PRODUCT INFORMATION PACKET

Model No: 405TSTFCD6005 Catalog No: GT1145A General Purpose Motor, 100 HP, 3 Ph, 60 Hz, 575 V, 3600 RPM, 405TS Frame, TEFC



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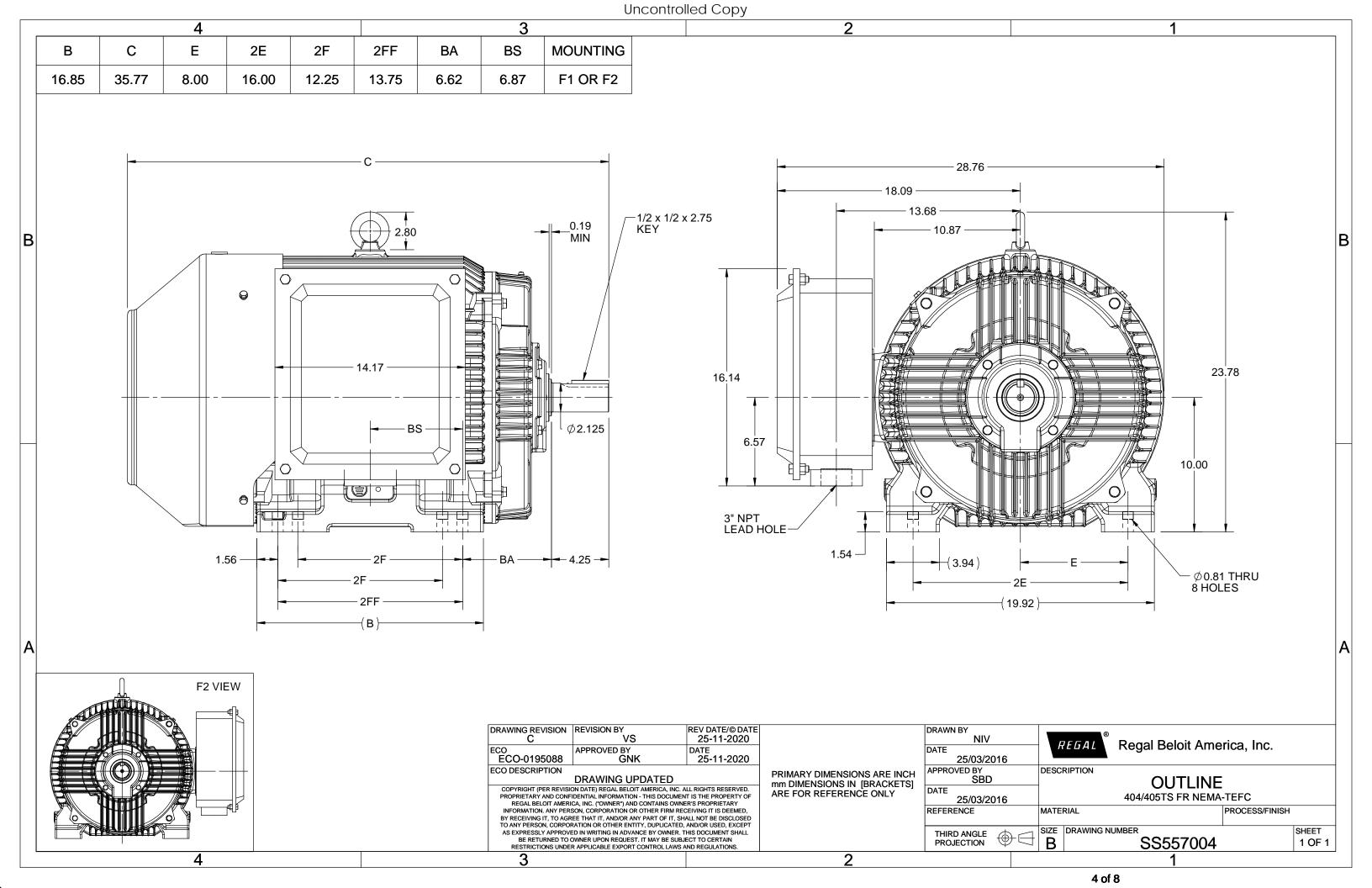
Nameplate Specifications

Output HP	100 Hp	Output KW	75.0 kW
Frequency	60 Hz	Voltage	575 V
Current	89.0 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	Line 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	TS	Overall Length	35.77 in
Frame Length	18.11 in	Shaft Diameter	4.250 in
Shaft Extension	2.125 in	Assembly/Box Mounting	F1/F2 CAPABLE
Inverter Load	CONSTANT 2:1/VARIABLE 10:1		
Outline Drawing	SS557004	Connection Drawing	EE7300

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P.O. BOX 8003 WAUSAU, WI 54401-8003 PH. 715-675-3311

CERTIFICATION DATA SHEET
CUSTOMER: CUSTOMER PO#:

ORDER #: MODEL #: 405TSTFCD6005 AA

CONN. DIAGRAM: EE7300 CUSTOMER PART

OUTLINE: SS557004

WINDING #: HE32502006 3

TYPICAL MOTOR PERFORMANCE DATA

MOUNTING: F1/F2 CAPABLE

HP	kW	SYNC. RPM	F.L. RPM	FRAME	ENCLOSURE	KVA CODE	DESIGN
100	75.0	3600	3575	405TS	TEFC	G	В

PH	Hz	VOLTS	AMPS	START TYPE	DUTY	INSL	S.F.	амв°С
3	60	575	89	LINE OR INVERTER	CONTINUOUS	F7	1.15	40

FULL LOAD EFF: 94.	1.5	3/4 LOAD EFF:	94.5	1/2 LOAD EFF:	94.1	GTD. EFF	ELEC. TYPE
FULL LOAD PF: 89	9	3/4 LOAD PF:	85.8	1/2 LOAD PF:	79	93.6	SQ CAGE INV RATED

F.L. TORQUE	LOCKED ROTOR AMPS	L.R. TORQUE	B.D. TORQUE	F.L. RISE°C
147 LB-FT	580	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 TYPE	MOUNT TYPE	ORIENTATION	SEVERE DUTY	HAZARDOUS LOCATION	DRIP COVER	SCREENS	PAINT
STANDARD	STANDARD	RIGID	HORIZONTAL	FALSE	DIVISION 2 T2B	FALSE	NONE	BLUE (ENAMEL)

BEAR	RINGS	CDEACE	CHAFT TYPE	CDECYAL DE CDECYAL ODE		SHAFT	FRAME
DE	ODE	GREASE	SHAFT TYPE	SPECIAL DE	SPECIAL ODE	MATERIAL	MATERIAL
BALL	BALL	POLYREX EM	TS	NONE	NONE	1045 HOT ROLLED (C-204)	CAST IRON
6314	6314	POLIKEX EM	15	NONE	NONE	1043 HOT ROLLED (C-204)	CASTIRON

	THERMO-PROTE	THERMISTORS	CONTROL	SPACE HEATERS		
THERMOSTATS	PROTECTORS	WDG RTDs	BRG RTDs	INERMISIONS	CONTROL	SPACE REATERS
NONE	NOT	NONE	NONE	NONE	FALSE	NONE VOLTS

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

PREPARED BY: Fareeda Dudekula
DATE: 05/11/2018 07:37:15 AM
FORM 3531 REV.3 02/07/99
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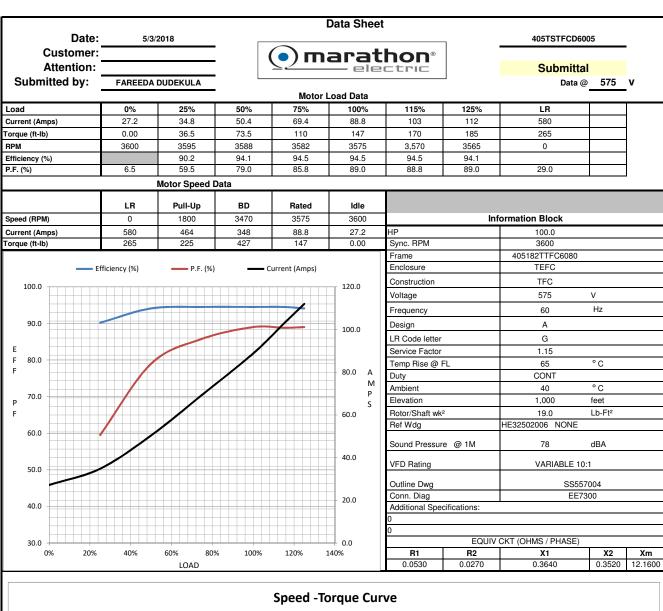
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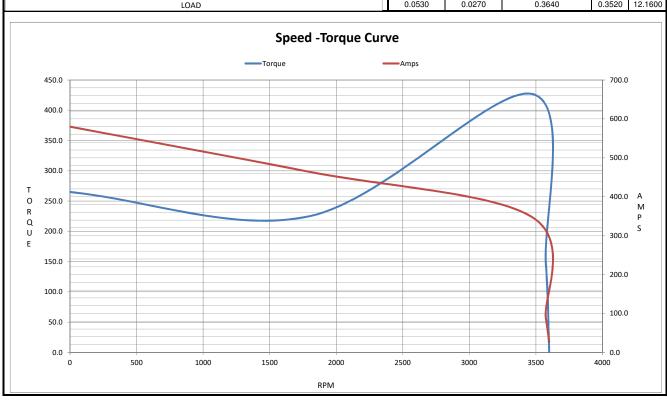
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EC Declaration of Conformity

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: 405TSTFCD6005

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

Catalog No: GT1145A

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

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