PRODUCT INFORMATION PACKET

Model No: 444THFN8384 Catalog No: Y589 Blue Max® Inverter Duty Encoder Motor, 100 HP, 3 Ph, 60 Hz, 230/460 V, 1200 RPM, 444TC Frame, TEBC-AXIAL



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Motors





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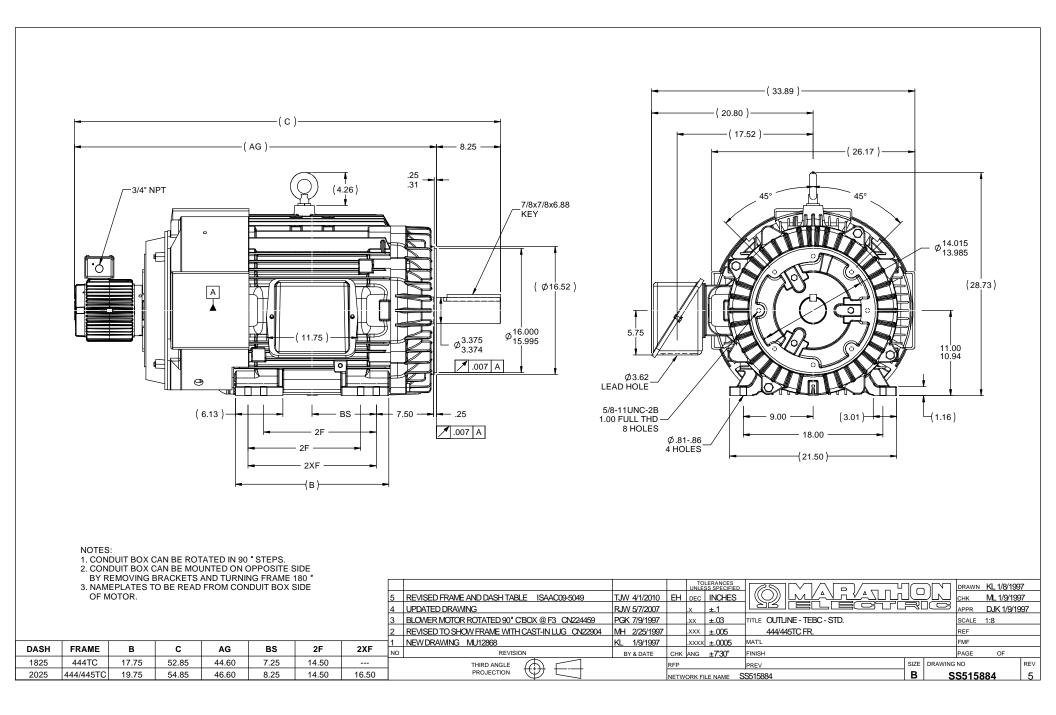
Nameplate Specifications

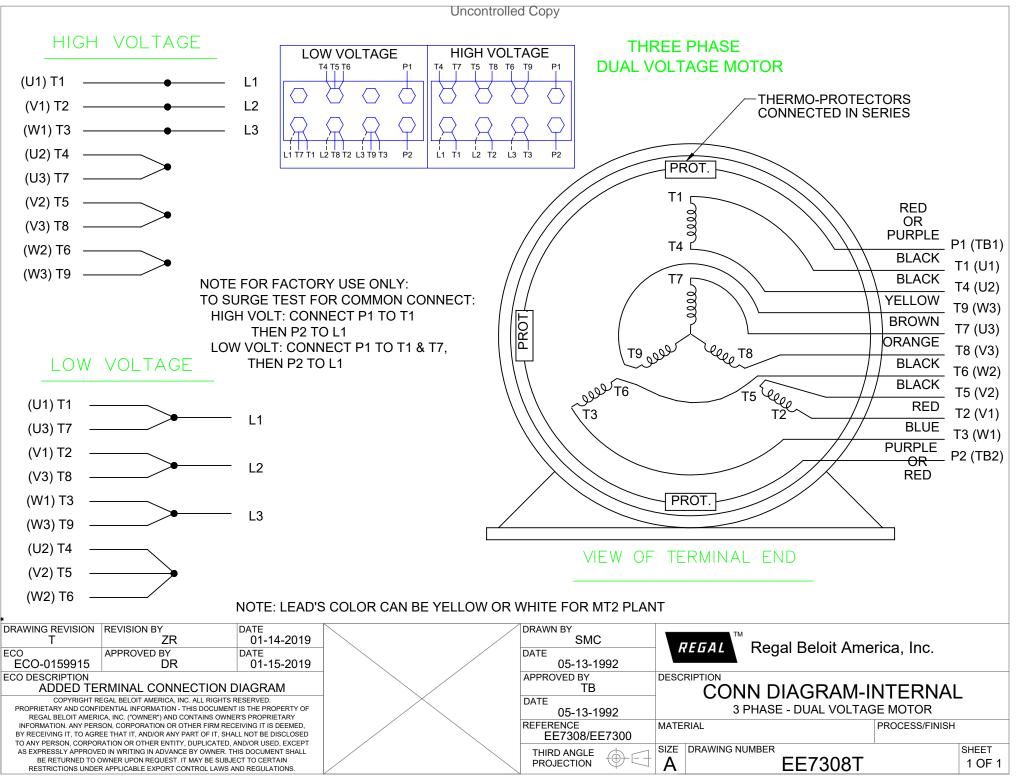
Phase	3	Output HP	100 Нр
Output KW	75.0 kW	Voltage	230/460 V
Speed	1190 rpm	Service Factor	1
Frame	444TC	Enclosure	Totally Enclosed Blower cooled - Axial
Thermal Protection	Thermostat	Efficiency	94.5 %
Ambient Temperature	40 °C	Frequency	60 Hz
Current	250.0/125.0 A	Power Factor	79
Duty	Continuous	Insulation Class	н
Design Code	INV	KVA Code	н
Drive End Bearing Size	6318	Opp Drive End Bearing Size	6316
UL	Recognized	CSA	Υ
CE	Y	IP Code	43
Number of Speeds	1		

Technical Specifications

Electrical Type	Squirrel Cage Inverter Duty	Starting Method	Inverter Only
Poles	6	Rotation	Reversible
Resistance Main	.045 Ohms	Mounting	Rigid Base
Motor Orientation	Horizontal	Drive End Bearing	Ball
Opp Drive End Bearing	Ball	Frame Material	Cast Iron
Shaft Type	Т	Overall Length	54.85 in
Frame Length	20.25 in	Shaft Diameter	3.375 in
Shaft Extension	8.25 in	Assembly/Box Mounting	F1/F2 CAPABLE
Inverter Load	CONSTANT 2000:1		
Outline Drawing	B-SS515884-2025	Connection Drawing	A-EE7308T

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CERTIFICATION DATA SHEET

Model#:	444THFN8384 BF	WINDING#:	T444668 R2 1
CONN. DIAGRAM:	A-EE7308T	ASSEMBLY:	F1/F2 CAPABLE
OUTLINE:	B-SS515884-2025		

TYPICAL MOTOR PERFORMANCE DATA

НР		ĸw		SYNC. I	RPM	F.L. RPM		FRAM	E	ENC	CLOSU	RE	KVA			DESIGN
100		75		1200)	1190	190 444TC		2	TE	TEBC-AXIAL			н		INV
РН	н	Iz	VOL.	TS F	LAMPS	START TYP	E	DUTY		INSL		S.F		AM	IB°C	ELEVATION
3	6	0	230/4	460	250/125		≀ c	CONTINUC S	υ	H1		1.0		2	40	3300
·	JLL LOAD EFF: 94.5 3/4 LOAD EFF: 94.5		i			ii		ELEC. TYPE			NO LOAD AMPS 112 / 56					
FULL LOAD			8/4 LOAD		74 1/2 LOAD PF: 63 ROTOR AMPS				3.0	B.D. TORQUE			F.L. RISE°C			
441 L	.B-FT			1680 / 84	580 / 840 825 LI		5 LB-FT 187 1250 LB-FT		T 283			50				
SOUND PRESS @ 3 FT.	SURE	SOUN	D POWE	RR	DTOR WK^	2 MA	AX. WK^2 SAFE		WK^2 SAFE STALL TIME		тіме	:	START /HOUI	-	API	PROX. MOTOR WGT
88 dBA		9	8 dBA	6	1 LB-FT^2	L	B-FT	^2		- SEC.]			2117 LBS.	

EQUIVALENT WYE CKT.PARAMETERS (OHMS PER PHASE)

R1	R2	X1	X2	ХМ
0.032944	0.020448	0.213	0.260428	4.544
RM	ZREF	XR	тр	TD0
268.948	2.84	7	0.0395	0.625

*** SUPPLEMENTAL INFORMATION ***

DE BRACKET TYPE	ODE BRACKET TYPE	MOUNT TYPE	ORIENTATION	SEVERE DUTY	HAZARDOUS LOCATION	DRIP COVER	SCREENS	PAINT
C-FACE	ENCODER	RIGID	HORIZONTAL	FALSE	NONE	FALSE	NONE	BLUE (ENAMEL)

BEAF	BEARINGS		SHAFT TYPE	SPECIAL DE	SPECIAL ODE	SHAFT	FRAME
DE	OPE					MATERIAL	MATERIAL
BALL	BALL	POLYREX EM	т	NONE	NONE	1045 HOT	CAST IRON
6318	6316					ROLLED (C-204)	

THERMO-PROTECTORS				THERMISTORS	CONTROL	SPACE /n HEATERS
THERMOSTATS	PROTECTORS	WDG RTDs	BRG RTDs			
TSTATS (N/C)	NOT	NONE	NONE	NONE	FALSE	NONE VOLTS

If Inverter equals NONE, contact factory for further information

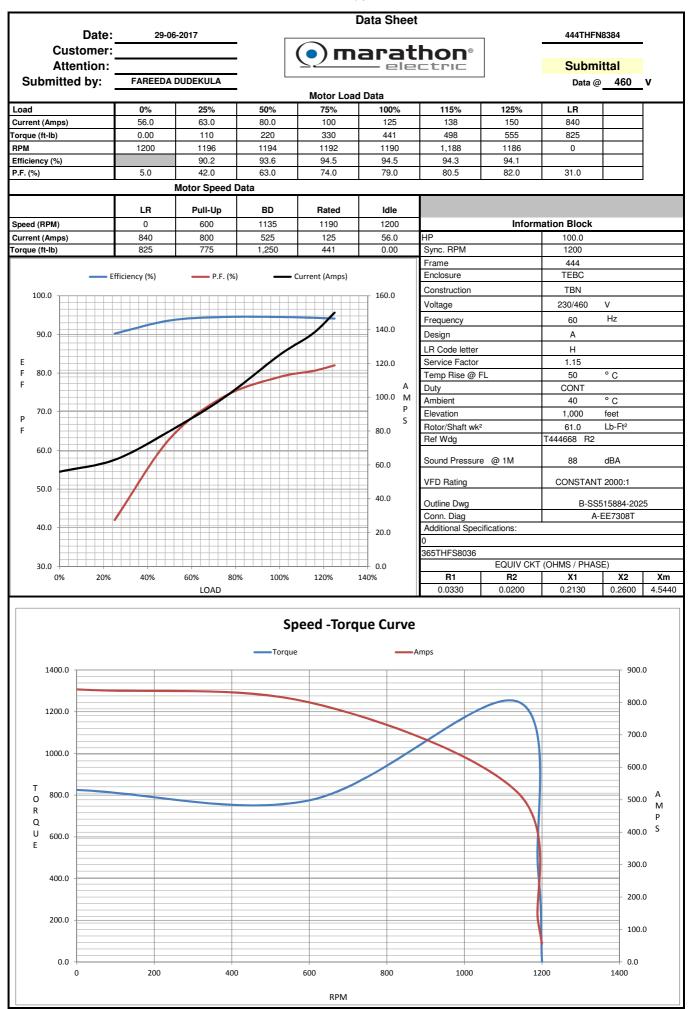
*	INVERTER TORQUE: CONSTANT 2000:1
Ν	INV. HP SPEED RANGE: 1.5 X BASE SPEED
0 T	ENCODER: PROVISIONS ONLY
E	NONE NONE NONE NONE PPR
S	
*	BRAKE: NONE NONE NONE P/N NONE

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NONE NONE NONE FT-LB NONE V NONE HZ

DATE: 06/21/2017 03:34:18 AM FORM 3531 REV.3 02/07/99 ** Subject to change without notice.

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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: 444THFN8384

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

Catalog No : Y589

Rework No : N/A

Directives :

Low Voltage Directive 2014/35/EU

Harmonized Standards Used :

EN 60034-1: 2010 (IEC 60034-1: 2010) EN 60034-5: 2001/A1:2007 (IEC 60034-5: 2000/A1:2006)

Authorized Representative:

Michael A Logsdon

Michael A. Logsdon Vice President, Technology

Created on 09/01/2022

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Authorized Representative in the Community:

Julian Clark Marketing Engineer