

PRODUCT INFORMATION PACKET



Model No: 825114.00

Catalog No: 825114.00

Explosion Proof Motor, 200 & 150 HP, 3 Ph, 60 & 50 Hz, 460 & 380 V, 3600 & 3000 RPM, 445TS Frame,
EPFC



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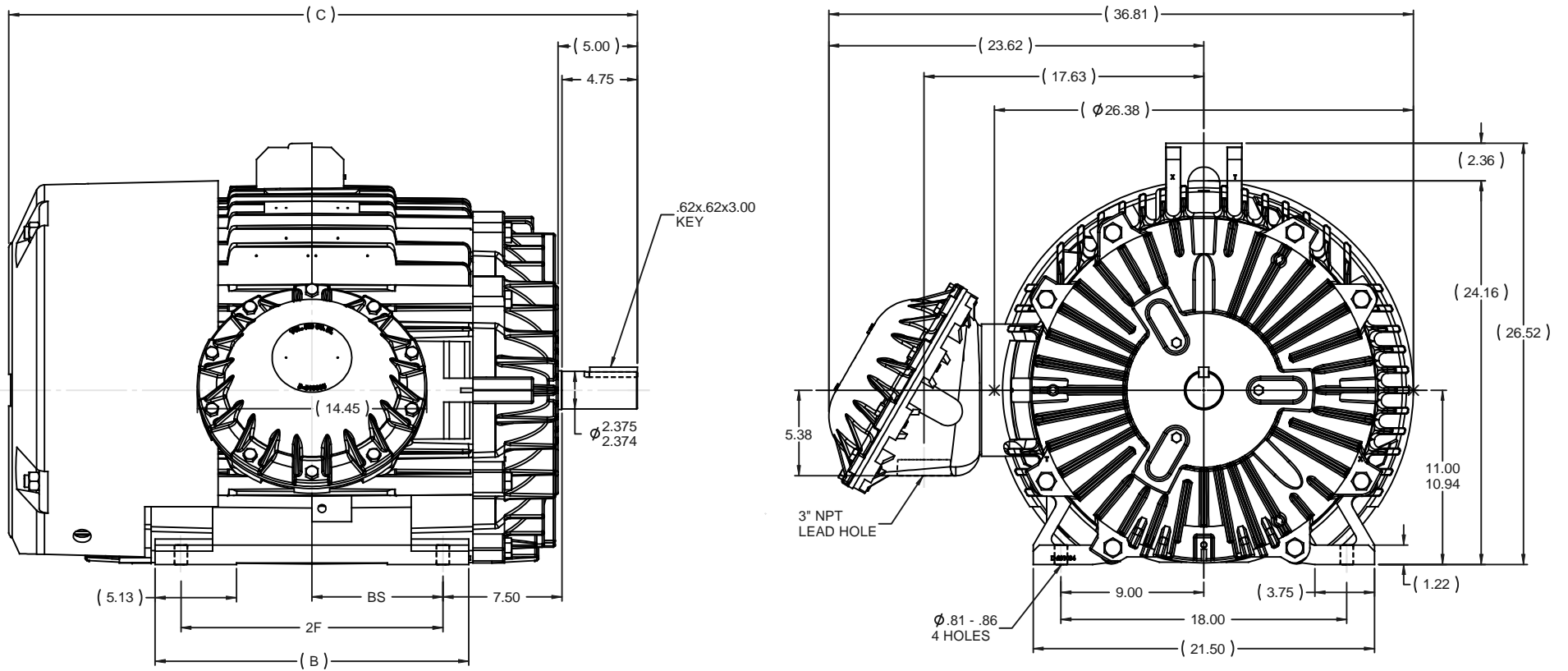


Nameplate Specifications


Phase	3	Output HP	200 & 150 Hp
Output KW	149.0 & 112.0 kW	Voltage	460 & 380 V
Speed	3575 & 2978 rpm	Service Factor	1.15 & 1.15
Frame	445TS	Enclosure	Explosion Proof Fan cooled
Thermal Protection	Thermostat	Efficiency	95.4 & 95 %
Ambient Temperature	40 °C	Frequency	60 & 50 Hz
Current	224 & 205 A	Power Factor	88
Duty	Continuous	Insulation Class	F
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	.0125 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

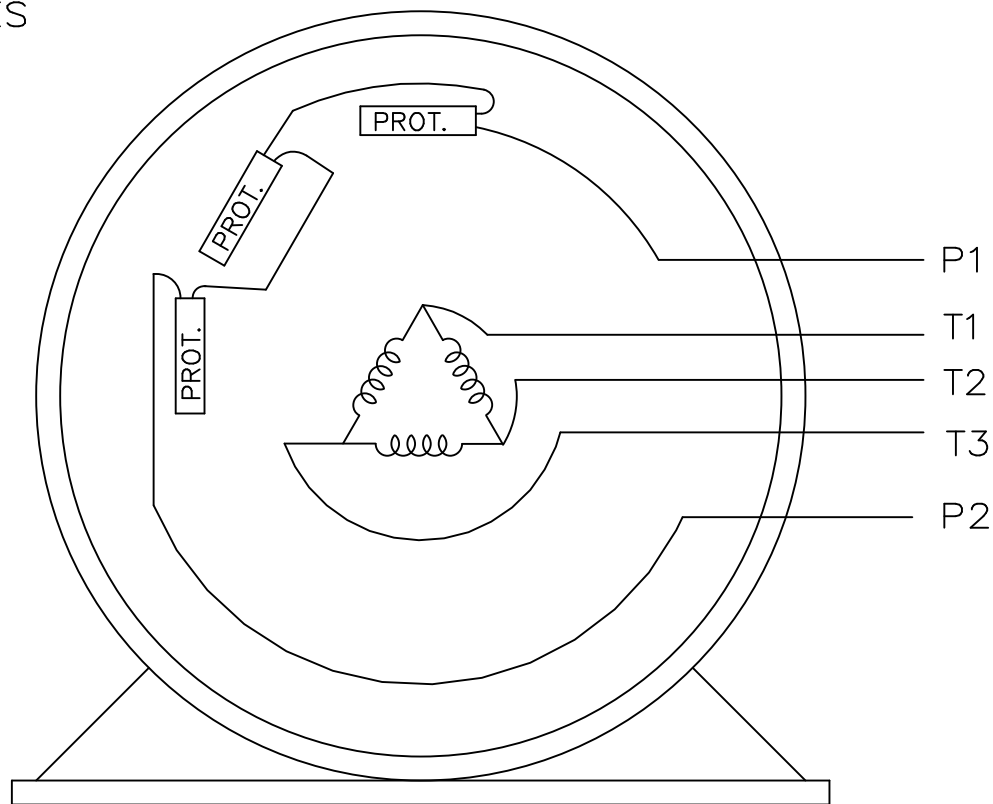


NOTES:
1. NAMEPLATES TO BE READ FROM CONDUIT BOX SIDE OF MOTOR.

						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	FINISH CAD FILE SS515918LE RFP DIST WA				SIZE B DRAWING NO SS515918LE REV 3
NO REVISION						CHK			ANG	±7'30"	
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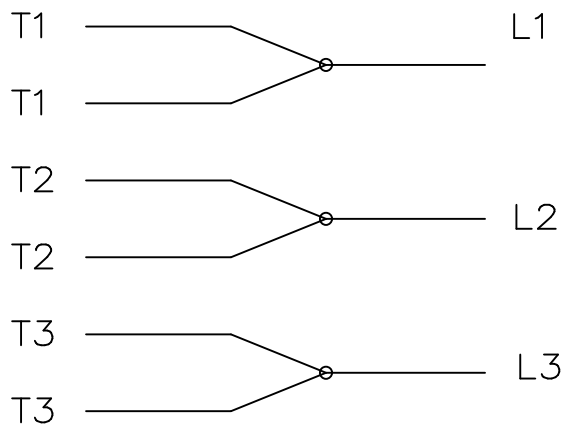
DASH	FRAME	B	C	2F	BS
1825	444TS	17.75	37.60	14.50	7.25
2025	445TS	19.75	39.60	16.50	8.25

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		
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				DIST LB			A	EE7300S-LE	1

Data Sheet

Date: 2/1/2018

825114.00



Data @ 460 V

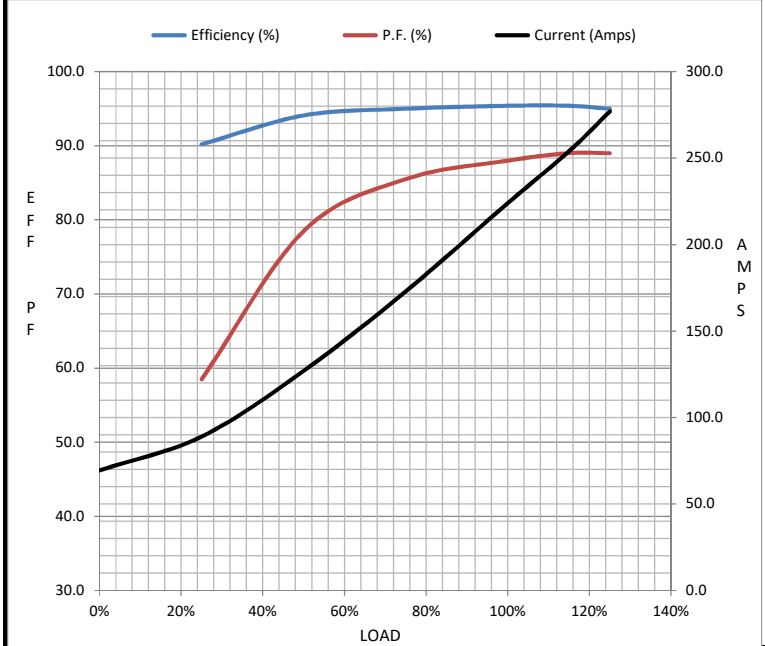
Motor Load Data

Load	0%	25%	50%	75%	100%	115%	125%	LR
Current (Amps)	69.5	89.0	127	173	224	254	277	1,450
Torque (ft-lb)	0.00	73.0	147	220	294	338	368	500
RPM	3600	3595	3590	3580	3575	3,570	3565	0
Efficiency (%)		90.2	94.1	95.0	95.4	95.4	95.0	
P.F. (%)	6.8	58.5	78.5	85.5	88.0	89.0	89.0	25.0

Motor Speed Data

	LR	Pull-Up	BD	Rated	Idle
Speed (RPM)	0	1800	3430	3575	3600
Current (Amps)	1,450	1,210	950	224	69.5
Torque (ft-lb)	500	415	870	294	0.00

Information Block				
HP	200.0			
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	75 °C			
Duty	CONT			
Ambient	40 °C			
Elevation	1,000 feet			
Rotor/Shaft wk ²	33.5 Lb-Ft ²			
Ref Wdg	T445280 NONE			
Sound Pressure @ 1M	80 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
0.0100	0.0090	0.1210	0.0920	3.8340



Speed - Torque Curve

