PRODUCT INFORMATION PACKET



Model No: 405THFCD9040 Catalog No: W601A

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



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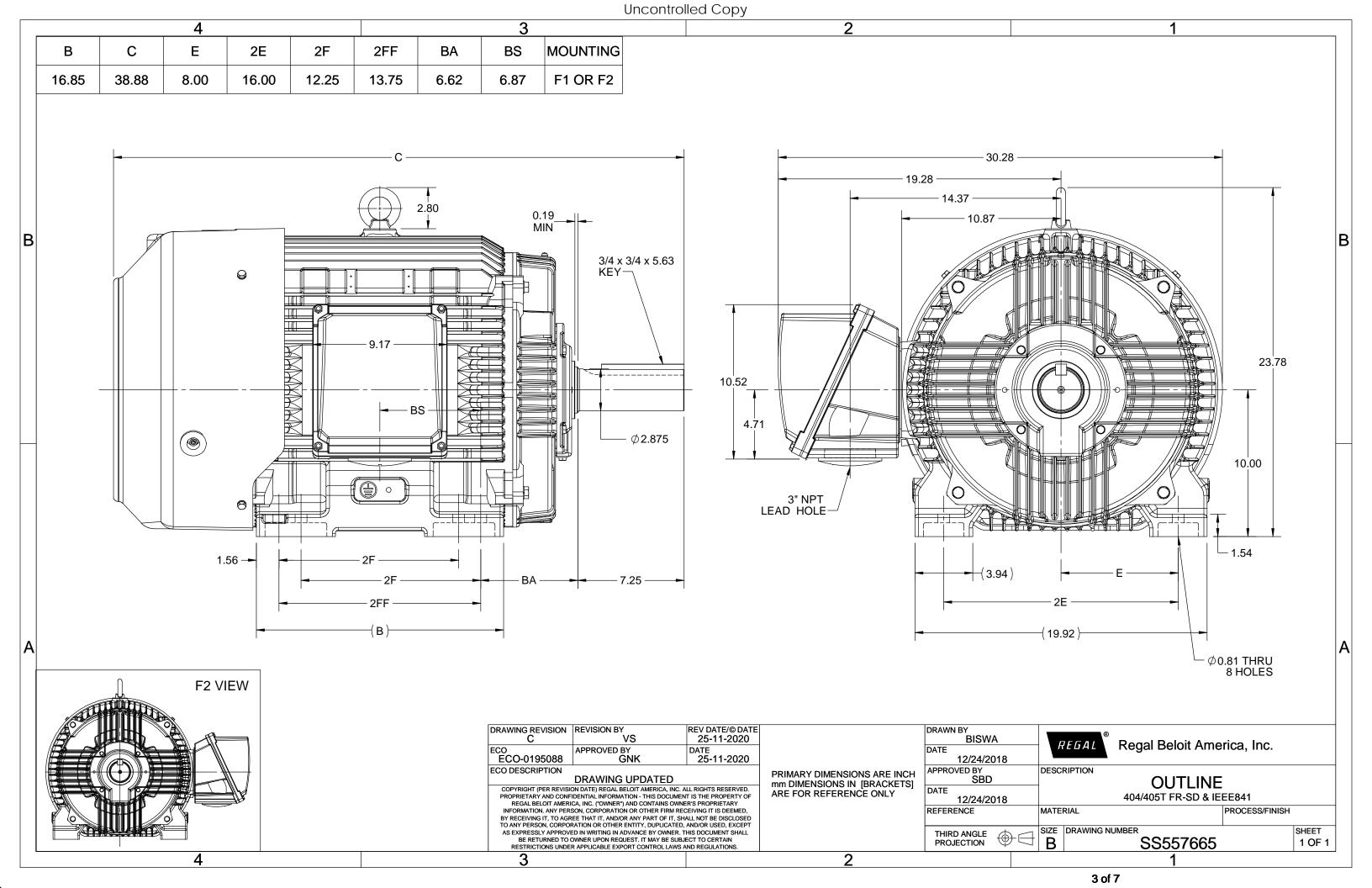
Nameplate Specifications

Phase	3	Output HP	100 Hp			
Output KW	75.0 kW	Voltage	575 V			
Speed	1785 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	н			
Design Code	В	KVA Code	G			
Drive End Bearing Size	6316	Opp Drive End Bearing Size	6314			
UL	Listed	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	.0555 Ohms	Mounting	Rigid Base			
Motor Orientation	Horizontal	Drive End Bearing	Ball			
Opp Drive End Bearing	Ball	Frame Material	Cast Iron			
Shaft Type	Т	Shaft Diameter	2.875 in			
Assembly/Box Mounting	F1/F2 CAPABLE	Inverter Load	CONSTANT 2:1/VARIABLE 10:1			
Connection Drawing	EE7300	Outline Drawing	SS557665			

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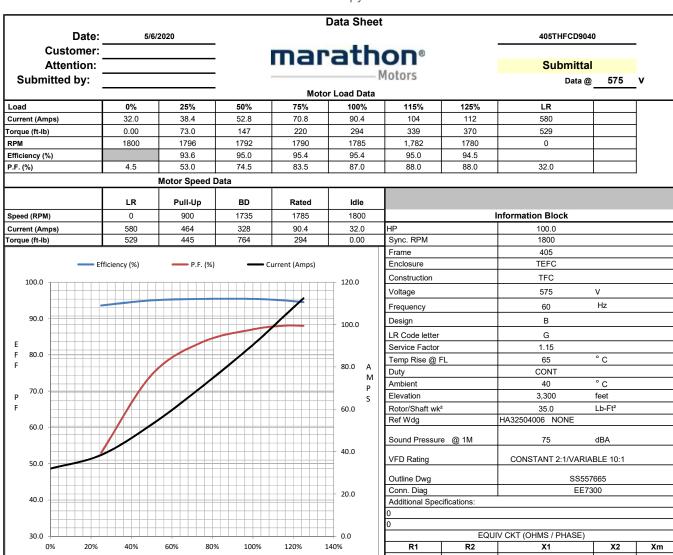


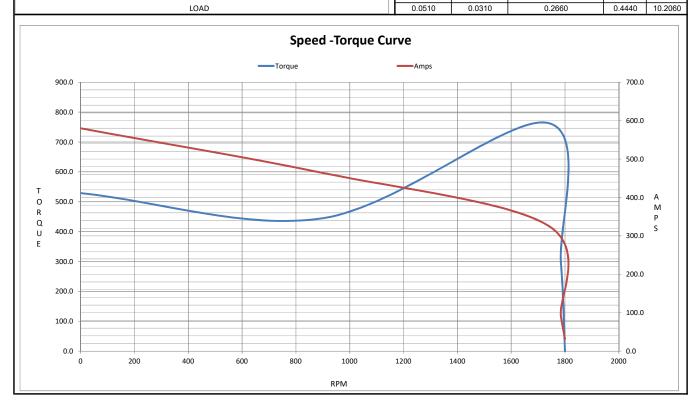


DATA VOLTS: 575

CERTIFICATION DATA SHEET

CONN. DI OUTLINE: WINDING:	:	EE7300 SS557665 HA32504006	NONE	3				CAT #:	405THFCD904 W(F1/F2 CAPABI	601A			
				TYI	PICAL I	MOTOR PERFORMA	NCE D	ATA					
HP	KW	SYNC RPM	FL RI	PM	FRAME		ENCLOSURE		TYPE KVA CO		ODE DES		
100	75	1800	1785		405T		TEFC		TFC	G		В	
PH	HZ	VOLTS	AMPS		START TYPE		DUTY		INSL S.F.		AMB (° C)	ELEV. (F	
3	60	575	90.5		LINE OR INVERTER		CONT		Н	1.15	40	3300	
	F.L. EFF	95.4	3/4 LD EFF	95.4		1/2 LD EFF	95.0	GTD EFF		ELECT. TY	/PE		
	F.L. PF	87.0	3/4 LD PF	83.5		1/2 LD PF	74.5	95.0		SQ CAGE INV			
F.L. T	ORQUE	LR AMPS		L.R. TORQUE		R. TORQUE	B.D. TORQUE		UE	F.L. RISE (° C)			
294	LB-FT	580		529	LB-FT	180%	764	LB-FT	260%	65			
SOUND F	PRESSURE	SOUND	ROTOR	WK²		MAX. LOAD WK ²	SAFE S	TALL TIME	START	S/HOUR	APF	OX.	
75	dBA	84 dBA	35.0	LB-FT ²	575	LB-FT ²	25	SEC.		2	1295	LB.	
			•		*** SUP	PLEMENTAL INFORMA	TION ***						
DE BRACKET TYPE		ODE BRACKET TYPE	MOUNT TYPE		OTOR SEVERE DUTY		HAZARDOUS LOCATION		DRIP COVER	VER SCREENS		PAINT	
STAN	NDARD	STANDARD	RIGID	HORIZ	ONTAL	PREMIUM SEVERE DUTY	DIVISI	ON 2 T2B	NO	NONE	BLUE (EPOXY)		
	RINGS	GREASE	SHAFT	TYPE		SPECIAL DE	SPEC	IAL ODE	SHAFT	MATERIAL	FRAME N	IATERIAL	
BALL 6316	BALL 6314	POLYREX EM			NONE		NONE 1045 H		1045 HOT R	5 HOT ROLLED (C-204)		CAST IRON	
THERMOSTATS NONE		PROTECTORS NOT	WDG R	_		BRG RTD's NONE		MISTORS ONE	CONTROL FALSE		SPACE HEATERS NA		
P1 (ol	hme/nh)	R2 (ohms/ph)	X1 (ohm	se/nh)		X2 (ohms/ph)	Ym (hme/nh)	VIRPATI	ON (in/sec)	ı		
R1 (ohms/ph) 0.0796875		0.0484375	0.415		0.69375		Xm (ohms/ph) 15.946875		0.080				
* N O T							If Inverter	INVERT		of for further inform CONSTANT 2:1, NONE		10:1	
E S								ENCODER: NONE	NONE				
*								NONE			NONE	PPR	
PREPARED BY: DATE: 5/13/2020					BRAKE: N FT-LB:	ONE	NONI NA	E					
FORM: 3!	531 REV_4							VOLTAGE:		ONE		HZ	
	OO I I \ \ \ \ \ \ \	4441100											







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: 405THFCD9040

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

Catalog No: W601A

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

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