# PRODUCT INFORMATION PACKET



Model No: 405THFS9040 Catalog No: W601

XRI®-841 Severe Duty Motor, 100 HP, 3 Ph, 60 Hz, 575 V, 1800 RPM, 405T Frame, TEFC



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## Nameplate Specifications

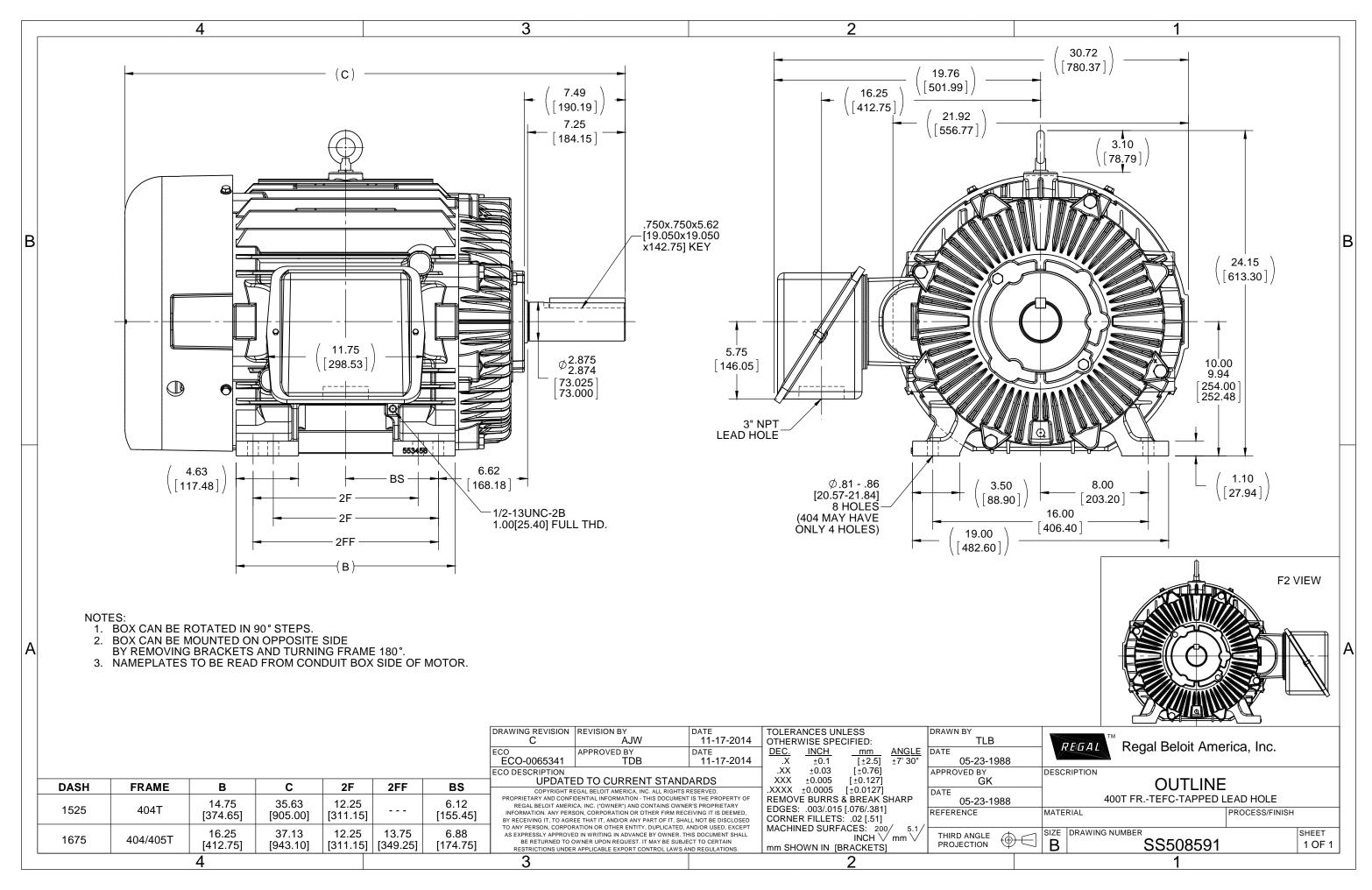
Phase	3	Output HP	100 Hp
Output KW	75.0 kW	Voltage	575 V
Speed	1780 rpm	Service Factor	1.15
Frame	405T	Enclosure	Totally Enclosed Fan Cooled
Thermal Protection	No Protection	Efficiency	95.4 %
Ambient Temperature	40 °C	Frequency	60 Hz
Current	90.5 A	Power Factor	87
Duty	Continuous	Insulation Class	F
Design Code	В	KVA Code	F
Drive End Bearing Size	6316	Opp Drive End Bearing Size	6313
UL	Recognized	CSA	Υ
CE	Υ	IP Code	56
Number of Speeds	1	Hazardous Location	DIVISION 2 T2B

## **Technical Specifications**

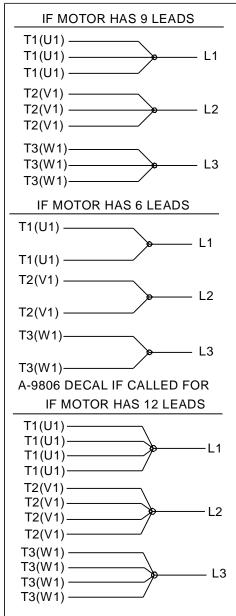
Electrical Type	Squirrel Cage Inverter Rated	Starting Method	Line Or Inverter
Poles	4	Rotation	Reversible
Resistance Main	.054 Ohms	Mounting	Rigid Base
Motor Orientation	Horizontal	Drive End Bearing	Ball
Opp Drive End Bearing	Ball	Frame Material	Cast Iron
Shaft Type	Т	Overall Length	37.14 in
Frame Length	16.75 in	Shaft Diameter	2.875 in
Shaft Extension	7.25 in	Assembly/Box Mounting	F1/F2 CAPABLE
Inverter Load	CONSTANT 10:1		
Outline Drawing	B-SS508591-1675	Connection Drawing	A-EE7300U

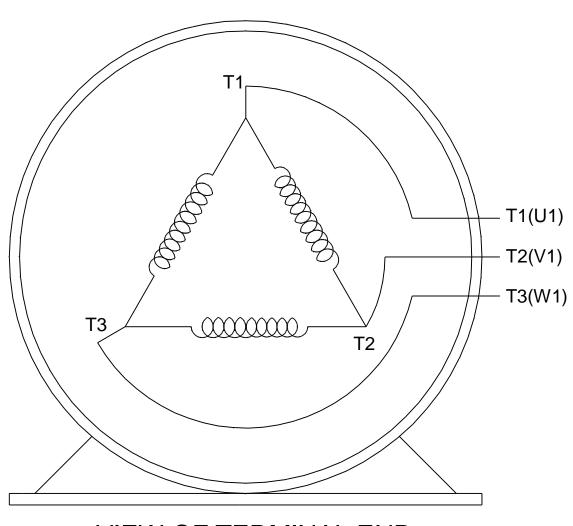
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# VIEW OF TERMINAL END

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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TOLER <i>i</i>	ANCES UN	ILESS	
OTHER'	WISE SPE	CIFIED:	
DEC.	<u>INCH</u>	<u>mm</u>	<u>ANGLE</u>
.X	±0.1	[±2.5]	±7' 30"
.XX	±0.02	[±0.51]	
XXX	±0.005	[±0.127]	
.XXXX	±0.0005	[±0.0127]	
REMOV	E BURRS	& BREAK S	HARP
EDGES:	.003/.015	5 [.076/.381]	X 45°
CORNE	R FILLETS	S: R.02 [.51	]
MACHIN	IED SURF	ACES: 200	5.1/
		INCH ∨	mm 🗸
mm SHO	OWN IN [E	BRACKETS]	

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	DRAWN BY DRS  DATE 09-27-19			REGAL Regal Beloit America, Inc.					
	APPROVED BY		DESC	RIPTION					
	GK		CONN DIAGRAM-EXTERNAL						
	DATE								
	09-30-19	996		3Ø SINDLE VOLTAGE					
	REFERENCE		MATE	RIAL	PROCESS/FINISH				
,									
	THIRD ANGLE	\$ _	SIZE	DRAWING NUMBER		SHEET			
	PROJECTION	$\oplus$	Α	EE7300U		1 OF 1			

#### **CERTIFICATION DATA SHEET**

405THFS9040 AP WINDING#: Model#: T405472 NONE 7 ASSEMBLY: CONN. DIAGRAM: A-EE7300U F1/F2 CAPABLE

OUTLINE: B-SS508591-1675

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

HP	KW	1	SYN	IC. RPM	F.L. RPM	FRAME	ENCLOS	SURE	KVA	CODE	DESIGN
100	75			1800	1780	405T	TEF	<u> </u>		F	В
РН	Hz	VO	LTS	FL AMPS	START TYPE	DUTY	INSL	S.	F	AMB°C	ELEVATION
3	60	5	75	90.5	LINE OR	CONTINUOU	F1	1.1	5	40	3300

FULL LOAD EFF: 95.4	3/4 LOAD EFF: 95.8	1/2 LOAD EFF: 95.8	GTD. EFF	ELEC. TYPE	NO LOAD AMPS
FULL LOAD PF: 87	3/4 LOAD PF: 86	1/2 LOAD PF: 81.5	95	SQ CAGE INV RATED	22.4

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INVERTER

F.L. TORQUE	F.L. TORQUE LOCKED ROTOR AMPS		B.D. TORQUE	F.L. RISE°C	
295 LB-FT	540	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 \*\*\*

DE BRACKET TYPE	ODE BRACKET	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	Т	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						
NONE	NOT	NONE	NONE	NONE	FALSE	NONE VOLTS

If Inverter equals NONE, contact factory for further information

INVERTER TORQUE: CONSTANT 10:1

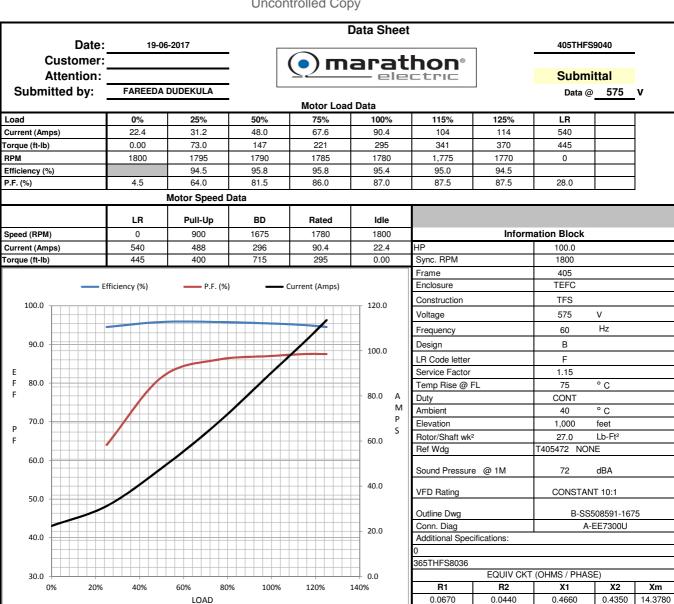
INV. HP SPEED RANGE: NONE ENCODER: NONE NONE NONE

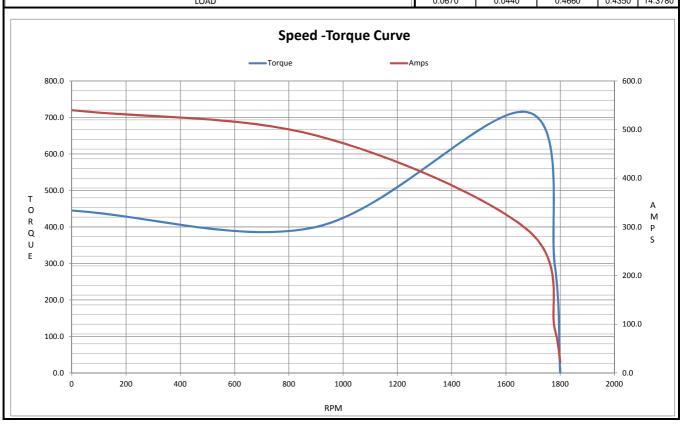
NONE NONE PPR

BRAKE: NONE NONE NONE P/N NONE NONE NONE

NONE FT-LB NONE V NONE Hz

DATE: 06/21/2017 08:16:42 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: 405THFS9040

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

Catalog No : W601

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:

J. Clus

Authorized Representative in the Community:

Michael A. Logsdon Vice President, Technology

Created on 09/01/2022

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Julian Clark Marketing Engineer