100	280	40	628	712	170	30	182
315	610	110	170[2]	125[4]	80[7]	216	307	406[8]	527[9]	M63	M63	508	610	125	315	50	715	815	170	35	226
315L	610	110	170[2]	125[4]	80[7]	216	307	457	666[9]	M63	M63	508	610	155*	315	50	715	815	170	35	226

Frame Size	Poles	L*
183	4 Pole	670
207	2 - 6 Pole	777
220	4 - 6 Pole	790
223	2 Pole	820
223	4 - 6 Pole	850
283	2 - 4 Pole	1070
310	2 Pole	1072
313/316	2 Pole	1232
317	2 Pole	1372
317/318	2 Pole	1402

2 Pole motors		6 Pole motors	
[1]	110	[8]	457
[2]	140	[9]	578
[3]	100		
[4]	125		
[5]	55		
[6]	60		
[7]	65		



IMB5 Mounting

Frame Size	AG	HK	AG'	M	AD	S	Z
180	81	79	220	300	262	18	4
200	164	101	247	350	300	18	4
225	164	135	275	400	325	18	8
250	183	142	310	500	370	18	8
280	182	170	348	500	432	18	8
315	226	170	400	600	500	22	8

Part Number Guide:

(MLFB)

The Low Voltage IEC Motors part numbers consist of 12 basic digits, one or more together represent information in regards to the selected motor. This guide will help the verification of the required motors:

	Type		Frame Size			No. of Poles		Design		Voltage		Mount
Digit Position:	1,2,3,4		5,6		7	8		9,10		11		12
Part Number:	1 L A 9		1 3		3	4		K A		1		1

Frame	Efficiency	
Aluminum	Improved	1LA7
Aluminum	High	1LA9
Cast Iron	High	1LG6

06		
07		
08	0	
09	1	
10	2	
11		3
13		4
16		5
18		6
20		7
22		8
25		
28		
31		

2	4	6

AA	
AB	
KA	

1 (Star)	0	IMB3
	1	IMB5
(460V 60 Hz)	2	IMB14
	4	IMV1
6 (Delta)	6	IMB35

Availability Range

Range	Type	Frame Size				Mount
0.12 kW - 0.25 kW	1LA7	63		M		0,1,2,4,6
0.18 kW - 0.55 kW	1LA7	71		M		0,1,2,4,6
0.37 kW - 0.55 kW	1LA7	80		M		0,1,2,4,6
0.75 kW - 1.1 kW	1LA9	80		M		0,1,2,4,6
0.75 kW - 2.2 kW	1LA9	90	S		L	0,1,2,4,6
1.5 kW - 2.2 kW	1LA9	100			L	0,1,2,4,6
2.2 kW - 4 kW	1LA9	112		M		0,1,2,4,6
4 kW - 7.5 KW	1LA9	132	S	M		0,1,2,4,6
7.5 kW - 18.5 kW	1LA9	160		M	L	0,1,2,4,6
15 kW - 22 kW	1LG6	180		M	L	0,1,4,6
18.5 kW - 37 kW	1LG6	200			L	0,1,4,6
30 kW - 45 kW	1LG6	225	S	M		0,1,4,6
37 kW - 55 kW	1LG6	250		M		0,1,4,6
45 kW - 90 kW	1LG6	280	S	M		0,1,4,6
75 kW - 160 kW	1LG6	315	S	M	L	0,4,6

Options		
Misc.	A11	Motor protection with PTC thermosistors
	K26	Special paint in RAL 7030 (Worldwide paint)
	Y54	Special paintwork in special RAL color
	B02	Factory test in acc. with EN 10 204 2.3
Zone 2	L85	Zone 2, Ex nA IIT3 acc to IEC 60-079-15
	M72	Zone 2, Ex nA IIT3 acc to IEC 60-079-15
	M04	Zone 2, Ex nA IIT3 acc to IEC 60-079-15
Mechanical	K09	Side mounting terminal box right
	K10	Side mounting terminal box left
	K83	Terminal box rotated 90° DE
	K84	Terminal box rotated 90° NDE
	K85	Terminal box rotated 180°
	L12	Drain holes
	L13	External earthing
	K40	Regreasing device
	Y82	Extra rating plate
	K45	Anti-condensation heater for 230V
	K46	Anti-condensation heater for 115V

Frame number and the overall size of the motor defines the Frame Size of the motor.

Size

S = 1,2,3
M = 3,4,5
L = 6,7,8

Speed:

2 = 3600 RPM
4 = 1800 RPM
6 = 1200 RPM

IMB3 = Foot Mounted
IMB5 = B5 Flange
IMB14 = B14 Flange
IMV1 = Vertical B5 Flange w/Canopy
IMB35 = Foot Mounted B5 Flange

Prices and data subject to change without notice.

Options List Price

Aluminum Enclosure (1LA7, 1LA9 Types)

	Mounting			
Frame	IMB5	IMB14	IMV1	IMB34/35
63	$ 38	$ 38	$ 77	$ 55
71	42	42	85	58
80	47	47	99	65
90	57	57	118	75
100	70	70	136	90
112	87	87	164	118
132	114	114	211	147
160	147	147	283	212

	Miscellaneous			
	A11	K26[5)]	Y54[5)]	B02
63	$104	$ Std	$ 84	$ 36
71	104	Std	84	36
80	104	Std	84	36
90	104	Std	115	36
100	104	Std	115	36
112	104	Std	115	36
132	104	Std	180	36
160	104	Std	180	36

	Zones 2
	M72[2)]
63	$ 88
71	107
80	127
90	233
100	244
112	198
132	252
160	336

	Mechanical										
Frame	K09[3)]	K10[3)]	K83[4)]	K84[4)]	L12	L13	K40	Y82	K45[2)]	K46[2)]	K85
63	$ NA	$ NA	$ 16	$ 16	$ 114	$ 24	$ NA	$ 42	$ 360	$ 360	$ 16
71	NA	NA	18	18	114	24	NA	42	360	360	18
80	35	35	20	20	114	24	NA	42	360	360	20
90	40	40	23	23	114	28	NA	42	360	360	23
100	102	102	58	58	114	28	310	42	405	405	Std
112	111	111	72	72	114	28	318	42	420	420	Std
132	120	120	91	91	114	28	327	42	450	450	Std
160	128	128	125	125	114	28	355	42	510	510	Std

Cast Iron Enclosure (1LG6 Type)

	Mounting			
Frame	IMB5	IMB14	IMV1	IMB35
180	$ 240	NA	$ 409	$ 323
200	291	NA	545	426
225	376	NA	716	628
250	450	NA	883	853
280	656	NA	1,170	1,109
315	*1,625	NA	*1,625	1,452

	Miscellaneous			
	A11	K26	Y54	B02
180	$249	$168	$222	$36
200	249	210	260	$36
225	249	310	424	$36
250	249	379	535	$36
280	249	464	677	$36
315	249	598	897	$36

	Zones 2
	M72
180	$ 458
200	594
225	716
250	869
280	1,021
315	1,219

	Mechanical										
Frame	K09[3)]	K10[3)]	K83[4)]	K84[4)]	L12	L13	K40	Y82	K45[2)]	K46[2)]	K85
180	$ 138	$ 138	$ 44	$ 44	Std	Std	$ 375	$ 68	$ 565	$ 565	Std
200	196	196	58	58	Std	Std	421	68	625	625	Std
225	230	230	72	72	Std	Std	468	68	715	715	Std
250	282	282	85	85	Std	Std	560	85	865	865	Std
280	431	431	101	101	Std	Std	Std	85	890	890	Std
315	658	658	121	121	Std	Std	Std	85	890	890	Std

* Not available on 2 pole motors

1) When selected A11 is not be available

2), 3), 4), 5) Order codes can not be combined with one another

NA Not Available

Std Standard Feature

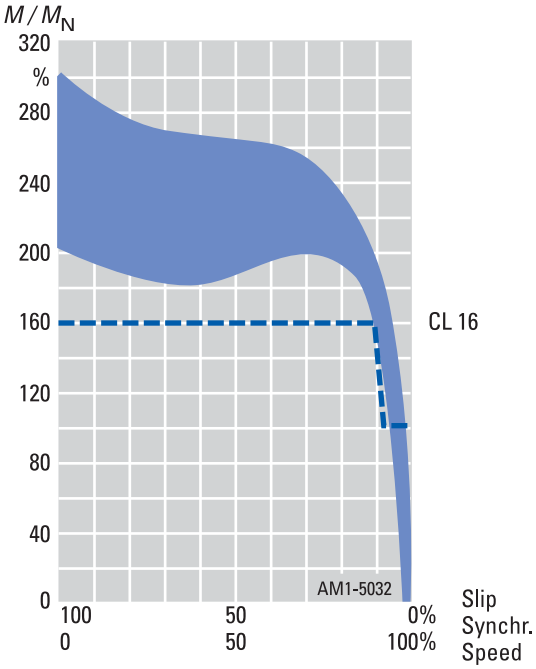
To request any modifications please add as Z at the end of the part number followed by a + sign and the related code

Example: 1LA9 133 4KA 11 - Z +A11 + K09...

Prices and data subject to change without notice.

Speed-Torque Curves

1



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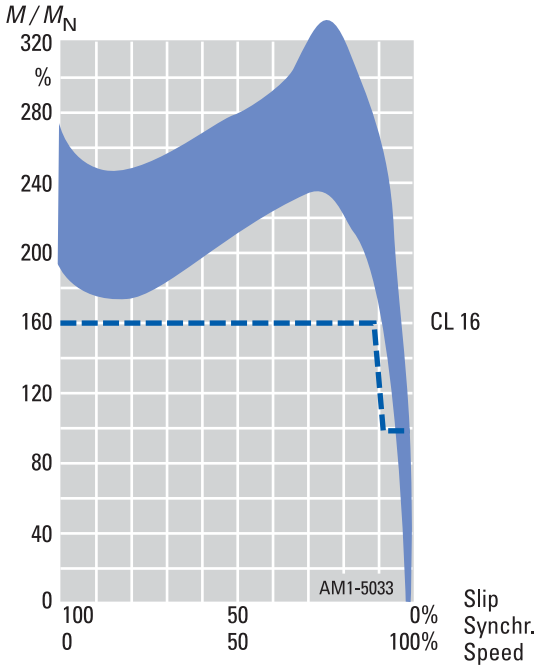

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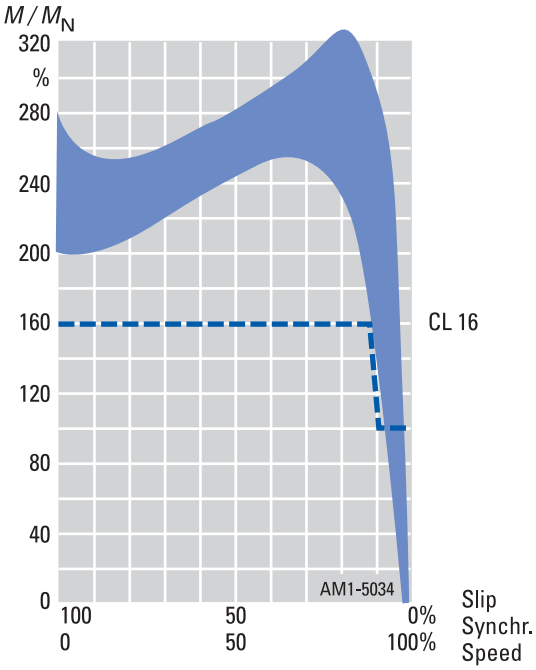
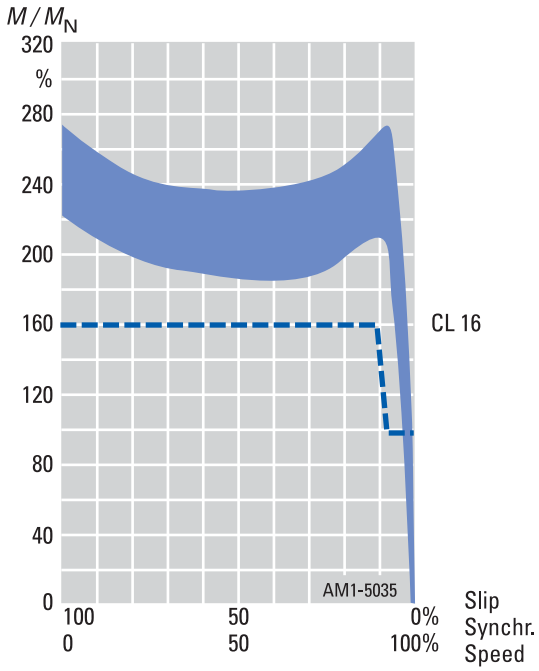


Torque is plotted as % of the rated value.
Speed is plotted as % of the synchronous speed.
CL = Torque class

4



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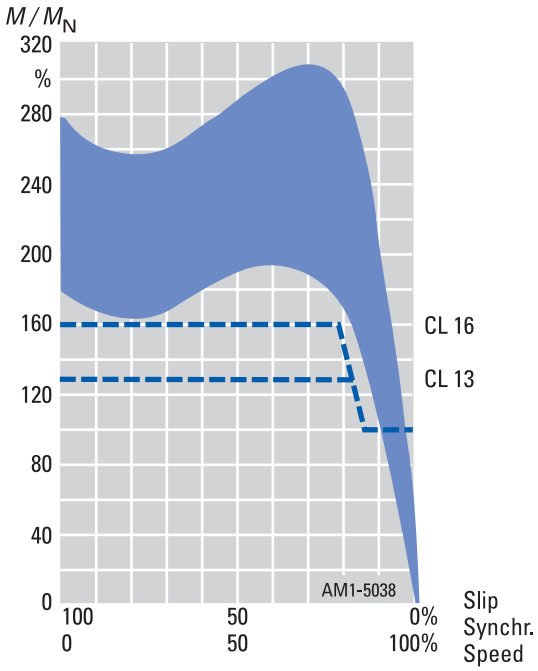

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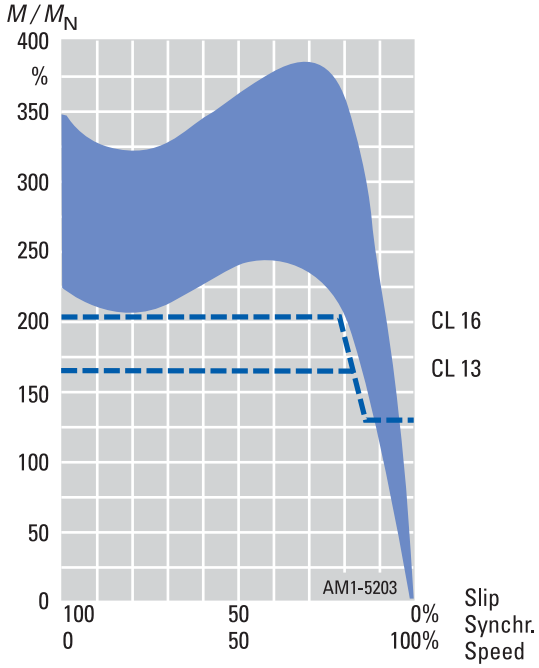

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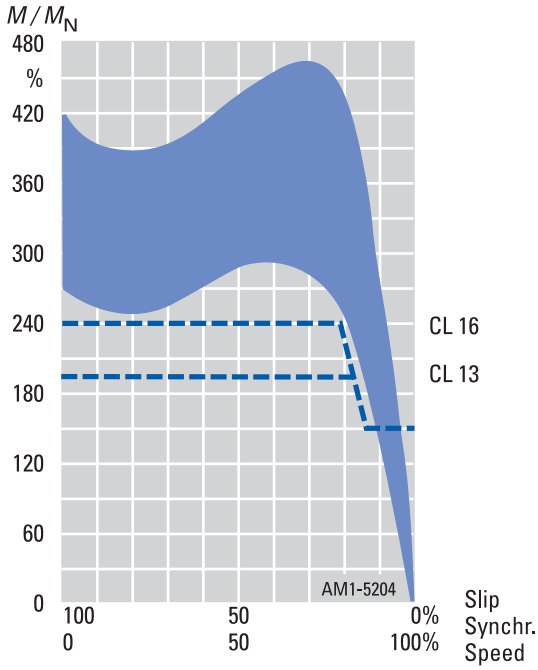

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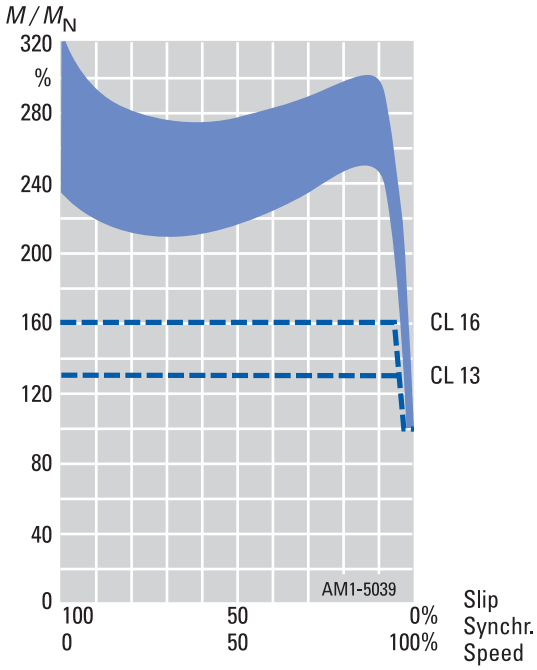
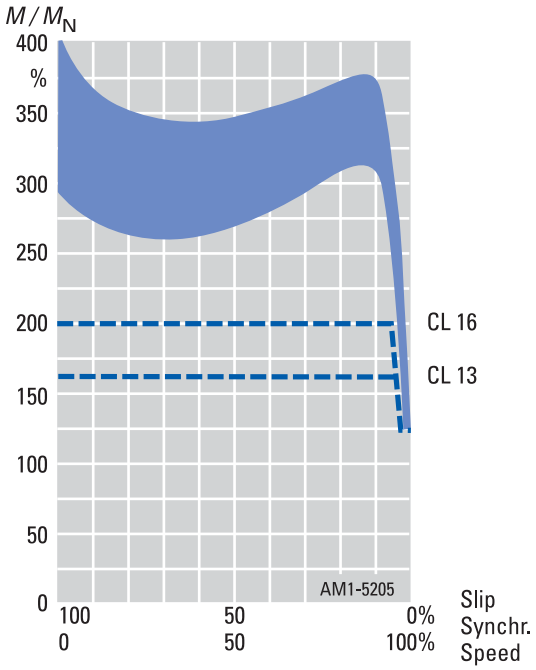
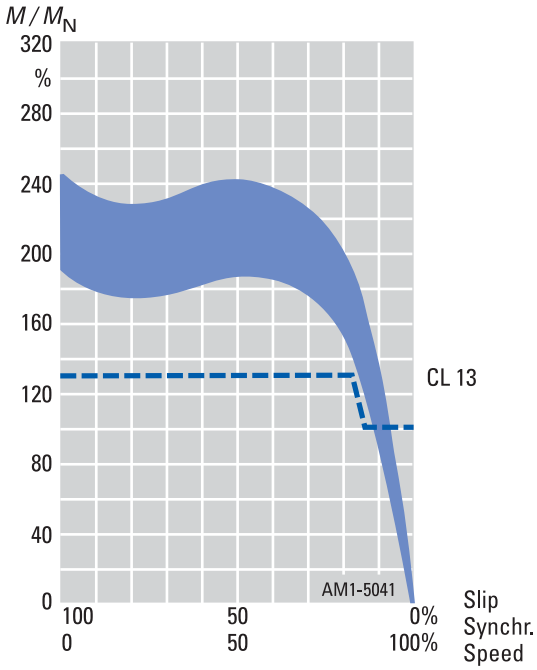

M / M_N
320
%
280
240
200
160
120
80
40
0
CL 16
CL 13
AM1-5039
100
0
50
50
0%
100%
Slip
Synchr.
Speed

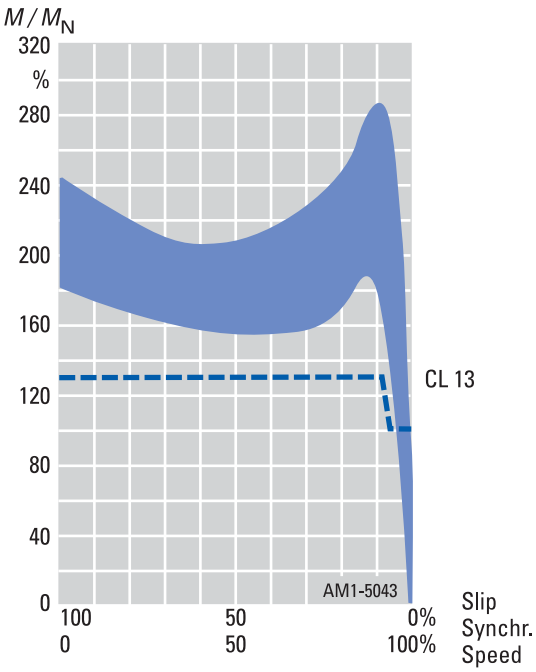
10


M / M_N
400
%
350
300
250
200
150
100
50
0
CL 16
CL 13
AM1-5205
100
0
50
50
0%
100%
Slip
Synchr.
Speed

12


M / M_N
320
%
280
240
200
160
120
80
40
0
CL 13
AM1-5041
100
0
50
50
0%
100%
Slip
Synchr.
Speed

14


M / M_N
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%
280
240
200
160
120
80
40
0
CL 13
AM1-5043
100
0
50
50
0%
100%
Slip
Synchr.
Speed

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