PRODUCT INFORMATION PACKET

Model No: 405TSTFCD6003
Catalog No: GT1245A
General Purpose Motor, 100 HP, 3 Ph, 60 Hz, 230/460 V, 3600 RPM, 405TSC Frame, TEFC



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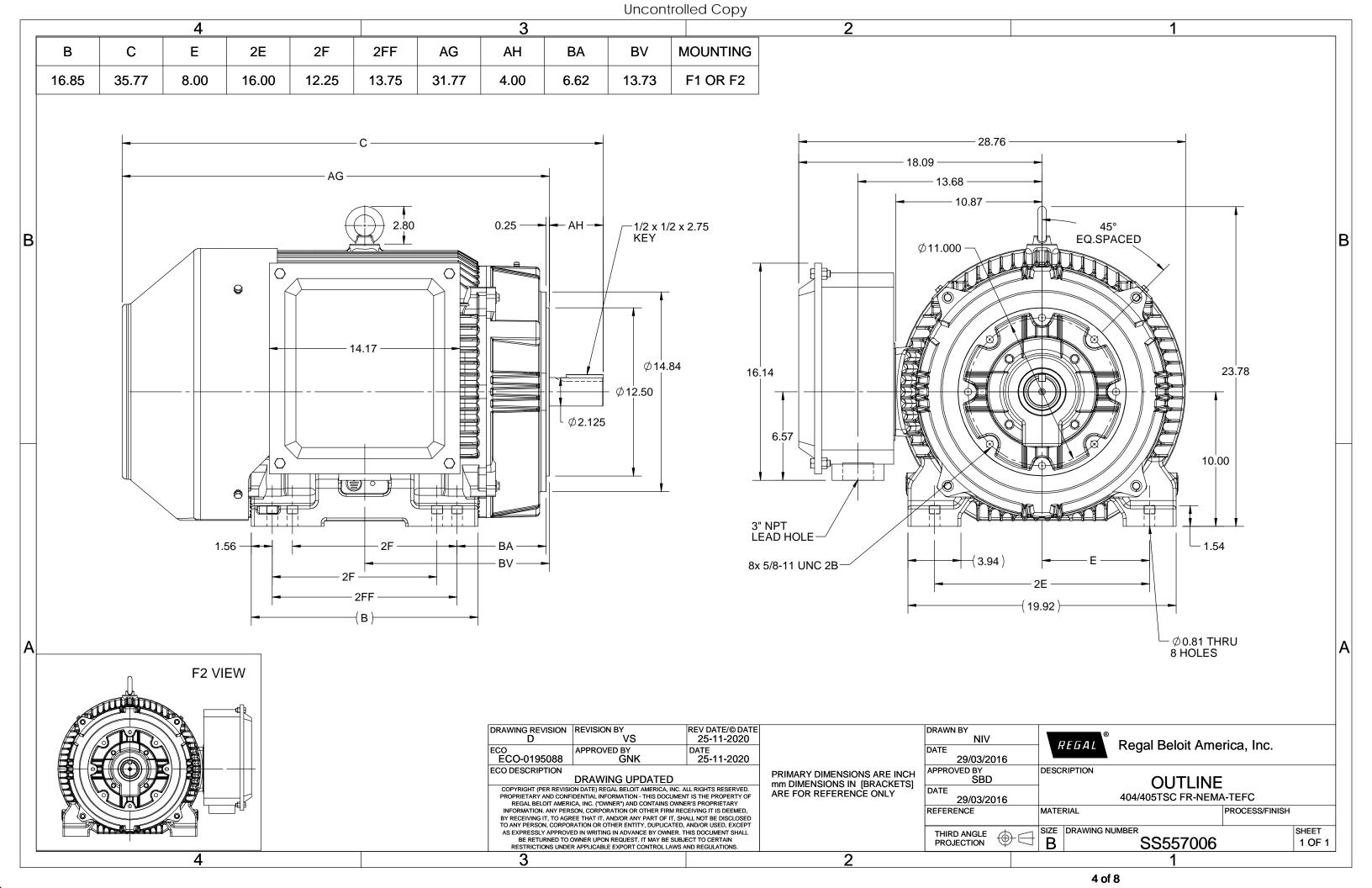
Nameplate Specifications

Output HP	100 Hp	Output KW	75.0 kW 230/460 V 3575 rpm		
Frequency	60 Hz	Voltage			
Current	222.0/111.0 A	Speed			
Service Factor	1.15	Phase	3		
Efficiency	94.5 %	Power Factor	89		
Duty	Continuous	Insulation Class	F		
Design Code	В	KVA Code	G Totally Enclosed Fan Cooled		
Frame	405TSC	Enclosure			
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	TS	Overall Length	35.77 in		
Frame Length	18.11 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				
Connection Drawing	EE7308AA	Outline Drawing	SS557006		

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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 ECO 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 SIZE DRAWING NUMBER SHEET AS EXPRESSLY APPROVED IN WRITING IN ADVANCE BY OWNER. THIS DOCUMENT SHALL THIRD ANGLE

PROJECTION

BE RETURNED TO OWNER UPON REQUEST. IT MAY BE SUBJECT TO CERTAIN

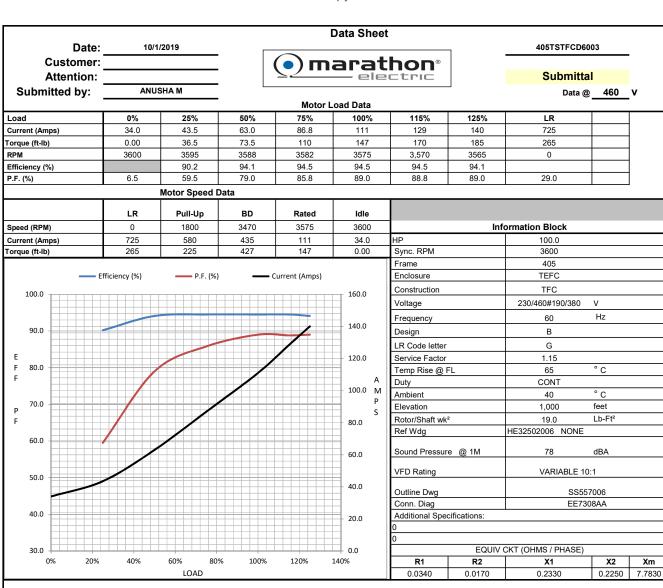
RESTRICTIONS UNDER APPLICABLE EXPORT CONTROL LAWS AND REGULATIONS

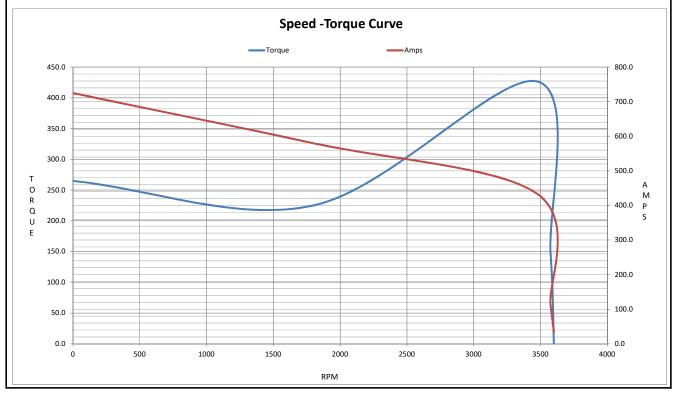
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CERTIFICATION DATA SHEET												
сиѕтом						_		OMER P.O. #:				
ORDER #:		EE7308AA						REFERENCE MODEL #: 405TSTFCD6003 CAT #: GT1245A				
OUTLINE:		SS557006					CAT #: CUSTOMER PART #:		G11243A			
WINDING:		HE3250200	6 NONE	2			MOUNTING: F1/F2 CAPABLE					
SPEED:												
				TYPIC	AL MOT	OR PERFOR	MANC	E DATA				
НР	кw	SYNC RPM	FL F	PM	F	RAME	ENCLOSURE		TYPE	KVA COD	E DESIGN	
100	75	3600	3575		405TSC		TEFC		TFC	G		В
PH	HZ	VOLTS	AM			RT TYPE		UTY	INSL	S.F.	AMB	ELEV.
3	60/50	230/460#190/380	222/1118	203/102	Y START D	RUN OR INV	CONT		F	1.15	40	3300
	F.L. EFF	94.5	3/4 LD EFF	04.5		4/2 5 ===	04.4	GTD EFF	1	ELECT. TY	DE	
	F.L. EFF	94.5 89.0	3/4 LD EFF 3/4 LD PF	94.5 85.8		1/2 LD EFF 1/2 LD PF	94.1 79.0	93.6		SQ CAGE INV		
	1.5.11	03.0	3/4 LD 11	00.0		1/2 2511	73.0	33.0		OQ CACL IIV	MILD	
F.L. T	ORQUE	LR AMPS @	460 V	460 V L.R. TORQUE		QUE	B.D. TORQU		E F.L. RISE (°		C)	
147	LB-FT	725		265	LB-FT	180%	427	LB-FT	290%	65		
				•							•	
SOUND F	RESSURE	SOUND	ROTO		MAX. LOAD WK ²		SAFE STALL TIME		STARTS/HOUR			ROX.
78	dBA	87 dBA	19.0	LB-FT ²	65	LB-FT ²	15	SEC.		2	1060	LB.
			`			IENTAL INFO						
DE BRACKET TYPE		ODE BRACKET TYPE			OTOR SEVERE NTATION DUTY		HAZARDOUS LOCATION		DRIP COVER	SCREENS	REENS PAINT	
	ACE	STANDARD	RIGID		IZONTAL NO		DIVISION 2 T2B		NO	NONE	BLUE (ENAMEL)	
			1			1						
	BEARINGS GREASE		SHAFT	TYPE	YPE SPECIAL DE		SPECIAL ODE		SHAFT MATERIAL		FRAME MATERIAL	
DE BALL	ODE BALL									+		
6314	6314	POLYREX EM	T:	3	ı	NONE	NONE		1045 HOT ROLLED (C-204)		CAST IRON	
			T		1				1		en	ACE
THERMOSTATS		PROTECTORS	WDG	RTD's	BRG RTD's		THERMISTORS		CONTROL		HEATERS	
NONE		NOT	NONE		NONE		NONE		FALSE		NA	
			'								!	
R1 (ohms/ph)		R2 (ohms/ph)	X1 (ohms/ph)		X2 (ohms/ph)		Xm (ohms/ph)		VIBRATION (in/sec)		FLOAT	
0.034 0.017		0.017	0.2	0.233 0.225		0.225	7.783 0.150 ODE			DE		
*												
l								INIVEDTED	TOPOUE:	VARIARI E 10:1		
N O					INVERTER TORQUE: VARIABLE 10:1 INV. HP SPEED RANGE: NONE							
T						INV. HE SPEED RANGE. NOINE						
E								ENCODER:	NONE			
s						NONE						
*					NONE NONE PPR					PPR		
							BRAKE:	NONE				
PREF	PREPARED BY: ANUSHA M				NONE NONE							
DATE : 10/1/2019				FT-LB: NA								
[FORM **	24 DEV 4	0/07/00						VOLTAGE:	NAT AND DO	NONE	N 400 1 2:	HZ:
I FORM: 35	31 REV 4	2/2//06					UL:	NO LETTER	- ME,WUXI	TEFC BLUEWHALE (JLASS 1 DI	v. 2 UL LIST







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: 405TSTFCD6003

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

Catalog No: GT1245A

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. cerse

Michael A. Logsdon Vice President, Technology

Created on 09/01/2022

Julian Clark Marketing Engineer

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