

PRODUCT INFORMATION PACKET

Model No: 825110.00

Catalog No: 825110.00

Explosion Proof Motor, 125 HP, 3 Ph, 60 Hz, 230/460 V, 3600 RPM, 444TS Frame, EPFC



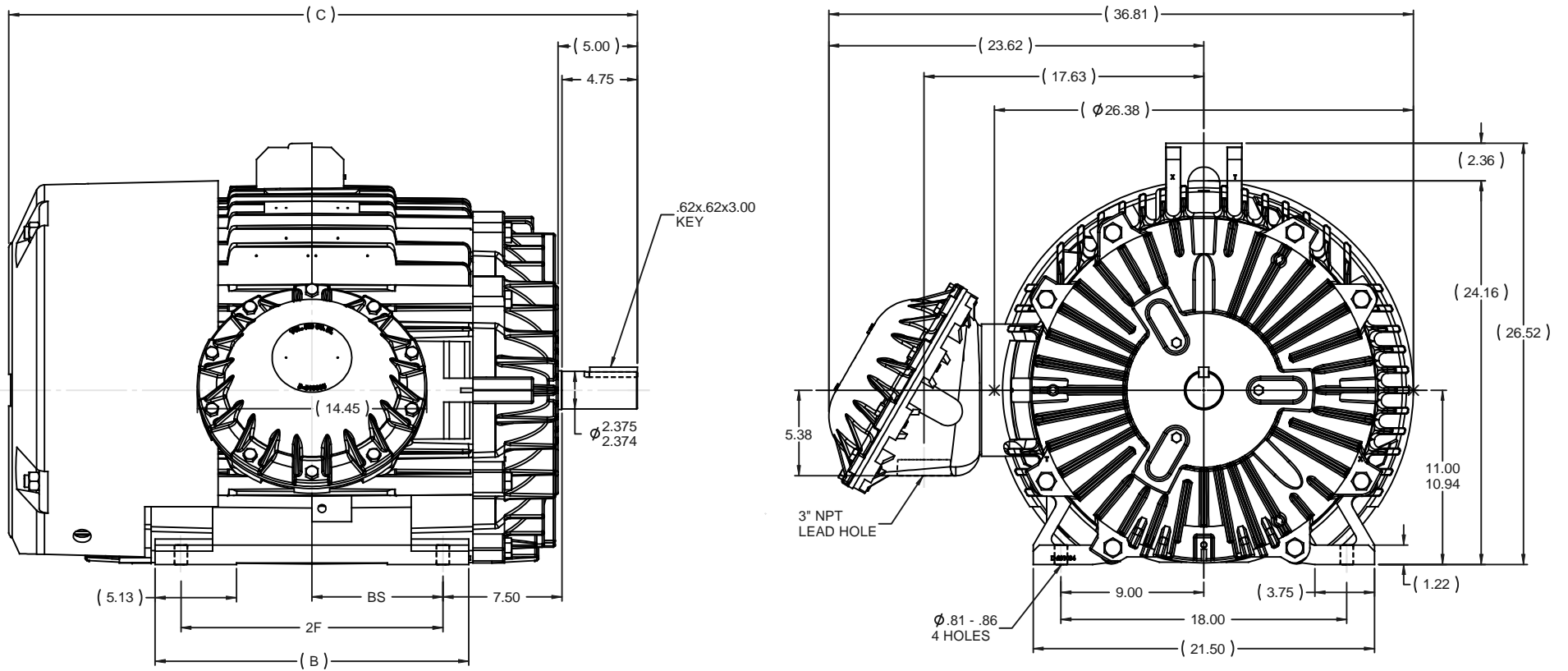
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Nameplate Specifications


Output HP	125 Hp	Output KW	93.0 kW
Frequency	60 Hz	Voltage	230/460 V
Current	278.0/139.0 A	Speed	3575 rpm
Service Factor	1.15	Phase	3
Efficiency	95.4 %	Power Factor	87.5
Duty	Continuous	Insulation Class	F
Design Code	B	KVA Code	G
Frame	444TS	Enclosure	Explosion Proof Fan cooled
Thermal Protection	Thermostat	Ambient Temperature	40 °C
Drive End Bearing Size	6313	Opp Drive End Bearing Size	6313
UL	UL Listed And CSA Certified	CSA	Y
CE	N	IP Code	54
Hazardous Location	EXP PROOF CL I GR D CL II GR F&G T3B	Number of Speeds	1

Technical Specifications

Electrical Type	Squirrel Cage Inverter Rated	Starting Method	Line Or Inverter
Poles	2	Rotation	Reversible
Resistance Main	.0221 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	37.60 in
Frame Length	18.25 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-1825	Connection Drawing	A-EE7308K



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


LOW VOLTAGE



HIGH VOLTAGE



VIEW OF TERMINAL END

				TOLERANCES UNLESS SPECIFIED		 REGAL - BELOIT CORPORATION	DRAWN PGK 06-04-1997			
NO.	REVISION	BY & DATE	CHK	ANG	±		UNIT	CHK	ML 06-05-1997	
E	CORRECTED IEC MARKINGS ECD-0111208	WGJ 01-23-2017	EMH	DEC.		INCHES		APPD	GK 06-15-1997	
D	RE-DRAWN WITH REGAL LOGO ECD-0110493	WGJ 09-30-2016	EMH	.X	±.1					
8	ADDED IEC DESIGNATIONS MU95020	TJW 4/30/2010	MJS	.XX	±.02		TITLE		SCALE	
7	REVISED HIGH VOLTAGE L2 WAS L3 CN52600-354	MRB 09-21-1998		.XXX	±.005		CONNECTION DIAGRAM		REF	
6	REDRAWN ON CADD	PGK 06-05-1997		.XXXX	±.0005		DELTA CON. - 3Ø - 9 LEADS		FMF	
					±7'30"		MAT'L.		PREV	
			RFP				FINISH			
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							A	EE7308K	E	

Data Sheet

Date: 2/1/2018

825110.00



Data @ 460 V

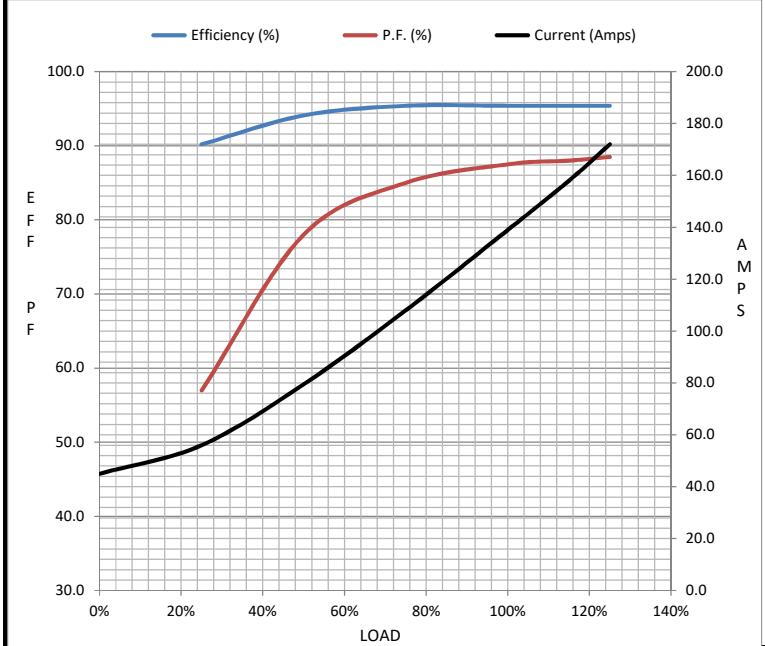
Motor Load Data

Load	0%	25%	50%	75%	100%	115%	125%	LR
Current (Amps)	45.0	56.0	79.5	108	139	158	172	907
Torque (ft-lb)	0.00	46.0	92.0	139	184	212	231	240
RPM	3600	3595	3590	3582	3575	3,572	3570	0
Efficiency (%)		90.2	94.1	95.4	95.4	95.4	95.4	
P.F. (%)	6.0	57.0	78.0	85.0	87.5	88.0	88.5	21.0

Motor Speed Data

	LR	Pull-Up	BD	Rated	Idle
Speed (RPM)	0	1800	3430	3575	3600
Current (Amps)	907	860	600	139	45.0
Torque (ft-lb)	240	205	525	184	0.00

Information Block				
HP	125.0			
Sync. RPM	3600			
Frame	444			
Enclosure	TEFC			
Construction	TFN			
Voltage	230/460 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 wk ²	27.0 Lb-Ft ²			
Ref Wdg	T444250 NONE			
Sound Pressure @ 1M	78 dBA			
VFD Rating	CONSTANT 2:1			
Outline Dwg	B-SS515918LE-1825			
Conn. Diag	A-EE7308K			
Additional Specifications:				
0				
0				
EQUIV CKT (OHMS / PHASE)				
R1	R2	X1	X2	Xm
0.0180	0.0140	0.2090	0.1380	5.8990



Speed - Torque Curve

