

PRODUCT INFORMATION PACKET



Model No: 825113.00

Catalog No: 825113.00

Explosion Proof Motor, 150 & 125 HP, 3 Ph, 60 & 50 Hz, 460 & 380 V, 1800 & 1500 RPM, 445T Frame,
EPFC



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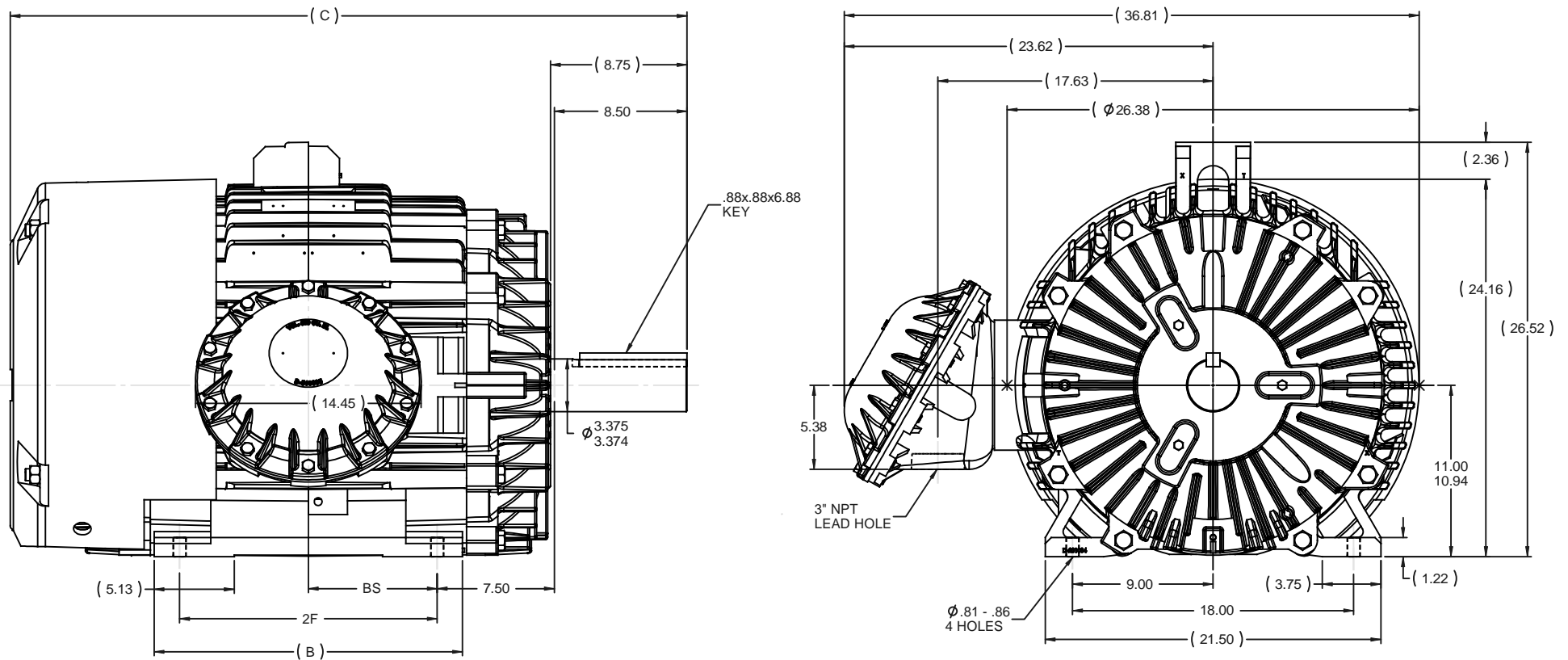


Nameplate Specifications

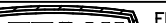
Phase	3	Output HP	150 & 125 Hp
Output KW	112.0 & 93.0 kW	Voltage	460 & 380 V
Speed	1785 & 1485 rpm	Service Factor	1.15 & 1.15
Frame	445T	Enclosure	Explosion Proof Fan cooled
Thermal Protection	Thermostat	Efficiency	95.8 & 95.4 %
Ambient Temperature	40 °C	Frequency	60 & 50 Hz
Current	168 & 170 A	Power Factor	87
Duty	Continuous	Insulation Class	F
Design Code	B	KVA Code	G
Drive End Bearing Size	6318	Opp Drive End Bearing Size	6316
UL	UL Listed And CSA Certified	CSA	Y
CE	N	IP Code	54
Number of Speeds	1	Hazardous Location	EXP PROOF CL I GR C&D CL II GR F&G T3B

Technical Specifications

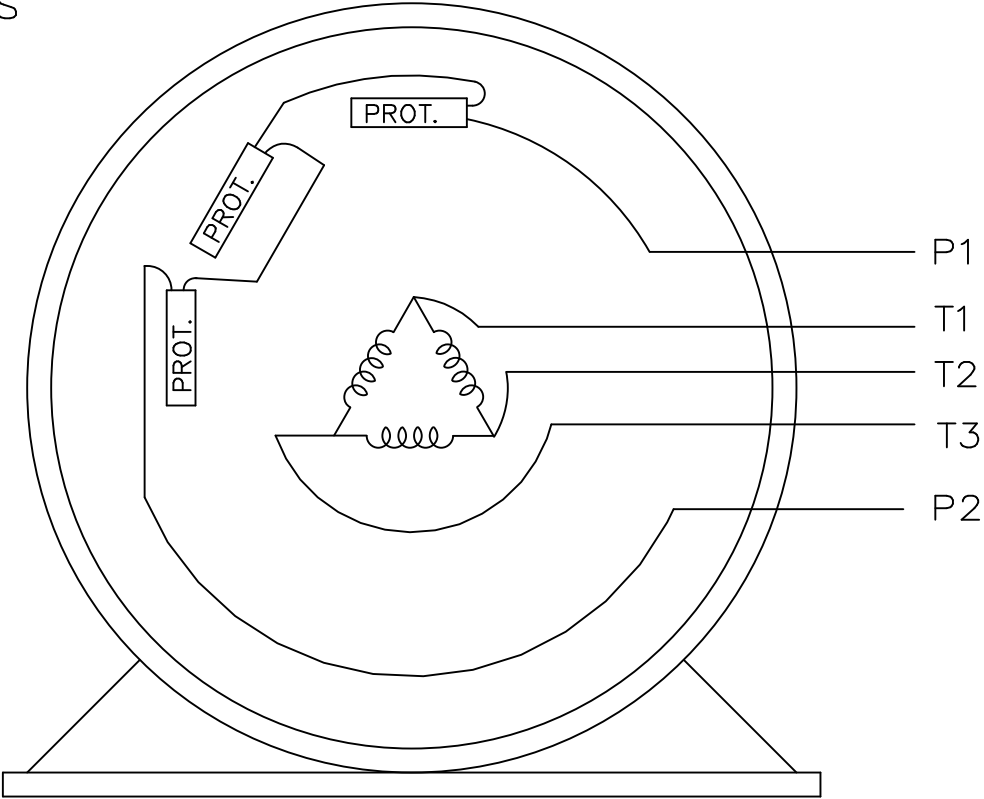
Electrical Type	Squirrel Cage Inverter Rated	Starting Method	Line Or Inverter
Poles	4	Rotation	Reversible
Resistance Main	.0258 Ohms	Mounting	Rigid Base
Motor Orientation	Horizontal	Drive End Bearing	Ball
Opp Drive End Bearing	Ball	Frame Material	Cast Iron
Shaft Type	T	Overall Length	43.35 in
Frame Length	20.25 in	Shaft Diameter	3.375 in
Shaft Extension	8.5 in	Assembly/Box Mounting	F1 Only
Inverter Load	CONSTANT 10:1		
Outline Drawing	B-SS515577LE-2025	Connection Drawing	A-EE7300S-LE



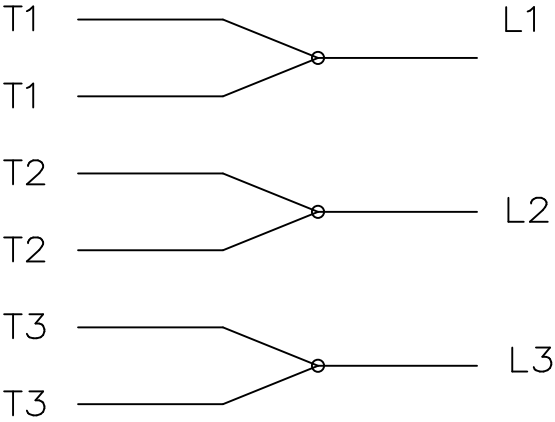
NOTES:
1. NAMEPLATES TO BE READ FROM CONDUIT BOX
SIDE OF MOTOR.

											TOLERANCES UNLESS SPECIFIED			ELECTRIC MOTORS GEARMOTORS AND DRIVES		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	05-23-2006	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		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 SS515577LE				SIZE	DRAWING NO	REV	
2025						445T	19.75	43.35	16.50	8.25	DIST		WA	B		SS515577LE		3

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




IF MOTOR HAS
6 LEADS



VIEW OF TERMINAL END

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	± -				TITLE CONNECTION DIAGRAM 3ø - SINGLE VOLTAGE			SCALE	1=1
				.XXX	± -							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****CONN. DIAGRAM:** A-EE7300S-LE**CATALOG #:** 825113.00**OUTLINE:** B-SS515577LE-2025**MOUNTING:** F1 ONLY**WINDING #:** T4454170 1**TYPICAL MOTOR PERFORMANCE DATA**

HP	kW	SYNC. RPM	F.L. RPM	FRAME	ENCLOSURE	KVA CODE	DESIGN
150&125	112&93.0	1800	1785&1485	445T	EPFC	G	B

PH	Hz	VOLTS	AMPS	START TYPE	DUTY	INSL	S.F.	AMB°C
3	60/50	460&380	168&170	LINE OR INVERTER	CONTINUOUS	F1	1.15/1.15	40

FULL LOAD EFF:	95.8&95.4	3/4 LOAD EFF:	95.8	1/2 LOAD EFF:	95.4	GTD. EFF		ELEC. TYPE
FULL LOAD PF:	87&87	3/4 LOAD PF:	85	1/2 LOAD PF:	78	95.4		SQ CAGE INV RATED

F.L. TORQUE	LOCKED ROTOR AMPS	L.R. TORQUE	B.D. TORQUE	F.L. RISE°C
441 LB-FT	1085	765 LB-FT 173 %	1150 LB-FT 261 %	60

SOUND PRESSURE @ 3 FT.	SOUND POWER	ROTOR WK^2	MAX. WK^2	SAFE STALL TIME	STARTS / HOUR	APPROX. MOTOR WGT
66 dBA	76 dBA	59 LB-FT^2	- LB-FT^2	25 SEC.	-	2350 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	BALL	POLYREX EM	T	NONE	NONE	1045 HOT ROLLED (C-204)	CAST IRON
6318	6316						

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

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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

NONE FT-LB NONE V NONE Hz

Data Sheet

Date: 1/29/2018

825113.00



Data @ 460 V

Motor Load Data

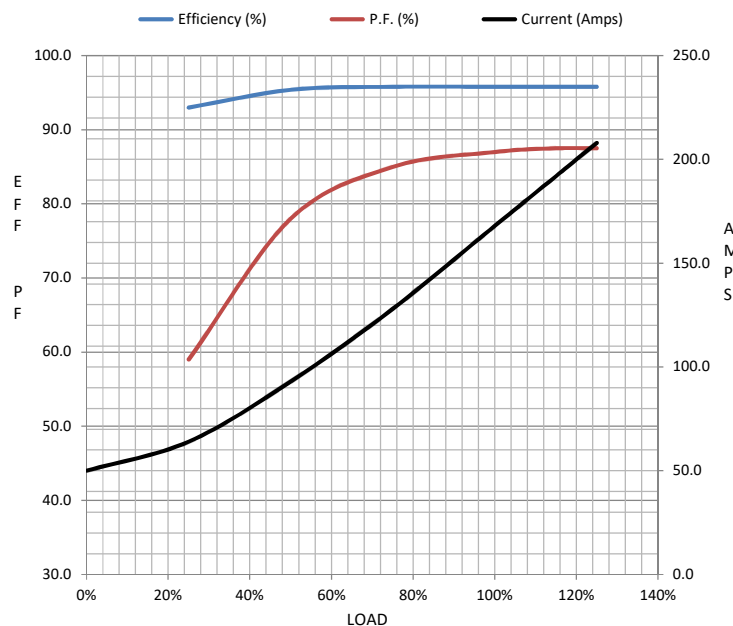
Load	0%	25%	50%	75%	100%	115%	125%	LR	
Current (Amps)	50.0	64.0	93.0	128	168	192	208	1,085	
Torque (ft-lb)	0.00	110	220	330	441	508	552	765	
RPM	1800	1796	1792	1790	1785	1,783	1782	0	
Efficiency (%)		93.0	95.4	95.8	95.8	95.8	95.8		
P.F. (%)	4.5	59.0	78.0	85.0	87.0	87.5	87.5	27.0	

Motor Speed Data

	LR	Pull-Up	BD	Rated	Idle
Speed (RPM)	0	900	1725	1785	1800
Current (Amps)	1,085	900	650	168	50.0
Torque (ft-lb)	765	675	1,150	441	0.00

Information Block

HP	150.0			
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	60 °C			
Duty	CONT			
Ambient	40 °C			
Elevation	1,000 feet			
Rotor/Shaft wk²	59.0 Lb-Ft²			
Ref Wdg	T4454170 NONE			
Sound Pressure @ 1M	75 dBA			
VFD Rating	CONSTANT 10:1			
Outline Dwg	B-SS515577LE-2025			
Conn. Diag	A-EE7300S-LE			
Additional Specifications:				
0				
0				
EQUIV CKT (OHMS / PHASE)				
R1	R2	X1	X2	Xm
0.0200	0.0120	0.1610	0.1740	5.1880



Speed - Torque Curve

