PRODUCT INFORMATION PACKET



Model No: 254TTFCD6590 Catalog No: E477A

XRI®-SD Severe Duty Motor, 7.50 HP, 3 Ph, 60 Hz, 230/460 V, 1200 RPM, 254T Frame, TEFC



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Nameplate Specifications

Output HP	7.50 Hp	Output KW	5.6 kW			
Frequency	60 Hz	Voltage	230/460 V			
Current	19.8/9.9 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		
Outline Drawing	SS208560-100	Connection Drawing	EE7308		

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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

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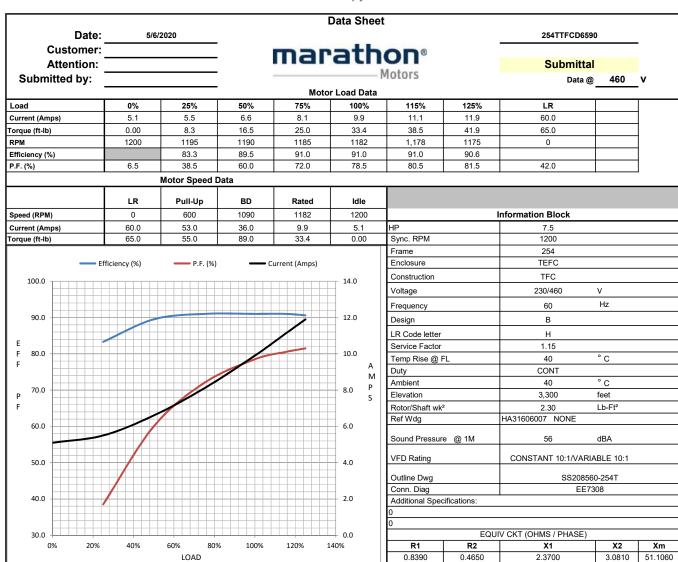


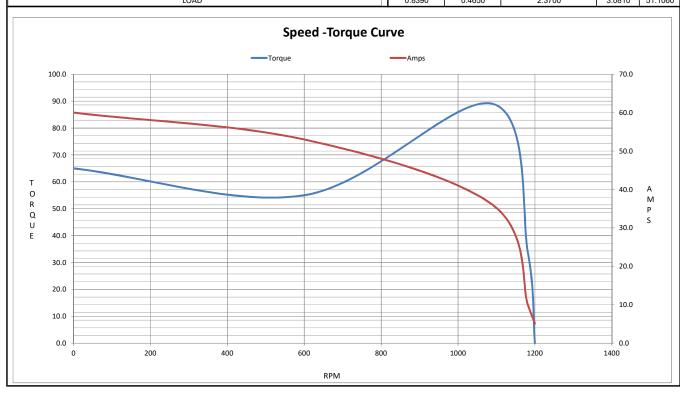


DATA VOLTS: 460

CERTIFICATION DATA SHEET

CONN. DIAGRAM: EE7308 OUTLINE: \$\$208560-254T WINDING: HA31606007				NONE	5	REFERENCE MODEL #: 254TTFCD6590 CAT #: E477A MOUNTING: F1/F2 CAPABLE							
					TY	PICAL I	MOTOR PERFORM	ANCE D	ATA				
HP	KW	SYNC	RPM	FL RF	PM	FRAME		ENC	LOSURE	TYPE	KVA CODE		DESIGN
7.5	5.6	1200 1182		2		254T	TEFC		TFC	Н		В	
								_				T	
PH	HZ	VOLTS AMP				DUTY		INSL H	S.F. 1.15				
3 60		230/460 19.8/9		1.9	LINE OR INVERTER		CONT			1.15	40	3300	
	F.L. EFF	F 91.0 3/4 LD		3/4 LD EFF	91.0		1/2 LD EFF	89.5 GTD EFF		ELECT. TYPE		YPE	
	F.L. PF	78.5		3/4 LD PF	72.0		1/2 LD PF	60.0	90.2		SQ CAGE INV	RATED	
	ORQUE	ļ	LR AMPS			L.R. TORQUE			B.D. TORQ		F.L. RISE	(° C)	
33.4	LB-FT		60.0		65.0	LB-FT	195%	89.0	LB-FT	266%	40		
SOLIND P	RESSURE	sou	ND	ROTOR	WK ²		MAX. LOAD WK ²	SAFES	TALL TIME	START	S/HOUR	APROX.	
	dBA		dBA		LB-FT ²	150	LB-FT ²	20	SEC.		2		LB.
ODE BRACKE DE BRACKET TYPE TYPE			MOUNT TYPE		*** SUPPLEMENTAL INFORMA MOTOR ORIENTATION SEVERE DUTY		HAZ	ARDOUS	DRIP COVER SCREENS		DAINT		
DE BRACKET TYPE STANDARD		STANI		RIGID		ONTAL	PREMIUM SEVERE DUTY		ION 2 T2B	NO NO	NONE	PAINT BLUE (EPOXY)	
01741		01741	57 ti tB	141010			T TELINION SEVERE BOTT	5.7.0	.0.172 123		.,	5202 (2. 07.1.7
	RINGS	GRE	ASE	SHAFT	TYPE	PE SPECIAL DE		SPEC	IAL ODE	SHAFT	MATERIAL	FRAME N	IATERIAI
DE	ODE			OHATTITE			0. 101021			<u> </u>			
6309	BALL 6209	POLYR	POLYREX EM T				NONE NONE		IONE	1045 HOT ROLLED (C-204)		CAST IRON	
TUEDM	OSTATS	PROTEG	CTORS	WDG R	TD's		BRG RTD's	THER	MISTORS	CON	TROL		ACE TERS
	ONE	NC		NON			NONE		IONE	FALSE		NA	
						-							
R1 (ohms/ph)		R2 (ohr	ns/ph)	X1 (ohm	s/ph)		X2 (ohms/ph)	Xm (ohms/ph)	VIBRATIO	/IBRATION (in/sec) FL		DAT
0.8	839	0.4	65	2.37	,		3.081	5	1.106	0.	080	0	DE
* N O T								If Inverter equals NONE, contact factory for further information INVERTER TORQUE: CONSTANT 10:1/VARIABLE 10:1 INV. HP SPEED RANGE: NONE					
E S *									ENCODER: NONE NONE	NONE		NONE	PPR
PREP	ARED BY: DATE:	5/13/2	2020						BRAKE:	ONE 1	NON 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: 254TTFCD6590

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

Catalog No: E477A

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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