PRODUCT INFORMATION PACKET



Model No: 254TTFCD6578 Catalog No: E684A

XRI®-SD Severe Duty Motor, 7.50 HP, 3 Ph, 60 Hz, 575 V, 1200 RPM, 254T 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: 254TTFCD6578, Catalog No:E684A XRI®-SD Severe Duty Motor, 7.50 HP, 3 Ph, 60 Hz, 575 V, 1200 RPM, 254T Frame, TEFC



Nameplate Specifications

Output HP	7.50 Hp	Output KW	5.6 kW			
Frequency	60 Hz	Voltage	575 V			
Current	7.9 A	Speed	1182 rpm			
Service Factor	1.15	Phase	3			
Efficiency	91 %	Power Factor	78.5			
Duty	Continuous	Insulation Class	н			
Design Code	В	KVA Code	Н			
Frame	254T	Enclosure	Totally Enclosed Fan Cooled			
Thermal Protection	No Protection	Ambient Temperature	40 °C			
Drive End Bearing Size	6309	Opp Drive End Bearing Size	6209			
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	6	Rotation	Reversible			
Resistance Main	1.366 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	1.625 in			
Assembly/Box Mounting	F1/F2 CAPABLE	Inverter Load	CONSTANT 10:1/VARIABLE 10:1			
Connection Drawing	EE7300	Outline Drawing	SS208560-100			

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

Uncontrolled Copy DASH NO. С Ε 2FF BS MOUNTING FRAME 2E 2F BA 24.15 4.13 100 9.60 8.25 254T 5.00 10.00 4.25 F1 OR F2 25.89 10.00 254/256T 200 11.34 8.25 5.00 - 19.64 -12.46 9.17 2.09 0.14 Θ 3/8 x 3/8 x 2.88 KEY 15.22 6.96 7.95 \emptyset 1.625 3.82 6.25 1-1/4 NPT LEAD HOLE-0.82 -4.00 0.67 — (12.40 Ø 0.53 THRU 8 HOLES (254 WILL HAVE ONLY 4 HOLES) F2 VIEW DRAWN BY
BISWA DRAWING REVISION BY BISWA REV DATE/© DATE 10/07/2020 Regal Beloit America, Inc. REGAL ECO-0194249 APPROVED BY GNK DATE 10/07/2020 26/09/2018 ECO DESCRIPTION APPROVED BY SBD DESCRIPTION PRIMARY DIMENSIONS ARE INCH mm DIMENSIONS IN [BRACKETS] DRAWING UPDATED

COPYRIGHT (PER REVISION DATE) 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 OUTLINE 254T/256T FR-NEMA-SD & IEEE841 ARE FOR REFERENCE ONLY 26/09/2018 REGAL BELOIT AMERICA, INC. ("OWNER") AND CONTAINS OWNERS 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. PROCESS/FINISH REFERENCE MATERIAL SIZE DRAWING NUMBER SHEET THIRD ANGLE В SS208560 1 OF 1 PROJECTION 4 3 of 7

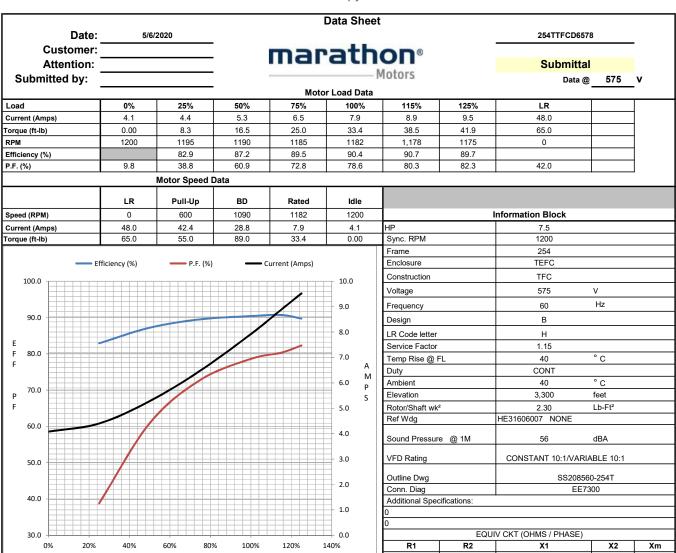




DATA VOLTS: 575

CERTIFICATION DATA SHEET

CONN. DIA DUTLINE: WINDING:		EE7300 SS208560-: HE3	254T 31606007	NONE	3 TY	PICAL I	R MOTOR PERFORMA		CAT #:	254TTFCD657 E6 F1/F2 CAPABL	684A		-
НР	ĸw	SYNC	RPM	FL RPM		FRAME		ENCLOSURE		TYPE	KVA CODE		DESIGN
7.5	5.6	1200 1182		2				TEFC TFC		Н		В	
PH	HZ	VOL		AMPS		START TYPE		DUTY		INSL	S.F.	AMB (° C) ELEV. (F	
3	60	575 7.9		LINE OR INVERTER		CONT		Н	1.15	40	3300		
	F.L. EFF	90.4		3/4 LD EFF	89.5	1	1/2 LD EFF	87.2	GTD EFF		ELECT. TY	PE.	
	F.L. PF	78.6		3/4 LD PF	72.8		1/2 LD PF	60.9	90.2		SQ CAGE INV		
										•			
F.L. TO	ORQUE	ı	R AMPS			L.F	. TORQUE		B.D. TORQ	UE	F.L. RISE	(° C)	
33.4	LB-FT		48.0		65.0	LB-FT	195%	89.0	LB-FT	266%	40		
						1							
	RESSURE	SOU		ROTOR			MAX. LOAD WK ²		TALL TIME		S/HOUR		ROX.
56	dBA	65 (BA	2.30	LB-FT ²	150	LB-FT ²	20	SEC.		2	297	LB.
STAN	DARD	STANE		TYPE RIGID		ZONTAL	PREMIUM SEVERE DUTY		ON 2 T2B	NO	NONE	BLUE (EPOXY)	
DE	RINGS	GREASE		SHAFT	SHAFT TYPE		SPECIAL DE	SPECIAL ODE		SHAFT	MATERIAL	FRAME MATERIAL	
BALL 6309	BALL 6209	POLYR	EX EM	Т			NONE	Ν	IONE	1045 HOT R	OLLED (C-204)	CAST IRON	
THERMOSTATS		PROTEC	TORS	WDG R	TD's	BRG RTD's		THER	MISTORS	CONTROL		SPACE HEATERS	
NC	NE	NO	Т	NON	IE	NONE		NONE		FA	FALSE		۱A
R1 (oh	ms/ph)	R2 (ohn	ns/ph)	X1 (ohm	ıs/ph)		X2 (ohms/ph)	Xm (ohms/ph)	VIBRATIO	ON (in/sec)	FL	OAT
2.0484375		1.134		5.7859							0.080 ODE		
* N O T		If Inverter equals NONE, contact factory for further information INVERTER TORQUE: CONSTANT 10:1/VARIABLE INV. HP SPEED RANGE: NONE								E 10:1			
E S									ENCODER: NONE NONE			NONE	PPR
PREP	ARED BY: DATE:	5/13/2 2/27/06	2020						BRAKE: NO FT-LB: VOLTAGE:	ONE 1	NONE NA DNE	≣	HZ







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: 254TTFCD6578

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

Catalog No : E684A

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