SEVERE DUTY WATTSAVER PLUS & IEEE PREMIUM EFFICIENT MOTORS

NEMA Premium

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 • WATTSAVER 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	3605	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.

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Lincoln MOTORS

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

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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

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