

PRODUCT INFORMATION PACKET

Model No: 326TSTGP4001

Catalog No: U069

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



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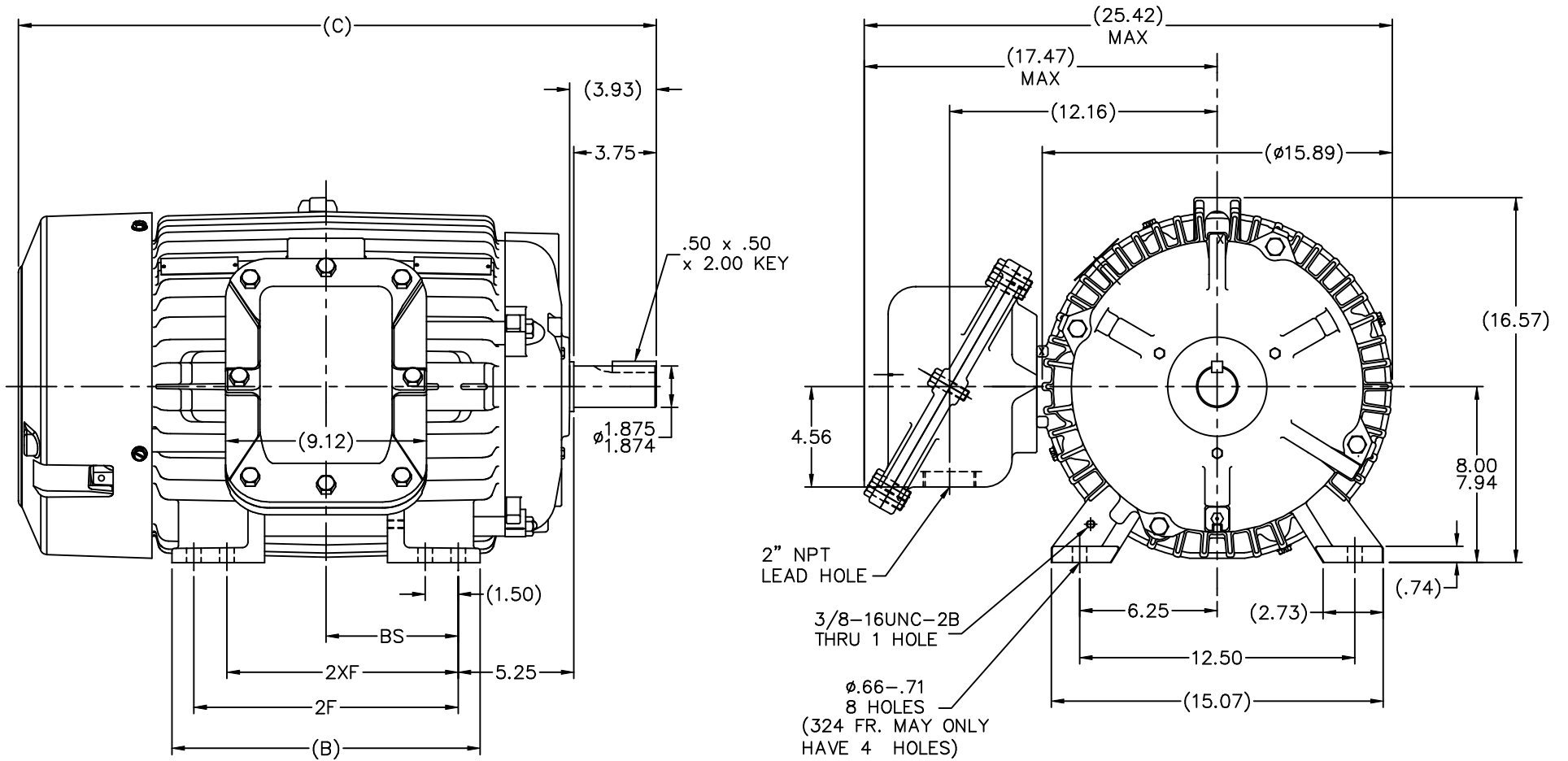
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Nameplate Specifications

Phase	3	Output HP	50 & 40 Hp
Output KW	37.0 & 30.0 kW	Voltage	230/460 & 190/380 V
Speed	3540 & 2940 rpm	Service Factor	1.15 & 1.15
Frame	326TS	Enclosure	Explosion Proof Fan cooled
Thermal Protection	Thermostat	Efficiency	92.4 & 91.7 %
Ambient Temperature	40 °C	Frequency	60 & 50 Hz
Current	115/57.5 & 112/56 A	Power Factor	88.5
Duty	Continuous	Insulation Class	F
Design Code	B	KVA Code	G
Drive End Bearing Size	6312	Opp Drive End Bearing Size	6311
UL	No	CSA	N
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	.162 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	28.97 in
Frame Length	16.25 in	Shaft Diameter	1.880 in
Shaft Extension	3.93 in	Assembly/Box Mounting	F1 ONLY
Connection Drawing	A-EE7308AD	Outline Drawing	B-SS311002-1625

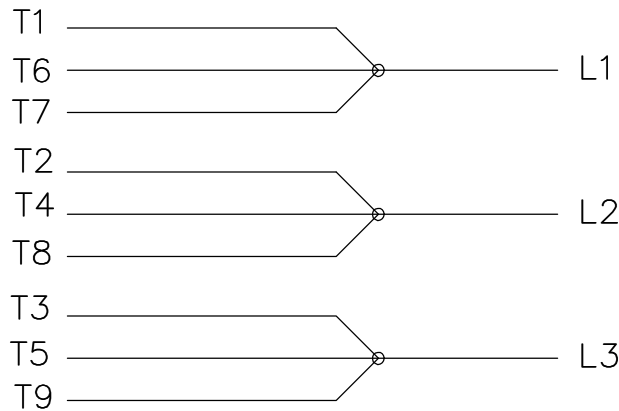


- NOTES:
 1. BOX CAN ONLY BE ROTATED CLOCKWISE UP TO 270° FROM ITS ORIGINAL POSITION.
 2. NAMEPLATE TO BE READ FROM CONDUIT BOX SIDE OF MOTOR.

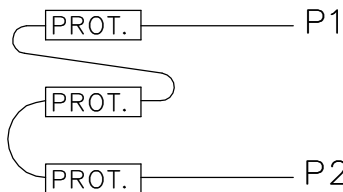
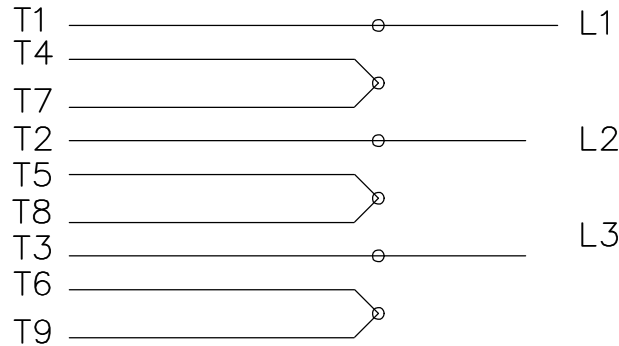
DASH	FRAME	B	C	2F	2XF	BS
1475	324TS	14.00	27.47	10.50		5.25
1625	326TS	14.00	28.97	12.00	10.50	6.00

		TOLERANCES UNLESS SPECIFIED		MARATHON ELECTRIC		DRAWN DA 03-25-1999			
NO.	REVISION	BY & DATE	CHK	ANG	FINISH	PREV			
5	REDRAWN IN AUTOCAD	TAT 06-28-2004	ML	DEC.	INCHES		CHK ML 04-14-1999		
4	DASH 1475 (B) 14.00 WAS 12.50	CN 29200-1468	HLB	02-26-2001	.X	±.1	APPD SW 04-14-1999		
3	UPDATED 'C' BOX GEOMETRY PER CAST. CHG. CN 29010	DRS 01-31-2000		.XX	±.03		SCALE 7-32		
2	REVISED 'C' DIMENSION FOR C.I. FAN GUARD.	DA 07-12-1999		.XXX	±.005		REF		
	REVISED CONDUIT BOX	CN 2700-239		.XXXX	±.0005		FMF		
					±7°30"		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						CAD FILE ss311002	SIZE B	DRAWING NO. SS311002	PAGE OF 5
						RFP	DIST LB		

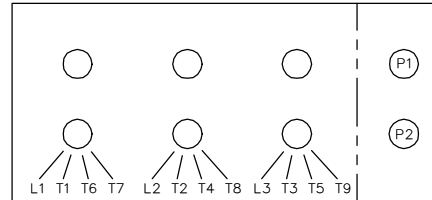
LOW VOLTAGE



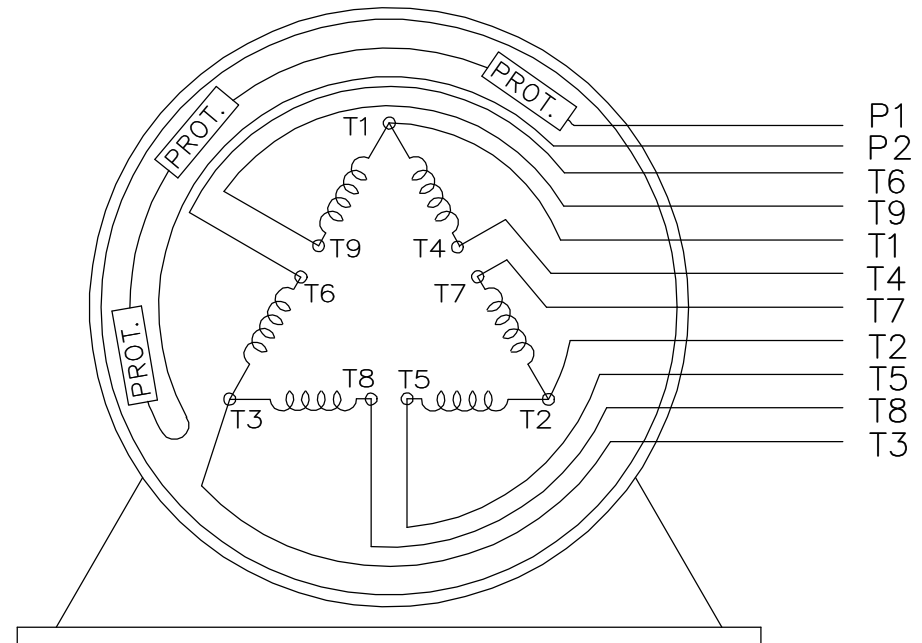
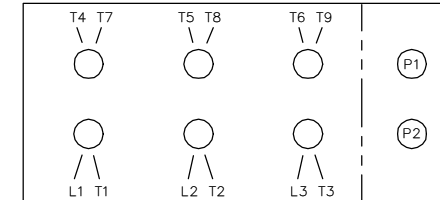
HIGH VOLTAGE



LOW VOLTAGE



HIGH VOLTAGE



VIEW OF TERMINAL END

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

DRAWING REVISION L		REVISION BY JP	REV DATE/© DATE 06-21-2019	TOLERANCES (EXCEPT AS NOTED): DEC. INCH mm ANGLE		DRAWN BY MJD		Regal Beloit America, Inc.	
ECO ECO-0168744		APPROVED BY MH	DATE 06-21-2019	.X ±0.1 [±3]	±7' 30"	DATE 12-19-1997	DESCRIPTION CONN DIAGRAM-EXTERNAL		
ECO DESCRIPTION UPDATED TO CURRENT STANDARDS				REMOVE BURRS & BREAK SHARP EDGES: .003/.015 [.08/.38] X 45°		APPROVED BY GK	MATERIAL		PROCESS/FINISH
COPYRIGHT (PER REVISION DATE) REGAL BELOIT AMERICA, INC. ALL RIGHTS RESERVED. PROPRIETARY AND CONFIDENTIAL INFORMATION - THIS DOCUMENT IS THE PROPERTY OF REGAL BELOIT AMERICA, INC. ("OWNER") AND CONTAINS OWNER'S PROPRIETARY INFORMATION. ANY PERSON, CORPORATION OR OTHER FIRM RECEIVING IT IS DEEMED, BY RECEIVING IT, TO AGREE THAT IT, AND/OR ANY PART OF IT, SHALL NOT BE DISCLOSED TO ANY PERSON, CORPORATION OR OTHER ENTITY, DUPLICATED, AND/OR USED, EXCEPT AS EXPRESSLY APPROVED IN WRITING IN ADVANCE BY OWNER. THIS DOCUMENT SHALL BE RETURNED TO OWNER UPON REQUEST. IT MAY BE SUBJECT TO CERTAIN RESTRICTIONS UNDER APPLICABLE EXPORT CONTROL LAWS AND REGULATIONS.				CORNER FILLETS: R.02 [.5]		DATE 01-07-1998	DRAWING NUMBER		SHEET
				MACHINED SURFACES: 200/ 5.1 INCH mm		REFERENCE	EE7308AD		1 OF 1
				mm DIMENSIONS IN [BRACKETS] ARE FOR REFERENCE ONLY		THIRD ANGLE PROJECTION	SIZE A		

CERTIFICATION DATA SHEET

Model#: 326TSTGP4001 FD **WINDING#:** K2862132 NONE 1
CONN. DIAGRAM: A-EE7308AD **ASSEMBLY:** F1 ONLY
OUTLINE: B-SS311002-1625

TYPICAL MOTOR PERFORMANCE DATA

HP	KW	SYNC. RPM	F.L. RPM	FRAME	ENCLOSURE	KVA CODE	DESIGN
50&40	37&30	3600	3540&2940	326TS	EPFC	G	B

PH	Hz	VOLTS	FL AMPS	START TYPE	DUTY	INSL	S.F	AMB°C	ELEVATION
3	60/50	230/460#190/ 380	115/57.5&112/ 56	LINE OR INVERTER	CONTINUOU S	F3	1.15/1.15	40	3300

FULL LOAD EFF: 92.4&91.7	3/4 LOAD EFF: 92.4	1/2 LOAD EFF: 91.7	GTD. EFF	ELEC. TYPE	NO LOAD AMPS
FULL LOAD PF: 88.5&88.5	3/4 LOAD PF: 86	1/2 LOAD PF: 78.5	91	SQ CAGE INV RATED	37 / 18.5

F.L. TORQUE	LOCKED ROTOR AMPS	L.R. TORQUE	B.D. TORQUE	F.L. RISE°C
74 LB-FT	720 / 360	115 LB-FT 155	205 LB-FT 277	75

SOUND PRESSURE @ 3 FT.	SOUND POWER	ROTOR WK^2	MAX. WK^2	SAFE STALL TIME	STARTS /HOUR	APPROX. MOTOR WGT
78 dBA	88 dBA	2.9 LB-FT^2	28 LB-FT^2	20 SEC.	2	475 LBS.

***** SUPPLEMENTAL INFORMATION *****

DE BRACKET TYPE	ODE BRACKET TYPE	MOUNT TYPE	ORIENTATION	SEVERE DUTY	HAZARDOUS LOCATION	DRIP COVER	SCREENS	PAINT
STANDARD	STANDARD	RIGID	HORIZONTAL	TRUE	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	OPE						
BALL	BALL	POLYREX EM	TS	NONE	NONE	1045 HOT ROLLED (C-204)	CAST IRON
6312	6311						

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

If Inverter equals NONE, contact factory for further information

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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 NONE V NONE Hz

DATE: 06/21/2017 06:37:47 AM
 FORM 3531 REV.3 02/07/99

** Subject to change without notice.

Data Sheet

Date: 12/13/2018
 Customer: _____
 Attention: _____
 Submitted by: FAREEDA DUDEKULA



326TSTGP4001

Submittal

Data @ 460 V

Motor Load Data

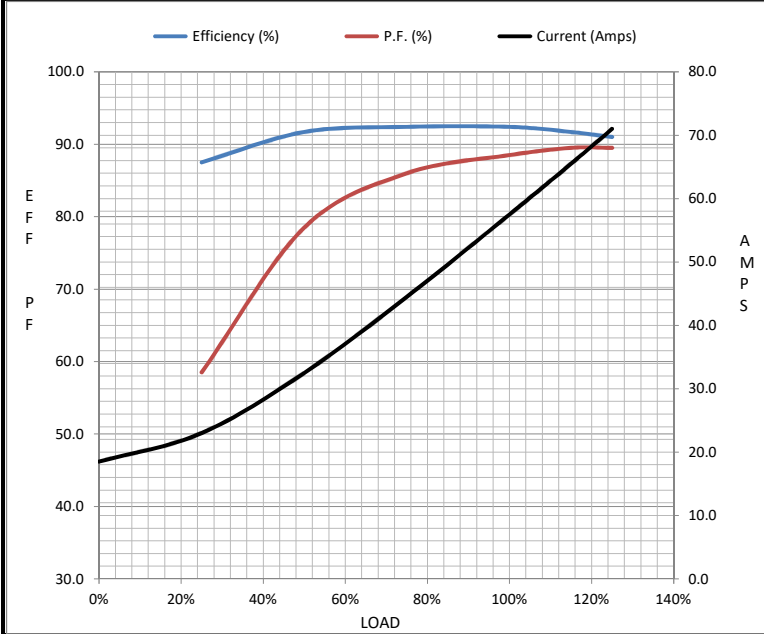
Load	0%	25%	50%	75%	100%	115%	125%	LR
Current (Amps)	18.5	23.0	32.5	44.5	57.5	65.5	71.0	360
Torque (ft-lb)	0.00	18.5	37.0	55.5	74.0	85.5	93.0	115
RPM	3600	3585	3570	3555	3540	3530	3520	0
Efficiency (%)		87.5	91.7	92.4	92.4	91.7	91.0	
P.F. (%)	8.0	58.5	78.5	86.0	88.5	89.5	89.5	35.0

Motor Speed Data

	LR	Pull-Up	BD	Rated	Idle
Speed (RPM)	0	1500	3300	3540	3600
Current (Amps)	360	325	225	57.5	18.5
Torque (ft-lb)	115	100	205	74.0	0.00

Information Block

HP	50.0			
Sync. RPM	3600			
Frame	326			
Enclosure	EPFC			
Construction	TGS			
Voltage	230/460#190/380 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	2.90 Lb-Ft ²			
Ref Wdg	K2862132 NONE			
Sound Pressure @ 1M	78 dBA			
VFD Rating	CONSTANT 2:1			
Outline Dwg	B-SS311002-1625			
Conn. Diag	A-EE7308AD			
Additional Specifications:				
0				
0				
EQUIV CKT (OHMS / PHASE)				
R1	R2	X1	X2	Xm
0.1130	0.0740	0.4540	0.3290	12.9110



Speed -Torque Curve

