PRODUCT INFORMATION PACKET



Model No: 405TSTFCD6501 Catalog No: E613A

XRI®-SD Severe Duty Motor, 100 HP, 3 Ph, 60 Hz, 460 V, 3600 RPM, 405TS Frame, TEFC



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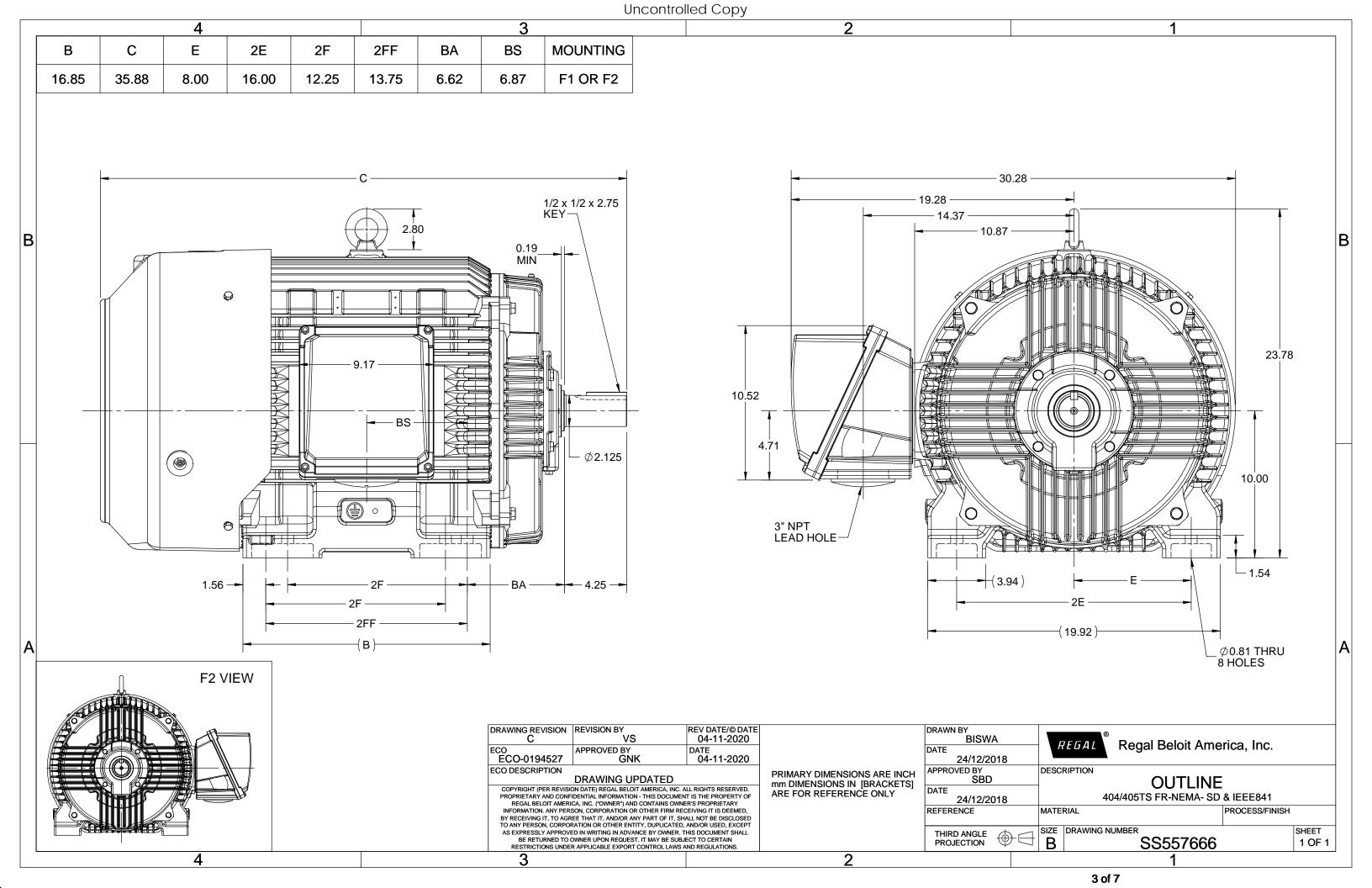
Nameplate Specifications

Phase	3	Output HP	100 Hp
Output KW	75.0 kW	Voltage	460 V
Speed	3575 rpm	Service Factor	1.15
Frame	405TS	Enclosure	Totally Enclosed Fan Cooled
Thermal Protection	No Protection	Efficiency	94.5 %
Ambient Temperature	40 °C	Frequency	60 Hz
Current	111.0 A	Power Factor	89
Duty	Continuous	Insulation Class	Н
Design Code	В	KVA Code	G
Drive End Bearing Size	6314	Opp Drive End Bearing Size	6314
UL	Listed	CSA	Υ
CE	Υ	IP Code	55
Number of Speeds	1	Hazardous Location	DIVISION 2 T2B

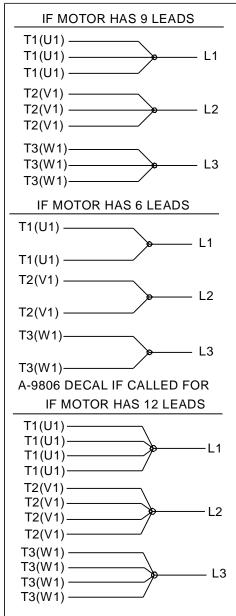
Technical Specifications

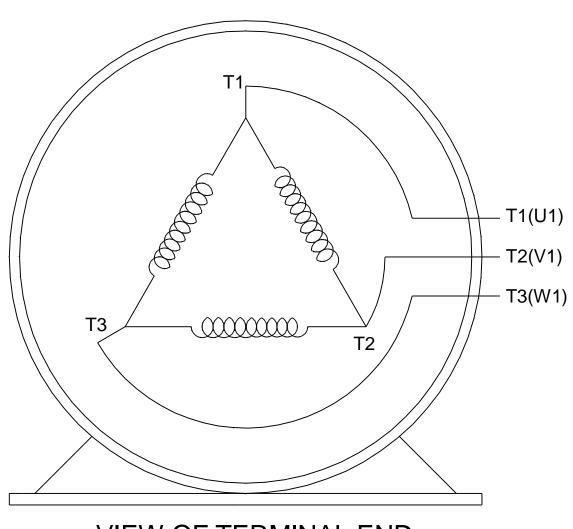
Electrical Type	Squirrel Cage Inverter Rated	Starting Method	Line Or Inverter
Poles	2	Rotation	Reversible
Resistance Main	.056 Ohms	Mounting	Rigid Base
Motor Orientation	Horizontal	Drive End Bearing	Ball
Opp Drive End Bearing	Ball	Frame Material	Cast Iron
Shaft Type	TS	Shaft Diameter	2.125 in
Assembly/Box 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 Regal Beloit Ame	rica, 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

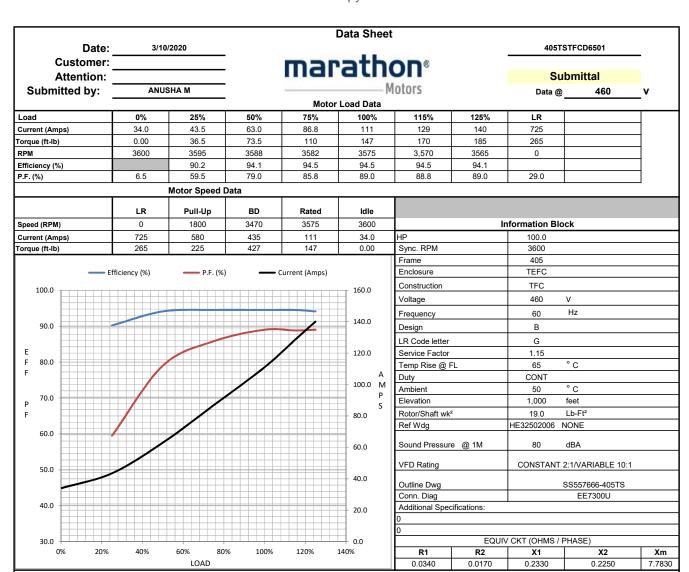


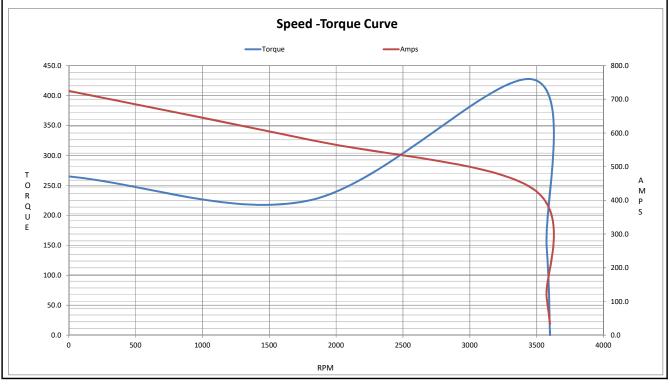
DATA VOLTS:

CERTIFICATION DATA SHEET

									MODEL #:				•
ONN. DIA		EE7300U SS557666-405	TS						CAT#:		E613A		
VINDING:		HE32502006		NONE	1				MOUNTING:	F1/F2 CAP	ABLE		
					T	YPICAL	MOTOR PERFORMA	NCE D	ATA				
HP	кw	SYNC RE	м	FL RE	PM		FRAME	ENC	LOSURE	TYPE	KVA CO	DDE	DESIGN
100	75	3600 3575		5		405TS	TEFC		TFC	G	В		
PH	HZ	VOLTS		AMP	s	START TYPE		ı	DUTY	INSL	S.F.	AMB (° C)	ELEV.(Ft
3 60		460		111	l	LINE OR INVERTER		CONT		Н	1.15	40	3300
	F.L. EFF	94.5	3/4 L	LD EFF	94.5		1/2 LD EFF	94.1	GTD EFF		ELECT	. TYPE	
	F.L. PF	89.0	3/4	4 LD PF	85.8		1/2 LD PF	79.0	93.6		SQ CAGE I	NV RATED	
				1								0 -:	
	ORQUE LB-FT	LR AN	IPS @ 460 \ 725	V	265	L.R LB-FT	. TORQUE 180%	427	B.D. TORQUE	290%	F.L. RISE	(°C)	
147	LD-FI		125		200	LD-F I	100%	421	LD-F I	290%	05		
OUND PI	RESSURE @	SOUNE		ROTOR	WK²		MAX. LOAD WK ²	SAFE S	STALL TIME	STA	RTS/HOUR	APROX.	мото
80	dBA	89 dB	A 1	19.0 I	LB-FT ²	65	LB-FT ²	15	SEC.		2	1185	LB.
STA	NDARD	STANDAI	RD RI	RIGID	HORIZ	ONTAL	PREMIUM SEVERE DUTY	DIVIS	SION 2 T2B	NO	NONE	BLUE (EPOXY)	
	RINGS	GREAS	E :	SHAFT :	TYPE		SPECIAL DE	SPE	CIAL ODE	SHAFT	MATERIAL	FRAME N	IATERIAL
DE BALL	ODE BALL											 	
6314	6314	POLYREX	EM	TS	i		NONE	- 1	NONE	1045 HOT ROLLED (C-204)		CAST IRON	
												SPACE	HEATERS
THERMOSTATS PROTECTORS NONE NOT		JRS			BRG RTD's NONE	THERMISTORS NONE		CONTROL FALSE		NA			
R1 (ohms/ph) R2 (ohms/ph)		ph)	X1 (ohms/ph) X2 (ohms/ph)		X2 (ohms/ph)	Xm (ohms/ph) VIBRATION (in/sec)							
0	.034	0.017		0.23	3		0.225		7.783		0.080		
									If Income	aduale NON	IE, contact factory	for further info	mation
									II Inverter	equais IVOI	NE, CONTACT TACTORY	ioi iditiici iiiio	manon
*													maaon
								!		TORQUE:	CONSTANT 2:1/V		······································
* N O T								ı	INVERTER	TORQUE:) RANGE:	CONSTANT 2:1/V		
* N O T								I	INVERTER INV. HP SPEED ENCODER:	TORQUE:) RANGE:	CONSTANT 2:1/V		
* N O T								1	INVERTER INV. HP SPEED ENCODER: NONE	TORQUE:) RANGE:	CONSTANT 2:1/V	ARIABLE 10:1	
* N O T								ı	INVERTER INV. HP SPEED ENCODER:	TORQUE: D RANGE: NONE	CONSTANT 2:1/V		
* N O T E S	PARED BY:							ı	INVERTER INV. HP SPEED ENCODER: NONE NONE	TORQUE: D RANGE: NONE	CONSTANT 2:1/V	ARIABLE 10:1	
* N O T E S	EPARED BY:	ANUSHA M 3/10/202	0					ı	INVERTER INV. HP SPEED ENCODER: NONE NONE BRAKE:	TORQUE: D RANGE: NONE NONE	CONSTANT 2:1/V.	ARIABLE 10:1	

FORM: 3531 REV_4 2/27/06
** 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: 405TSTFCD6501

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

Catalog No: E613A

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:

Authorized Representative in the Community:

J. cers

Michael A. Logsdon Vice President, Technology

Created on 09/01/2022

Julian Clark Marketing Engineer

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