# PRODUCT INFORMATION PACKET

Model No: 405TSTGS6503

Catalog No: E578

Explosion Proof Motor, 100 HP, 3 Ph, 60 Hz, 230/460 V, 3600 RPM, 405TS Frame, EPFC



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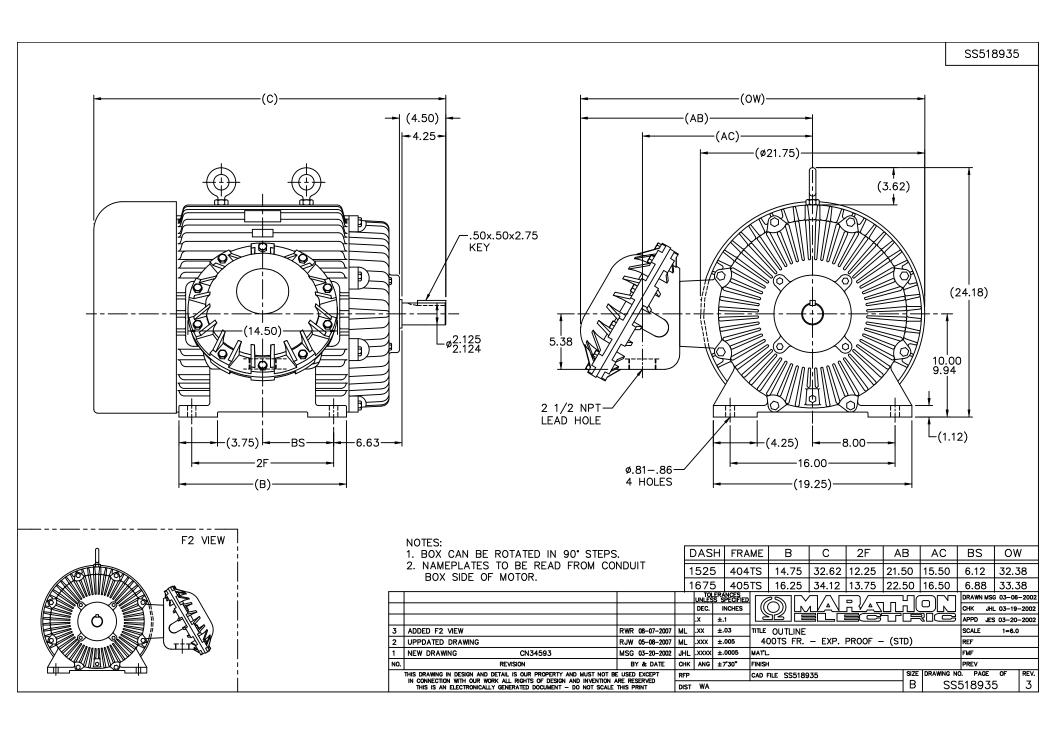
## Nameplate Specifications

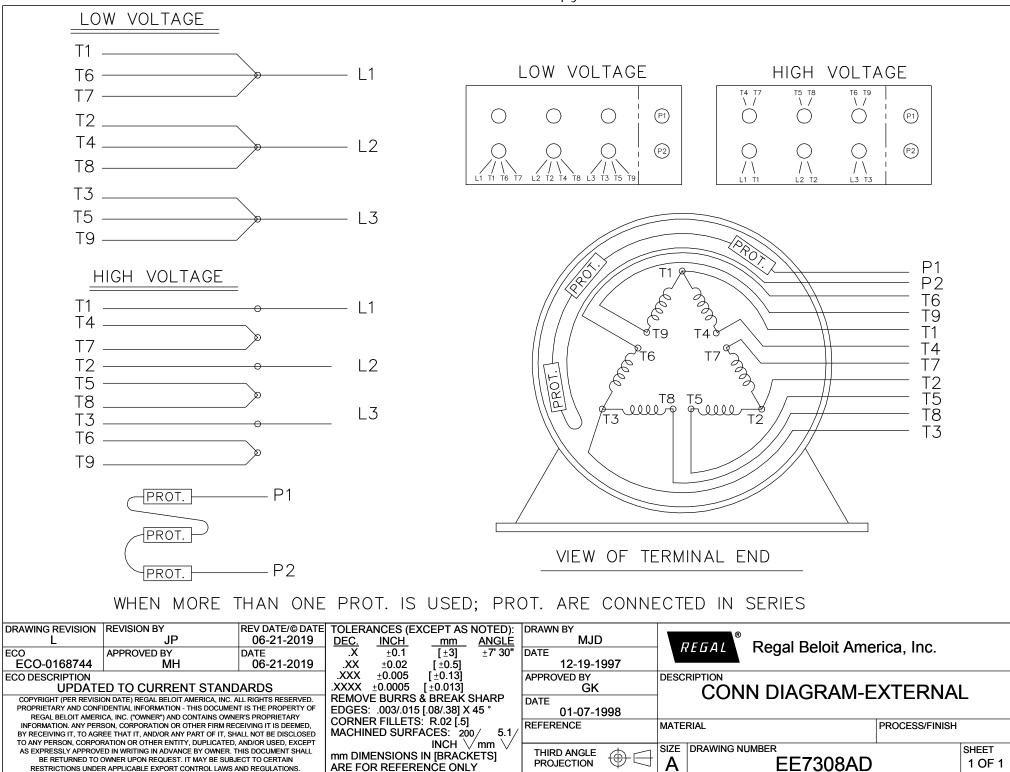
Output HP	100 Hp	Output KW	75.0 kW
Frequency	60 Hz	Voltage	230/460 V
Current	216.0/108.0 A	Speed	3565 rpm
Service Factor	1.15	Phase	3
Efficiency	94.5 %	Power Factor	91.5
Duty	Continuous	Insulation Class	F
Design Code	В	KVA Code	G
Frame	405TS	Enclosure	Explosion Proof Fan cooled
Thermal Protection	Thermostat	Ambient Temperature	40 °C
Drive End Bearing Size	6313	Opp Drive End Bearing Size	6313
UL	UL Listed And CSA Certified	CSA	Υ
CE	N	IP Code	54
Hazardous Location	EXP PROOF CL I GR C&D CL II GR F&G T3B	Number of Speeds	1

## **Technical Specifications**

Electrical Type	Squirrel Cage Inverter Rated	Starting Method	Line Or Inverter
Poles	2	Rotation	Reversible
Resistance Main	.051 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	34.12 in
Frame Length	16.75 in	Shaft Diameter	2.125 in
Shaft Extension	4.5 in	Assembly/Box Mounting	F1 ONLY
Inverter Load	CONSTANT 10:1		
Connection Drawing	A-EE7308AD	Outline Drawing	B-SS518935-1675

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### **CERTIFICATION DATA SHEET**

405TSTGS6503 BR WINDING#: T405247 R3 1 Model#: ASSEMBLY: F1 ONLY CONN. DIAGRAM: A-EE7308AD

OUTLINE: B-SS518935-1675

### **TYPICAL MOTOR PERFORMANCE DATA**

HP	KW	,	SYNC. RPM	F.L. RPM	FRAME	ENCLOS	SURE	KVA CODE	DESIGN
100	100 75		3600	3565	405TS	EPF	EPFC		В
PH	Hz	VOLT	S FL AMP	S START TYPE	DUTY	INSL	S.F	AMB°C	ELEVATION
3	60	230/46	216/108	LINE OR	CONTINUOU	F1	1.15	40	3300

FULL LOAD EFF: 94.5	3/4 LOAD EFF: 94.5	1/2 LOAD EFF: 94.1	GTD. EFF	ELEC. TYPE	NO LOAD AMPS	
FULL LOAD PF: 91.5	3/4 LOAD PF: 90.5	1/2 LOAD PF: 86	93.6	SQ CAGE INV RATED	48 / 24	

F.L. TORQUE	F.L. TORQUE LOCKED ROTOR AMPS		B.D. TORQUE	F.L. RISE°C	
147 LB-FT	1450 / 725	230 LB-FT 156	410 LB-FT 279	65	

SOUND PRESSURE @ 3 FT.	SOUND POWER	ROTOR WK^2	MAX. WK^2	SAFE STALL TIME	STARTS /HOUR	APPROX. MOTOR WGT
80 dBA	90 dBA	16.5 LB-FT^2	65 LB-FT^2	20 SEC.	2	1300 LBS.

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

DE BRACKET TYPE	ODE BRACKET	MOUNT TYPE	ORIENTATION	SEVERE DUTY	HAZARDOUS LOCATION	DRIP COVER	SCREENS	PAINT
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
6313	6313					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

NONE FT-LB NONE V NONE Hz

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> DATE: 06/22/2017 12:13:13 AM FORM 3531 REV.3 02/07/99

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

