# PRODUCT INFORMATION PACKET



Model No: 405TSTFCD6526
Catalog No: E456A
XRI®-SD Severe Duty Motor, 100 HP, 3 Ph, 60 Hz, 460 V, 1800 RPM, 405TS Frame, TEFC



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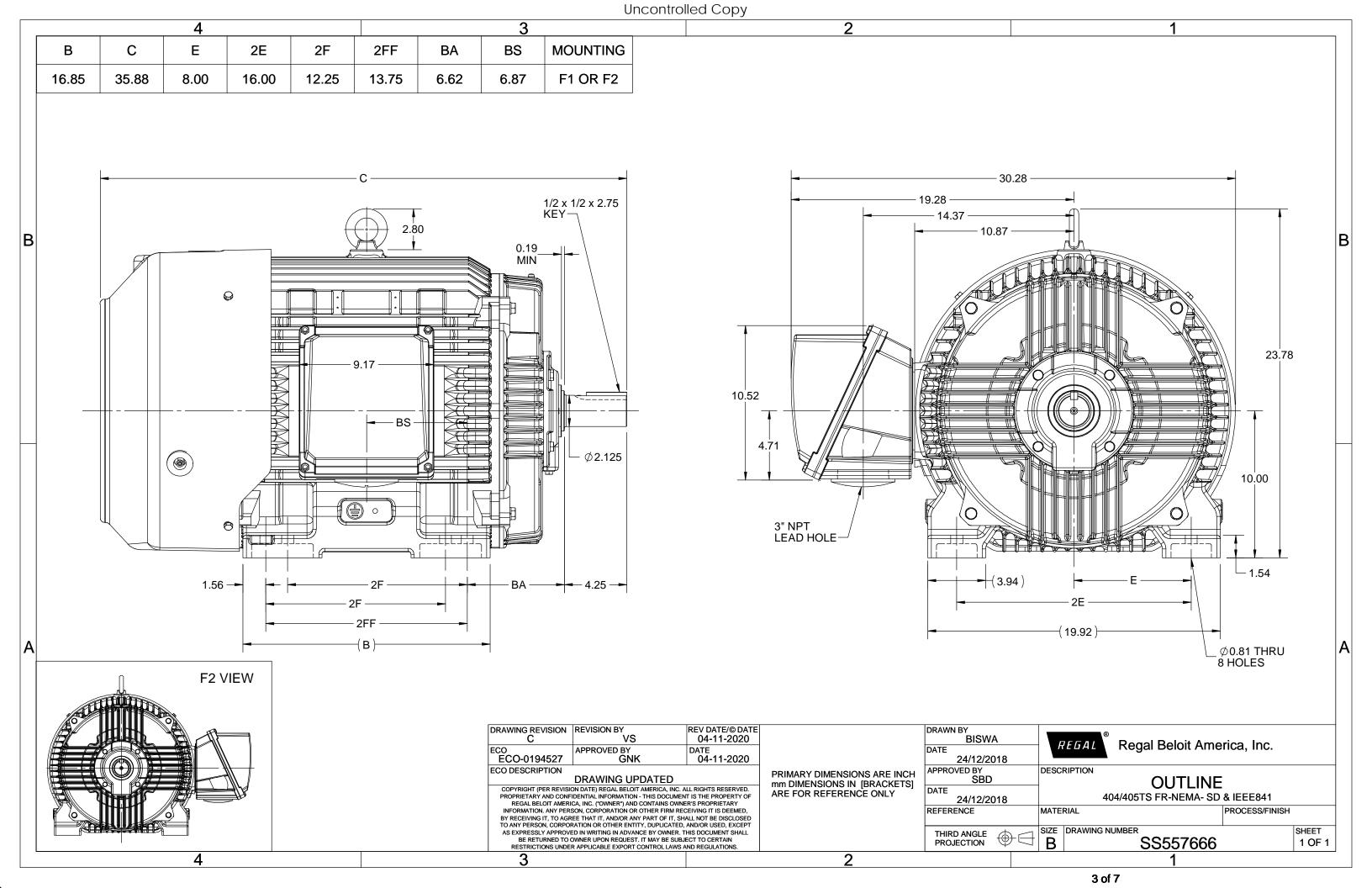
## Nameplate Specifications

Phase	3	Output HP	100 Hp
Output KW	75.0 kW	Voltage	460 V
Speed	1785 rpm	Service Factor	1.15
Frame	405TS	Enclosure	Totally Enclosed Fan Cooled
Thermal Protection	No Protection	Efficiency	95.4 %
Ambient Temperature	40 °C	Frequency	60 Hz
Current	113.0 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	55
Number of Speeds 1		Hazardous Location	DIVISION 2 T2B

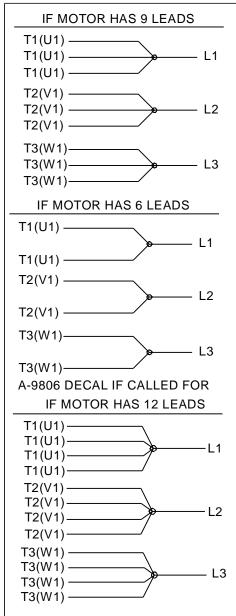
## **Technical Specifications**

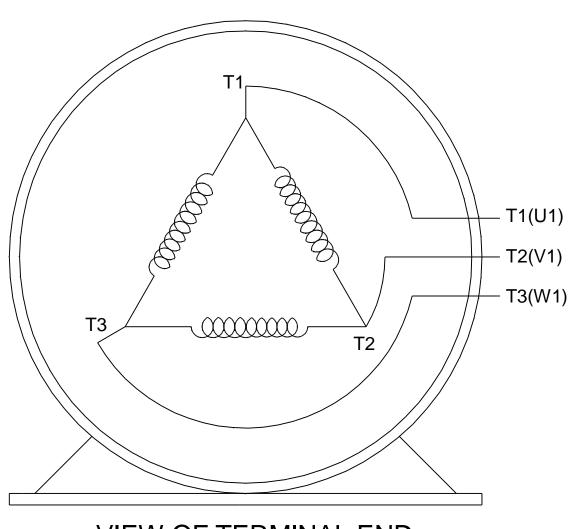
Electrical Type	Squirrel Cage Inverter Rated	Starting Method	Line Or Inverter
Poles	4	Rotation	Reversible
Resistance Main	.0555 Ohms	Mounting	Rigid Base
Motor Orientation	Horizontal	Drive End Bearing	Ball
Opp Drive End Bearing	Ball	Frame Material	Cast Iron
Shaft Type	тѕ	Shaft Diameter	2.125 in
Assembly/Box Mounting	F1/F2 CAPABLE	Inverter Load	CONSTANT 2:1/VARIABLE 10:1
Outline Drawing	SS557666	Connection Drawing	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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IOLLINA	TINGES ON	ILLUU	
OTHER'	WISE SPE	CIFIED:	
DEC.	INCH	<u>mm</u>	<u>ANGLE</u>
.X	±0.1	[±2.5]	±7' 30"
.XX		[±0.51]	
XXX	±0.005	[±0.127]	
.XXXX	±0.0005	[±0.0127]	
REMOV	E BURRS	& BREAK S	HARP
EDGES:	.003/.015	[.076/.381]	X 45°
CORNE	R FILLETS	S: R.02 [.51	]
MACHIN	IED SURF	ACES: 200	
		INCH ∨	mm 🗸
mm SHO	OWN IN [E	BRACKETS]	

TOLERANCES LINLESS

	DRAWN BY DRS  DATE 09-27-1996		REGAL <sup>™</sup> Regal Beloit America, Inc.						
	APPROVED BY GK  DATE 09-30-1996	DESC	CONN DIAGRAM-E 3Ø SINDLE VOLTA		L				
,	REFERENCE	MATE	RIAL	PROCESS/FINISH					
	THIRD ANGLE PROJECTION	SIZE	DRAWING NUMBER EE7300U		SHEET 1 OF 1				

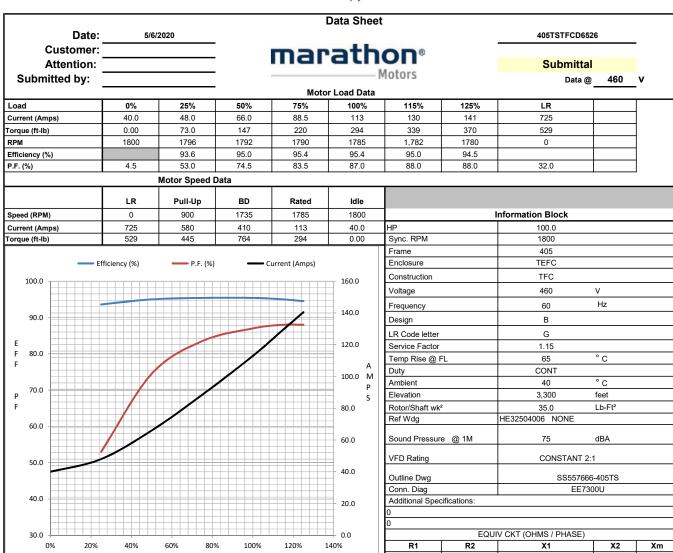


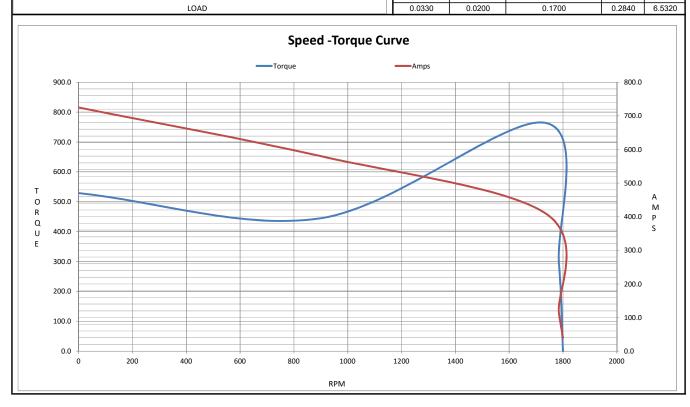
DATA VOLTS: 460

### **CERTIFICATION DATA SHEET**

CONN. DIA OUTLINE: WINDING:		EE7300U SS557666-405TS HE325040	06 NONE		PICAL I	R MOTOR PERFORMA		CAT #:	405TSTFCD65: E4: F1/F2 CAPABL	56A		-
HP	кw	SYNC RPM	FLR	DM		FRAME	ENC	LOSURE	TYPE	KVA CO	nne .	DESIGN
100	75	1800	178	35		405TS		TEFC	TFC	G		В
PH	HZ	VOLTS	AMI	PS		START TYPE		DUTY	INSL	S.F.	AMB (° C)	ELEV. (Ft)
3	60	460	11		L	INE OR INVERTER		CONT	H	1.15	40	3300
	F.L. EFF	95.4	3/4 LD EFF	95.4	1	1/2 LD EFF	95.0	GTD EFF		ELECT. T	/PF	
	F.L. PF	87.0	3/4 LD PF	83.5		1/2 LD PF	74.5	95.0		SQ CAGE INV		
E 1 T	ORQUE	LR AM	ne .			. TORQUE		B.D. TORQ	ue I	F.L. RISE	(° C)	I
	LB-FT	72:		529	LB-FT	180%	764	LB-FT	260%	65	( 0)	
COLIND	RESSURE	SOUND	ROTOR	NAIK2	1	MAX. LOAD WK <sup>2</sup>	CAFE	STALL TIME	CTART	S/HOUR	ADI	ROX.
75	dBA	84 dBA	35.0	LB-FT <sup>2</sup>	575	LB-FT <sup>2</sup>	25	SEC.		2		LB.
DE BRAC	KET TYPE	ODE BRACKET	MOUNT TYPE		*** SUP TOR TATION	PLEMENTAL INFORMA SEVERE DUTY	HAZ	ARDOUS CATION	DRIP COVER	SCREENS	PA	INT
STAN	IDARD	STANDARD	RIGID	HORIZ	ONTAL	PREMIUM SEVERE DUTY	DIVIS	ION 2 T2B	NO	NONE	BLUE (	EPOXY)
BEAI	RINGS	GREASE	SHAFT	TVDE		SPECIAL DE	SDEC	CIAL ODE	SHAFT	MATERIAL	EDAME N	MATERIAL
DE	ODE	GREASE	SHAFT	11176		SPECIAL DE	SPECIAL ODE		STATT WATERIAL		FRAME MATERIAL	
6316	6314	POLYREX EM	TS	3		NONE	١	IONE	1045 HOT RC	DLLED (C-204)	CAST	IRON
THERM	OSTATS	PROTECTORS	WDG F	RTD's		BRG RTD's	THER	MISTORS	CON	TROL		ACE TERS
NO	ONE	NOT	ION	NE		NONE	N	NONE	FAI	LSE	١	ΙA
R1 (of	ıms/ph)	R2 (ohms/ph)	X1 (ohr	ns/ph)	T	X2 (ohms/ph)	Xm (	ohms/ph)	VIBRATIO	ON (in/sec)		
	033	0.02	0.1			0.284		3.532	<u> </u>	080		
* N O T							If Inverter	INVERT INV. HP SF	contact factory ER TORQUE:	CONSTANT 2:1	nation	
E S *							_	ENCODER: NONE NONE	NONE		NONE	PPR

N O T			"	INVERTER TORQUE: CONSTANT 2:1 INV. HP SPEED RANGE: NONE					
E				ENCODER:	NONE				
S				NONE					
*				NONE				NONE	PPR
				BRAKE:	NONE				
PREP	ARED BY:			N	ONE		NONE		
	DATE:	5/13/2020		FT-LB:		NA			
				VOLTAGE:		NONE			HZ:
FORM: 35	31 REV_4	2/27/06							
** Subject	to change w	thout 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: 405TSTFCD6526

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

Catalog No: E456A

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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