PRODUCT INFORMATION PACKET



Model No: 405TSTGS6503 Catalog No: E578

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



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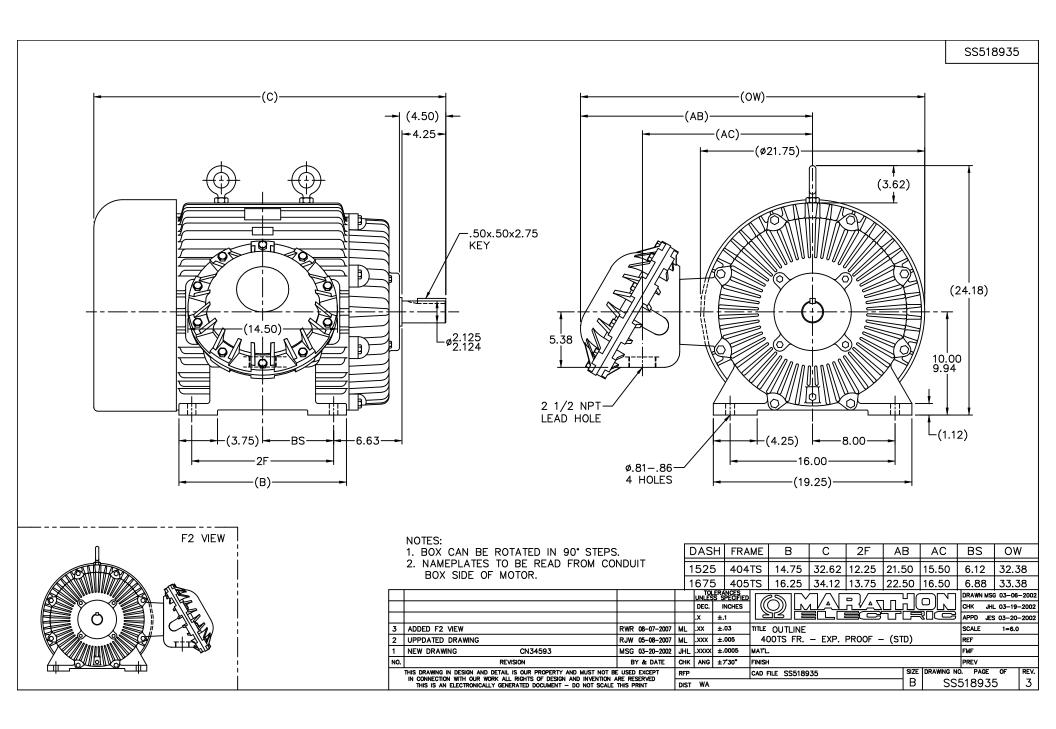
Nameplate Specifications

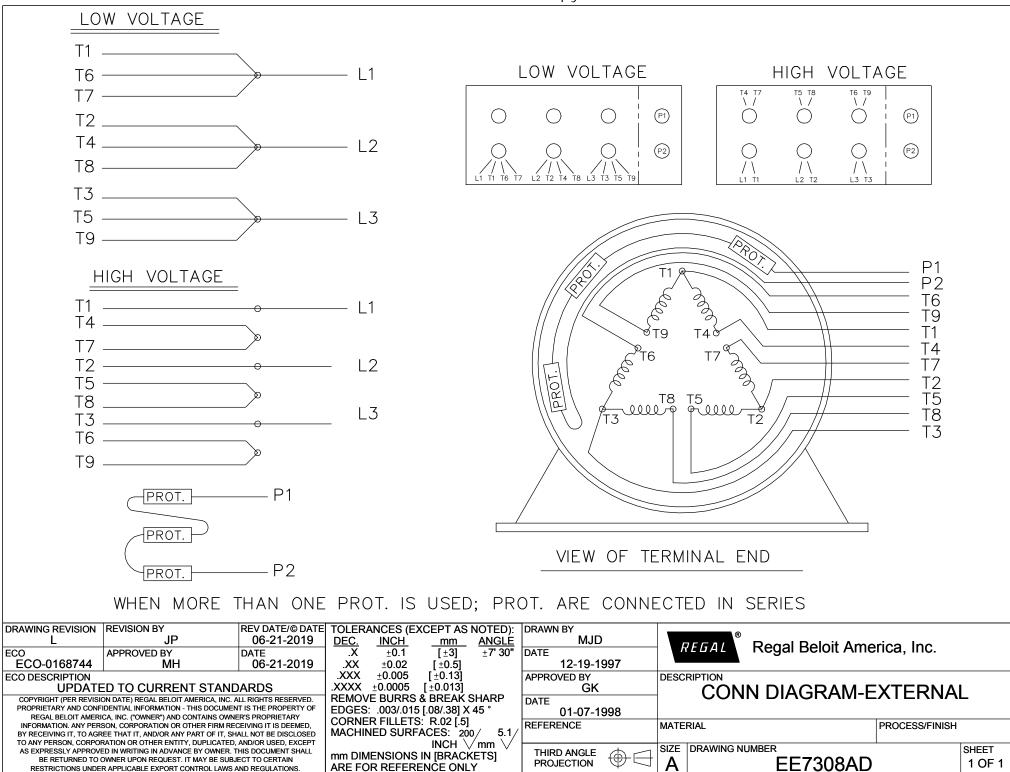
Phase	3	Output HP	100 Hp
Output KW	75.0 kW	Voltage	230/460 V
Speed	3565 rpm	Service Factor	1.15
Frame	405TS	Enclosure	Explosion Proof Fan cooled
Thermal Protection	Thermostat	Efficiency	94.5 %
Ambient Temperature	40 °C	Frequency	60 Hz
Current	216.0/108.0 A	Power Factor	91.5
Duty	Continuous	Insulation Class	F
Design Code	В	KVA Code	G
Drive End Bearing Size	6313	Opp Drive End Bearing Size	6313
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 T3B

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	TS	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		
Outline Drawing	B-SS518935-1675	Connection Drawing	A-EE7308AD

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CERTIFICATION DATA SHEET

 Model#:
 405TSTGS6503 BR
 WINDING#:
 T405247 R3 1

 CONN. DIAGRAM:
 A-EE7308AD
 ASSEMBLY:
 F1 ONLY

OUTLINE: B-SS518935-1675

TYPICAL MOTOR PERFORMANCE DATA

НР	KW		SYN	C. RPM	F.L. RPM	FRAME	ENCLOS	SURE	KV	A CODE	DESIGN
100	75		3600		3565	405TS	EPF	EPFC		G	В
PH	Hz	VOL	тѕ	FL AMPS	START TYPE	DUTY	INSL	S.	F		ELEVATION
3	60	230/4	460	216/108	LINE OR INVERTER	CONTINUOU	F1	1.1	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	LOCKED ROTOR AMPS	L.R. TORQUE	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

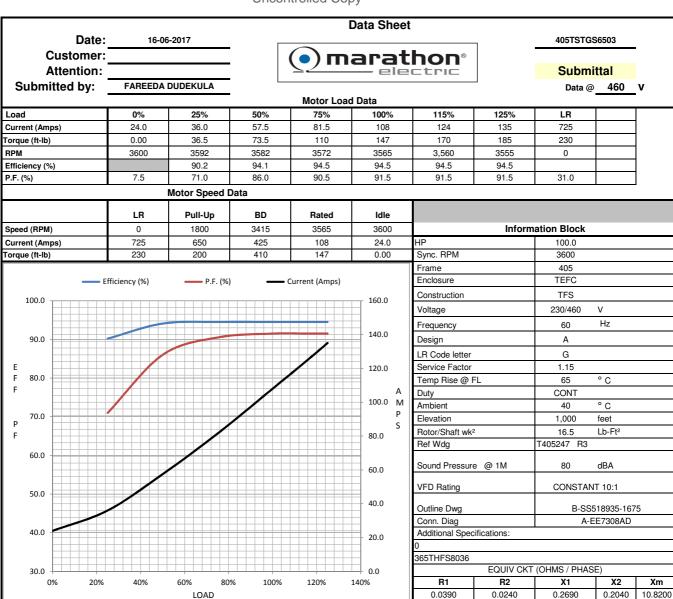
ENCODER: NONE NONE NONE NONE NONE PPR

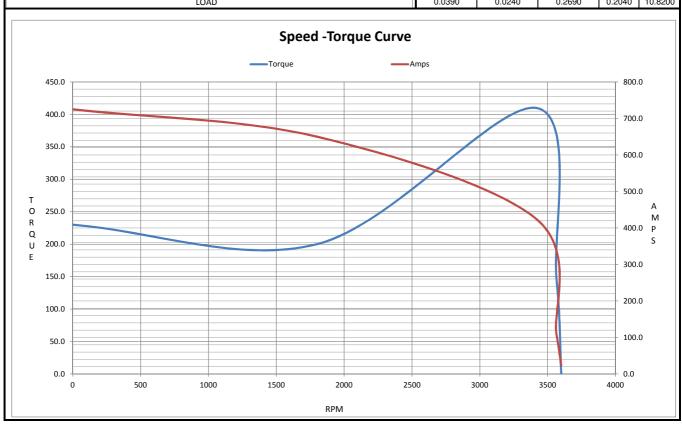
BRAKE: NONE NONE NONE P/N NONE NONE NONE

NONE FT-LB NONE V NONE Hz

N O T E S

> DATE: 06/22/2017 12:13:13 AM FORM 3531 REV.3 02/07/99 ** Subject to change without notice.





CERTIFICATE OF COMPLIANCE

 Certificate Number
 20220524- E12044

 Report Reference
 E12044-19750529

 Report Reference
 2022 MAY 24

Issue Date 2022-MAY-24

Issued to: REGAL BELOIT AMERICA INC

1946 W COOK RD

FORT WAYNE IN 46818

Tradename: Marathon

This certificate confirms that representative samples of

MOTORS FOR USE IN HAZARDOUS LOCATIONS

Electric motors for use in hazardous locations; Class I, Groups C and D; Class II, Groups F and G; Inclusive of Model Number 405TSTGS6503 (may have prefix and/or

suffix characters).

Have been investigated by UL in accordance with the

Standard(s) indicated on this Certificate.

Standard(s) for Safety: UL 674 - Electric Motors and Generators for Use in Division

1 Hazardous (Classified) Locations,

CSA C22.2 No. 145, Electric Motors and Generators for

Use in Hazardous (Classified) Locations

Additional Information: See the UL Online Certifications Directory at

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Only those products bearing the UL Mark should be considered as being UL Certified and covered under UL's Follow-Up Services.

Look for the UL Certification Mark on the product.

This is to certify that representative samples of the product as specified on this certificate were tested according to the current UL requirements.

Bamaly

Bruce Mahrenholz, Director North American Certification Program

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