

PRODUCT INFORMATION PACKET



Model No: 825102.00

Catalog No: 825102.00

Explosion Proof Motor, 50 & 40 HP, 3 Ph, 60 & 50 Hz, 230/460 & 190/380 V, 3600 & 3000 RPM,
326TS 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



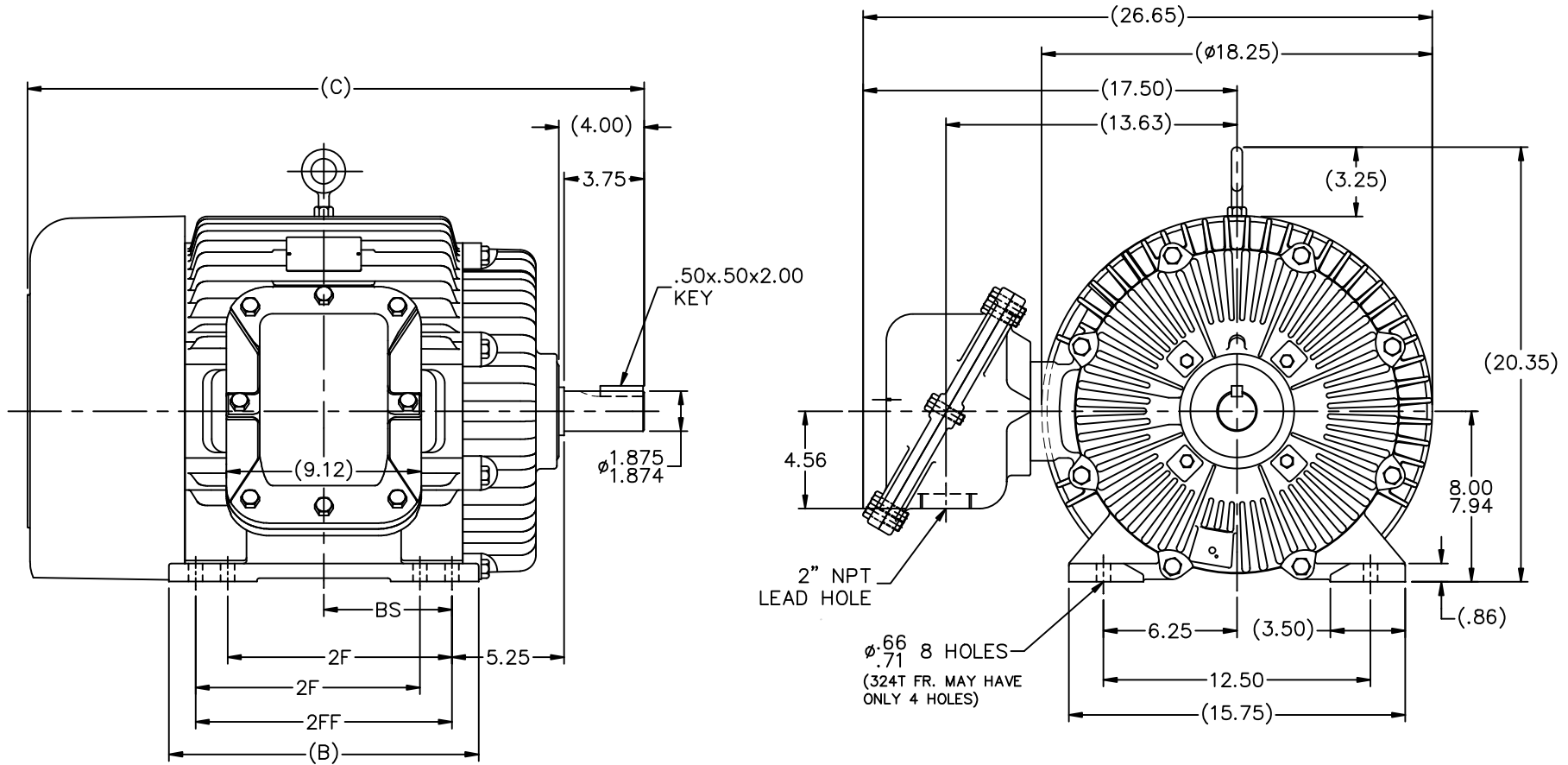


Nameplate Specifications

Phase	3	Output HP	50 & 40 Hp
Output KW	37.0 & 30.0 kW	Voltage	230/460 & 190/380 V
Speed	3545 & 2958 rpm	Service Factor	1.15 & 1.15
Frame	326TS	Enclosure	Explosion Proof Fan cooled
Thermal Protection	Thermostat	Efficiency	93.6 & 93.6 %
Ambient Temperature	40 °C	Frequency	60 & 50 Hz
Current	116/58 & 110/55 A	Power Factor	86
Duty	Continuous	Insulation Class	F
Design Code	B	KVA Code	G
Drive End Bearing Size	312	Opp Drive End Bearing Size	311
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	.102 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	30.37 in
Frame Length	14.50 in	Shaft Diameter	1.875 in
Shaft Extension	3.75 in	Assembly/Box Mounting	F1 Only
Inverter Load	CONSTANT 2:1		
Outline Drawing	B-SS301044LE-1450	Connection Drawing	A-EE7308AD-LE



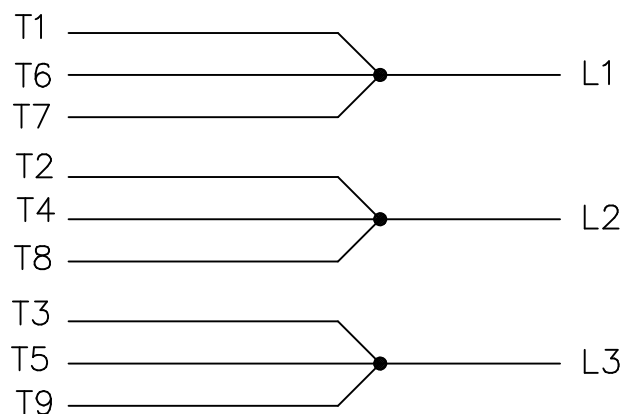
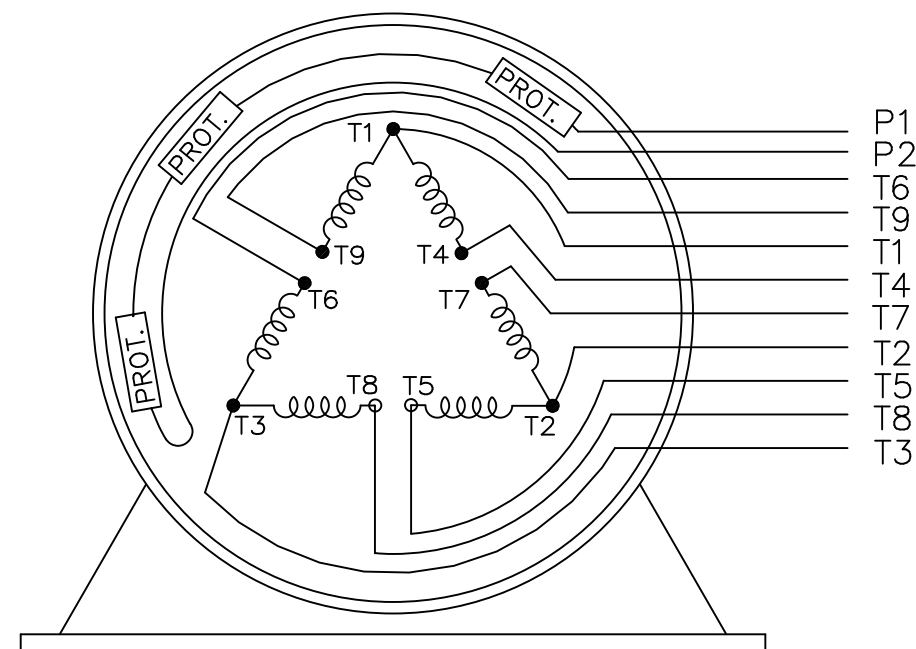
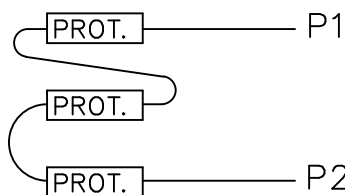
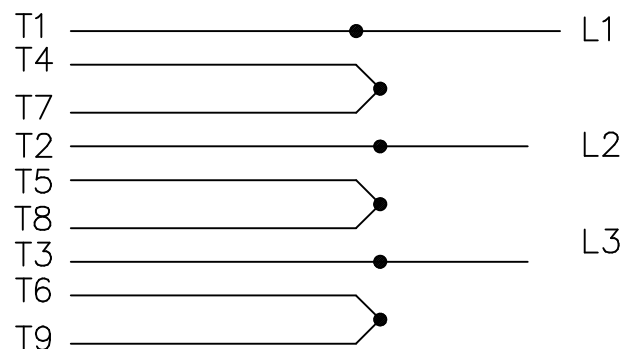
NOTES:

1. BOX CAN BE ROTATED IN 90° STEPS.
2. BOX CAN BE MOUNTED ON OPPOSITE SIDE BY REMOVING BRACKETS AND TURNING FRAME 180°.
3. NAMEPLATE TO BE READ FROM CONDUIT BOX SIDE OF MOTOR.


DASH	FRAME	B	C	2F	2FF	BS
1150	324TS	13.00	27.37	10.50	—	5.25
1300	324/6TS	14.50	28.87	10.50	12.00	6.00
1450	326TS	15.00	30.37	12.00	13.50	6.75

TOLERANCES UNLESS SPECIFIED		DEC. INCHES		ELECTRIC MOTORS GEARMOTORS AND DRIVES		DRAWN EDK 03-15-2011	
		.X		LEESON		CHK BW 03-15-2011	
		.XX		TITLE OUTLINE		APPD DJK 03-15-2011	
		.XXX		320TS FR. - BB - TS - EXP.PR.		SCALE 1=5	
		.XXXX		MAT'L		REF	
NO.		REVISION		BY & DATE		FMF MU101159	
		CHK ANG $\pm 7'30''$		FINISH		PREV	
		RFP 03-15-2011		CAD FILE SS301044LE		SIZE B	
		DIST				DRAWING NO. PAGE OF	
						SS301044LE	

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.

LOW VOLTAGEHIGH VOLTAGEVIEW OF TERMINAL END

WHEN MORE THAN ONE PROT. IS USED; PROT. ARE CONNECTED IN SERIES

				TOLERANCES UNLESS SPECIFIED		 ELECTRIC MOTORS GEARMOTORS AND DRIVES	DRAWN NJS 05-15-2002					
				DEC.	INCHES		CHK	ML	05-20-2002			
				.X	±.1		APPD	TB	05-20-2002			
				.XX	±.02		SCALE					
2	HIGH VOLT. SCHEMATIC WAS L1, L3, & L3	CN 32724	DRS 06-12-2004	ML	.XXX	±.005	TITLE CONNECTION DIAGRAM 3ø – WITH PROTECTORS			REF		
1	NEW DRAWING	CN 35132	NJS 05-20-2002	TB	.XXXX	±.0005	MAT'L.			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 ee7308ad_le		SIZE	DRAWING NO.	PAGE	OF	REV.
				DIST WA-LB				A	EE7308AD-LE			



CERTIFICATION DATA SHEET

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

CATALOG #: 825102.00

CONN. DIAGRAM: A-EE7308AD-LE

OUTLINE: B-SS301044LE-1450

MOUNTING: F1 ONLY

WINDING #: 326269 1

TYPICAL MOTOR PERFORMANCE DATA

HP	kW	SYNC. RPM	F.L. RPM	FRAME	ENCLOSURE	KVA CODE	DESIGN
50&40	37.0&30.0	3600	3545&2958	326TS	EPFC	G	B

PH	Hz	VOLTS	AMPS	START TYPE	DUTY	INSL	S.F.	AMB°C
3	60/50	230/460&190/380	116/58&110/55	LINE OR INVERTER	CONTINUOUS	F3	1.15/1.15	40

FULL LOAD EFF:	93.6&93.6	3/4 LOAD EFF:	93.6	1/2 LOAD EFF:	93	GTD. EFF	ELEC. TYPE
FULL LOAD PF:	86&87	3/4 LOAD PF:	84	1/2 LOAD PF:	76.5	93	SQ CAGE INV RATED

F.L. TORQUE	LOCKED ROTOR AMPS	L.R. TORQUE	B.D. TORQUE	F.L. RISE°C
74 LB-FT	660 / 330	112 LB-FT 151 %	190 LB-FT 257 %	75

SOUND PRESSURE @ 3 FT.	SOUND POWER	ROTOR WK^2	MAX. WK^2	SAFE STALL TIME	STARTS / HOUR	APPROX. MOTOR WGT
72 dBA	82 dBA	5.8 LB-FT^2	27 LB-FT^2	15 SEC.	2	725 LBS.

*** SUPPLEMENTAL INFORMATION ***

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

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
312	311						

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
FT-LB V NONE Hz

Data Sheet

Date: 1/18/2018

825102.00



Data @ 460 V

Motor Load Data

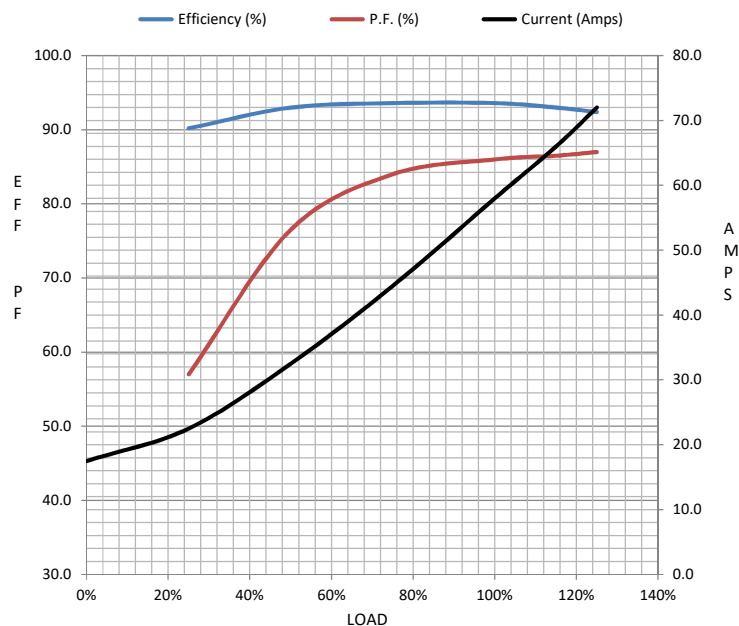
Load	0%	25%	50%	75%	100%	115%	125%	LR	
Current (Amps)	17.5	22.5	32.5	44.5	58.0	66.0	72.0	330	
Torque (ft-lb)	0.00	18.0	37.0	55.0	74.0	85.0	93.0	112	
RPM	3600	3590	3575	3560	3545	3,535	3530	0	
Efficiency (%)		90.2	93.0	93.6	93.6	93.0	92.4		
P.F. (%)	7.8	57.0	76.5	84.0	86.0	86.5	87.0	30.0	

Motor Speed Data

	LR	Pull-Up	BD	Rated	Idle
Speed (RPM)	0	1800	3315	3545	3600
Current (Amps)	330	297	207	58.0	17.5
Torque (ft-lb)	112	101	190	74.0	0.00

Information Block

HP	50.0			
Sync. RPM	3600			
Frame	326			
Enclosure	TEFC			
Construction	TFN			
Voltage	230/460#190/380	V		
Frequency	60	Hz		
Design	B			
LR Code letter	G			
Service Factor	1.15			
Temp Rise @ FL	75	° C		
Duty	CONT			
Ambient	40	° C		
Elevation	1,000	feet		
Rotor/Shaft wk²	5.8	Lb-Ft²		
Ref Wdg	326269	NONE		
Sound Pressure @ 1M	72	dBA		
VFD Rating	CONSTANT 2:1			
Outline Dwg	B-SS301044LE-1450			
Conn. Diag	A-EE7308AD-LE			
Additional Specifications:				
0				
0				
EQUIV CKT (OHMS / PHASE)				
R1	R2	X1	X2	Xm
0.0690	0.0640	0.5120	0.4310	18.2900



Speed - Torque Curve

