PRODUCT INFORMATION PACKET



Model No: 254THTCD8058 Catalog No: Y509A

Blue Max® Inverter Duty Encoder Motor, 15 HP, 3 Ph, 60 Hz, 230/460 V, 1800 RPM, 254TC Frame, TENV



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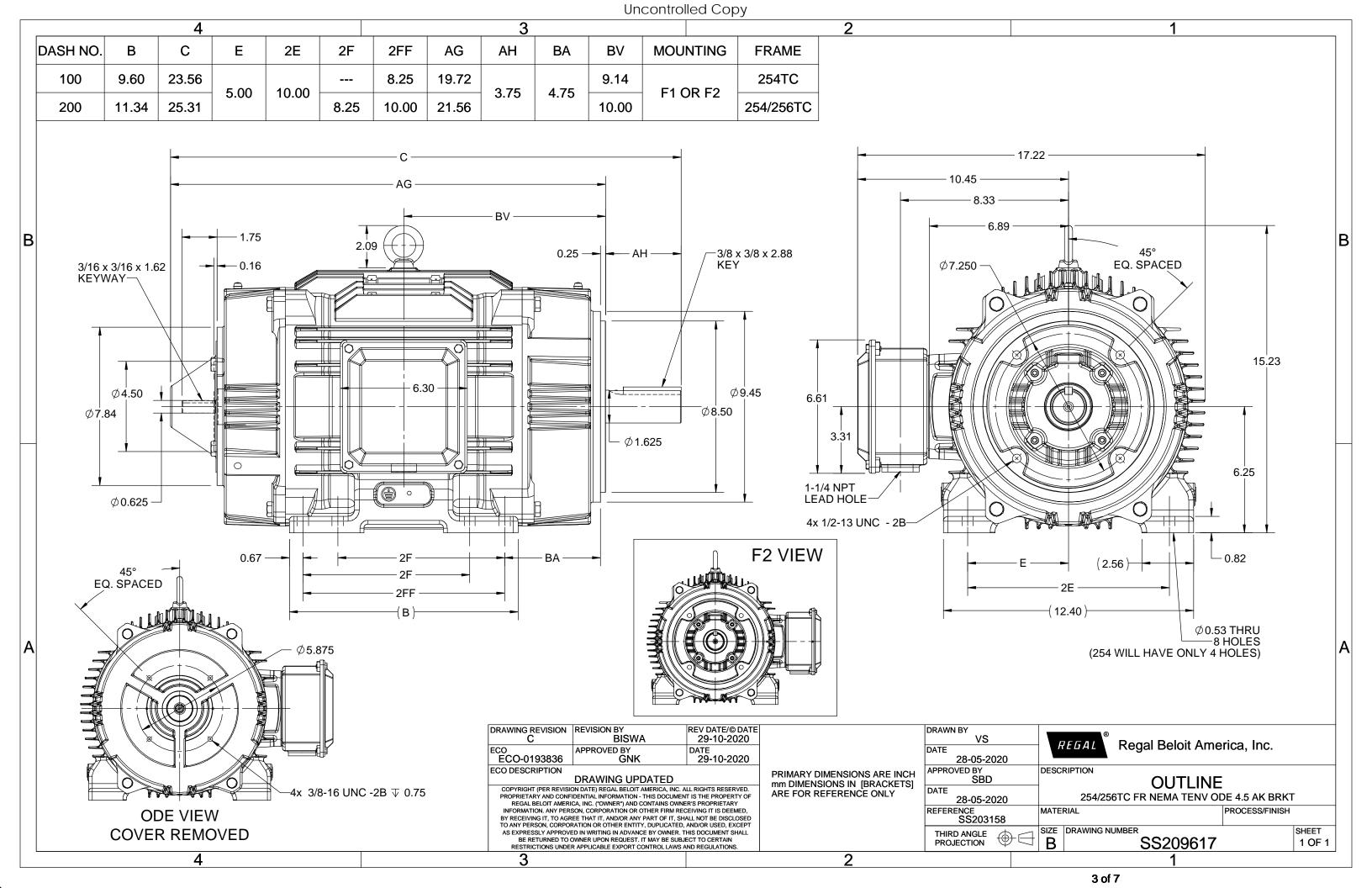
Nameplate Specifications

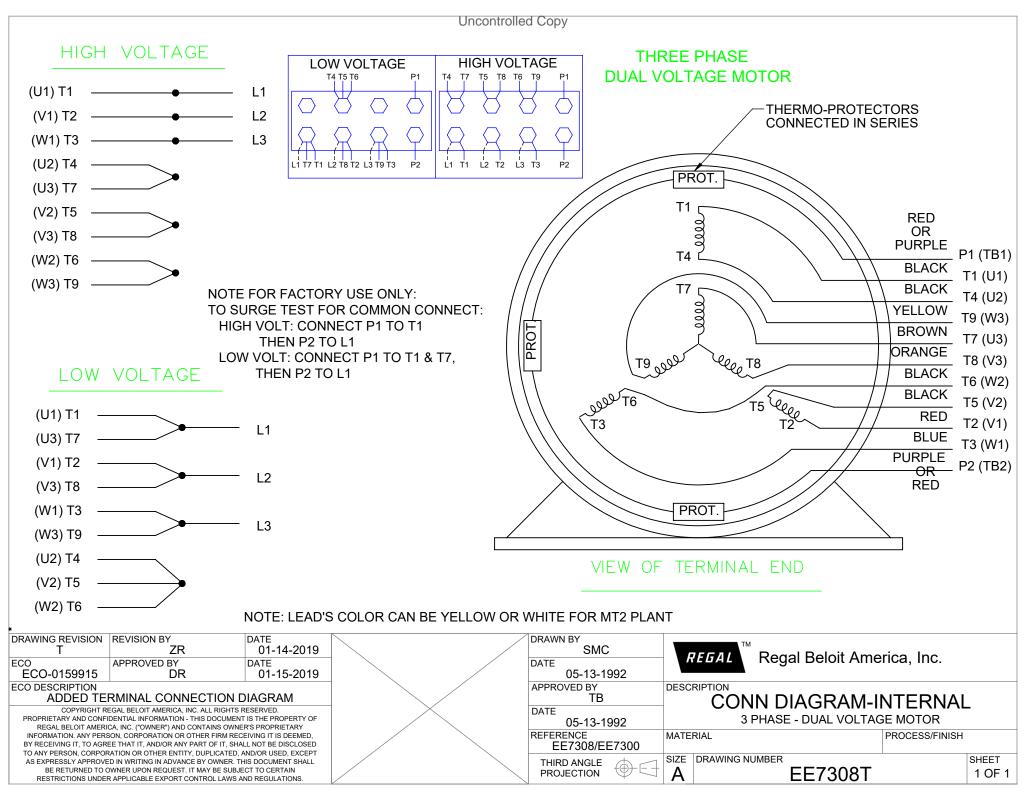
Output HP	15 Hp	Output KW	11.2 kW
Frequency	60 Hz	Voltage	230/460 V
Current	35.0/17.5 A	Speed	1777 rpm
Service Factor	1	Phase	3
Efficiency	92.9 %	Power Factor	85.7
Duty	Continuous	Insulation Class	Н
Design Code	INV	KVA Code	L
Frame	254TC	Enclosure	Totally Enclosed Non Ventilated
Thermal Protection	Thermostat	Ambient Temperature	40 °C
Drive End Bearing Size	6309	Opp Drive End Bearing Size	6209
UL	Recognized	CSA	Υ
CE	Υ	IP Code	55
Number of Speeds	1		
	·	·	·

Technical Specifications

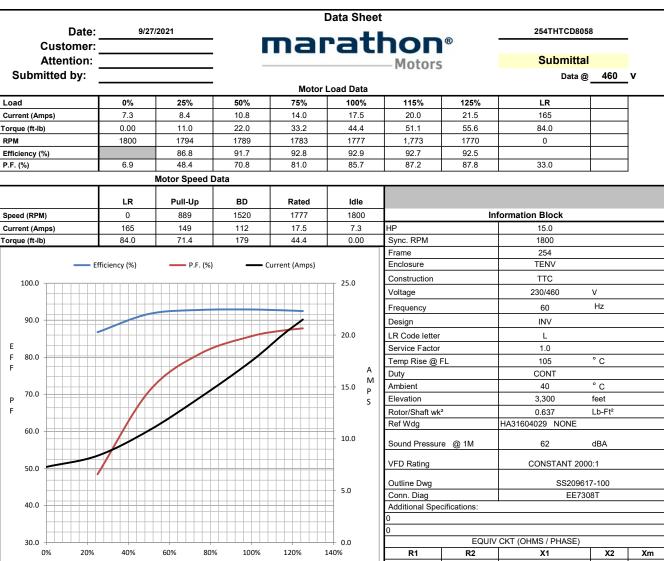
Electrical Type	Squirrel Cage Inverter Duty	Starting Method	Inverter Only		
Poles	4	Rotation	Reversible		
Resistance Main	.0493 Ohms	Mounting	Rigid Base		
Motor Orientation	Horizontal	Drive End Bearing	Ball		
Opp Drive End Bearing	Ball	Frame Material	Cast Iron		
Shaft Type	Т	Shaft Diameter	1.625 in		
Assembly/Box Mounting	F1/F2 CAPABLE	Inverter Load	CONSTANT 2000:1		
Outline Drawing	SS209617-100	Connection Drawing	EE7308T		

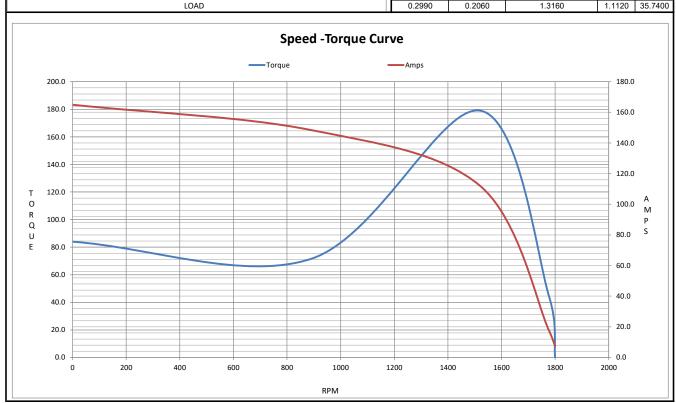
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					P.O. BOX 8003							
					WAUSAU, WI 54401-8003							
marathon®						PH. 715-675-3311						
						Motors						
						1-10(013		DAT	A VOLTS:	460		
	CERTIFICATION DATA SHEET											
CUSTOM	CUSTOMER:						CUSTO	MER P.O. #:				
ORDER #					REFERENCE MODEL #:							
CONN. DIAGRAM:		EE7308T				CAT#						
OUTLINE:		SS209617-100				CUSTOMER PART #						
WINDING	i:	HA31604029	NONE	2				MOUNTING:	F1/F2 CAP	ABLE		
SPEED:				TY	YPICAL	MOTOR PERFORMA	NCE D	ATA				
HP	кw	SYNC RPM	FL	FL RPM FRAME		FRAME	ENCLOSURE		TYPE	KVA CODE		DESIGN
15	11.2	1800	1	1777		254TC	TENV		ттс			INV
	1 112	1000				20110						
PH	HZ	VOLTS	A	MPS		START TYPE		UTY	INSL	S.F.	AMB	ELEV.
3	60	230/460		5/17.5		INVERTER ONLY		ONT	Н	1.15	40	3300
	•											
	F.L. EFF		3/4 LD EFF	92.8		1/2 LD EFF	91.7	GTD EFF		ELECT.		
	F.L. PF	85.7	3/4 LD PF	81.0		1/2 LD PF	70.8	91.5		SQ CAGE I	NV DUTY	
F.L. TORQUE LR AMPS @ 460 V		L.R. TORQUE		B.D. TORQUE		E						
	LB-FT	165	400 V	84.0 L	LB-FT	189%		LB-FT	F.L. RISE (° C) 403% 105			
SOUND	PRESSURE @ 3											
	FT. SOUND POWER ROTOR WK ²			MAX. LOAD WK ²		SAFE STALL TIME		STARTS/HOUR		APROX. MOTOR WGT		
62	dBA	71 dBA	0.637	LB-FT ²	30	LB-FT ²	30	SEC.		2	280	LB.
					*** SI	IPPLEMENTAL INFORMA	TION ***					
			MOUNT			T LEMENTAL IN ORM		RDOUS	DRIP			
	RACKET TYPE	ODE BRACKET TYPE	TYPE	MOTOR ORIEN	ENTATION SEVERE DUTY		LOCATION		COVER SCREENS		PAINT	
	C-FACE	BRAKE OR ENCODER	RIGID	HORIZON'	ONTAL NO		NONE		NO NONE		BLUE (ENAMEL)	
<u> </u>	E48000											
DE	ODE	GREASE	SHAF	FT TYPE	SPECIAL DE		SPECIAL ODE		SHAFT MATERIAL		FRAME MATERIAL	
BALL	BALL			_					 			
6309	6209	POLYREX EM		T		NONE	NONE 10			1045 HOT ROLLED (C-204)		CAST IRON
	•	•										
											SPAC	E HEATERS
	RMOSTATS	PROTECTORS		G RTD's BRG RTD's			THERMISTORS		CONTROL			
18	STATS (N/C)	NOT	N	NONE NONE		NONE		FALSE		NA		
R1	I (ohms/ph)	R2 (ohms/ph)	X1 (n	phms/ph) X2 (ohms/ph)		Xm (ohms/ph)		VIBRATION (in/sec)		FLOAT		
	0.299	0.206		316 1.112			5.74	0.150		ODE		
*												
N							INVERTER TORQUE: CONSTANT 2000:1 INV. HP SPEED RANGE: 2.0 X BASE SPEED					
0 T							IN	v. HP SPEE	D RANGE:	2.U A BASE SPEED		
E							ENCODER: NORTHSTAR					
E S						ST56						
5						NONE NONE PPR				PPR		
				BRAKE: NONE								
PREPARED BY:				NONE NONE								
	DATE: 9/27/2021				FT-LB: NA							
l						VOLTAGE: NONE HZ:						
FORM: 3	FORM: 3531 REV_4 2/27/06					UL: V-INS, CONST, OVERHEAT PRT DEV UL REC						







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: 254THTCD8058

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

Catalog No: Y509A

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