

PRODUCT INFORMATION PACKET



Model No: 825112.00

Catalog No: 825112.00

Explosion Proof Motor, 150 & 125 HP, 3 Ph, 60 & 50 Hz, 460 & 380 V, 3600 & 3000 RPM, 445TS Frame,
EPFC



Regal and Leeson are trademarks of Regal Rexnord Corporation or one of its affiliated companies.

©2023 Regal Rexnord Corporation, All Rights Reserved. MC017097E



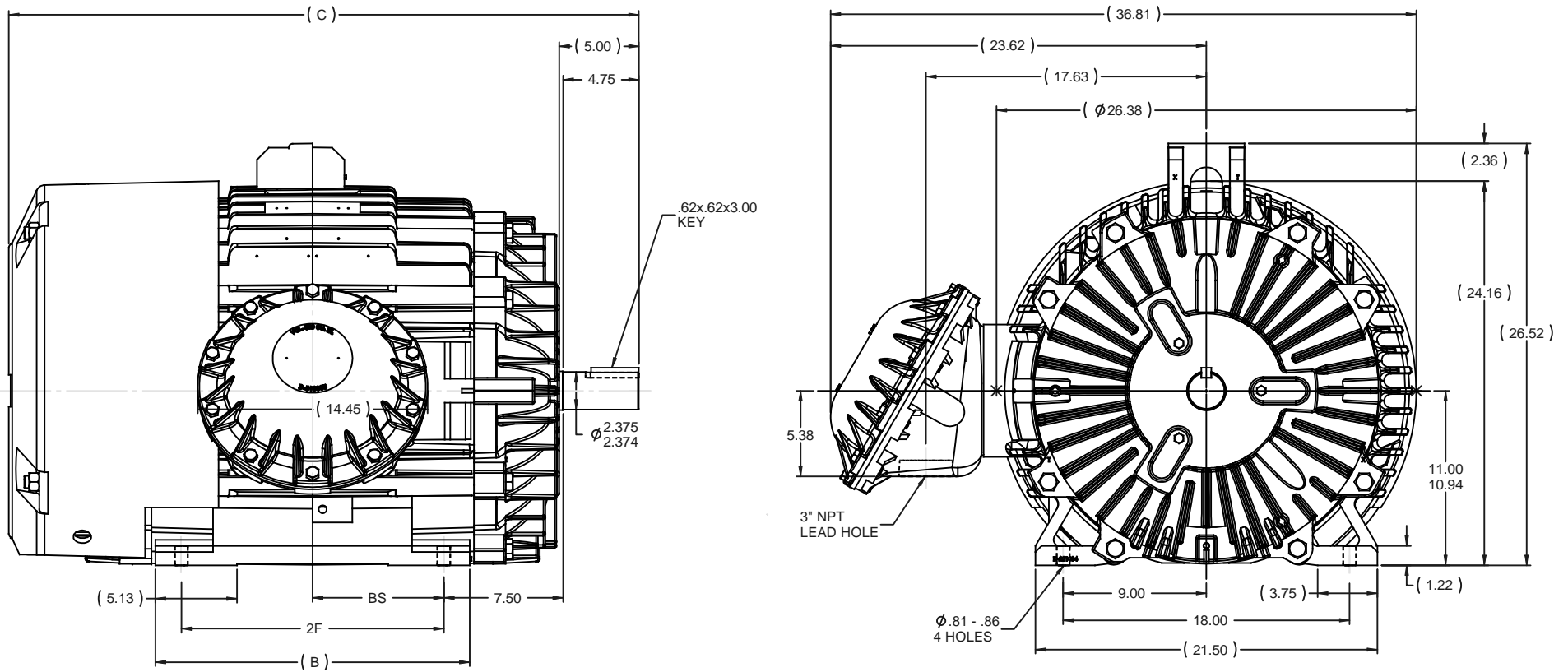


Nameplate Specifications


Phase	3	Output HP	150 & 125 Hp
Output KW	112.0 & 93.0 kW	Voltage	460 & 380 V
Speed	3575 & 2975 rpm	Service Factor	1.15 & 1.15
Frame	445TS	Enclosure	Explosion Proof Fan cooled
Thermal Protection	Thermostat	Efficiency	95.8 & 95.4 %
Ambient Temperature	40 °C	Frequency	60 & 50 Hz
Current	168 & 168 A	Power Factor	88
Duty	Continuous	Insulation Class	B
Design Code	B	KVA Code	G
Drive End Bearing Size	6313	Opp Drive End Bearing Size	6313
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

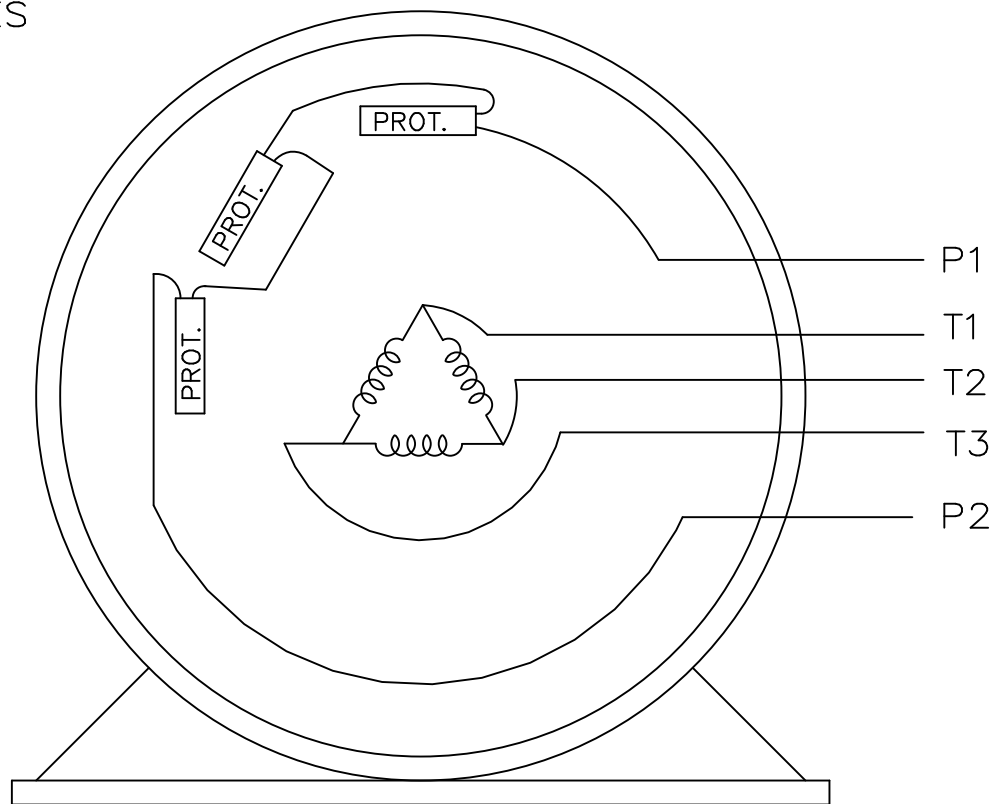
Electrical Type	Squirrel Cage Inverter Rated	Starting Method	Line Or Inverter
Poles	2	Rotation	Reversible
Resistance Main	.018 Ohms	Mounting	Rigid Base
Motor Orientation	Horizontal	Drive End Bearing	Ball
Opp Drive End Bearing	Ball	Frame Material	Cast Iron
Shaft Type	TS	Overall Length	39.60 in
Frame Length	20.25 in	Shaft Diameter	2.375 in
Shaft Extension	4.75 in	Assembly/Box Mounting	F1 Only
Inverter Load	CONSTANT 2:1		
Outline Drawing	B-SS515918LE-2025	Connection Drawing	A-EE7300S-LE



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

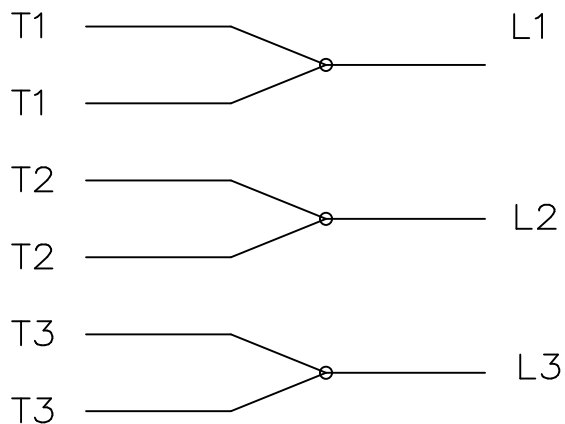
						TOLERANCES UNLESS SPECIFIED		 ELECTRIC MOTORS GEARMOTORS AND DRIVES		DRAWN NJS 02-21-2002	
						DEC	INCHES			CHK ML 04-26-2002	APPR SB 04-26-2002
						x	±.1	TITLE OUTLINE - EXP .PR. 444/445TS FR. - STD. - TGN		SCALE 5:32	
3	CHANGED CONDUIT BOX PER CN 39608	TAT	07-03-2008	ML	XX	±.03	REF			FMF	
2	REDRAWN IN AUTOCAD ADDED DISTR. WA - LE	HLB	10-13-2004	ML	XXX	±.005			PREV		REV
1	NEW DRAWING	NJS	04-26-2002	ML	XXXX	±.0005	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 SS515918LE DIST WA
NO REVISION						CHK			ANG	±7'30"	FINISH
DASH	FRAME	B	C	2F	BS			SIZE	DRAWING NO	REV	
1825	444TS	17.75	37.60	14.50	7.25			B	SS515918LE	3	
2025	445TS	19.75	39.60	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	± -		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 #: 825112.00

OUTLINE: B-SS515918LE-2025

MOUNTING: F1 ONLY

WINDING #: T445276 1

TYPICAL MOTOR PERFORMANCE DATA

HP	kW	SYNC. RPM	F.L. RPM	FRAME	ENCLOSURE	KVA CODE	DESIGN
150&125	112&93.0	3600	3575&2975	445TS	EPFC	G	B

PH	Hz	VOLTS	AMPS	START TYPE	DUTY	INSL	S.F.	AMB°C
3	60/50	460&380	168&168	LINE OR INVERTER	CONTINUOUS	B1	1.15/1.15	40

FULL LOAD EFF:	95.8&95.4	3/4 LOAD EFF:	95.8	1/2 LOAD EFF:	95	GTD. EFF	ELEC. TYPE
FULL LOAD PF:	88&88	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
221 LB-FT	1085	275 LB-FT 124 %	640 LB-FT 288 %	60

SOUND PRESSURE @ 3 FT.	SOUND POWER	ROTOR WK^2	MAX. WK^2	SAFE STALL TIME	STARTS / HOUR	APPROX. MOTOR WGT
78 dBA	88 dBA	31 LB-FT^2	120 LB-FT^2	15 SEC.	2	2200 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	TS	NONE	NONE	1045 HOT ROLLED (C-204)	CAST IRON
6313	6313						

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

INVERTER TORQUE: CONSTANT 2:1
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

825112.00



Data @ **460 V**

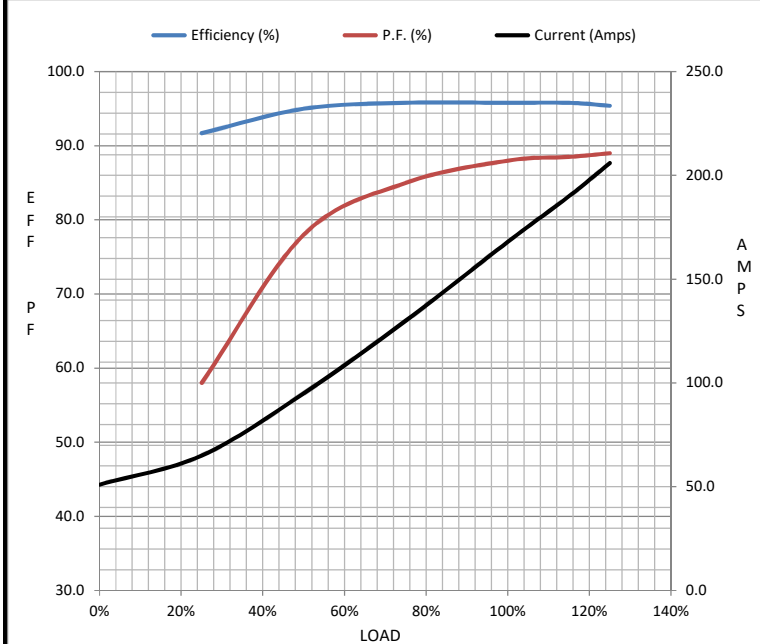
Motor Load Data

Load	0%	25%	50%	75%	100%	115%	125%	LR
Current (Amps)	51.0	65.0	95.0	130	168	190	206	1,085
Torque (ft-lb)	0.00	55.0	110	165	221	254	276	275
RPM	3600	3595	3588	3582	3575	3,570	3568	0
Efficiency (%)		91.7	95.0	95.8	95.8	95.8	95.4	
P.F. (%)	5.0	58.0	78.0	85.0	88.0	88.5	89.0	21.0

Motor Speed Data

	LR	Pull-Up	BD	Rated	Idle
Speed (RPM)	0	1800	3300	3575	3600
Current (Amps)	1,085	977	700	168	51.0
Torque (ft-lb)	275	248	640	221	0.00

Information Block				
HP	150.0			
Sync. RPM	3600			
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	65 °C			
Duty	CONT			
Ambient	40 °C			
Elevation	1,000 feet			
Rotor/Shaft wk ²	31.0 Lb-Ft ²			
Ref Wdg	T445276 NONE			
Sound Pressure @ 1M	78 dBA			
VFD Rating	CONSTANT 2:1			
Outline Dwg	B-SS515918LE-2025			
Conn. Diag	A-EE7300S-LE			
Additional Specifications:				
0				
0				
EQUIV CKT (OHMS / PHASE)				
R1	R2	X1	X2	Xm
0.0140	0.0130	0.1660	0.1400	5.1600



Speed - Torque Curve

