# PRODUCT INFORMATION PACKET



Model No: 405TTFCD6536 Catalog No: E628A

XRI®-SD Severe Duty Motor, 100 HP, 3 Ph, 60 Hz, 460 V, 1800 RPM, 405T Frame, TEFC



Regal and Marathon are trademarks of Regal Rexnord Corporation or one of its affiliated companies.

©2022 Regal Rexnord Corporation, All Rights Reserved. MC017097E



Product Information Packet: Model No: 405TTFCD6536, Catalog No:E628A XRI®-SD Severe Duty Motor, 100 HP, 3 Ph, 60 Hz, 460 V, 1800 RPM, 405T Frame, TEFC



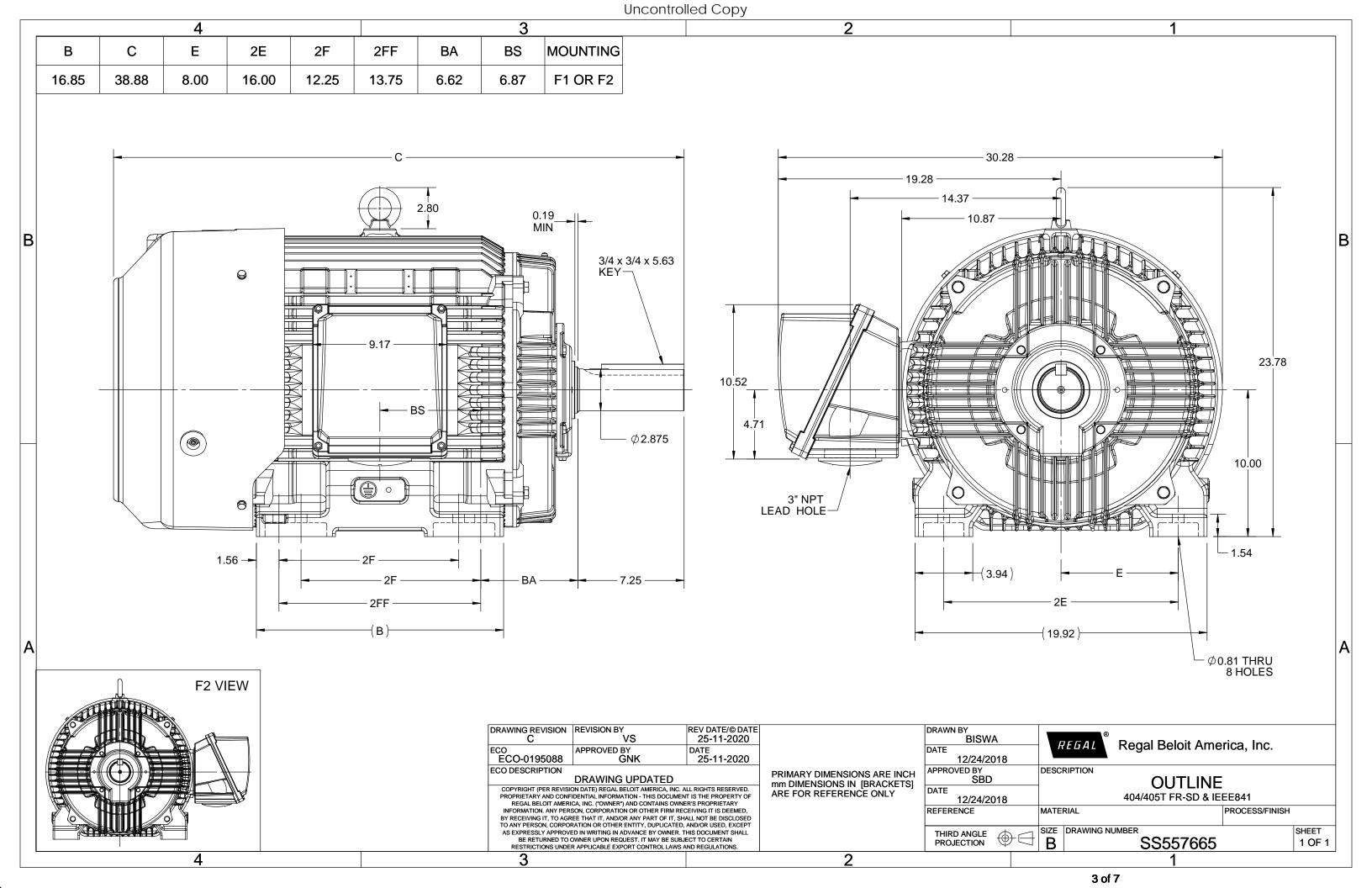
## Nameplate Specifications

Output HP	100 Hp	Output KW	75.0 kW
Frequency	60 Hz	Voltage	460 V
Current	113.0 A	Speed	1785 rpm
Service Factor	1.15	Phase	3
Efficiency	95.4 %	Power Factor	87
Duty	Continuous	Insulation Class	Н
Design Code	В	KVA Code	G
Frame	405T	Enclosure	Totally Enclosed Fan Cooled
Thermal Protection	No Protection	Ambient Temperature	40 °C
Drive End Bearing Size	6316	Opp Drive End Bearing Size	6314
UL	Listed	CSA	Υ
CE	Υ	IP Code	55
Hazardous Location	DIVISION 2 T2B	Number of Speeds	1

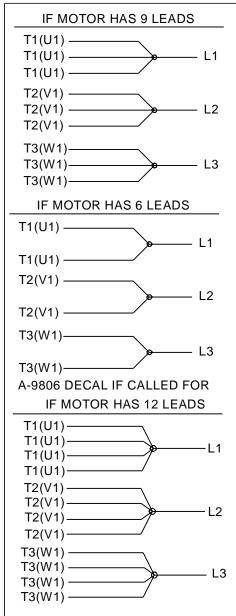
## **Technical Specifications**

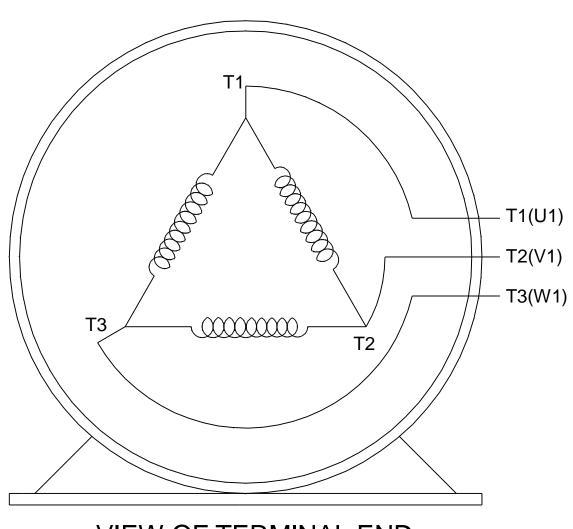
Electrical Type	Squirrel Cage Inverter Rated	Starting Method	Line Or Inverter
Poles	4	Rotation	Reversible
Resistance Main	.0555 Ohms	Mounting	Rigid Base
Motor Orientation	Horizontal	Drive End Bearing	Ball
Opp Drive End Bearing	Ball	Frame Material	Cast Iron
Shaft Type	Т	Shaft Diameter	2.875 in
Assembly/Box Mounting	F1/F2 CAPABLE	Inverter Load	CONSTANT 2:1/VARIABLE 10:1
Outline Drawing	SS557665	Connection Drawing	EE7300U

This is an uncontrolled document once printed or downloaded and is subject to change without notice. Date Created:11/29/2022



Uncontrolled Copy





# 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

COPYRIGHT REGAL BELOIT AMERICA, INC. ALL RIGHTS RESERVED.
PROPRIETARY AND CONFIDENTIAL INFORMATION - THIS DOCUMENT IS THE PROPERTY OF
REGAL BELOIT AMERICA, INC. ("OWNER") AND CONTAINS OWNER'S PROPRIETARY
INFORMATION. ANY PERSON, CORPORATION OR OTHER FIRM RECEIVING IT IS DEEMED,
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
AS EXPRESSLY APPROVED IN WRITING IN ADVANCE BY OWNER. THIS DOCUMENT SHALL
BE RETURNED TO OWNER UPON REQUEST. IT MAY BE SUBJECT TO CERTAIN
RESTRICTIONS UNDER APPLICABLE EXPORT CONTROL LAWS AND REGULATIONS.

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

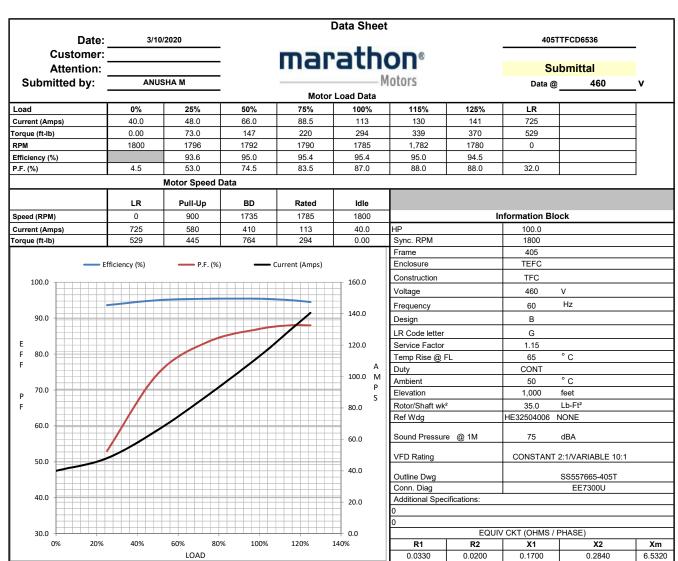


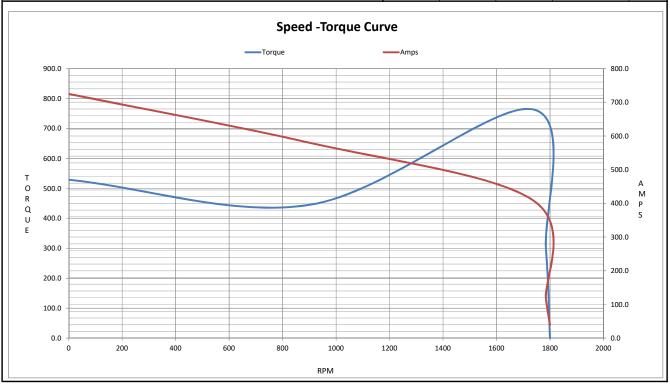
DATA VOLTS:

### CERTIFICATION DATA SHEET

OUTLINE: WINDING:	AGRAM:	EE7300U SS557665-405T HE32504006	NONE	1				MODEL #: CAT #: MOUNTING:		E628A		-
				Т	YPICAL	MOTOR PERFORMA	NCE DA	ATA				
HP KW SYNC RE		SYNC RPM	SYNC RPM FL RPM		FRAME		ENCLOSURE		TYPE	KVA CODE		DESIGN
100	75	1800	1800 1785		405T		TEFC		TFC G		3	В
PH	HZ	VOLTS	AM			START TYPE		UTY	INSL	S.F.	AMB (° C)	ELEV.(Ft)
3	60	460	11	13	l l	INE OR INVERTER	С	ONT	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	. TYPE	
	F.L. PF	87.0	3/4 LD PF			1/2 LD PF	74.5	95.0		SQ CAGE		
		•										
	ORQUE	LR AMPS (	9 460 V			. TORQUE		B.D. TORQUE		F.L. RISE	(° C)	
294	LB-FT	725		529	LB-FT	180%	764	LB-FT	260%	65		
OUND P	RESSURE @	SOUND	ROTO	R WK <sup>2</sup>		MAX. LOAD WK <sup>2</sup>	SAFE S	TALL TIME	STA	RTS/HOUR	APROX.	МОТО
	dBA	84 <b>dBA</b>	35.0	LB-FT <sup>2</sup>	550	LB-FT <sup>2</sup>	25	SEC.	UIA	2	1325	LB.
STA	NDARD	STANDARD	RIGID	HORIZ	ZONTAL	PREMIUM SEVERE DUTY	DIVISI	ON 2 T2B	NO	NONE	BLUE (	EPOXY)
	RINGS	GREASE	SHAFT	TYPE		SPECIAL DE	SDEC	IAL ODE	SHAFT	MATERIAL	FRAME N	MATERIAL
DE	ODE			SHAFT TYPE		0. 201/12 22						
							3F EG					
BALL 6316	6314	POLYREX EM	1	Г		NONE		ONE		ROLLED (C-204)		RON
6316	6314						N		1045 HOT			
6316	6314	PROTECTORS	WDG	RTD's		BRG RTD's	N	MISTORS	1045 HOT	ONTROL	CAST	HEATERS
6316	6314			RTD's			N		1045 HOT		CAST	
THERN	6314	PROTECTORS	WDG	RTD's NE		BRG RTD's	THERI N	MISTORS	1045 HOT	ONTROL	CAST	HEATERS
THERN	6314  MOSTATS  ONE	PROTECTORS NOT	WDG NO	RTD's NE ms/ph)		BRG RTD's NONE	THERI N	MISTORS ONE phms/ph) .532	1045 HOT	ONTROL FALSE TION (in/sec) 0.080	SPACE N	HEATERS
6316  THERN No.  R1 (ol. 0.)	6314  MOSTATS  ONE  hms/ph)	PROTECTORS NOT R2 (ohms/ph)	WDG NO	RTD's NE ms/ph)		BRG RTD's NONE X2 (ohms/ph)	THERI N	MISTORS ONE phms/ph) .532	1045 HOT	ONTROL FALSE TION (in/sec)	SPACE N	HEATERS
THERN	6314  MOSTATS  ONE  hms/ph)	PROTECTORS NOT R2 (ohms/ph)	WDG NO	RTD's NE ms/ph)		BRG RTD's NONE X2 (ohms/ph)	THERI N Xm (c	MISTORS ONE shms/ph) .532 If Inverter	1045 HOT  C  VIBRA  equals NON	ONTROL FALSE TION (in/sec) 0.080 IE, contact factory CONSTANT 2:1/V	SPACE N	HEATERS
# NO	6314  MOSTATS  ONE  hms/ph)	PROTECTORS NOT R2 (ohms/ph)	WDG NO	RTD's NE ms/ph)		BRG RTD's NONE X2 (ohms/ph)	THERI N Xm (c	MISTORS ONE shms/ph) .532 If Inverter INVERTER	1045 HOT  C  VIBRA  equals NOt  TORQUE: D RANGE:	ONTROL FALSE TION (in/sec) 0.080 IE, contact factory CONSTANT 2:1/V	SPACE N	HEATERS
THERM NO R1 (ol 0.	6314  MOSTATS  ONE  hms/ph)	PROTECTORS NOT R2 (ohms/ph)	WDG NO	RTD's NE ms/ph)		BRG RTD's NONE X2 (ohms/ph)	THERI N Xm (c	wistors ONE  hms/ph) .532  if inverter INVERTER IV. HP SPEEI  ENCODER: NONE	1045 HOT  C  VIBRA  equals NOt  TORQUE: D RANGE:	ONTROL FALSE TION (in/sec) 0.080 IE, contact factory CONSTANT 2:1/V	SPACE  SPACE  N  for further info	HEATERS JA
# NO T E	6314  MOSTATS  ONE  hms/ph)	PROTECTORS NOT R2 (ohms/ph)	WDG NO	RTD's NE ms/ph)		BRG RTD's NONE X2 (ohms/ph)	THERI N Xm (c	MISTORS ONE chms/ph) .532 If Inverter INVERTER IV. HP SPEEL ENCODER: NONE	1045 HOT  C  VIBRA  equals NOt  TORQUE: D RANGE:	ONTROL FALSE TION (in/sec) 0.080 IE, contact factory CONSTANT 2:1/V	SPACE N	HEATERS JA
* NO O T E S	6314  MOSTATS ONE  hms/ph) .033	PROTECTORS NOT  R2 (ohms/ph) 0.02	WDG NO	RTD's NE ms/ph)		BRG RTD's NONE X2 (ohms/ph)	THERI N Xm (c	MISTORS ONE chms/ph) .532 If Inverter INVERTER IV. HP SPEEL ENCODER: NONE NONE BRAKE:	VIBRA equals NON TORQUE: D RANGE: NONE	ONTROL FALSE TION (in/sec) 0.080 NE, contact factory CONSTANT 2:1/V	SPACE  SPACE  for further infor  ARIABLE 10:1	HEATERS JA
R1 (ol  NO  R1 (ol  NO  T  N  O  T  E  S  *	6314  MOSTATS  ONE  hms/ph)	PROTECTORS NOT  R2 (ohms/ph) 0.02	WDG NO	RTD's NE ms/ph)		BRG RTD's NONE X2 (ohms/ph)	THERI N Xm (c	MISTORS ONE chms/ph) .532 If Inverter INVERTER IV. HP SPEEL ENCODER: NONE	VIBRA equals NON TORQUE: D RANGE: NONE	ONTROL FALSE TION (in/sec) 0.080 IE, contact factory CONSTANT 2:1/V	SPACE  SPACE  for further infor  ARIABLE 10:1	HEATER:

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: 405TTFCD6536

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

Catalog No: E628A

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. cerse

Julian Clark Marketing Engineer