PRODUCT INFORMATION PACKET



Model No: 405TSTGS16531
Catalog No: U082A
Hazardous Duty® Explosion Proof Motor, 100 & 75 HP, 3 Ph, 60 & 50 Hz, 230/460 & 190/380 V, 1800 & 1500 RPM, 405TS Frame, EPFC



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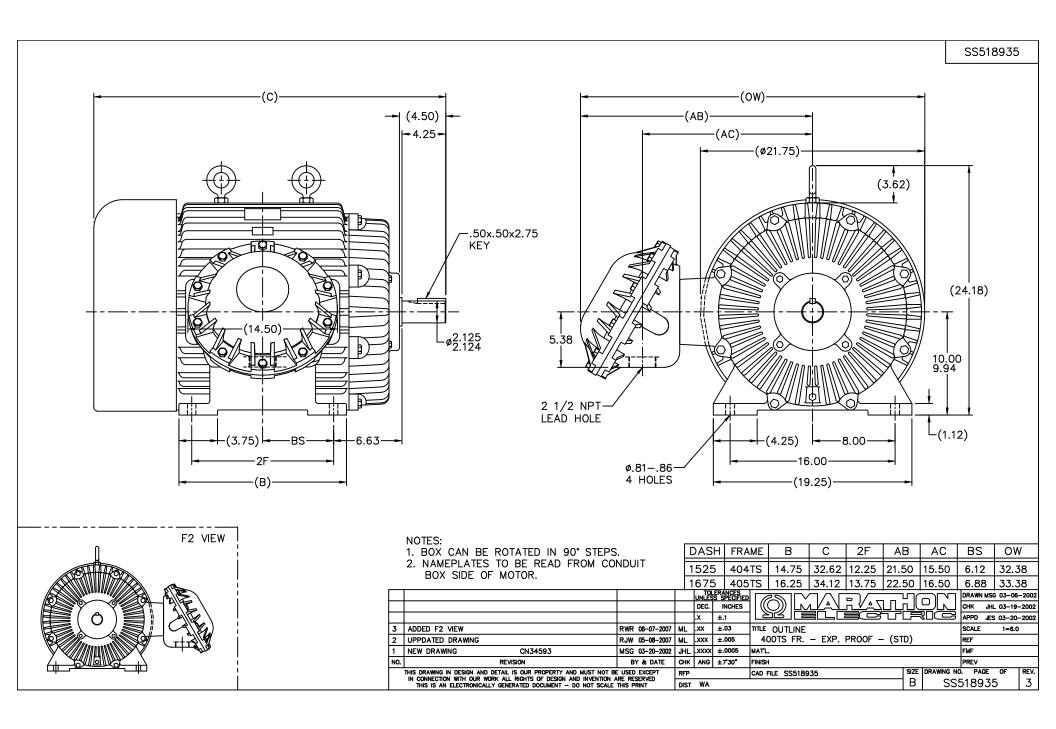
Nameplate Specifications

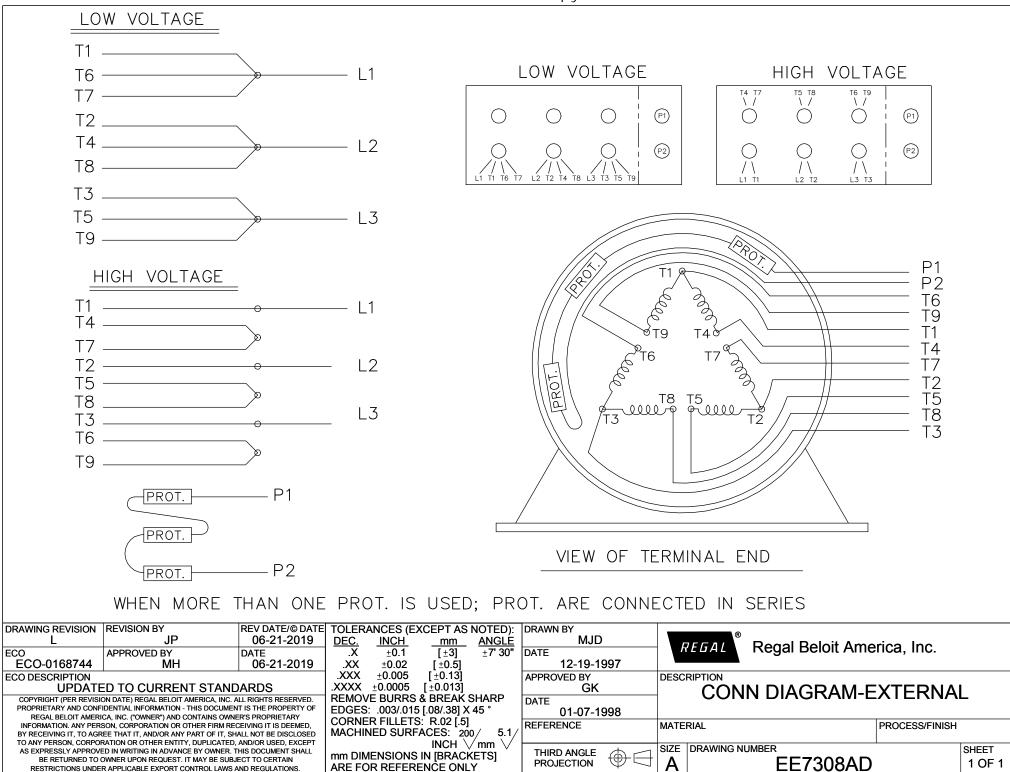
Phase	3	Output HP	100 & 75 Hp	
Output KW	75.0 & 56.0 kW	Voltage	230/460 & 190/380 V	
Speed	1780 & 1485 rpm	Service Factor	1.15 & 1.15	
Frame	405TS	Enclosure	Explosion Proof Fan cooled	
Thermal Protection	Thermostat	Efficiency	95.4 & 95.8 %	
Ambient Temperature	40 °C	Frequency	60 & 50 Hz	
Current	226/113 & 204/102 A	Power Factor	87	
Duty	Continuous	Insulation Class	F	
Design Code	В	KVA Code	G	
Drive End Bearing Size	6316	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	ectrical Type Squirrel Cage Inverter Rated		Line Or Inverter	
Poles	4	Rotation	Reversible	
Resistance Main	.054 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 2:1/VARIABLE 10:1			
Outline Drawing	B-SS518935-1675	Connection Drawing	A-EE7308AD	

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CERTIFICATION DATA SHEET

405TSTGS16531 AN WINDING#: T405472 NONE 1 Model#:

ASSEMBLY: F1 ONLY CONN. DIAGRAM: A-EE7308AD

102

OUTLINE: B-SS518935-1675

TYPICAL MOTOR PERFORMANCE DATA

НР	KW	SYI	NC. RPM	F.L. RPM	FRAME	ENCLO	SURE	KVA CODE	DESIGN
100&75	75&	56	1800	1780&1485	405TS	EPF	-c	F	В
РН	Hz	VOLTS	FL AMPS	START TYPE	DUTY	INSL	S.F	AMB°C	ELEVATION
3	60/50	230/460#190/	226/113&204/	LINE OR	CONTINUOU	F1	1.15/1.1	5 40	3300

FULL LOAD EFF: 95.4&95.8	3/4 LOAD EFF: 95.8	1/2 LOAD EFF: 95.8	GTD. EFF	ELEC. TYPE	NO LOAD AMPS
FULL LOAD PF: 87&87	3/4 LOAD PF: 86	1/2 LOAD PF: 81.5	95	SQ CAGE INV RATED	56 / 28

INVERTER

F.L. TORQUE	LOCKED ROTOR AMPS	L.R. TORQUE	B.D. TORQUE	F.L. RISE°C
295 LB-FT	1350 / 675	445 LB-FT 151	715 LB-FT 242	75

SOUND PRESSURE @ 3 FT.	SOUND POWER	ROTOR WK^2	MAX. WK^2	SAFE STALL TIME	STARTS /HOUR	APPROX. MOTOR WGT
72 dBA	82 dBA	27 LB-FT^2	550 LB-FT^2	25 SEC.	2	1400 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
6316	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 2:1 INV. HP SPEED RANGE: NONE

ENCODER: NONE NONE NONE NONE NONE PPR

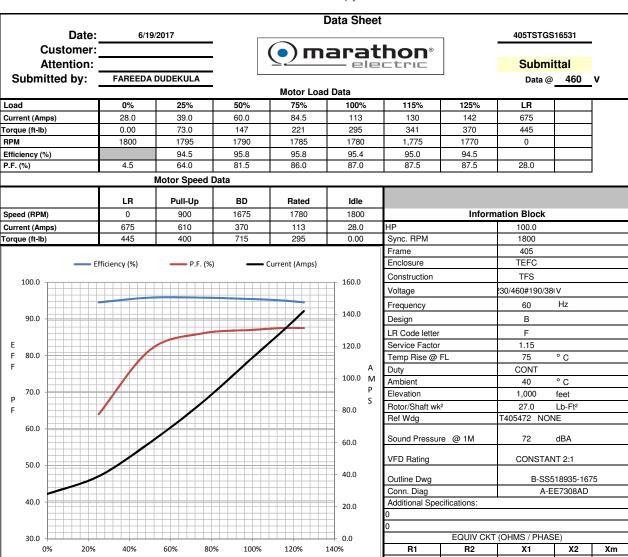
BRAKE: NONE NONE NONE P/N NONE NONE NONE

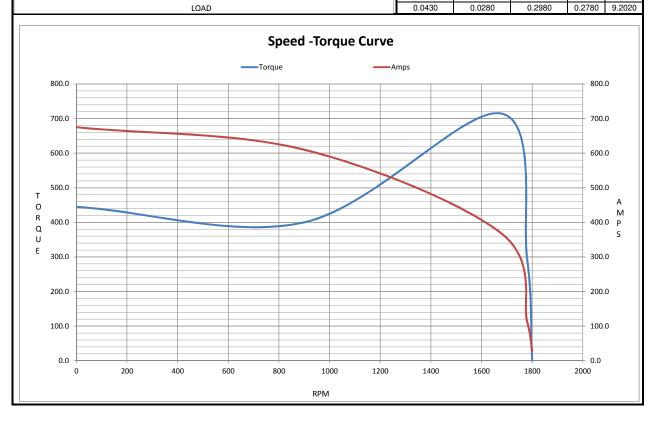
- FT-LB NONE V NONE Hz

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> DATE: 06/22/2017 12:12:20 AM FORM 3531 REV.3 02/07/99

^{**} Subject to change without notice.





CERTIFICATE OF COMPLIANCE

 Certificate Number
 20220524- E12044

 Report Reference
 E12044-19750529

 Result Results
 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 405TSTGS16531 (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

https://iq.ulprospector.com for additional information.

This *Certificate of Compliance* does not provide authorization to apply the UL Mark. Only the UL Follow-Up Services Procedure provides authorization to apply the UL Mark.

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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