PRODUCT INFORMATION PACKET



Model No: 449THFS8036 Catalog No: Y579

Blue Max® Inverter Duty Encoder Motor, 250 HP, 3 Ph, 60 Hz, 460 V, 1800 RPM, 449T Frame, TEFC



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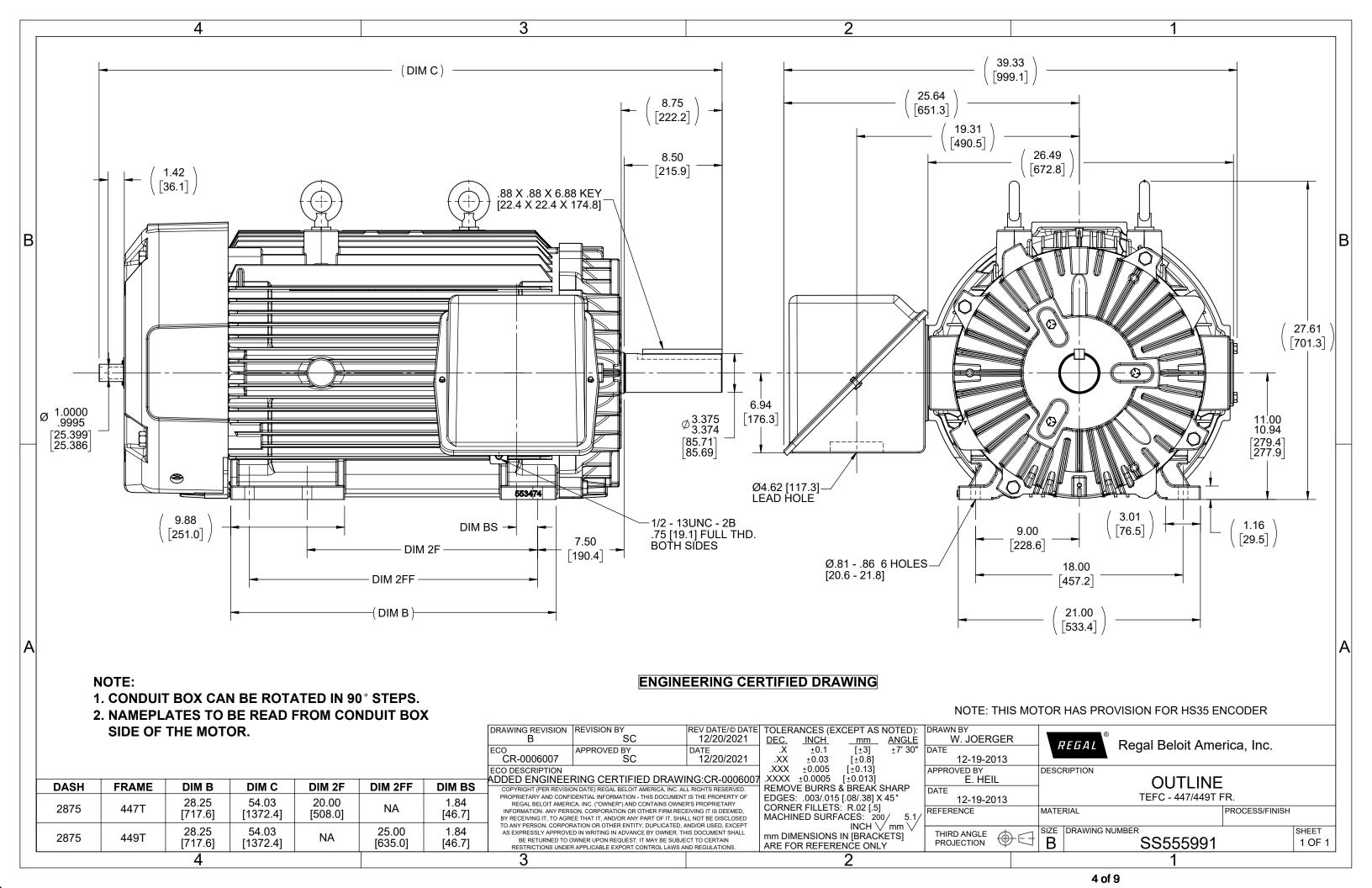
Nameplate Specifications

Phase	3	Output HP	250 Hp
Output KW	187.0 kW	Voltage	460 V
Speed	1788 rpm	Service Factor	1
Frame	449T	Enclosure	Totally Enclosed Fan Cooled
Thermal Protection	Thermostat	Efficiency	95 %
Ambient Temperature	40 °C	Frequency	60 Hz
Current	280.0 A	Power Factor	89
Duty	Continuous	Insulation Class	Н
Design Code	INV	KVA Code	J
Drive End Bearing Size	6319	Opp Drive End Bearing Size	6318
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	4	Rotation	Reversible
Resistance Main	.011 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	54.03 in
Frame Length	28.75 in	Shaft Diameter	3.375 in
Shaft Extension	8.75 in	Assembly/Box Mounting	F1/F2 CAPABLE
Inverter Load	CONSTANT 20:1		
Outline Drawing	B-SS555991-2875	Connection Drawing	A-EE7300S

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Uncontrolled Copy THREE PHASE - SINGLE VOLTAGE MOTOR TO REVERSE ROTATION: INTERCHANGE ANY TWO LINE LEAD CONNECTIONS PROT. Т3 IF MOTOR HAS MULTIPLE T'S PER LEAD CONNECT TOGETHER LIKE T'S T1 (U1)______L1 T1 (U1)-

T2 (V1) T2 (V1) T3 (W1) T3 (W1)-

VIEW OF TERMINAL END

	A-9806 DECAL												
					TOL UNLES	ERAN S SP	ICES ECIFIED				DRAWN	KL 12-1	5-1999
					DEC.	ΙΝ·	CHES	REGAL REGAL-BELOIT CO	RPOR	RATION	CHK I)JK 12-	15-1999
F	UPDATED TITLE BLOCK	HV (02-27-2014	EWH	.X	±	-	BELOIT FIEST E BELOIT GO			APPD ()JK 12-	5-1999
3	REMOVED "N.C." FROM PROT.'S MU61770	JJB (08-02-2010		.xx	±	-	TITLE CONNECTION DIAGRAM — EXTE	RNAL		SCALE	1=	1
2	ADDED IEC MARKINGS MU61770	KL (09-16-2004	EAB	.xxx	±	-	SINGLE VOLTAGE 30 MOTOR			REF		
1	NEW DRAWING	KL	12-16-1999		.xxxx	±	-	MAT'L.			FMF		
NO.	REVISION	BY	& DATE	СНК	ANG	±	-	FINISH			PREV		
	THIS DRAWING IN DESIGN AND DETAIL IS OUR PROPERTY AND MUST NOT BE USED EXCEPT IN CONNECTION WITH OUR WORK ALL RIGHTS OF DESIGN AND INVENTION ARE RESERVED			RFP				CAD FILE ee7300s	SIZE	DRAWING NO			REV.
	THIS IS AN ELECTRONICALLY GENERATED DOCUMENT — DO NOT SCALE				DIST WA-LB-SB			Α	Ef	<u> </u>) 	F	

EE7300S

- P1 (1T1)

P2 (1T2)

T1 (U1)

T2 (V1) T3 (W1)

CERTIFICATION DATA SHEET

 Model#:
 449THFS8036 AE
 WINDING#:
 T449465 NONE 1

 CONN. DIAGRAM:
 A-EE7300S
 ASSEMBLY:
 F1/F2 CAPABLE

OUTLINE: B-SS555991-2875

TYPICAL MOTOR PERFORMANCE DATA

HP	KW	<u> </u>	SYNC. RPM	F.L. RPM	FRAME	ENCLOS	SURE	KVA CODE	DESIGN
250	187	,	1800	1788	447/449T	TEF	c	J	INV
PH	Hz	VOLTS	FL AMPS	S START TYPE	DUTY	INSL	S.F	AMB°C	ELEVATION
3	60	460	280	INVERTER	CONTINUOU	H1	1.0	40	3300
				ONLY	S				

FULL LOAD EFF: 95	3/4 LOAD EFF: 95	1/2 LOAD EFF: 93.6	GTD. EFF	ELEC. TYPE	NO LOAD AMPS
FULL LOAD PF: 89	3/4 LOAD PF: 85	1/2 LOAD PF: 78	94.5	SQ CAGE INV DUTY	85

F.L. TORQUE	LOCKED ROTOR AMPS	L.R. TORQUE	B.D. TORQUE	F.L. RISE°C
734 LB-FT	2450	1250 LB-FT 170	2500 LB-FT 341	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	81 LB-FT^2	- LB-FT^2	- SEC.	-	2700 LBS.

EQUIVALENT WYE CKT.PARAMETERS (OHMS PER PHASE)

R1	R2	X1	X2	XM
0.009576	0.006612	0.093024	0.077292	2.9982
RM	ZREF	XR	TD	
140.22	1.14	9	0.0525	1.245

*** SUPPLEMENTAL INFORMATION ***

DE BRACKET TYPE	ODE BRACKET TYPE	MOUNT TYPE	ORIENTATION	SEVERE DUTY	HAZARDOUS LOCATION	DRIP COVER	SCREENS	PAINT
STANDARD	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
6319	6318					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 20:1 INV. HP SPEED RANGE: 1.5 X BASE SPEED

ENCODER: PROVISIONS ONLY

NONE NONE NONE NONE PPR

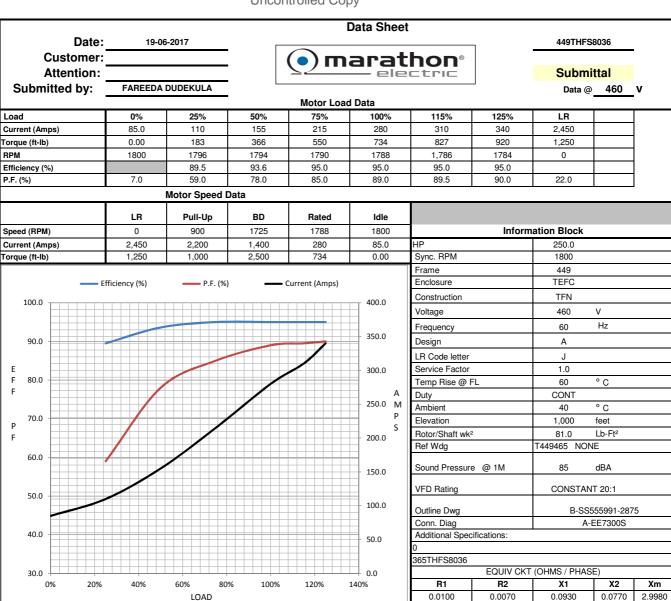
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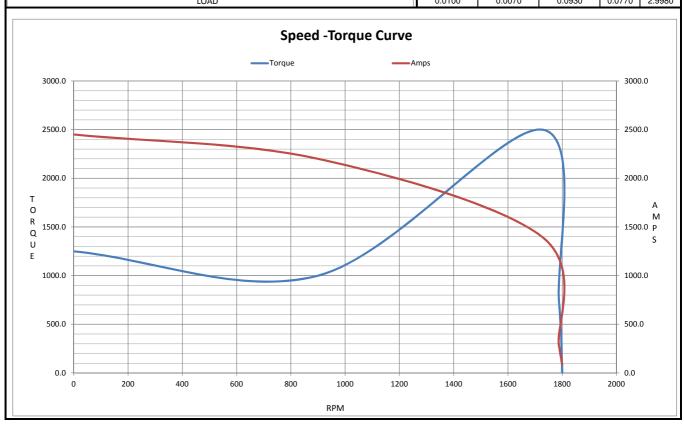
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NONE	NONE		
NONE FT-L	.B	NONE V	NONE Hz

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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: 449THFS8036

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

Catalog No : Y579

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. cerse

Michael A. Logsdon Vice President, Technology

Julian Clark Marketing Engineer

Created on 09/01/2022

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