

# PRODUCT INFORMATION PACKET

Model No: 326TSTGS16532

Catalog No: U079A

Explosion Proof Motor, 50 HP, 3 Ph, 60 Hz, 230/460 V, 1800 RPM, 326TS Frame, EPFC



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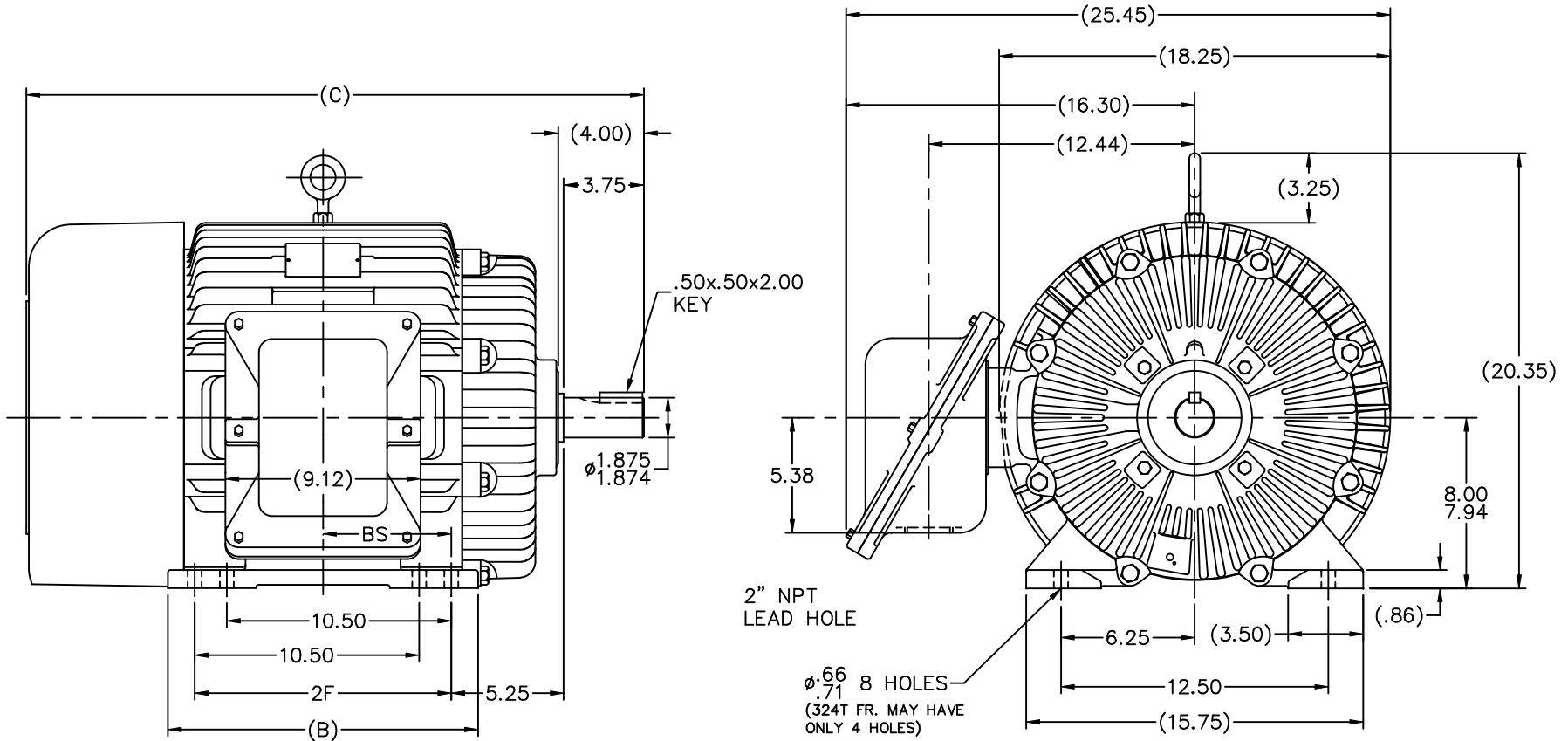
**Nameplate Specifications**

Output HP	<b>50 Hp</b>	Output KW	<b>37.0 kW</b>
Frequency	<b>60 Hz</b>	Voltage	<b>230/460 V</b>
Current	<b>120.0/60.0 A</b>	Speed	<b>1775 rpm</b>
Service Factor	<b>1</b>	Phase	<b>3</b>
Efficiency	<b>94.5 %</b>	Power Factor	<b>82</b>
Duty	<b>Continuous</b>	Insulation Class	<b>F</b>
Design Code	<b>B</b>	KVA Code	<b>F</b>
Frame	<b>326TS</b>	Enclosure	<b>Explosion Proof Fan cooled</b>
Thermal Protection	<b>Thermostat</b>	Ambient Temperature	<b>50 °C</b>
Drive End Bearing Size	<b>6312</b>	Opp Drive End Bearing Size	<b>6311</b>
UL	<b>UL Listed And CSA Certified</b>	CSA	<b>Y</b>
CE	<b>N</b>	IP Code	<b>54</b>
Hazardous Location	<b>DIV 1 EXP PROOF CL I GR CD CL II GR FG T3C</b>	Number of Speeds	<b>1</b>

**Technical Specifications**

Electrical Type	<b>Squirrel Cage Induction Run</b>	Starting Method	<b>Across The Line</b>
Poles	<b>4</b>	Rotation	<b>Reversible</b>
Resistance Main	<b>.112 Ohms</b>	Mounting	<b>Rigid Base</b>
Motor Orientation	<b>Horizontal</b>	Drive End Bearing	<b>Ball</b>
Opp Drive End Bearing	<b>Ball</b>	Frame Material	<b>Cast Iron</b>
Shaft Type	<b>TS</b>	Overall Length	<b>28.87 in</b>
Frame Length	<b>13.00 in</b>	Shaft Diameter	<b>1.875 in</b>
Shaft Extension	<b>4 in</b>	Assembly/Box Mounting	<b>F1 ONLY</b>
Inverter Load	<b>CONSTANT 2:1</b>		
Connection Drawing	<b>A-EE7308T</b>	Outline Drawing	<b>B-SS28118-1300</b>





- 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	BS
1150	324TS	13.00	27.37	10.50	5.25
1300	324TS	14.50	28.87	12.00	6.00
1300	326TS	14.50	28.87	12.00	6.00
1450	326TS	15.00	30.37	12.00	6.75

NO.		REVISION	BY & DATE	CHK	ANG	FINISH	PREV
7	REDRAWN IN AUTOCAD	TAT 07-06-2004	ML	X	±.1		
6	ADDED DASH 1300 324TS FR.	MU25460	MJD 06-07-1999	.XX	±.03	TITLE OUTLINE	
5	ADDED DUAL DRILLING	CN 26835	DRS 04-29-1999	.XXX	±.005	320TS FR. - BB - TS - EXP.PR.	
4	REDRAWN ON CADD	MRB 09-06-1995	MRB 09-06-1995	.XXXX	±.0005	MATL	
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 ss28118	
				DIST	LB		



DRAWN MRB 09-05-1995
CHK DA 09-06-1995
APPD GK 09-06-1995
SCALE 1=5
REF
FMF
PREV

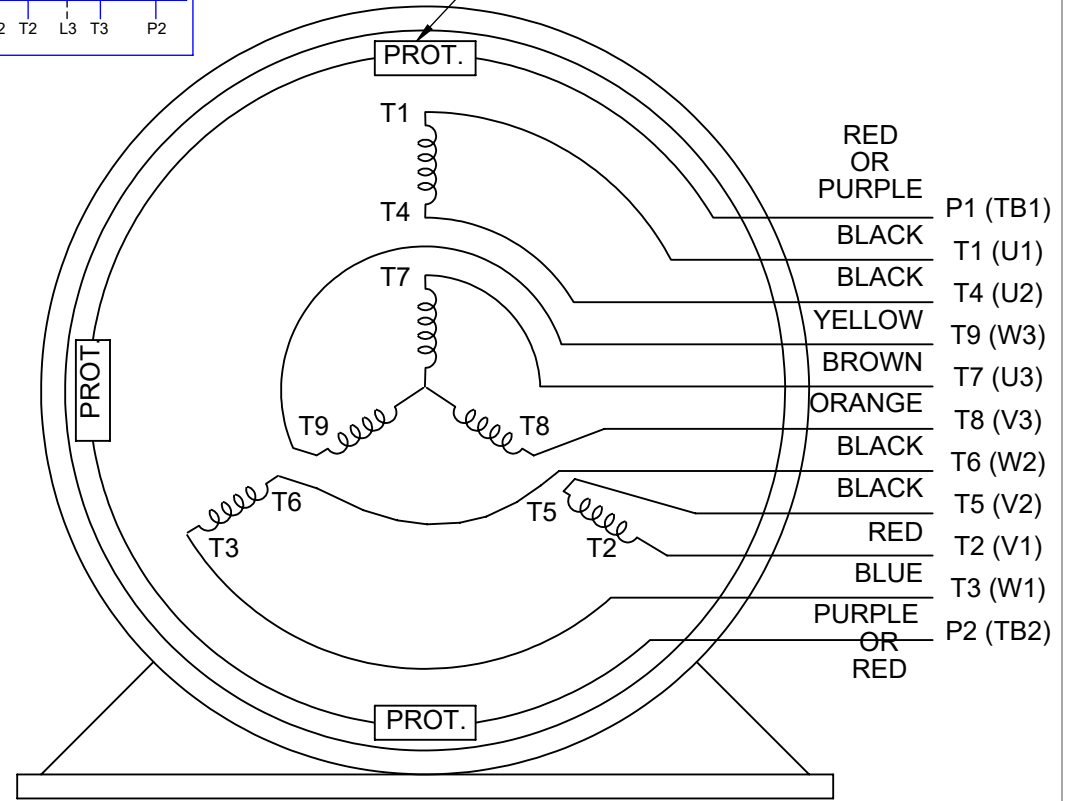
SIZE B	DRAWING NO. SS28118	PAGE OF 7	REV. 7
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**HIGH VOLTAGE**



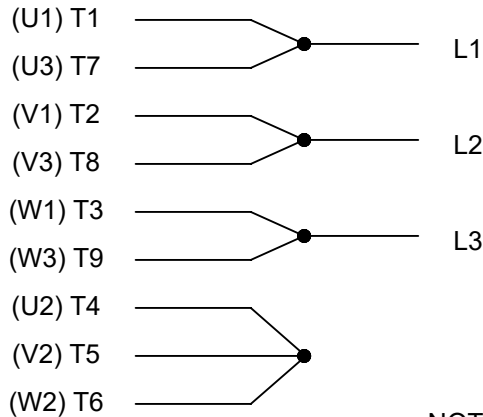
**THREE PHASE  
DUAL VOLTAGE MOTOR**

THERMO-PROTECTORS  
CONNECTED IN SERIES



NOTE FOR FACTORY USE ONLY:  
TO SURGE TEST FOR COMMON CONNECT:  
HIGH VOLT: CONNECT P1 TO T1  
THEN P2 TO L1  
LOW VOLT: CONNECT P1 TO T1 & T7,  
THEN P2 TO L1

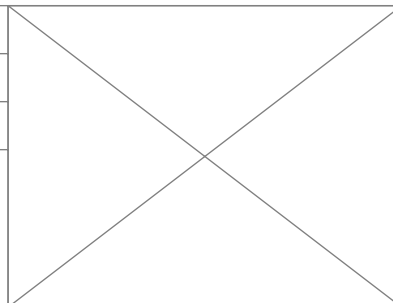
**LOW VOLTAGE**



**VIEW OF TERMINAL END**

NOTE: LEAD'S COLOR CAN BE YELLOW OR WHITE FOR MT2 PLANT

DRAWING REVISION T	REVISION BY ZR	DATE 01-14-2019
ECO ECO-0159915	APPROVED BY DR	DATE 01-15-2019
ECO DESCRIPTION <b>ADDED TERMINAL CONNECTION DIAGRAM</b>		
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DRAWN BY SMC
DATE 05-13-1992
APPROVED BY TB
DATE 05-13-1992
REFERENCE EE7308/EE7300
THIRD ANGLE PROJECTION

Regal Beloit America, Inc.	
DESCRIPTION <b>CONN DIAGRAM-INTERNAL</b> 3 PHASE - DUAL VOLTAGE MOTOR	
MATERIAL	PROCESS/FINISH
SIZE A	DRAWING NUMBER <b>EE7308T</b>
SHEET 1 OF 1	

**CERTIFICATION DATA SHEET**

**Model#:** 326TSTGS16532 AN      **WINDING#:** K3264168 NONE 1  
**CONN. DIAGRAM:** A-EE7308T      **ASSEMBLY:** F1 ONLY  
**OUTLINE:** B-SS28118-1300

**TYPICAL MOTOR PERFORMANCE DATA**

HP	KW	SYNC. RPM	F.L. RPM	FRAME	ENCLOSURE	KVA CODE	DESIGN
50&40	37&30	1800	1775&1475	326TS	EPFC	F	B

PH	Hz	VOLTS	FL AMPS	START TYPE	DUTY	INSL	S.F	AMB°C	ELEVATION
3	60/50	230/460#190/ 380	120/60&118/5 9	LINE OR INVERTER	CONTINUOU S	F3	1.15/1.15	40	3300

FULL LOAD EFF: 94.5&94.1	3/4 LOAD EFF: 94.5	1/2 LOAD EFF: 94.5	GTD. EFF	ELEC. TYPE	NO LOAD AMPS
FULL LOAD PF: 82&82	3/4 LOAD PF: 79	1/2 LOAD PF: 71	94.1	SQ CAGE INV RATED	48 / 24

F.L. TORQUE	LOCKED ROTOR AMPS	L.R. TORQUE	B.D. TORQUE	F.L. RISE°C
148 LB-FT	670 / 335	250 LB-FT 169	340 LB-FT 230	75

SOUND PRESSURE @ 3 FT.	SOUND POWER	ROTOR WK^2	MAX. WK^2	SAFE STALL TIME	STARTS /HOUR	APPROX. MOTOR WGT
65 dBA	75 dBA	9.7 LB-FT^2	325 LB-FT^2	25 SEC.	2	775 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	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

\*  
N  
O  
T  
E  
S  
\*

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 06:38:19 AM  
 FORM 3531 REV.3 02/07/99  
 \*\* Subject to change without notice.

Data Sheet

Date: 6/29/2017

326TSTGS16532

Customer: \_\_\_\_\_

Attention: \_\_\_\_\_

Submitted by: FAREEDA DUDEKULA



Submittal

Data @ 460 V

Motor Load Data

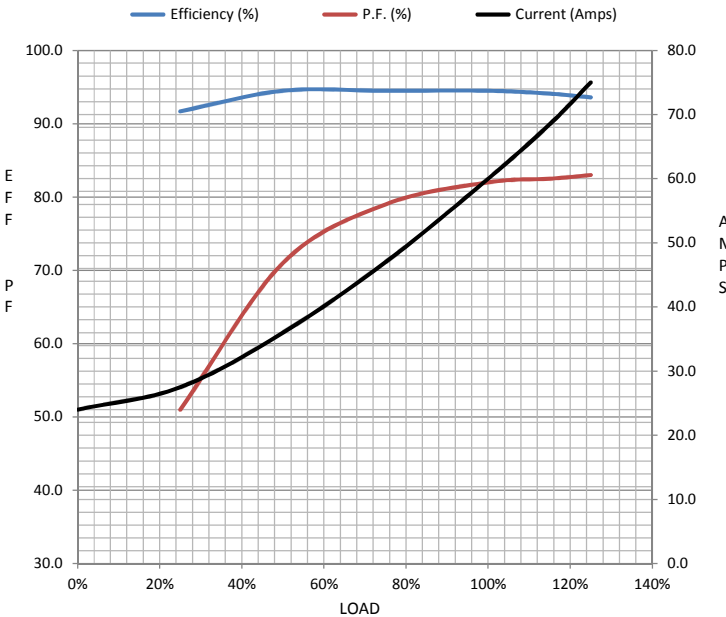
Load	0%	25%	50%	75%	100%	115%	125%	LR
Current (Amps)	24.0	27.5	36.0	47.0	60.0	68.5	75.0	335
Torque (ft-lb)	0.00	36.6	73.5	111	148	170	185	250
RPM	1800	1795	1788	1782	1775	1,772	1770	0
Efficiency (%)		91.7	94.5	94.5	94.5	94.1	93.6	
P.F. (%)	4.0	51.0	71.0	79.0	82.0	82.5	83.0	33.0

Motor Speed Data

	LR	Pull-Up	BD	Rated	Idle
Speed (RPM)	0	900	1675	1775	1800
Current (Amps)	335	300	190	60.0	24.0
Torque (ft-lb)	250	230	340	148	0.00

Information Block

HP	50.0			
Sync. RPM	1800			
Frame	326			
Enclosure	TEFC			
Construction	TFN			
Voltage	30/460#190/381V			
Frequency	60 Hz			
Design	B			
LR Code letter	F			
Service Factor	1.15			
Temp Rise @ FL	75 °C			
Duty	CONT			
Ambient	40 °C			
Elevation	1,000 feet			
Rotor/Shaft wk <sup>2</sup>	9.7 Lb-Ft <sup>2</sup>			
Ref Wdg	K3264168 NONE			
Sound Pressure @ 1M	65 dBA			
VFD Rating	CONSTANT 2:1			
Outline Dwg	B-SS28118-1300			
Conn. Diag	A-EE7308T			
Additional Specifications:				
0				
0				
EQUIV CKT (OHMS / PHASE)				
R1	R2	X1	X2	Xm
0.0680	0.0620	0.4830	0.6480	11.0680



Speed - Torque Curve

