PRODUCT INFORMATION PACKET

Model No: 405TSTFCD6001
Catalog No: GT1045A
General Purpose Motor, 100 HP, 3 Ph, 60 Hz, 230/460 V, 3600 RPM, 405TS Frame, TEFC



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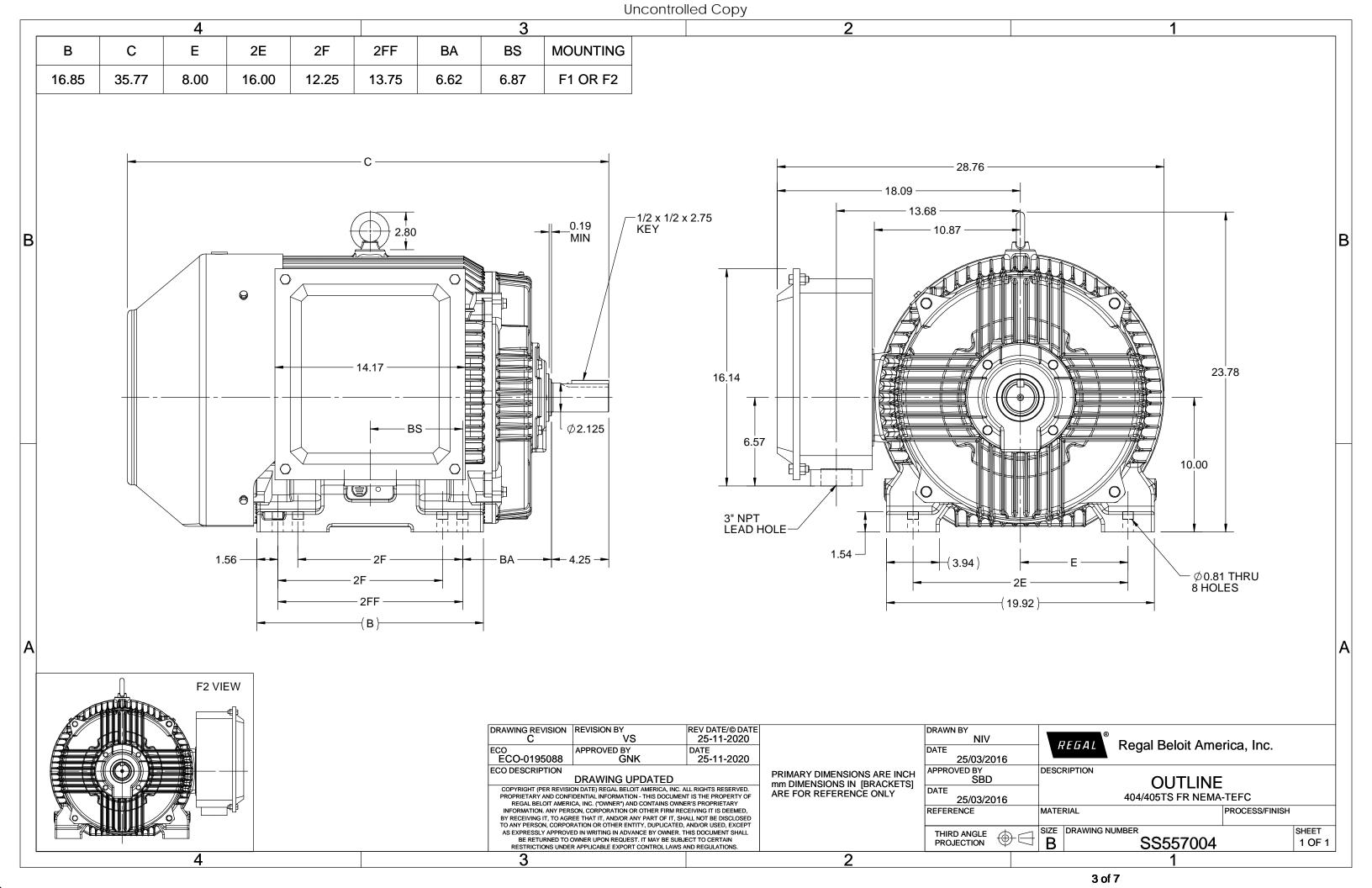
Nameplate Specifications

Output HP	100 Hp	Output KW	75.0 kW
Frequency	60 Hz	Voltage	230/460 V
Current	222.0/111.0 A	Speed	3575 rpm
Service Factor	1.15	Phase	3
Efficiency	94.5 %	Power Factor	89
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	6314	Opp Drive End Bearing Size	6314
UL	Listed	CSA	Υ
CE	Υ	IP Code	55
Hazardous Location	DIVISION 2 T2B	Number of Speeds	1

Technical Specifications

Electrical Type	Squirrel Cage Inverter Rated	Starting Method	Part Wdg Start Low Volt Only & Wye Start Delta Run Or Inverter
Poles	2	Rotation	Reversible
Resistance Main	.056 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	35.77 in
Shaft Diameter	2.125 in	Shaft Extension	4.25 in
Assembly/Box Mounting	F1/F2 CAPABLE	Inverter Load	CONSTANT 2:1/VARIABLE 10:1
Outline Drawing	SS557004	Connection Drawing	EE7308AA

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Uncontrolled Copy T12 (W4) T1 (U1) -T6 (W2) -T7 (U3) -T2 (V1) -T4 (U2) -- T6 (W2) T8 (V3) -- T9 (W3) T10 (U4) - T12 (W4) T3 (W1) - T1 (U1) T5 (V2) -T4 (U2) T9 (W3) -T7 (U3) T11 (V4) -T10 (U4) LOW VOLTAGE T2 (V1) T8 T5 Ti 111 T5 (V2) T12 (W4) - T8 (V3) T1 (U1) - T11 (V4) T4 (U2) - T3 (W1) T7 (U3) -T2 (V1) T10 (U4) -T5 (V2) T8 (V3) -T3 (W1) VIEW OF TERMINAL END T11 (V4) T6 (W2) T9 (W3) **HIGH VOLTAGE** DRAWING REVISION REVISION BY DRAWN BY 07-17-2015 LZ AJW REGAL Regal Beloit America, Inc. APPROVED BY T. VUE 07-17-2015 ECO-0081632 01-12-1994 ECO DESCRIPTION APPROVED BY DESCRIPTION REV'D IEC MARKINGS PER IEC 60034-8 GK CONN DIAGRAM-EXTERNAL COPYRIGHT REGAL BELOIT AMERICA, INC. ALL RIGHTS RESERVED. DATE 3Ø-2/1 DELTA-12 LEADS 01-14-1994 REFERENCE MATERIAL PROCESS/FINISH BY RECEIVING IT, TO AGREE THAT IT, AND/OR ANY PART OF IT, SHALL NOT BE DISCLOSED TO ANY PERSON, CORPORATION OR OTHER ENTITY, DUPLICATED, AND/OR USED, EXCEPT

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PROJECTION

ECO

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RESTRICTIONS UNDER APPLICABLE EXPORT CONTROL LAWS AND REGULATIONS

4 of 7

SIZE DRAWING NUMBER

EE7308AA

SHEET

1 OF 1

CERTIFICATION DATA SHEET

405TSTFCD6001 AA WINDING#: HE32502006 NONE 2 Model#: ASSEMBLY: CONN. DIAGRAM: EE7308AA F1/F2 CAPABLE

OUTLINE: SS557004

89&88.5

TYPICAL MOTOR PERFORMANCE DATA

HP	KW	SYI	NC. RPM	F.L. RPM	FRAME	ENCLOS	SURE KV	A CODE	DESIGN
100&75	75&5	56	3600	3575&2978	405TS	TEF		G	В
PH	Hz	VOLTS	FL AMPS	START TYPE	DUTY	INSL	S.F	AMB°C	ELEVATION
3	60/50	230/460#190/	222/1118203/	Y START D	CONTINUOU	F7	1 15/1 15	40	3300

L				380		102	RUN OR INV	S					
	FULL LOAD EFF: 94.5&94.5		3/4	LOAD EFF: 94	1.5	1/2 LO	AD EFF: 94.1	GTD. E	FF	ELEC. TYPE		NO LO	DAD AMPS
Γ	FULL LOA	D PF:	3/4	LOAD PF: 85	.8	1/2 L0	DAD PF: 79	93.6		SQ CAGE INV RA	ATED		68 / 34

F.L. TORQUE LOCKED ROTOR AMPS		L.R. TORQUE	B.D. TORQUE	F.L. RISE°C	
147 LB-FT	1450 / 725	265 LB-FT 180	427 LB-FT 290	65	

SOUND PRESSURE @ 3 FT.	SOUND POWER	ROTOR WK^2	MAX. WK^2	SAFE STALL TIME	STARTS /HOUR	APPROX. MOTOR WGT
78 dBA	88 dBA	19 LB-FT^2	65 LB-FT^2	15 SEC.	2	1500 LBS.

*** SUPPLEMENTAL INFORMATION ***

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

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
6314	6314					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: VARIABLE 10:1 INV. HP SPEED RANGE: NONE

ENCODER: NONE NONE NONE NONE NONE PPR

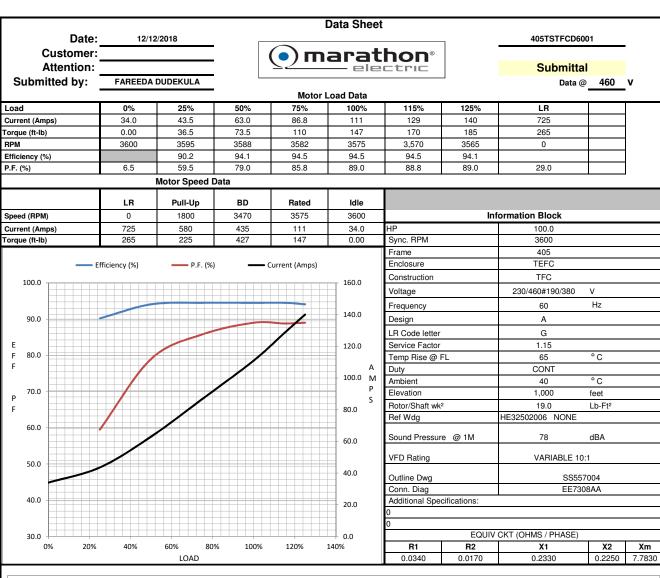
BRAKE: NONE NONE NONE P/N NONE NONE NONE

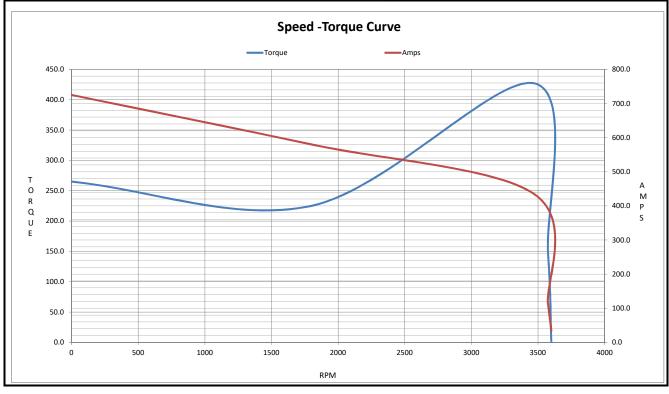
NONE FT-LB NONE V NONE Hz

Ν 0 Т Е S

> DATE: 07/03/2017 02:02:44 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: 405TSTFCD6001

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

Catalog No: GT1045A

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:

<u>Authorized Representative in the Community:</u>

J. cers

Michael A. Logsdon Vice President, Technology

Created on 09/01/2022

Julian Clark Marketing Engineer

(€ 22