



SEVERE DUTY WATSAVER PLUS & IEEE PREMIUM EFFICIENT MOTORS



General Specifications:

Designed specifically to meet severe duty environments that you may find in applications such as chemical plants, foundries, pulp and paper mills, waste management facilities, refineries, above ground mines or other applications that demand corrosion protection for long motor life and dependability.



Mechanical Protection Features:

- Full cast iron construction
- Two-part Epoxy paint
- Inpro Shaft Seal on output shaft and Forsheda seal on non-drive end
- Internal corrosion protection
- Regreasable bearings 250 Frame and above
- Three Year warranty
- Stainless Steel nameplate
- Corrosion Resistant hardware

Electrical Performance and Protection Features:

- 1.15 Service Factor
- Meets IP 55 enclosure protection
- Dual voltage design
- Normally Closed Thermostats

Standards and Approvals:

- UL and CSA recognized
- Construction is CSA Certified for safety report number LR62104
- UL recognized construction, file number E57948

General Specifications:

Designed for harsh environments that you may find in refineries, above-ground mines, foundries, paper and pulp mills, cement plants or other severe duty applications requiring a premium efficient motor.



Mechanical Protection Features:

- Inpro Shaft Seals installed
- Re-greasable bearings by using extended grease tubes.
- Five-year warranty
- Two part epoxy painted
- Brass breather and drain plug

Electrical Performance and Protection Features:

- Tested to IEEE-841 Standards
 - Actual test and vibration Data supplied with each motor
 - Meets NEMA MG1 – 1.26.6 Waterproof Specification
 - Nameplate stamped to Division 2 CSA certification for hazardous locations, Class 1 Groups A, B, C, D, Temperature code T2B
 - Meets NEMA Premium Efficient standards
 - 1.15 Service Factor
 - Class F Insulation System
- ### Standards and Approvals:
- UL Recognized and CSA Certified
 - Tested to IEEE45 USCG Marine Duty, API RP14F for offshore platforms
 - Meets IP56

SEVERE DUTY • WATSAVER PLUS

HP	SYN RPM 60 Hz	NEMA Frame	Catalog Number	App. Wgt. (lbs.)	Voltage	Over-load Prot.	F.L. Amps 230V	"C" Dim. (Inches)
3	1800	182T	171623.60	112	208-230/460	7.8	90.2	16.64
	1200	213T	171634.60	180	208-230/460	9.4	89.5	18.69
5	1800	184T	171630.60	120	208-230/460	12.8	89.5	17.30
	1200	215T	171635.60	186	208-230/460	14.4	89.5	20.11
7½	3600	213T	171616.60	155	208-230/460	18	91.0	18.69
	1800	213T	171622.60	165	208-230/460	18.6	91.7	18.69
	1200	254T	171636.60	263	208-230/460	22.2	91.7	23.69
10	3600	215T	171617.60	190	208-230/460	23	91.7	20.11
	1800	215T	171631.60	187	208-230/460	25	91.7	20.11
	1200	256T	171637.60	312	208-230/460	29	91.7	25.42
15	3600	254T	171620.60	294	208-230/460	34.6	92.4	23.69
	1800	254T	171632.60	294	208-230/460	36	92.4	23.69
	1200	284T	171638.60	346	208-230/460	40.6	92.4	26.76
20	3600	256T	171621.60	330	208-230/460	46	92.4	25.42
	1800	256T	171633.60	335	208-230/460	49	93.0	25.42
	1200	286T	171639.60	405	208-230/460	54	92.4	28.33

IEEE 841 PREMIUM EFFICIENT MOTORS

HP	SYN RPM	NEMA Frame	IEEE 841 Catalog Number	App. Wgt. (lbs.)	Voltage	F.L. Amps 460V	% F.L. Eff.	"C" Dim. (Inches)
1	1800	143T	811541.00 A	55	460	1.5	85.5	10.43
1½	3600	143T	811542.00 A	58	460	2.0	86.5	10.43
	1800	145T	811543.00 A	65	460	2.2	84.0	11.43
2	3600	145T	811544.00 A	68	460	2.5	85.5	11.43
	1800	145T	811545.00 A	68	460	3.0	85.5	11.43
3	3600	182T	811546.00	105	460	3.8	87.5	12.71
	1800	182T	811547.00	100	460	4.0	90.2	12.71
5	3600	184T	811548.00 A	142	460	5.9	89.5	16.19
	1800	184T	811549.00	130	460	6.2	90.2	16.19
7½	3600	213T	811550.00 A	200	460	8.9	91.7	17.18
	1800	213T	811551.00	200	460	9.6	91.7	19.73
10	3600	215T	811552.00	218	460	11.2	91.7	20.97
	1800	215T	811553.00	225	460	12.5	91.7	19.73
15	3600	254T	811554.00	345	460	17.5	91.7	23.52
	1800	254T	811555.00	350	460	18.8	92.4	23.52
20	3600	256T	811556.00	375	460	23.4	92.4	25.27
	1800	256T	811557.00 A	425	460	24.1	93.0	25.27
25	3600	284TS	811558.00 A	481	460	28.1	93.6	24.97
	1800	284T	811559.00 A	478	460	31.0	93.6	26.34
30	3600	286TS	811560.00	500	460	33.8	93.6	26.44
	1800	286T	811561.00	525	460	36.5	94.1	27.84
40	3600	324TS	811562.00	656	460	47	93.6	27.37
	1800	324T	811563.00	700	460	47.5	94.1	28.87
50	3600	326TS	811564.00	725	460	58	93.6	28.87
	1800	326T	811565.00	775	460	60	94.5	30.37
60	3600	364TS	811566.00	925	460	67	94.5	29.38
	1800	364T	811567.00	1000	460	69	95	31.50
75	3600	365TS	811568.00	1002	460	84	94.5	30.38
	1800	365T	811569.00	1100	460	86	95.4	32.50
100	3600	405TS	811570.00	1295	460	108	95	34.12
	1800	405T	811571.00	1330	460	113	95.4	37.12

A Subject to Availability.

SHADED FRAME INDICATES CAST IRON CONSTRUCTION

All three phase motors, 1 HP and above, are inverter rated.

Specifications are subject to change without notice

TEFC SEVERE DUTY
208, 230/460 & 460 VOLTS • 3-PHASE
FOOT MOUNT & C-FACE
1 TO 800 HP



Bring On Your Severe Environment; These Motors Can Take It.

Pulp and paper mills, foundries, chemical plants...you name the severe environment application, these motors will deliver reliable service beyond what you thought possible.

Meets Ford EM1-1996 Spec.

The 460 volt (3 lead) design of these motors meets the demanding T frame motor requirements of Ford's EM1-1996 specification (look for "F" in Notes column).

Vary the Speed, Keep the Motor; Reap the Benefits

Lincoln Severe Duty motors are inverter-rated for use with any brand drive at any carrier frequency. And to make matters as simple and inexpensive as possible, we don't require installation of filters or any other power conditioning devices.



Features:

- Full cast iron construction
- NEMA premium efficiency - 1 to 200 HP
- Nameplated for 50 Hz & 208 V/60 Hz operation – simplifies your motor selection and reduces your inventory requirements – see "Notes" column.
- Continuous Duty
- Premium Class F Insulation System
- Y-delta start capability 284T frames and larger (reference "Y" in Model Number)
- Shielded ball bearing for direct coupled applications. Contact your local sales office for belted applications.

Applications:

For use in the severe environments found in the process industries such as pulp and paper mills, chemical plants, foundries, textile mills and automotive manufacturing facilities.



* 182T - 444T frames.

FOOT MOUNT

HP	SYN RPM	Frame	FL Nom Eff (%)	SF	Volts	Model Number	Product Number	Approx Shpg Wght (lbs)
1	1800	143T	85.5	1.25	230/460	CCS4B1T61	LM32856	59
	1200	145T	82.5	1.25	230/460	CCS6B1T61	LM32857	57
1 1/2	3600	143T	84.0	1.25	230/460	CCS2B1.5T61	LM32858	56
	1800	145T	86.5	1.25	230/460	CCS4B1.5T61	LM32859	62
	1200	182T	87.5	1.25	230/460	CCS6B1.5T61	LM32860	112
2	3600	145T	85.5	1.25	230/460	CCS2B2T61	LM32861	71
	1800	145T	86.5	1.25	230/460	CCS4B2T61	LM32862	64
	1200	184T	88.5	1.25	230/460	CCS6B2T61	LM32863	126

Product numbers in red are STOCK items.

Specifications are subject to change without notice



TEFC SEVERE DUTY
208, 230/460 & 460 VOLTS • 3-PHASE
FOOT MOUNT & C-FACE
1 TO 800 HP

FOOT MOUNT (cont'd)

HP	SYN RPM	Frame	FL Nom Eff (%)	SF	Volts	Model Number	Product Number	Approx Shpg Wght (lbs)
3	3600	182T	88.5	1.25	230/460	CCS2B3T61	LM32864	107
	1800	182T	89.5	1.25	230/460	CCS4B3T61T5	LM16644	104
	1200	213T	89.5	1.25	230/460	CCS6B3T61	LM32865	173
5	3600	184T	89.5	1.25	230/460	CCS2B5T61	LM32866	108
	1800	184T	89.5	1.25	230/460	CCS4B5T61T5	LM16650	109
	1200	215T	89.5	1.25	230/460	CCS6B5T61	LM32867	203
7 1/2	3600	213T	89.5	1.25	230/460	CCS2B7.5T61	LM32868	192
	1800	213T	89.5	1.25	230/460	CCS4P7.5T61	LM32869	194
	1200	254T	91.7	1.15	230/460	CCS6B7.5T61YT5	LM16656	249
10	3600	215T	90.2	1.25	230/460	CCS2B10T61	LM32870	218
	1800	215T	91.7	1.25	230/460	CCS4B10T61	LM16919	213
	1200	256T	91.0	1.25	230/460	CCS6B10T61	LM32871	368
15	3600	254T	91.0	1.25	230/460	CCS2B15T61	LM32872	384
	1800	254T	92.4	1.25	230/460	CCS4B15T61	LM32873	322
	1200	284T	91.7	1.25	230/460	CCS6B15T61Y	LM32874	483
20	3600	256T	91.0	1.25	230/460	CCS2B20T61	LM32875	385
	1800	256T	93.0	1.25	230/460	CCS4B20T61	LM32876	368
	1200	286T	91.7	1.25	230/460	CCS6B20T61Y	LM32877	515
25	3600	284TS	91.7	1.25	230/460	CCS2B25TS61Y	LM32878	461
	1800	284T	93.6	1.25	230/460	CCS4B25T61Y	LM32879	495
	1200	324T	93.0	1.25	230/460	CCS6P25T61Y	LM32880	637
30	3600	286TS	91.7	1.25	230/460	CCS2B30TS61Y	LM32881	496
	1800	286T	93.6	1.25	230/460	CCS4B30T61Y	LM32882	519
	1200	326T	93.0	1.25	230/460	CCS6B30T61Y	LM32883	689
40	3600	324TS	92.4	1.25	230/460	CCS2B40TS61Y	LM32884	664
	1800	324T	94.1	1.25	230/460	CCS4B40T61Y	LM32885	602
	1200	364T	94.1	1.25	230/460	CCS6B40T61Y	LM32886	835
50	3600	326TS	93.0	1.25	230/460	CCS2B50TS61Y	LM32685	732
	1800	326T	94.5	1.25	230/460	CCS4B50T61Y	LM32887	744
	1200	365T	94.1	1.25	230/460	CCS6B50T61Y	LM32888	955
60	3600	364TS	93.6	1.25	230/460	CCS2B60TS61Y	LM32889	918
	1800	364T	95.0	1.25	230/460	CCS4B60T61Y	LM32890	980
	1200	404T	94.5	1.15	230/460	CCS6B60T61Y	LM32891	1156
75	3600	365TS	93.6	1.25	230/460	CCS2B75TS61Y	LM32892	1001
	1800	365T	95.4	1.15	230/460	CCS4B75T61Y	LM32893	1018
	1200	405T	94.5	1.25	230/460	CCS6B75T61Y	LM32894	1280
100	3600	405TS	94.1	1.25	230/460	CCS2B100TS61Y	LM32895	1296
	1800	405T	95.4	1.25	230/460	CCS4B100T61Y	LM32896	1338
	1200	444T	95.0	1.25	460	CCS6B100T64Y	LM32897	1874
125	3600	444TS	95.0	1.15	460	CCS2B125TS64Y	LM32898	1874
	1800	444T	95.4	1.15	460	CCS4B125T64Y	LM32899	1874
	1200	445T	95.0	1.15	460	CCS6B125T64	LM32900	2042

Product numbers in red are STOCK items.

Specifications are subject to change without notice

TEFC SEVERE DUTY
208, 230/460 & 460 VOLTS • 3-PHASE
FOOT MOUNT & C-FACE
1 TO 800 HP



FOOT MOUNT (cont'd)

HP	SYN RPM	Frame	FL Nom Eff (%)	SF	Volts	Model Number	Product Number	Approx Shpg Wght (lbs)
150	3600	445TS	95.0	1.15	460	CCS2B150TS64Y	LM32901	2099
	1800	445T	95.8	1.15	460	CCS4B150T64Y	LM32902	2070
	1200	445T	95.8	1.15	460	CCS6B150T64Y	LM32903	2042
200	3600	445TS	95.4	1.15	460	CCS2B200TS64Y	LM32904	2332
	1800	445T	96.2	1.15	460	CCS4B200T64Y	LM32905	2305
	1200	449T	95.8	1.15	460	CCS6B200T64Y	LM32906	3087
250	3600	449TS	95.4	1.15	460	CCS2P250TS64Y	LM15717	2572
	3600	449TS	95.4	1.15	460	CCS2P250TS64	LM22908	2572
	1800	449T	95.4	1.15	460	CCS4P250T64Y	LM14643	2572
	1800	449T	95.4	1.15	460	CCS4P250T64	LM17594	2572
	1200	449T	95.4	1.15	460	CCS6P250T64Y	LM15723	2883
	1200	449T	95.4	1.15	460	CCS6P250T64	LM17597	2883
300	3600	449TS	95.4	1.15	460	CCS2P300TS64Y	LM15721	2883
	3600	449TS	95.4	1.15	460	CCS2P300TS64	LM17601	2883
	1800	449T	95.4	1.15	460	CCS4P300T64Y	LM14642	2572
	1800	449T	95.4	1.15	460	CCS4P300T64	LM22909	2572
	1200	449T	95.4	1.00	460	CCS6P300T64Y	LM15722	2883
	1200	449T	95.4	1.00	460	CCS6P300T64	LM17598	2883
350	3600	449TS	95.4	1.15	460	CCS2P350TS64Y	LM15720	2883
	3600	449TS	95.4	1.15	460	CCS2P350TS64	LM17602	2883
	1800	449T	95.4	1.15	460	CCS4P350T64Y	LM14645	2883
	1800	449T	95.4	1.15	460	CCS4P350T64	LM17599	2883
	1200	5011LS	95.8	1.15	460	CCS6P350LS64Y	LM22210	5500
400	1800	449T	95.8	1.00	460	CCS4P400T64Y	LM14644	2883
	1800	449T	95.8	1.00	460	CCS4P400T64	LM17600	2883
	1200	5011	95.8	1.15	460	CCS6P400L64Y	LM22211	5500
450	1800	5011LS	95.8	1.15	460	CCS4P450LS64Y	LM22212	5500
	1200	5011LS	96.2	1.15	460	CCS6P450LS64Y	LM27292	5500
500	1800	5011LS	96.2	1.15	460	CCS4P500LS64Y	LM22213	5500
	1200	5013LS	96.2	1.15	460	CCS6P500LS64Y	LM27293	7200
600	1800	5011LS	96.5	1.15	460	CCS4P600LS64Y	LM22489	5500
700	1800	5013LS	96.5	1.15	460	CCS4P700LS64Y	LM27295	7200

Product numbers in red are STOCK items.

Specifications are subject to change without notice