

PRODUCT INFORMATION PACKET



Model No: 811593.00
Catalog No: 811593.00
250 HP, Severe Duty Motor, 3 phase, 1800 RPM, 460 V, 447/449T Frame, TEFC
Severe Duty Motors



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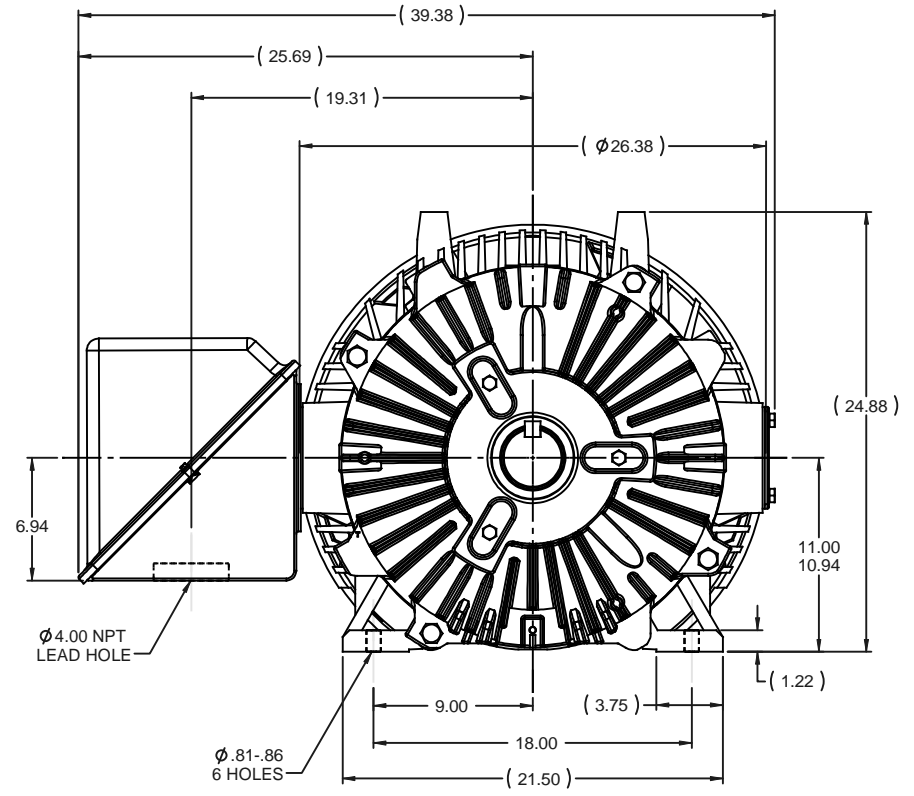
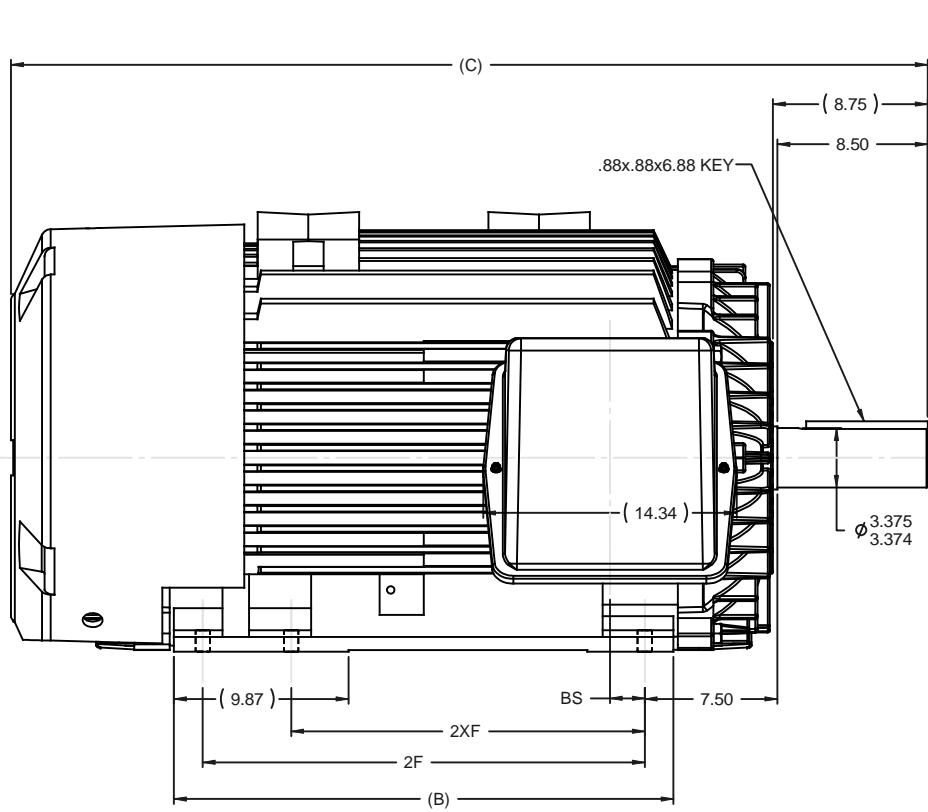
Nameplate Specifications

Output HP	250 Hp	Output KW	187.0 kW
Frequency	60 Hz	Voltage	460 V
Current	285.0 A	Speed	1785 rpm
Service Factor	1.15	Phase	3
Efficiency	96.5 %	Power Factor	86
Duty	Continuous	Insulation Class	F
Design Code	B	KVA Code	G
Frame	447/449T	Enclosure	Totally Enclosed Fan Cooled
Thermal Protection	No	Ambient Temperature	40 °C
Drive End Bearing Size	6319	Opp Drive End Bearing Size	6318
UL	Recognized	CSA	Y
CE	Y	IP Code	56
Number of Speeds	1		

Technical Specifications


Electrical Type	Squirrel Cage Inverter Rated	Starting Method	Line Or Inverter
Poles	4	Rotation	Reversible
Resistance Main	.0107 Ohms	Mounting	Rigid Base
Motor Orientation	Horizontal	Drive End Bearing	Ball
Opp Drive End Bearing	Ball	Frame Material	Cast Iron
Shaft Type	T	Overall Length	51.85 in
Frame Length	28.75 in	Shaft Diameter	3.375 in
Shaft Extension	8.5 in	Assembly/Box Mounting	F1/F2 CAPABLE
Connection Drawing	A-EE7300-LE	Outline Drawing	B-SS515631LE-2875

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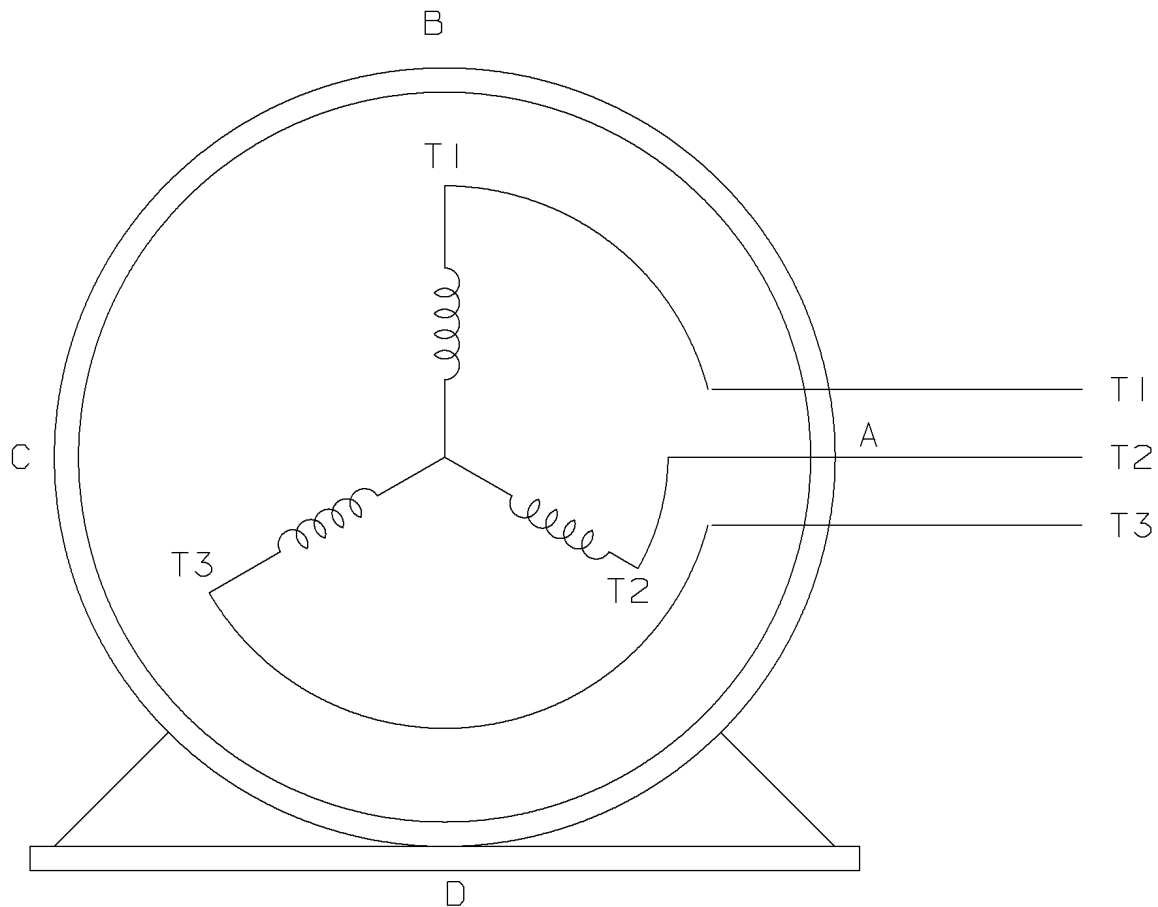
- NOTES:
 1- C'BOX CAN BE ROTATED IN 90° STEPS.
 2- NAMEPLATES TO BE READ FROM C'BOX SIDE OF MOTOR.
 3- C'BOX CAN BE MOUNTED IN F2 POSITION.

DASH	FRAME	B	C	2F	2XF	BS
2875	447T	28.25	51.84		20.00	1.97
2875	449T	28.25	51.84	25.00		1.97

		TOLERANCES UNLESS SPECIFIED		 ELECTRIC MOTORS GEARMOTORS AND DRIVES		DRAWN KL 07-23-2002	
		DEC	INCHES			CHK DJK 07-23-2002	
3	REMOVED BAFFLE CN 39113	DRS 07-22-2005	ML XX ±.03	TITLE OUTLINE		SCALE 1:7	
2	ADDED EXTERNAL BAFFLE CN 39113	DRS 06-22-2008	ML XXX ±.005	447-449T FR. - TEFC - STD.		REF	
1	NEW DRAWING MU42766	KL 07-23-2002	XXX ±.0005	MATL		FMF	
NO	REVISION	BY & DATE	CHK ANG ±7'30"	FINISH		PREV	
THIS DRAWING IN DESIGN AND DETAIL IS OUR PROPERTY AND MUST NOT BE USED EXCEPT IN CONNECTION WITH OUR WORK. ALL RIGHTS OF DESIGN AND INVENTION ARE RESERVED. THIS IS AN ELECTRONICALLY GENERATED DOCUMENT - DO NOT SCALE THIS PRINT				RFP	CAD FILE SS515631LE		SIZE
				DIST WA - LE			DRAWING NO
						B SS515631LE	
						REV 3	

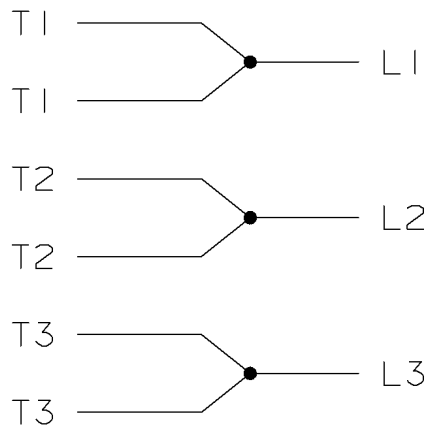
THREE PHASE - SINGLE VOLTAGE
MOTOR - CONDUIT BOX @ 'A'

TO REVERSE ROTATION:
INTERCHANGE ANY TWO LINE
LEAD CONNECTIONS




VIEW OF TERMINAL END

IF MOTOR HAS
6 LEADS



A-9806 DECAL

						TOLERANCES UNLESS SPECIFIED		 ELECTRIC MOTORS GEARMOTORS AND DRIVES	DRAWN MSG 05-22-2002		
						DEC.	TOLERANCE		CHK ML 05-22-2002		
						.X	± .1		APPD GK 05-22-2002		
						.XX	± .02		SCALE		
						.XXX	± .005		REF		
1	NEW DRAWING	MSG	05-22-2002	ML	.XXXX	± .0005	TITLE CONNECTION DIAGRAM SINGLE VOLT - 3Ø MOTOR	FINISH	FMF		
NO.	REVISION	BY	DATE	CHK	ANG	± 7'30'	<input checked="" type="checkbox"/> SURFACE ROUGHNESS UNLESS SPECIFIED	MAT'L.	PREV		
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				DIST WA - LB - WP - LM - BR - BY				A	EE7300-LE	I	



CERTIFICATION DATA SHEET

**1051 CHEYENNE AVE.
GRAFTON, WI 53024
PH. 262-377-8810**

CATALOG #:

CONN. DIAGRAM: A-EE7300-LE

OUTLINE: B-SS515631LE-2875

MOUNTING: F1/F2 CAPABLE

WINDING #: T449446 3

TYPICAL MOTOR PERFORMANCE DATA

HP	kW	SYNC. RPM	F.L. RPM	FRAME	ENCLOSURE	KVA CODE	DESIGN
250	187	1800	1785	447/449T	TEFC	G	B

PH	Hz	VOLTS	AMPS	START TYPE	DUTY	INSL	S.F.	AMB°C
3	60	460	285	LINE OR INVERTER	CONTINUOUS	F1	1.15	40

FULL LOAD EFF:	96.5	3/4 LOAD EFF:	96.5	1/2 LOAD EFF:	95.8	GTD. EFF		ELEC. TYPE	
FULL LOAD PF:	86	3/4 LOAD PF:	83.5	1/2 LOAD PF:	77	96.2		SQ CAGE INV RATED	

F.L. TORQUE	LOCKED ROTOR AMPS	L.R. TORQUE	B,D. TORQUE	F.L. RISE°C
736 LB-FT	1825	1450 LB-FT 197 %	1825 LB-FT 248 %	65

SOUND PRESSURE @ 3 FT.	SOUND POWER	ROTOR WK^2	MAX. WK^2	SAFE STALL TIME	STARTS / HOUR	APPROX. MOTOR WGT
80 dBA	90 dBA	81 LB-FT^2	2000 LB-FT^2	25 SEC.	1	2700 LBS.

***** SUPPLEMENTAL INFORMATION *****

DE BRACKET TYPE	ODE BRACKET TYPE	MOUNT TYPE	ORIENTATION	SEVERE DUTY	HAZARDOUS LOCATION	DRIP COVER	SCREENS	PAINT
STANDARD	STANDARD	RIGID	HORIZONTAL	PREMIUM SEVERE DUTY	DIVISION 2 T2B	FALSE	NONE	GREEN - LEESON (EPOXY)

BEARINGS		GREASE	SHAFT TYPE	SPECIAL DE	SPECIAL ODE	SHAFT MATERIAL	FRAME MATERIAL
DE	ODE						
BALL	BALL	POLYREX EM	T	NONE	NONE	1045 HOT ROLLED (C-204)	CAST IRON
6319	6318						

THERMO-PROTECTORS				THERMISTORS	CONTROL	SPACE HEATERS
THERMOSTATS	PROTECTORS	WDG RTDs	BRG RTDs			
NONE	NOT	NONE	NONE	NONE	FALSE	NONE VOLTS

*
N
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E

INVERTER TORQUE: CONSTANT 10:1
INV. HP SPEED RANGE: NONE
ENCODER: NONE NONE NONE NONE NONE PPR
BRAKE: NONE NONE NONE P/N NONE NONE NONE FT-LB NONE V NONE Hz

Data Sheet

Date: 1/31/2018

811593.00



Data @ **460 V**

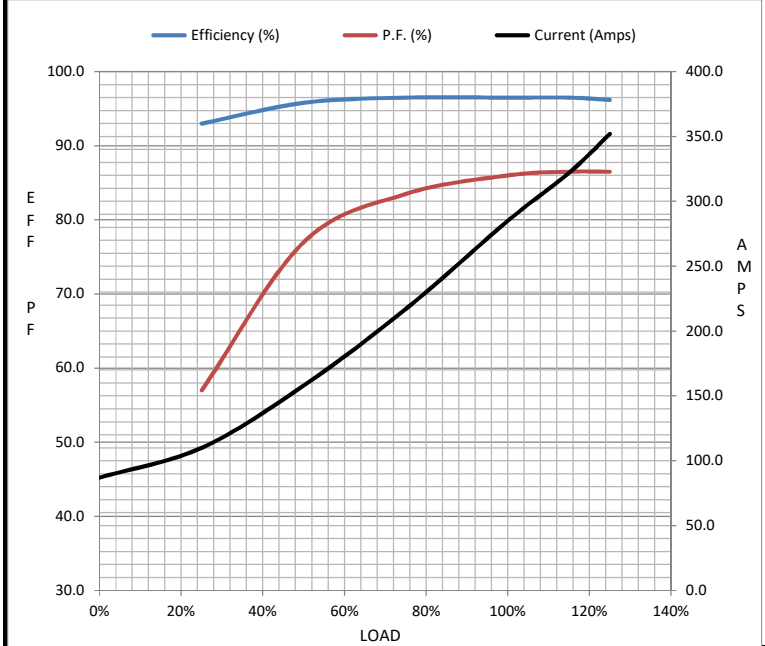
Motor Load Data

Load	0%	25%	50%	75%	100%	115%	125%	LR
Current (Amps)	87.0	110	158	217	285	322	352	1,825
Torque (ft-lb)	0.00	183	366	550	736	846	920	1,450
RPM	1800	1796	1794	1790	1785	1,782	1780	0
Efficiency (%)		93.0	95.8	96.5	96.5	96.5	96.2	
P.F. (%)	4.5	57.0	77.0	83.5	86.0	86.5	86.5	31.0

Motor Speed Data

	LR	Pull-Up	BD	Rated	Idle
Speed (RPM)	0	900	1725	1785	1800
Current (Amps)	1,825	1,725	1,100	285	87.0
Torque (ft-lb)	1,450	1,250	1,825	736	0.00

Information Block				
HP	250.0			
Sync. RPM	1800			
Frame	449			
Enclosure	TEFC			
Construction	TFN			
Voltage	460 V			
Frequency	60 Hz			
Design	A			
LR Code letter	G			
Service Factor	1.15			
Temp Rise @ FL	65 °C			
Duty	CONT			
Ambient	40 °C			
Elevation	1,000 feet			
Rotor/Shaft wk ²	81.0 Lb-Ft ²			
Ref Wdg	T449446 NONE			
Sound Pressure @ 1M	80 dBA			
VFD Rating	CONSTANT 10:1			
Outline Dwg	B-SS515631LE-2875			
Conn. Diag	A-EE7300-LE			
Additional Specifications:				
0				
0				
EQUIV CKT (OHMS / PHASE)				
R1	R2	X1	X2	Xm
0.0070	0.0070	0.0920	0.1300	2.9720



Speed - Torque Curve

