PRODUCT INFORMATION PACKET



Model No: 365THFS8380
Catalog No: Y586
Blue Max® Inverter Duty Encoder Motor, 50 HP, 3 Ph, 60 Hz, 230/460 V, 1200 RPM, 365TC Frame, TEBC-AXIAL



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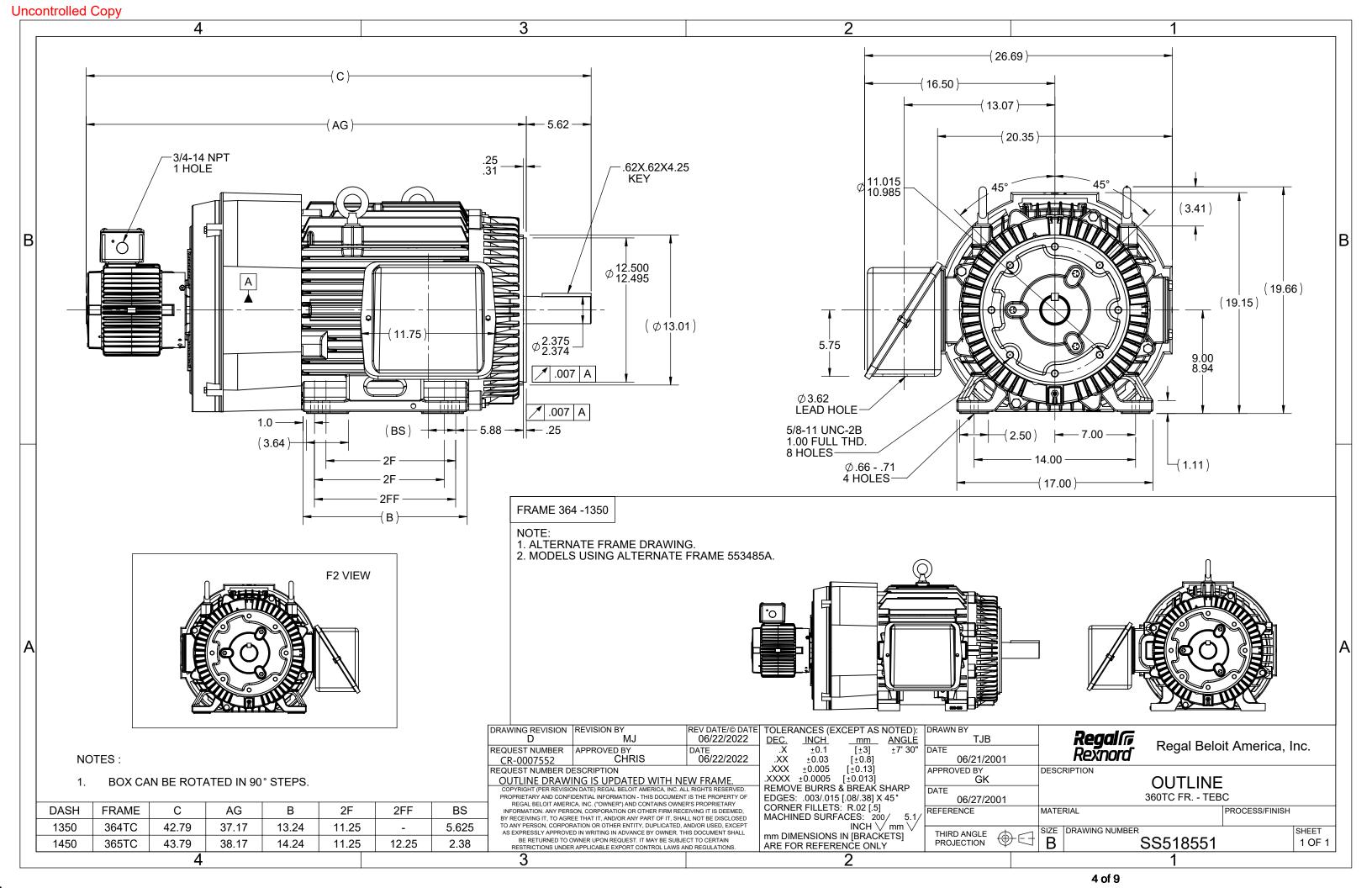
Nameplate Specifications

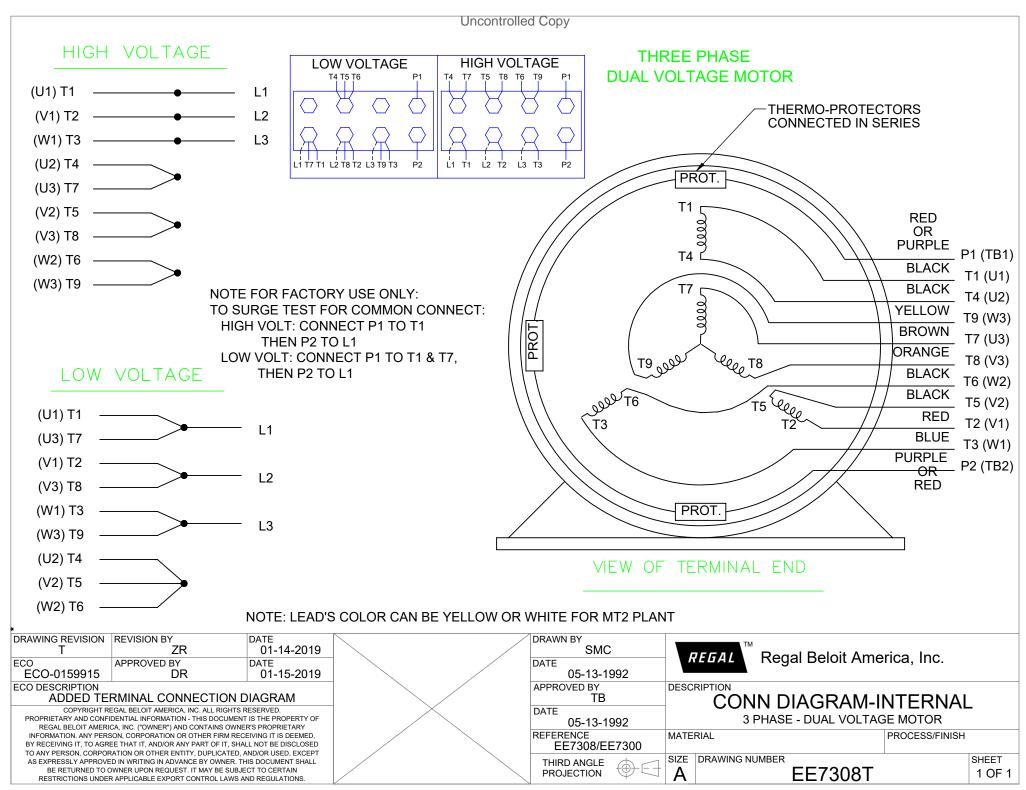
Phase	3	Output HP	50 Hp
Output KW	37.0 kW	Voltage	230/460 V
Speed	1180 rpm	Service Factor	1
Frame	365TC	Enclosure	Totally Enclosed Blower cooled - Axial
Thermal Protection	Thermostat	Efficiency	93 %
Ambient Temperature	40 °C	Frequency	60 Hz
Current	130.0/65.0 A	Power Factor	78
Duty	Continuous	Insulation Class	н
Design Code	INV	KVA Code	G
Drive End Bearing Size	6314	Opp Drive End Bearing Size	6312
UL	Recognized	CSA	Υ
CE	Υ	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	.145 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	43.67 in
Frame Length	14.50 in	Shaft Diameter	2.375 in
Shaft Extension	5.62 in	Assembly/Box Mounting	F1/F2 CAPABLE
Inverter Load	CONSTANT 2000:1		
Connection Drawing	A-EE7308T	Outline Drawing	B-SS518551-1450

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CERTIFICATION DATA SHEET

 Model#:
 365THFS8380 CT
 WINDING#:
 T365667 F 1

 CONN. DIAGRAM:
 A-EE7308T
 ASSEMBLY:
 F1/F2 CAPABLE

OUTLINE: B-SS518551-1450

TYPICAL MOTOR PERFORMANCE DATA

HP	KW	<u> </u>	SYN	IC. RPM	F.L. RPM	FRAME	ENCLOS	SURE	KVA	CODE	DESIGN
50	37		,	1200	1180	365TC	TEBC-A	XIAL		G	INV
PH	Hz	VOL	TS	FL AMPS	START TYPE	DUTY	INSL	S.F	:	AMB°C	ELEVATION
3	60	230/4	460	130/65	INVERTER	CONTINUOU	H1	1.0		40	3300
					ONLY	S					

FULL LOAD EFF: 93	3/4 LOAD EFF: 93	1/2 LOAD EFF: 92.4	GTD. EFF	ELEC. TYPE	NO LOAD AMPS	
FULL LOAD PF: 78	3/4 LOAD PF: 73	1/2 LOAD PF: 63	91.7	SQ CAGE INV DUTY	57 / 28.5	

F.L. TORQUE	LOCKED ROTOR AMPS	L.R. TORQUE	B.D. TORQUE	F.L. RISE°C
222 LB-FT	724 / 362	400 LB-FT 180	525 LB-FT 236	60

SOUND PRESSURE @ 3 FT.	SOUND POWER	ROTOR WK^2	MAX. WK^2	SAFE STALL TIME	STARTS /HOUR	APPROX. MOTOR WGT
85 dBA	95 dBA	14.5 LB-FT^2	- LB-FT^2	- SEC.	-	925 LBS.

EQUIVALENT WYE CKT.PARAMETERS (OHMS PER PHASE)

R1	R2	X1	X2	XM
0.090153	0.069174	0.437724	0.585711	8.68644
RM	ZREF	XR	TD	TD0
816.48	5.67	6.3	0.025	0.355

*** SUPPLEMENTAL INFORMATION ***

DE BRACKET TYPE	ODE BRACKET	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
6314	6312					ROLLED (C-204)	

	THERMO-PROTECTORS				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 INV. HP SPEED RANGE: 1.5 X BASE SPEED

ENCODER: PROVISIONS ONLY

NONE NONE NONE NONE PPR

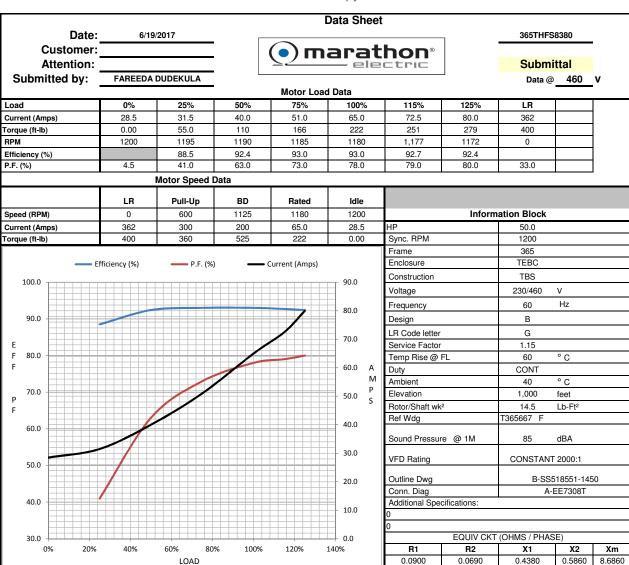
BRAKE: NONE NONE NONE P/N NONE

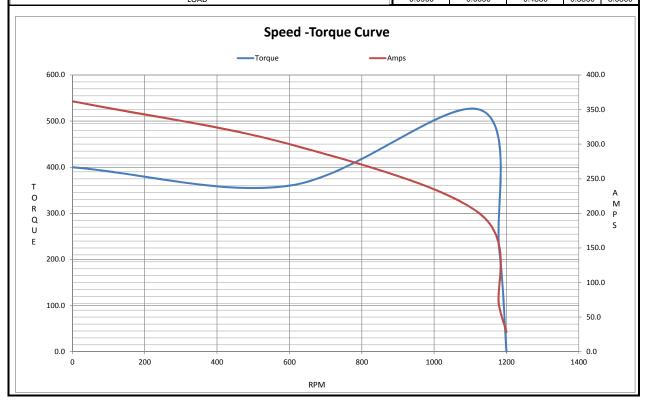
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NONE	NONE		
NONE FT-L	.B	NONE V	NONE Hz

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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: 365THFS8380

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

Catalog No : Y586

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:

J. Clux

Authorized Representative in the Community:

Michael A. Logsdon Vice President, Technology Julian Clark
Marketing Engineer

Created on 09/01/2022

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