

PRODUCT INFORMATION PACKET

Model No: 326TSTGS6501

Catalog No: E569

Hazardous Duty® 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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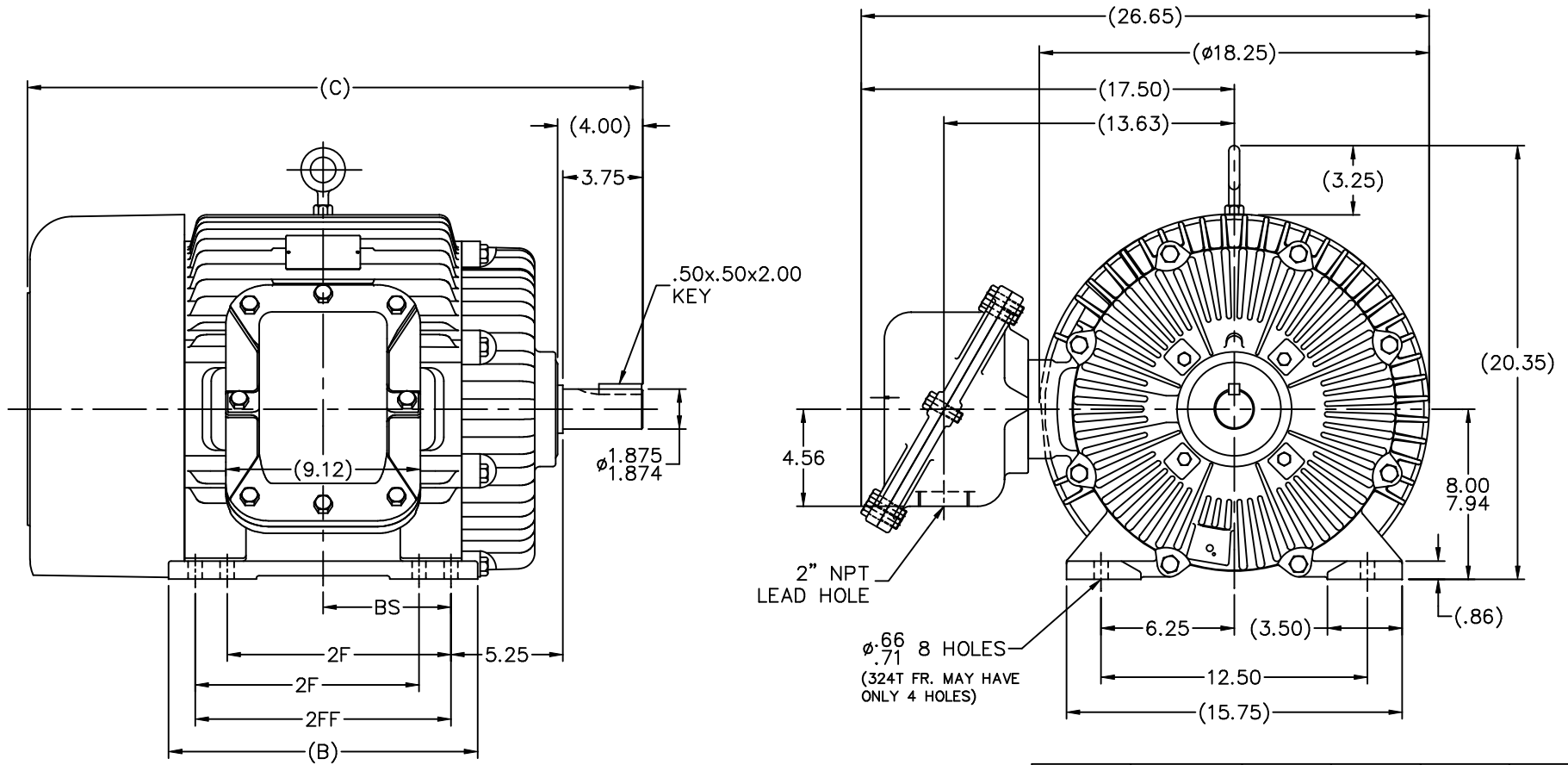
Nameplate Specifications

Phase	3	Output HP	50 & 40 Hp
Output KW	37.0 & 30.0 kW	Voltage	230/460 & 190/380 V
Speed	3555 & 2960 rpm	Service Factor	1.00 & 1.00
Frame	326TS	Enclosure	Explosion Proof Fan cooled
Thermal Protection	Thermostat	Efficiency	94.5 & 94.5 %
Ambient Temperature	50 °C	Frequency	60 & 50 Hz
Current	118/59 & 112/56 A	Power Factor	86.5
Duty	Continuous	Insulation Class	F
Design Code	B	KVA Code	G
Drive End Bearing Size	6312	Opp Drive End Bearing Size	6311
UL	UL Listed And CSA Certified	CSA	Y
CE	N	IP Code	54
Number of Speeds	1	Hazardous Location	DIV 1 EXP PROOF CL I GR CD CL II GR FG T3C

Technical Specifications

Electrical Type	Squirrel Cage Inverter Rated	Starting Method	Line Or Inverter
Poles	2	Rotation	Reversible
Resistance Main	.096 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	4 in	Assembly/Box Mounting	F1 ONLY
Inverter Load	CONSTANT 10:1		
Connection Drawing	A-EE7308AD	Outline Drawing	B-SS301044-1450

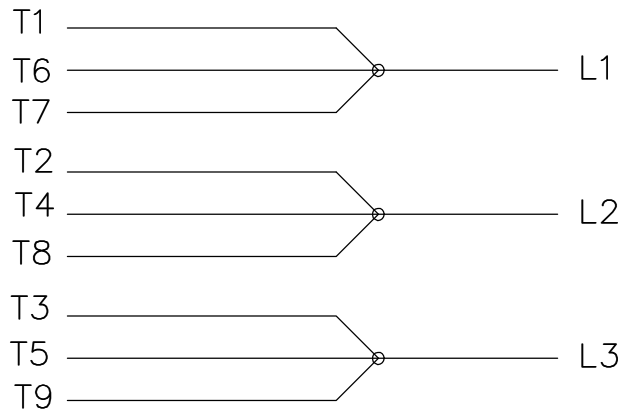
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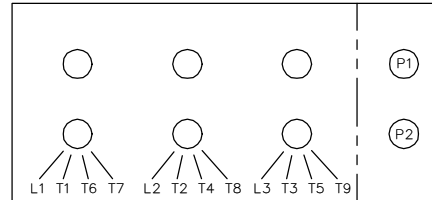
- NOTES:
1. BOX CAN BE ROTATED IN 90° STEPS.
 2. BOX CAN BE MOUNTED ON OPPOSITE SIDE BY REMOVING BRACKETS AND TURNING FRAME 180°.
 3. NAMEPLATE TO BE READ FROM CONDUIT BOX SIDE OF MOTOR.

6	REM'VD PIPE NIPPLE FROM REAR VIEW MUB0542	RWR 07-11-2007	ML	TOLERANCES UNLESS SPECIFIED		DRAWN DAH 05-09-2001			
5	REDRAWN IN AUTOCAD	TAT 07-06-2004	ML	DEC. INCHES		CHK ML 05-09-2001			
4	UPDATED DASH TABLE	DRS 12-14-2001	ML	.X ±.1	APPD DD 05-09-2001	SCALE 1=5			
3	REVISED TO SHOW C' BOX NIPPLE CN 31398	HLB 12-07-2001	DRS	.XX ±.03	TITLE OUTLINE	REF			
2	ADDED "2FF" DIMENSIONS MU37180	DAH 05-14-2001	ML	.XXX ±.005	320TS FR. - BB - TS - EXP.PR.	FMF			
1	NEW DRAWING MU37180	DAH 05-09-2001	ML	.XXXX ±.0005	MATL	PREV			
NO.	REVISION	BY & DATE	CHK	ANG ±7'30"	FINISH				
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 ss301044	SIZE B	DRAWING NO. SS301044	PAGE OF 6
					DIST LB				

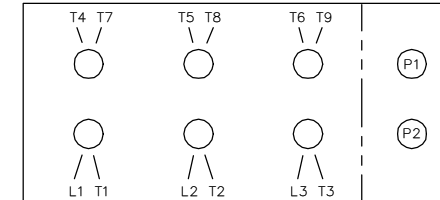
LOW VOLTAGE



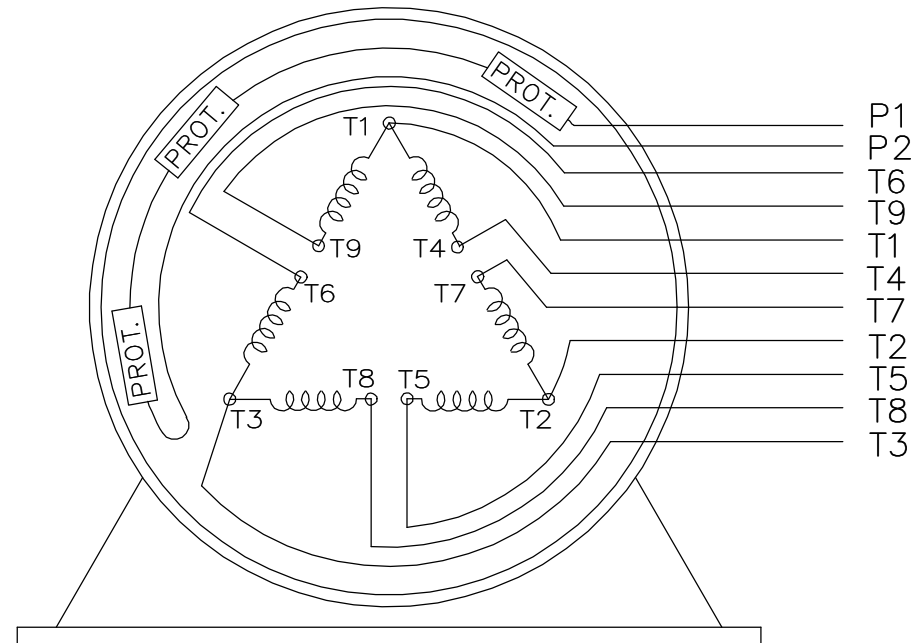
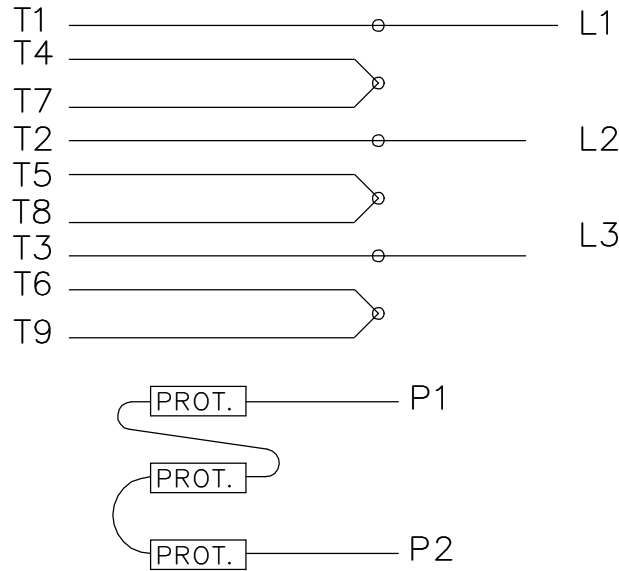
LOW VOLTAGE



HIGH 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 .X ±0.1 [±3] .XX ±0.02 [±0.5] .XXX ±0.005 [±0.13] .XXXX ±0.0005 [±0.013]	DRAWN BY MJD	Regal Beloit America, Inc.
ECO ECO-0168744	APPROVED BY MH	DATE 06-21-2019		DATE 12-19-1997	
ECO DESCRIPTION UPDATED TO CURRENT STANDARDS			REMOVE BURRS & BREAK SHARP EDGES: .003/.015 [.08/.38] X 45° CORNER FILLETS: R.02 [.5] MACHINED SURFACES: 200/ 5.1 INCH/mm	APPROVED BY GK	DESCRIPTION CONN DIAGRAM-EXTERNAL
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			SIZE A	DRAWING NUMBER EE7308AD	SHEET 1 OF 1

CERTIFICATION DATA SHEET

Model#: 326TSTGS6501 AR
CONN. DIAGRAM: A-EE7308AD
OUTLINE: B-SS301044-1450

WINDING#: 326281 NONE 1
ASSEMBLY: F1 ONLY

TYPICAL MOTOR PERFORMANCE DATA

Table with 8 columns: HP, KW, SYNC. RPM, F.L. RPM, FRAME, ENCLOSURE, KVA CODE, DESIGN

Table with 10 columns: PH, Hz, VOLTS, FL AMPS, START TYPE, DUTY, INSL, S.F, AMB°C, ELEVATION

Table with 6 columns: FULL LOAD EFF, 3/4 LOAD EFF, 1/2 LOAD EFF, GTD. EFF, ELEC. TYPE, NO LOAD AMPS

Table with 5 columns: F.L. TORQUE, LOCKED ROTOR AMPS, L.R. TORQUE, B.D. TORQUE, F.L. RISE°C

Table with 7 columns: SOUND PRESSURE @ 3 FT., SOUND POWER, ROTOR WK^2, MAX. WK^2, SAFE STALL TIME, STARTS /HOUR, APPROX. MOTOR WGT

*** SUPPLEMENTAL INFORMATION ***

Table with 9 columns: DE BRACKET TYPE, ODE BRACKET TYPE, MOUNT TYPE, ORIENTATION, SEVERE DUTY, HAZARDOUS LOCATION, DRIP COVER, SCREENS, PAINT

Table with 8 columns: BEARINGS (DE, OPE), GREASE, SHAFT TYPE, SPECIAL DE, SPECIAL ODE, SHAFT MATERIAL, FRAME MATERIAL

Table with 7 columns: THERMO-PROTECTORS (THERMOSTATS, PROTECTORS, WDG RTDs, BRG RTDs), THERMISTORS, CONTROL, SPACE /n HEATERS

If Inverter equals NONE, contact factory for further information

*
N
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*

Table with 3 rows: INVERTER TORQUE: CONSTANT 10:1 INV. HP SPEED RANGE: 1.5 X BASE SPEED; ENCODER: NONE; BRAKE: NONE NONE

** Subject to change without notice.

Data Sheet

Date: 20-06-2017
Customer: _____
Attention: _____
Submitted by: FAREEDA DUDEKULA



326TSTGS6501

Submittal

Data @ **460 V**

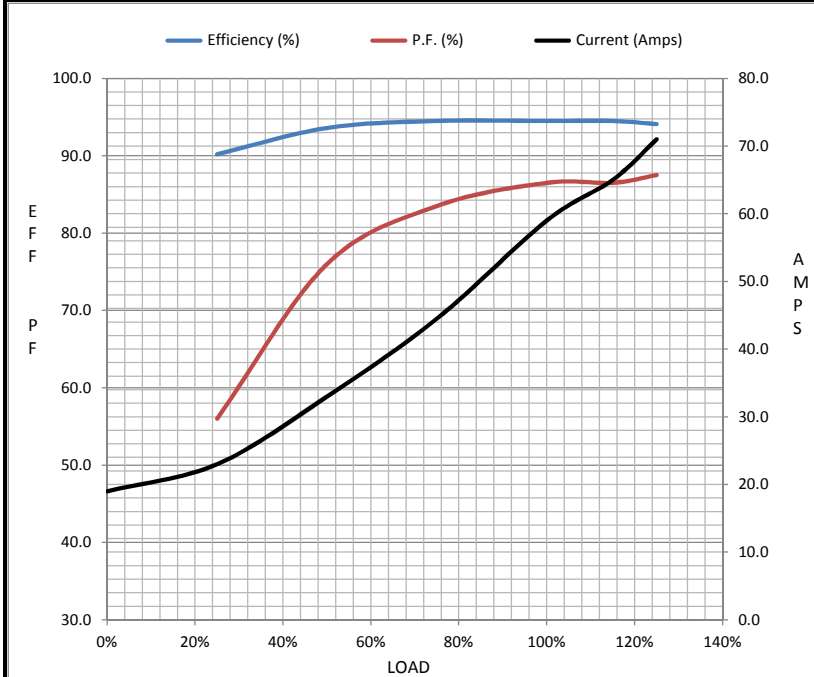
Motor Load Data

Load	0%	25%	50%	75%	100%	115%	125%	LR
Current (Amps)	19.0	23.0	33.0	44.5	59.0	65.0	71.0	362
Torque (ft-lb)	0.00	18.5	36.5	55.0	73.5	83.0	92.5	128
RPM	3600	3592	3582	3570	3555	3,550	3547	0
Efficiency (%)		90.2	93.6	94.5	94.5	94.5	94.1	
P.F. (%)	15.0	56.0	76.0	83.5	86.5	86.5	87.5	30.0

Motor Speed Data

	LR	Pull-Up	BD	Rated	Idle
Speed (RPM)	0	2000	3350	3555	3600
Current (Amps)	362	338	232	59.0	19.0
Torque (ft-lb)	128	113	209	73.5	0.00

Information Block	
HP	50.0
Sync. RPM	3600
Frame	326
Enclosure	TEFC
Construction	TFN
Voltage	230/460#190/38(V)
Frequency	60 Hz
Design	B
LR Code letter	G
Service Factor	1.15
Temp Rise @ FL	65 ° C
Duty	CONT
Ambient	40 ° C
Elevation	1,000 feet
Rotor/Shaft wk ²	5.8 Lb-Ft ²
Ref Wdg	326281 NONE
Sound Pressure @ 1M	75 dBA
VFD Rating	CONSTANT 10:1
Outline Dwg	B-SS301044-1450
Conn. Diag	A-EE7308AD
Additional Specifications:	
0	
365THFS8036	
EQUIV CKT (OHMS / PHASE)	
R1	R2
0.0180	0.0120
X1	X2
0.1130	0.0960
Xm	3.3940



Speed - Torque Curve

