## PRODUCT INFORMATION PACKET

Model No: 405TSTFS6501 Catalog No: E613 Severe Duty Motor, 100 HP, 3 Ph, 60 Hz, 460 V, 3600 RPM, 405TS Frame, TEFC



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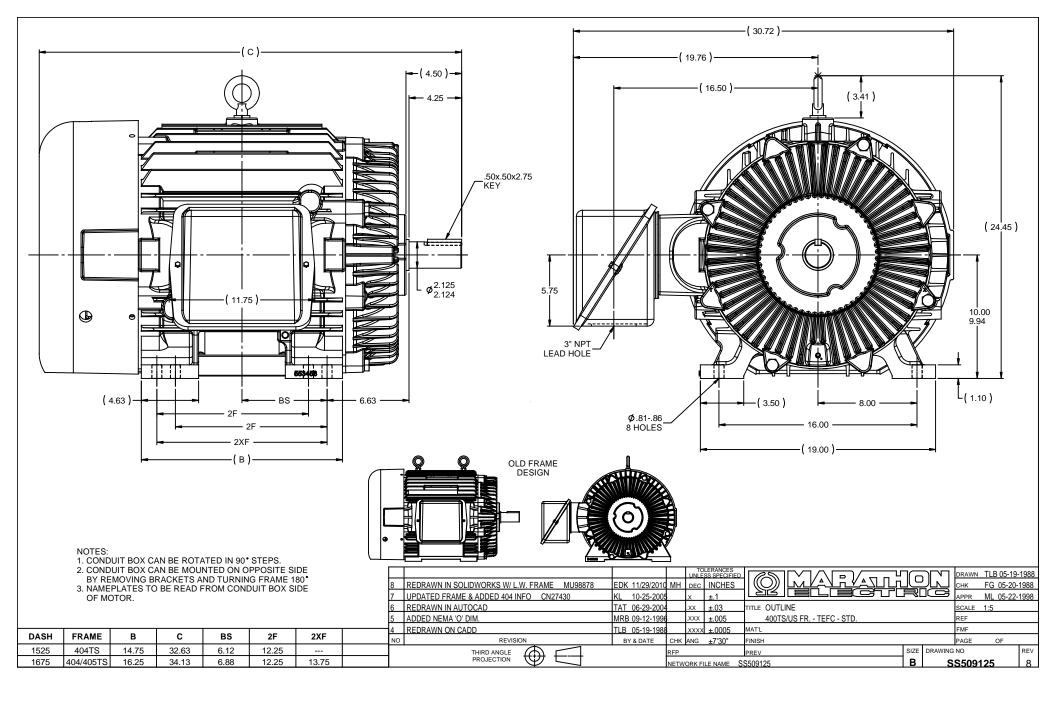
### Nameplate Specifications

Output HP	100 Hp	Output KW	75.0 kW
Frequency	60 Hz	Voltage	460 V
Current	108.0 A	Speed	3565 rpm
Service Factor	1.15	Phase	3
Efficiency	95 %	Power Factor	91.5
Duty	Continuous	Insulation Class	F
Design Code	В	KVA Code	G
Frame	405TS	Enclosure	Totally Enclosed Fan Cooled
Thermal Protection	No Protection	Ambient Temperature	40 °C
Drive End Bearing Size	6313	Opp Drive End Bearing Size	6313
UL	Recognized	CSA	Υ
CE	Υ	IP Code	54
Number of Speeds	1		

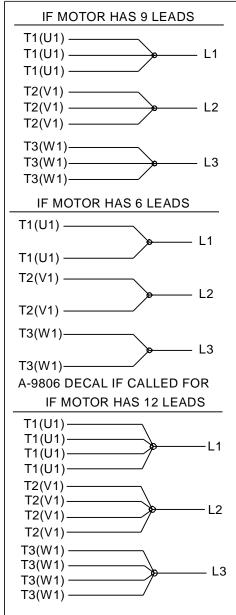
### **Technical Specifications**

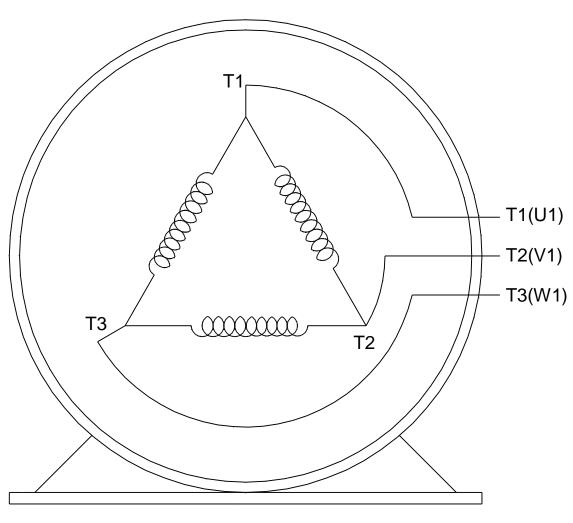
Electrical Type	Squirrel Cage Inverter Rated	Starting Method	Line Or Inverter
Poles	2	Rotation	Reversible
Resistance Main	.051 Ohms	Mounting	Rigid Base
Motor Orientation	Horizontal	Drive End Bearing	Ball
Opp Drive End Bearing	Ball	Frame Material	Cast Iron
Shaft Type	TS	Overall Length	34.13 in
Frame Length	16.75 in	Shaft Diameter	2.125 in
Shaft Extension	4.5 in	Assembly/Box Mounting	F1/F2 Capable
Inverter Load	CONSTANT 2:1		
Outline Drawing	B-SS509125-1675	Connection Drawing	A-EE7300U

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# VIEW OF TERMINAL END

DRAWING REVISION	REVISION BY	DATE		
L	AJW	05-04-2015		
ECO	APPROVED BY	DATE		
ECO-0077067	EWH	05-05-2015		

## ECO DESCRIPTION UPDATED TO SOLIDWORKS

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IOLLIVAING	LOUN	LLSS	
OTHERWIS	SE SPE	CIFIED:	
DEC. IN	NCH_	<u>mm</u>	<u>ANGLE</u>
.X	±0.1	[±2.5]	±7' 30"
		[±0.51]	
XXX ±0	0.005	[±0.127]	
.XXXX ±0	.0005	[±0.0127]	
REMOVE B	URRS	& BREAK S	HARP
		[.076/.381]	
CORNER F	ILLETS	S: R.02 [.51]	
MACHINED	SURF	ACES: 200	
		INCH ∨	mm V
mm SHOW	N IN [E	RACKETS]	

TOLERANCES LINLESS

	DRAWN BY DRS  DATE 09-27-1996		REGAL <sup>™</sup> Regal Beloit America, Inc.					
	APPROVED BY <b>GK</b>	DESC	CONN DIAGRAM-E	YTERNA	1			
	DATE 09-30-1996	3Ø SINDLE VOLTAGE						
,	REFERENCE	MATE	RIAL	PROCESS/FINISH				
	THIRD ANGLE PROJECTION	SIZE	DRAWING NUMBER EE7300U		SHEET 1 OF 1			

#### **CERTIFICATION DATA SHEET**

 Model#:
 405TSTFS6501 DU
 WINDING#:
 T405247 NONE 2

 CONN. DIAGRAM:
 A-EE7300U
 ASSEMBLY:
 F1/F2 CAPABLE

**OUTLINE**: B-SS509125-1675

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#### **TYPICAL MOTOR PERFORMANCE DATA**

HP	KV	V	SYN	IC. RPM	F.L. RPM	FRAME	ENCLOS	SURE	KVA	CODE	DESIGN
100	75	i	;	3600	3565	405TS	TEF	c		G	В
PH	Hz	VOI	LTS	FL AMPS	START TYPE	DUTY	INSL	S.F	: ]	AMB°C	ELEVATION
3	60	46	60	108	LINE OR	CONTINUOU	F1	1.15	5	40	3300

FULL LOAD EFF: 95	3/4 LOAD EFF: 95	1/2 LOAD EFF: 94.5	GTD. EFF	ELEC. TYPE	NO LOAD AMPS
FULL LOAD PF: 91.5	3/4 LOAD PF: 90.5	1/2 LOAD PF: 86	94.5	SQ CAGE INV RATED	24

F.L. TORQUE	LOCKED ROTOR AMPS	L.R. TORQUE	B.D. TORQUE	F.L. RISE°C
147 LB-FT	725	230 LB-FT 156	410 LB-FT 279	70

SOUND PRESSURE @ 3 FT.	SOUND POWER	ROTOR WK^2	MAX. WK^2	SAFE STALL TIME	STARTS /HOUR	APPROX. MOTOR WGT
78 dBA	88 dBA	16.5 LB-FT^2	65 LB-FT^2	15 SEC.	2	1300 LBS.

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

DE BRACKET TYPE	ODE BRACKET TYPE	MOUNT TYPE	ORIENTATION	SEVERE DUTY	HAZARDOUS LOCATION	DRIP COVER	SCREENS	PAINT
STANDARD	STANDARD	RIGID	HORIZONTAL	PREMIUM SEVERE DUTY	DIVISION 2 T2B	FALSE	NONE	BLUE (EPOXY)

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			
NONE	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: 1.5 X BASE SPEED

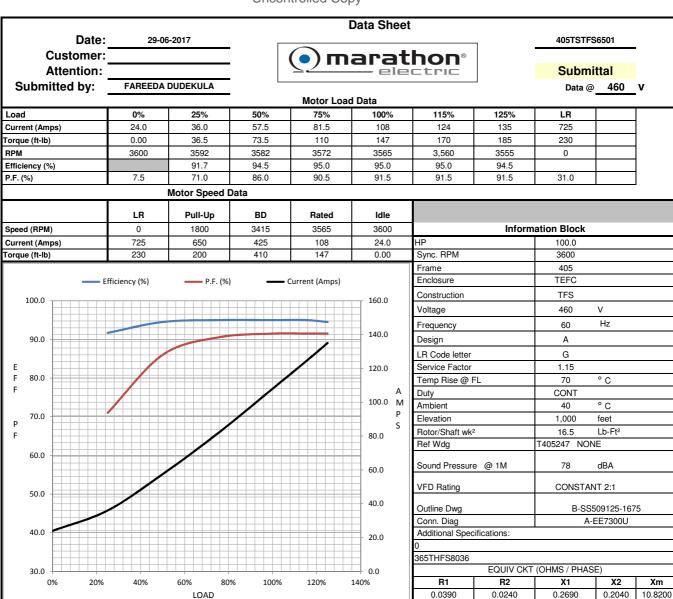
ENCODER: NONE NONE NONE NONE NONE PPR

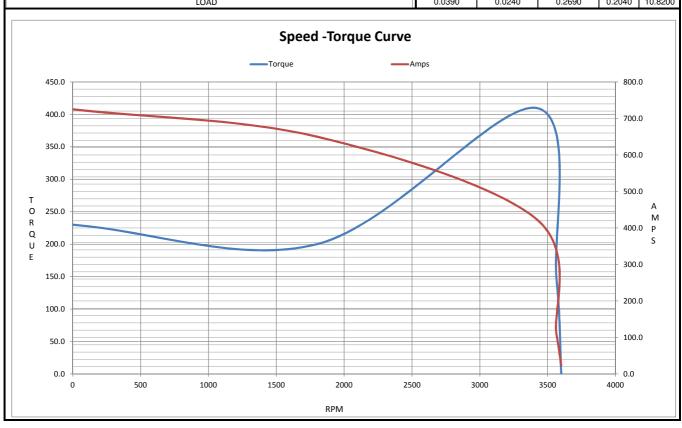
BRAKE: NONE NONE NONE P/N NONE NONE NONE

NONE FT-LB NONE V NONE Hz

DATE: 06/22/2017 12:09:38 AM

FORM 3531 REV.3 02/07/99
\*\* Subject to change without notice.







# **EC Declaration of Conformity**

The undersigned representing the manufacturer:

Regal Beloit America 100 East Randolph St. Wausau, WI 54401 and the authorized representative established within the Community:

Marathon Electric UK 6F Thistleton Road Ind. Estate Market Overton Oakham, Rutland LE15 7PP UK

are committed to providing customers with products that comply with applicable regulations and international protocols to which they are subject, including the requirements of the European Parliament Directive on the Harmonization of the laws relating to electrical equipment designed for use within certain voltage limits (2014/35/EU).

Regal Beloit America declares that the following product(s), to which this declaration relates, are in conformity with the relevant sections of the EC standards listed below.

This statement supersedes any statements previously issued pertaining to the product(s) listed below and is subject to change without notice.

Model No: 405TSTFS6501

(Model No. may contain prefix and/or suffix characters)

Catalog No : E613

Rework No : N/A

### Directives:

Low Voltage Directive 2014/35/EU

### Harmonized Standards Used:

EN 60034-1: 2010 (IEC 60034-1: 2010)

Michael A Logsdon

EN 60034-5: 2001/A1:2007 (IEC 60034-5: 2000/A1:2006)

Authorized Representative:

Michael A. Logsdon Vice President, Technology

Created on 09/01/2022

Authorized Representative in the Community:

J. Cers

Julian Clark Marketing Engineer