

# PRODUCT INFORMATION PACKET



Model No: 825115.00

Catalog No: 825115.00

Explosion Proof Motor, 200 & 150 HP, 3 Ph, 60 & 50 Hz, 460 & 380 V, 1800 & 1500 RPM, 445T Frame,  
EPFC



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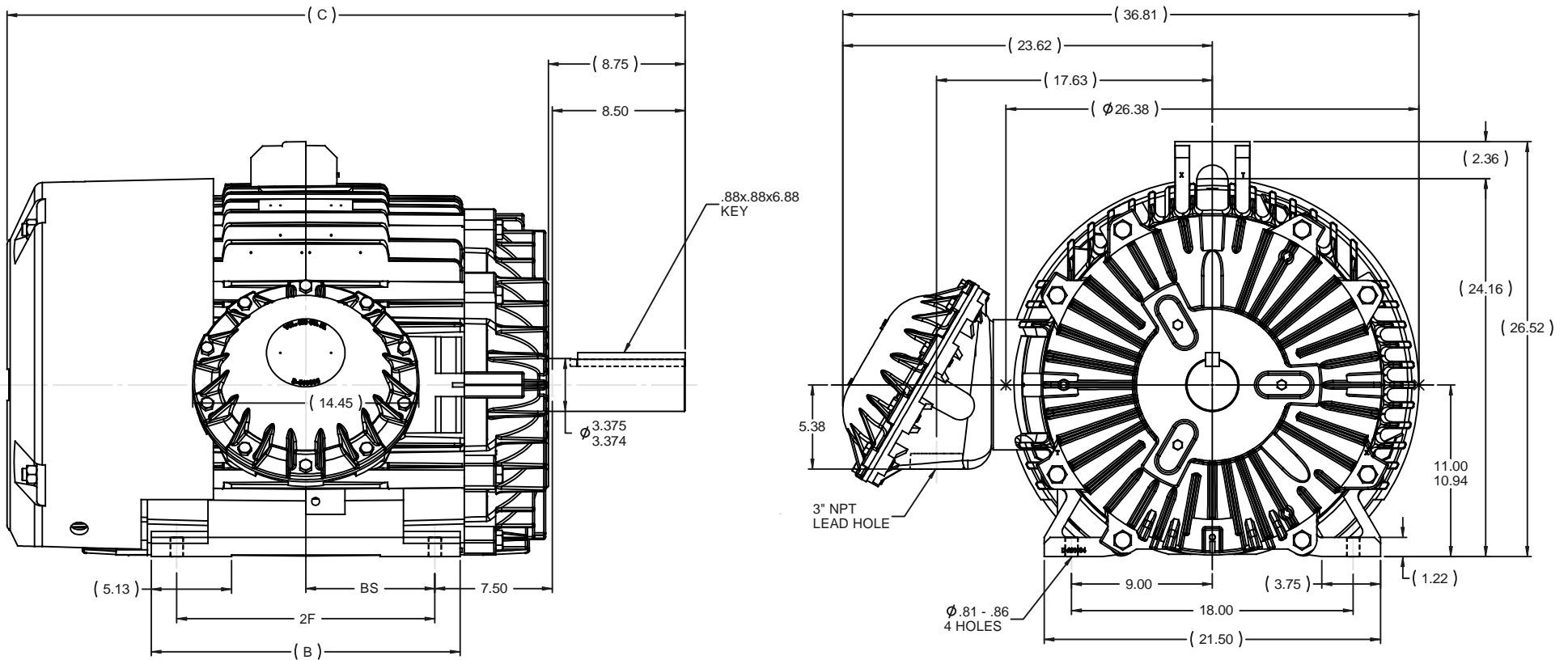
### Nameplate Specifications

Phase	<b>3</b>	Output HP	<b>200 &amp; 150 Hp</b>
Output KW	<b>149.0 &amp; 112.0 kW</b>	Voltage	<b>460 &amp; 380 V</b>
Speed	<b>1785 &amp; 1485 rpm</b>	Service Factor	<b>1.15 &amp; 1.15</b>
Frame	<b>445T</b>	Enclosure	<b>Explosion Proof Fan cooled</b>
Thermal Protection	<b>Thermostat</b>	Efficiency	<b>96.2 &amp; 95.8 %</b>
Ambient Temperature	<b>40 °C</b>	Frequency	<b>60 &amp; 50 Hz</b>
Current	<b>224 &amp; 205 A</b>	Power Factor	<b>86.5</b>
Duty	<b>Continuous</b>	Insulation Class	<b>F</b>
Design Code	<b>B</b>	KVA Code	<b>G</b>
Drive End Bearing Size	<b>6318</b>	Opp Drive End Bearing Size	<b>6316</b>
UL	<b>UL Listed And CSA Certified</b>	CSA	<b>Y</b>
CE	<b>N</b>	IP Code	<b>54</b>
Number of Speeds	<b>1</b>	Hazardous Location	<b>EXP PROOF CL I GR C&amp;D CL II GR F&amp;G T3B</b>


### Technical Specifications

Electrical Type	<b>Squirrel Cage Inverter Rated</b>	Starting Method	<b>Line Or Inverter</b>
Poles	<b>4</b>	Rotation	<b>Reversible</b>
Resistance Main	<b>.016 Ohms</b>	Mounting	<b>Rigid Base</b>
Motor Orientation	<b>Horizontal</b>	Drive End Bearing	<b>Ball</b>
Opp Drive End Bearing	<b>Ball</b>	Frame Material	<b>Cast Iron</b>
Shaft Type	<b>T</b>	Overall Length	<b>43.35 in</b>
Frame Length	<b>20.25 in</b>	Shaft Diameter	<b>3.375 in</b>
Shaft Extension	<b>8.5 in</b>	Assembly/Box Mounting	<b>F1 Only</b>
Inverter Load	<b>CONSTANT 2:1</b>		
Connection Drawing	<b>A-EE7300S-LE</b>	Outline Drawing	<b>B-SS515577LE-2025</b>



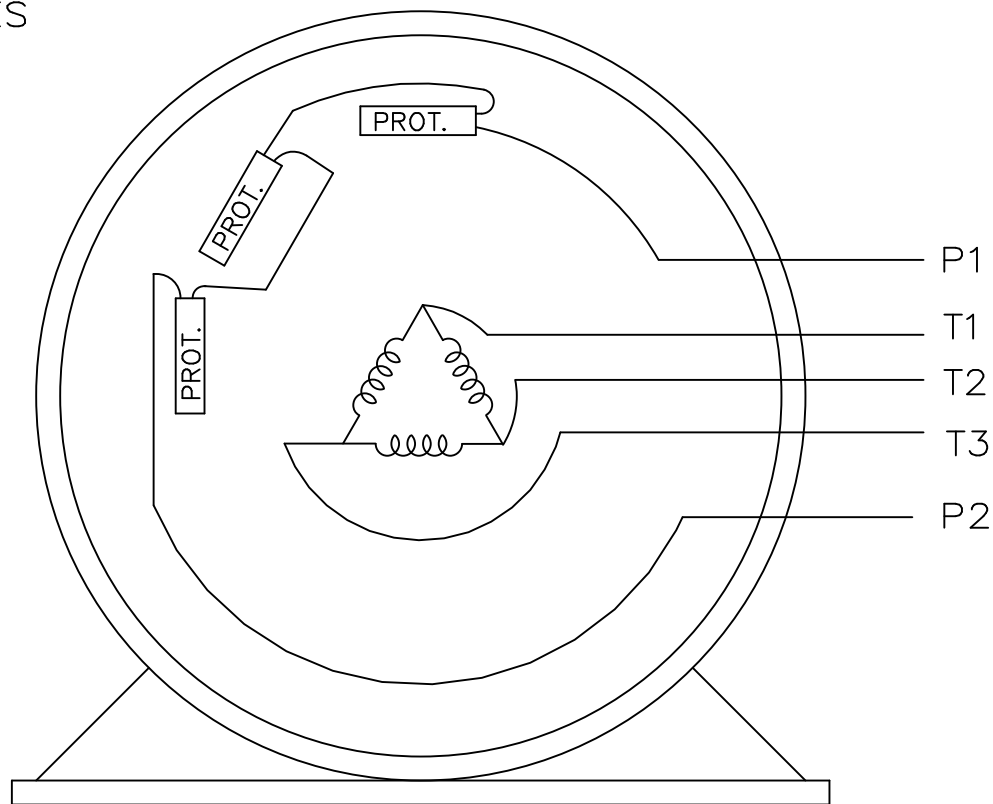


NOTES:  
1. NAMEPLATES TO BE READ FROM CONDUIT BOX SIDE OF MOTOR.

						TOLERANCES UNLESS SPECIFIED		 <b>ELECTRIC MOTORS GEARMOTORS AND DRIVES</b>		DRAWN CTO 02-20-2002	
						DEC	INCHES			CHK DRS 03-22-2002	
						x	±.1			APPR SB 03-25-2002	
3	CHANGED CONDUIT BOX PER CN 39608	TAT 05-23-2008	ML	XX	±.03	TITLE OUTLINE - EXP .PR.		SCALE 5:32			
2	REDRAWN IN AUTOCAD ADDED DIST. WA - LE	HLB 10-13-2004	ML	XXX	±.005	444/445T FR. - STD.		REF			
1	NEW DRAWING	CTO 03-27-2002	ML	XXXX	±.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	SS515577LE	SIZE	DRAWING NO	REV
						DIST	WA		<b>B</b>	<b>SS515577LE</b>	<b>3</b>

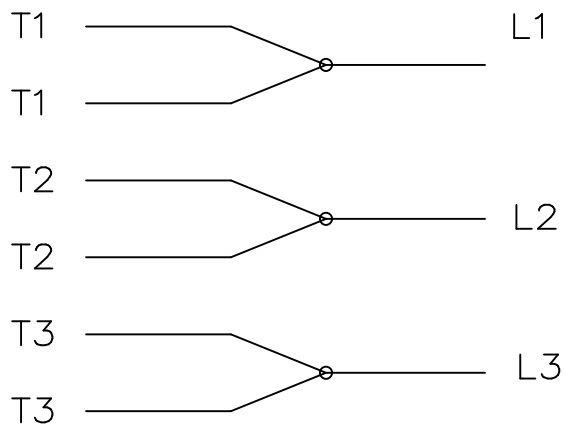
DASH	FRAME	B	C	2F	BS
1825	444T	17.75	41.35	14.50	7.25
2025	445T	19.75	43.35	16.50	8.25

SINGLE VOLTAGE  
THREE PHASE MOTOR  
WITH 2 LEADS OUT FROM PROTECTORS  
PROTECTORS CONNECTED IN SERIES




VIEW OF TERMINAL END

IF MOTOR HAS  
6 LEADS



A-9806 DECAL

				TOLERANCES UNLESS SPECIFIED		 ELECTRIC MOTORS GEARMOTORS AND DRIVES	DRAWN DRS 01-21-2003			
				DEC.	INCHES		CHK	ML 01-21-2003		
				.X	± -		APPD	TB 01-21-2003		
				.XX	± -		SCALE 1=1			
				.XXX	± -	TITLE CONNECTION DIAGRAM 3Ø - SINGLE VOLTAGE		REF		
1	NEW DRAWING CN 36098	DRS 01-21-2003	TB	.XXXX	± -	MAT'L.		FMF		
NO.	REVISION	BY & DATE	CHK	ANG	± -	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 EE7300S-			SIZE	DRAWING NO. PAGE OF	REV.
				DIST LB				A	EE7300S-LE	1



**CERTIFICATION DATA SHEET**

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

CATALOG #: 825115.00

CONN. DIAGRAM: A-EE7300S-LE

OUTLINE: B-SS515577LE-2025

MOUNTING: F1 ONLY

WINDING #: T4454188 1

**TYPICAL MOTOR PERFORMANCE DATA**

HP	kW	SYNC. RPM	F.L. RPM	FRAME	ENCLOSURE	KVA CODE	DESIGN
200&150	149&112	1800	1785&1485	445T	EPFC	G	B

PH	Hz	VOLTS	AMPS	START TYPE	DUTY	INSL	S.F.	AMB°C
3	60/50	460&380	224&205	LINE OR INVERTER	CONTINUOUS	F1	1.15/1.15	40

FULL LOAD EFF:	96.2&95.8	3/4 LOAD EFF:	96.2	1/2 LOAD EFF:	95.8	GTD. EFF		ELEC. TYPE	
FULL LOAD PF:	86.5&86	3/4 LOAD PF:	84.5	1/2 LOAD PF:	78	95.8		SQ CAGE INV RATED	

F.L. TORQUE	LOCKED ROTOR AMPS	L.R. TORQUE	B.D. TORQUE	F.L. RISE°C
589 LB-FT	1425	975 LB-FT 166 %	1450 LB-FT 246 %	75

SOUND PRESSURE @ 3 FT.	SOUND POWER	ROTOR WK^2	MAX. WK^2	SAFE STALL TIME	STARTS / HOUR	APPROX. MOTOR WGT
66 dBA	76 dBA	61 LB-FT^2	1000 LB-FT^2	25 SEC.	2	2400 LBS.

**\*\*\* SUPPLEMENTAL INFORMATION \*\*\***

DE BRACKET TYPE	ODE BRACKET TYPE	MOUNT TYPE	ORIENTATION	SEVERE DUTY	HAZARDOUS LOCATION	DRIP COVER	SCREENS	PAINT
STANDARD	STANDARD	RIGID	HORIZONTAL	FALSE	EXP PROOF CL I GR C&D CL II GR F&G T3B	FALSE	NONE	BLUE - LEESON (ENAMEL)

BEARINGS		GREASE	SHAFT TYPE	SPECIAL DE	SPECIAL ODE	SHAFT MATERIAL	FRAME MATERIAL
DE	ODE						
BALL 6318	BALL 6316	POLYREX EM	T	NONE	NONE	1045 HOT ROLLED (C-204)	CAST IRON

THERMO-PROTECTORS				THERMISTORS	CONTROL	SPACE HEATERS
THERMOSTATS	PROTECTORS	WDG RTDs	BRG RTDs			
TSTATS (N/C)	NOT	NONE	NONE	NONE	FALSE	NONE VOLTS

\*  
N  
O  
T  
E

<b>INVERTER TORQUE:</b> CONSTANT 2:1
<b>INV. HP SPEED RANGE:</b> NONE
<b>ENCODER:</b> NONE NONE NONE NONE NONE PPR
<b>BRAKE:</b> NONE NONE NONE P/N NONE NONE NONE NONE FT-LB NONE V NONE Hz

Data Sheet

Date: 1/18/2018

825115.00



Data @ **460 V**

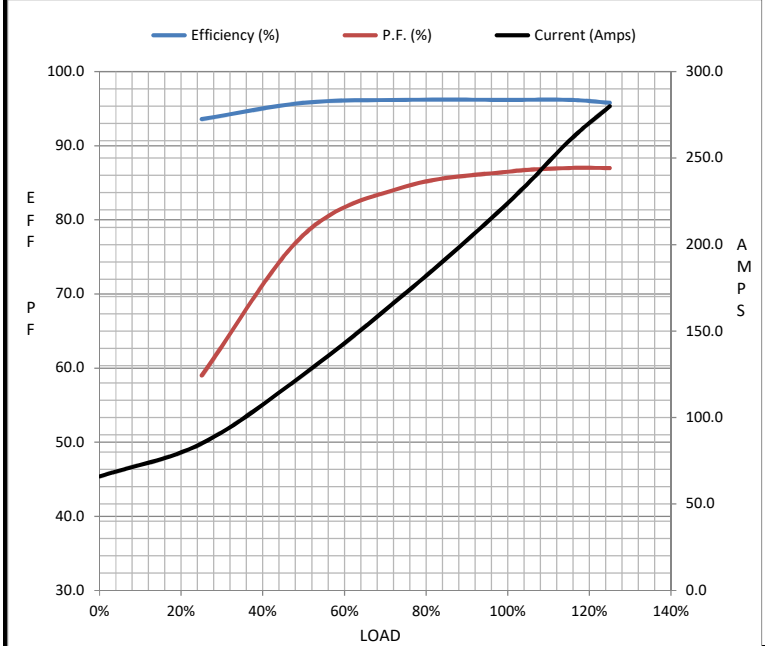
Motor Load Data

Load	0%	25%	50%	75%	100%	115%	125%	LR
Current (Amps)	66.0	85.0	125	172	224	260	280	1,425
Torque (ft-lb)	0.00	146	293	441	589	678	738	975
RPM	1800	1795	1792	1788	1785	1,782	1778	0
Efficiency (%)		93.6	95.8	96.2	96.2	96.2	95.8	
P.F. (%)	4.5	59.0	78.0	84.5	86.5	87.0	87.0	27.0

Motor Speed Data

	LR	Pull-Up	BD	Rated	Idle
Speed (RPM)	0	900	1700	1785	1800
Current (Amps)	1,425	1,300	850	224	66.0
Torque (ft-lb)	975	900	1,450	589	0.00

Information Block				
HP	200.0			
Sync. RPM	1800			
Frame	445			
Enclosure	TEFC			
Construction	TFN			
Voltage	460#380 V			
Frequency	60 Hz			
Design	A			
LR Code letter	G			
Service Factor	1.15			
Temp Rise @ FL	70 °C			
Duty	CONT			
Ambient	40 °C			
Elevation	1,000 feet			
Rotor/Shaft wk <sup>2</sup>	61.0 Lb-Ft <sup>2</sup>			
Ref Wdg	T4454188 NONE			
Sound Pressure @ 1M	75 dBA			
VFD Rating	CONSTANT 2:1			
Outline Dwg	B-SS515577LE-2025			
Conn. Diag	A-EE7300S-LE			
Additional Specifications:				
0				
0				
EQUIV CKT (OHMS / PHASE)				
R1	R2	X1	X2	Xm
0.0130	0.0110	0.1320	0.1460	3.9900



Speed - Torque Curve

