# PRODUCT INFORMATION PACKET



Model No: 324TSTGS16531
Catalog No: U078A

Hazardous Duty® Explosion Proof Motor, 40 & 30 HP, 3 Ph, 60 & 50 Hz, 230/460 & 190/380 V,

1800 & 1500 RPM, 324TS Frame, EPFC



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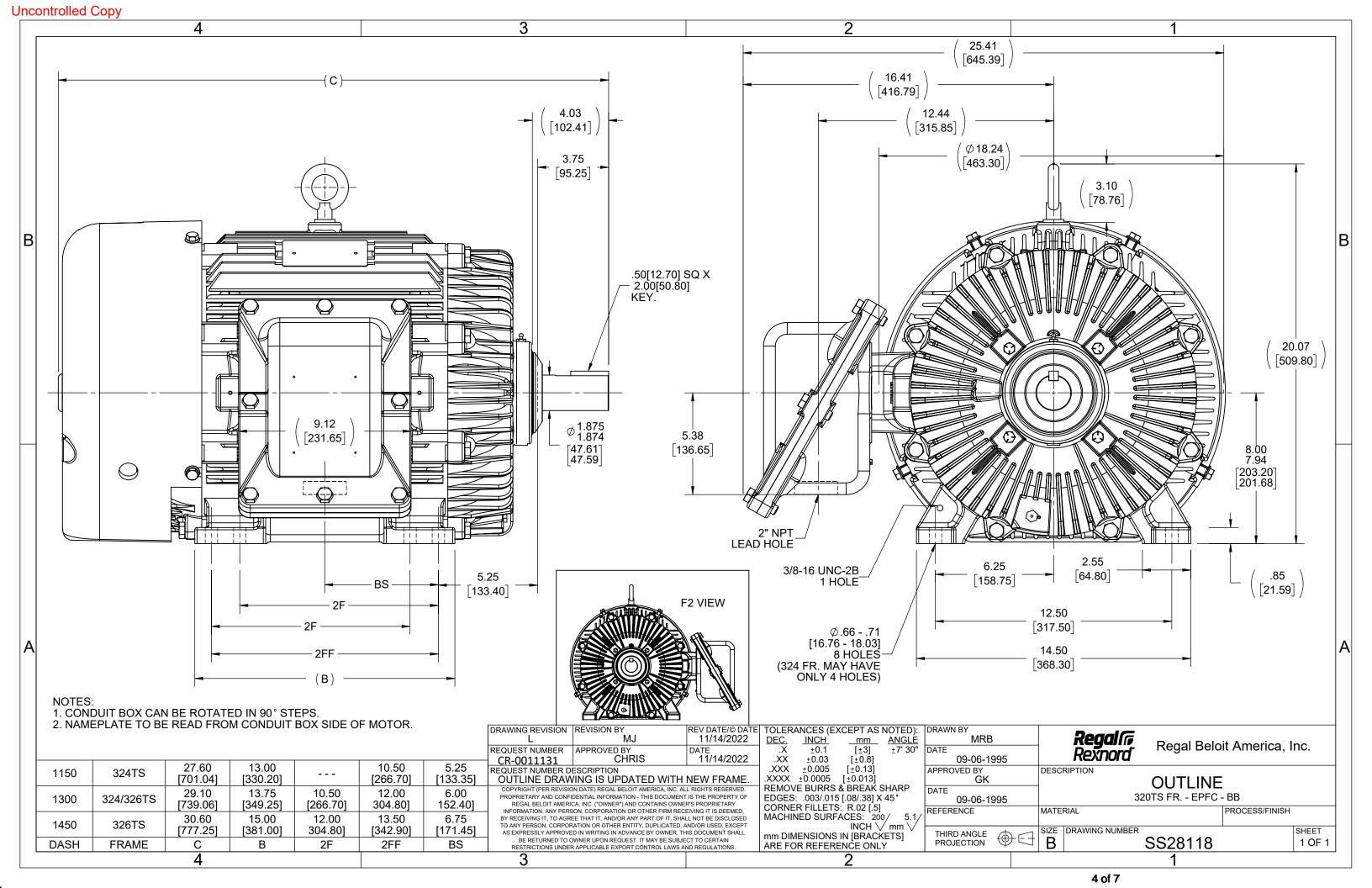
## Nameplate Specifications

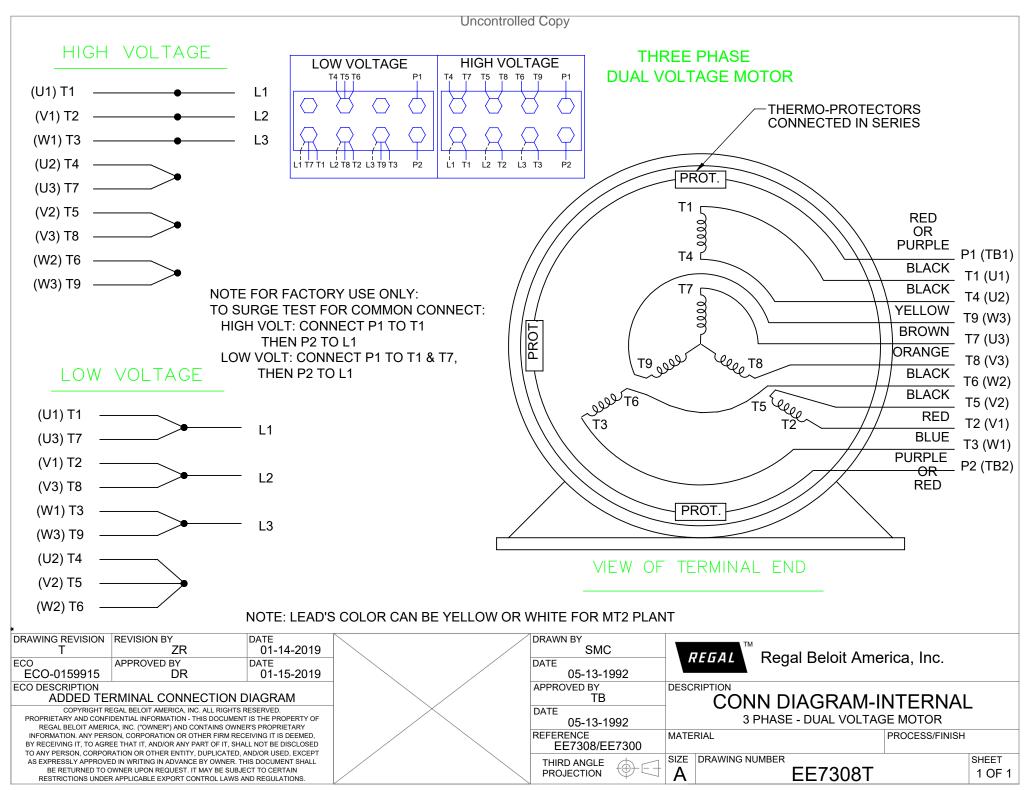
Phase	3	Output HP	40 & 30 Hp	
Output KW	30.0 & 22.4 kW	Voltage	230/460 & 190/380 V	
Speed	1780 & 1480 rpm	Service Factor	1.00 & 1.00	
Frame	324TS	Enclosure	Explosion Proof Fan cooled	
Thermal Protection	Thermostat	Efficiency	94.1 & 94.1 %	
Ambient Temperature	50 °C	Frequency	60 & 50 Hz	
Current	95/47.5 & 87/43.5 A	Power Factor	83	
Duty	Continuous	Insulation Class	F	
Design Code	В	KVA Code	G	
Drive End Bearing Size	6312	Opp Drive End Bearing Size	6311	
UL	UL Listed And CSA Certified	CSA	Υ	
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	4	Rotation	Reversible	
Resistance Main	.135 Ohms	Mounting	Rigid Base	
Motor Orientation	Horizontal	Drive End Bearing	Ball	
Opp Drive End Bearing	Ball	Frame Material	Cast Iron	
Shaft Type	тѕ	Overall Length	28.87 in	
Frame Length	13.00 in	Shaft Diameter	1.875 in	
Shaft Extension	4 in	Assembly/Box Mounting	F1 ONLY	
Inverter Load	CONSTANT 10:1			
Connection Drawing	A-EE7308T	Outline Drawing	B-SS28118-1300	

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#### **CERTIFICATION DATA SHEET**

324TSTGS16531 BN WINDING#: K3244127 NONE 1 Model#:

F.L. RPM

ASSEMBLY: CONN. DIAGRAM: A-EE7308T F1 ONLY

SYNC. RPM

OUTLINE: B-SS28118-1300

KW

HP

#### TYPICAL MOTOR PERFORMANCE DATA

FRAME

**ENCLOSURE** 

**KVA CODE** 

DESIGN

40&30	30&22	1800		1780&1480		EPF	c	G	В
PH	Hz	VOLTS	FL AMPS	START TYPE	DUTY	INSL	S.F	AMB°C	ELEVATION
3	60/50	230/460#190/	95/47.5&87/43	LINE OR	CONTINUOU	F3	1.0/1.0	40	3300
		380	.5	INVERTER	S				

FULL LOAD EFF: 94.1&94.1	3/4 LOAD EFF: 94.5	1/2 LOAD EFF: 94.5	GTD. EFF	ELEC. TYPE	NO LOAD AMPS
FULL LOAD PF: 83&82	3/4 LOAD PF: 79.5	1/2 LOAD PF: 71	93.6	SQ CAGE INV RATED	35 / 17.5

F.L. TORQUE	LOCKED ROTOR AMPS	L.R. TORQUE	B.D. TORQUE	F.L. RISE°C	
118 LB-FT	580 / 290	218 LB-FT 185	305 LB-FT 258	65	

SOUND PRESSURE @ 3 FT.	SOUND POWER	ROTOR WK^2	MAX. WK^2	SAFE STALL TIME	STARTS /HOUR	APPROX. MOTOR WGT
65 dBA	75 dBA	8.8 LB-FT^2	275 LB-FT^2	25 SEC.	2	700 LBS.

### \*\*\* SUPPLEMENTAL INFORMATION \*\*\*

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

BEARINGS		GREASE	SHAFT TYPE	SPECIAL DE	SPECIAL ODE	SHAFT	FRAME
DE	OPE					MATERIAL	MATERIAL
BALL	BALL	POLYREX EM	TS	NONE	NONE	1045 HOT	CAST IRON
6312	6311					ROLLED (C-204)	

	THERMO-PF	ROTECTORS	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

INVERTER TORQUE: CONSTANT 10:1 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

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> DATE: 06/21/2017 03:52:36 AM FORM 3531 REV.3 02/07/99

<sup>\*\*</sup> Subject to change without notice.

