

# PRODUCT INFORMATION PACKET

**marathon**<sup>®</sup>  
Motors

Model No: 447TTFC6683  
Catalog No: Y854A  
150,1200,TEFC,447T,3/60/460  
Other Purpose



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**REGAL**<sup>®</sup>



### Nameplate Specifications

Output HP	<b>150 Hp</b>	Output KW	<b>112.0 kW</b>
Frequency	<b>60 Hz</b>	Voltage	<b>460 V</b>
Current	<b>170.0 A</b>	Speed	<b>1190 rpm</b>
Service Factor	<b>1.15</b>	Phase	<b>3</b>
Efficiency	<b>95.8 %</b>	Duty	<b>Continuous</b>
Insulation Class	<b>F</b>	Design Code	<b>C</b>
KVA Code	<b>G</b>	Frame	<b>447T</b>
Enclosure	<b>Totally Enclosed Fan Cooled</b>	Overload Protector	<b>No</b>
Ambient Temperature	<b>40 °C</b>	Drive End Bearing Size	<b>NU319</b>
Opp Drive End Bearing Size	<b>6317</b>	UL	<b>Recognized</b>
CSA	<b>Y</b>	CE	<b>Y</b>
IP Code	<b>55</b>		

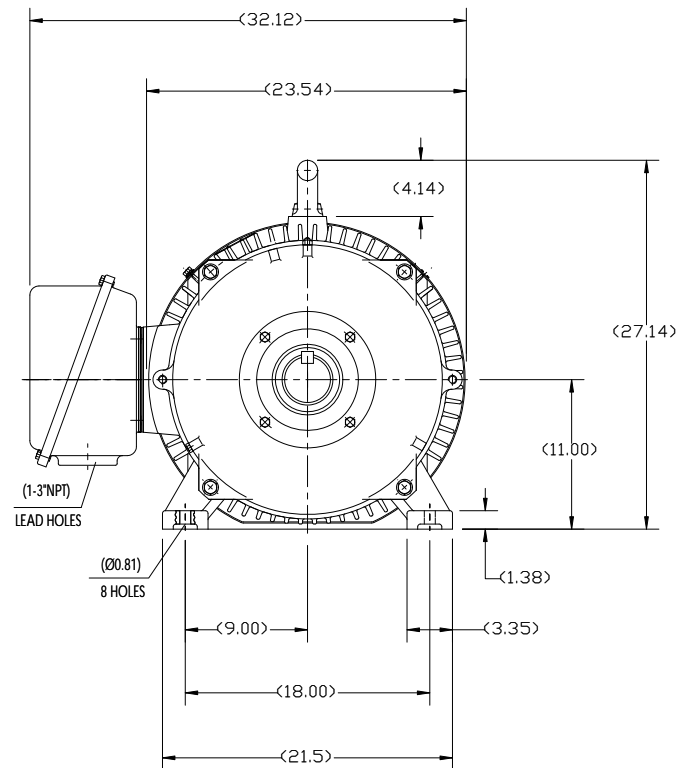
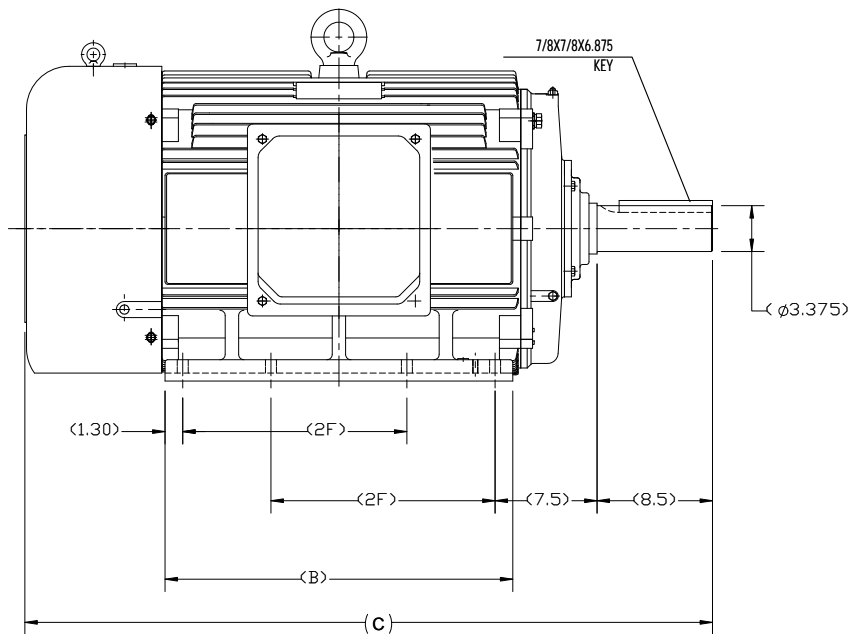
### Technical Specifications

Electrical Type	<b>Squirrel Cage Inverter Rated</b>	Starting Method	<b>Part Wdg Start &amp; Wye Start Delta Run Or Inverter</b>
Poles	<b>6</b>	Rotation	<b>Reversible</b>
Mounting	<b>Rigid base</b>	Motor Orientation	<b>Horizontal</b>
Drive End Bearing	<b>Roller</b>	Opp Drive End Bearing	<b>Ball</b>
Frame Material	<b>Cast Iron</b>	Shaft Type	<b>T</b>
Overall Length	<b>50.78 in</b>	Shaft Diameter	<b>3.375 in</b>
Shaft Extension	<b>8.5 in</b>	Assembly/Box Mounting	<b>F1/F2 Capable</b>
Outline Drawing	<b>SS620677</b>	Connection Diagram	<b>EE7300BH</b>

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B

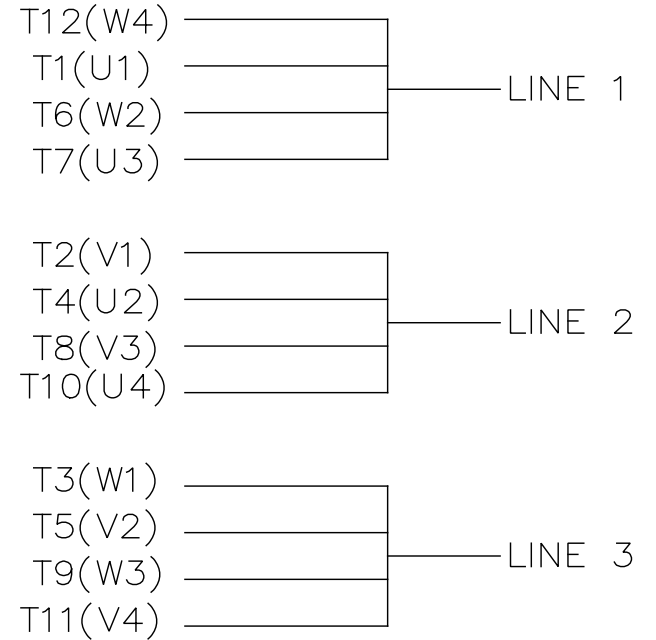
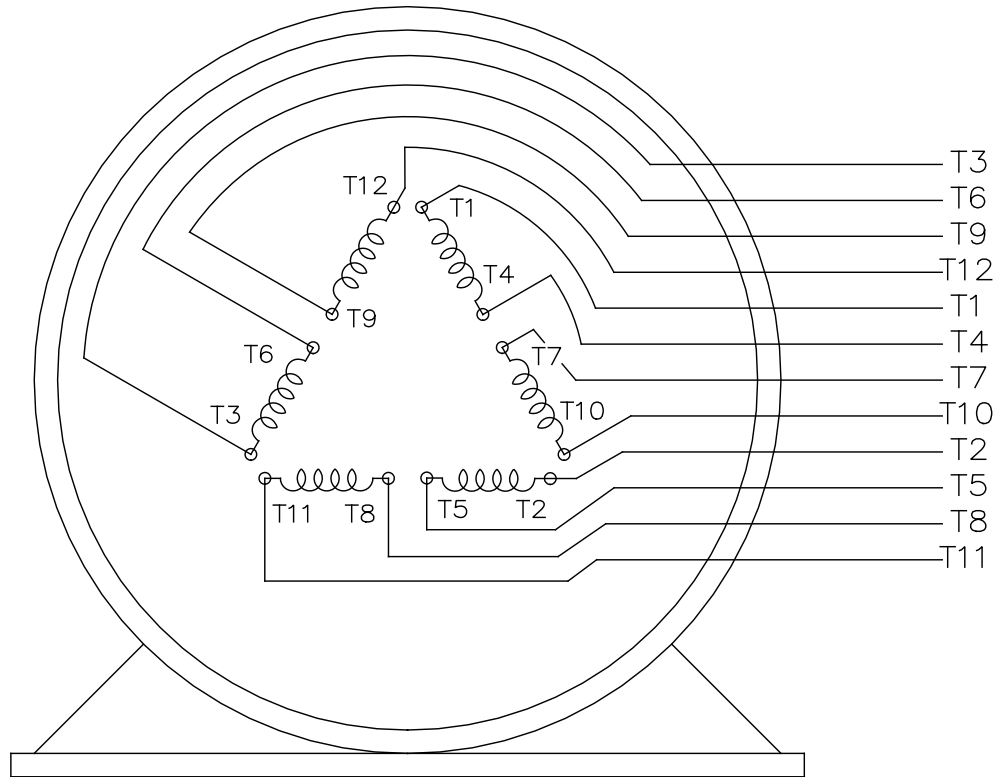
B



A

A

DRAWING REVISION B		REVISION BY W. JOERGER	DATE 02-27-2017	TOLERANCES UNLESS OTHERWISE SPECIFIED: DEC. INCH mm ANGLE .X -0.1 [-2.5] $\pm 7' 30''$ .XX +0.03 [+0.76] .XXX +0.005 [+0.127] .XXXX +0.0005 [+0.0127] REMOVE BURRS & BREAK SHARP EDGES: .003/.015 [.076/.381] X 45° CORNER FILLETS: R.02 [.51] MACHINED SURFACES: 200/5.1 mm SHOWN IN [BRACKETS]	DRAWN BY ZYH	Regal Beloit America, Inc. <b>OUTLINE</b> 444T/445T FR-TEFC-CAST IRON-SEVERE DUTY
ECO-0118824		APPROVED BY E. HEIL	DATE 02-27-2017		DATE 04-22-2012	
ECO DESCRIPTION REMOVED 447T/449T FRAME MOTORS <small>COPYRIGHT REGAL BELOIT AMERICA, INC. ALL RIGHTS RESERVED.          PROPRIETARY AND CONFIDENTIAL INFORMATION - THIS DOCUMENT IS THE PROPERTY OF REGAL BELOIT AMERICA, INC. (OWNER) AND CONTAINS OWNER'S PROPRIETARY INFORMATION. ANY PERSON, CORPORATION OR OTHER FIRM RECEIVING IT IS DEEMED, BY RECEIVING IT, TO AGREE THAT IT, AND/OR ANY PART OF IT, SHALL NOT BE DISCLOSED TO ANY PERSON, CORPORATION OR OTHER ENTITY, DUPLICATED, AND/OR USED, EXCEPT AS EXPRESSLY APPROVED IN WRITING IN ADVANCE BY OWNER. THIS DOCUMENT SHALL BE RETURNED TO OWNER UPON REQUEST. IT MAY BE SUBJECT TO CERTAIN RESTRICTIONS UNDER APPLICABLE EXPORT CONTROL LAWS AND REGULATIONS.</small>					APPROVED BY WGH	PROCESS/FINISH
444T	50.787	25.60	14.50		DATE 04-22-2012	
445T			16.50		REFERENCE	
FRAME	C	B	2F		THIRD ANGLE PROJECTION	MATERIAL
	4		3		SIZE B	DRAWING NUMBER SS620677
						SHEET 1 OF 1



VIEW OF TERMINAL END

				TOLERANCES UNLESS SPECIFIED		REGAL REGAL - BELOIT CORPORATION	DRAWN RJW 02-11-2005			
				DEC.	INCHES		CHK	ML	02-11-2005	
				.X	±.1		APPD	GK	02-11-2005	
				.XX	±.02	TITLE CONNECTION DIAGRAM	SCALE			
D	CHANGED TO REGAL TITLE BLOCK	ECO-0108299	WGJ 08/22/2016	EMH	.XXX ±.005	12 LEAD- SINGLE VOLTAGE	REF			
1	ADDED IEC TERMINAL MARKINGS	CN 41429	JJB 05/24/2007	ML	.XXXX ±.0005	MAT'L.	FMF			
NO.	REVISION	BY & DATE	CHK	ANG	±7'30"	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 THIS IS AN ELECTRONICALLY GENERATED DOCUMENT - DO NOT SCALE THIS PRINT				RFP	02-11-2005	CAD FILE ee7300bh	SIZE	DRAWING NO.	PAGE OF	REV.
				DIST	LB		A	EE7300BH		C





Data Sheet

Date: 20-06-2017  
 Customer: \_\_\_\_\_  
 Attention: \_\_\_\_\_  
 Submitted by: FAREEDA DUDEKULA



447TTC6683

Submittal

Data @ 460 V

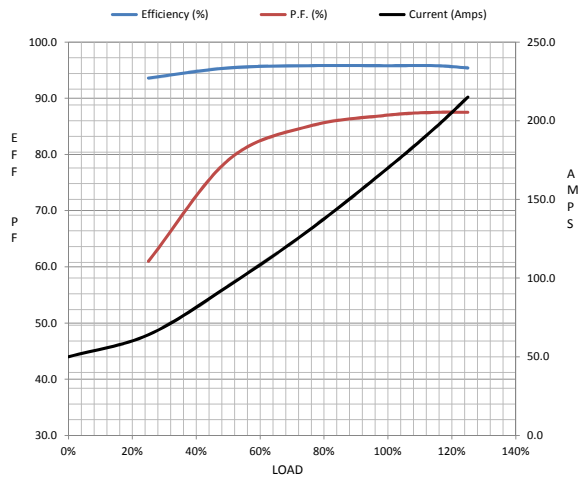
Motor Load Data

Load	0%	25%	50%	75%	100%	115%	125%	LR
Current (Amps)	50.0	64.0	95.0	130	170	196	215	1,085
Torque (ft-lb)	0.00	165	330	495	662	760	830	1,375
RPM	1200	1198	1195	1192	1190	1,188	1185	0
Efficiency (%)		93.6	95.4	95.8	95.8	95.8	95.4	
P.F. (%)	6.5	61.0	79.0	85.0	87.0	87.5	87.5	32.0

Motor Speed Data

	LR	Pull-Up	BD	Rated	Idle
Speed (RPM)	0	600	1150	1190	1200
Current (Amps)	1,085	950	575	170	50.0
Torque (ft-lb)	1,375	1,200	1,450	662	0.00

Information Block				
HP	150.0			
Sync. RPM	1200			
Frame	449			
Enclosure	TEFC			
Construction	TFC			
Voltage	460#380 V			
Frequency	60 Hz			
Design	A			
LR Code letter	G			
Service Factor	1.15			
Temp Rise @ FL	80 ° C			
Duty	CONT			
Ambient	40 ° C			
Elevation	1,000 feet			
Rotor/Shaft wk <sup>2</sup>	135 Lb-Ft <sup>2</sup>			
Ref Wdg	CHT44760004 NONE			
Sound Pressure @ 1M	75 dBA			
VFD Rating	CONSTANT 10:1			
Outline Dwg	SS620677			
Conn. Diag	EE7300BH			
Additional Specifications:				
0				
365THFS8036				
EQUIV CKT (OHMS / PHASE)				
R1	R2	X1	X2	Xm
0.0170	0.0120	0.1390	0.2720	5.2830



Speed -Torque Curve

