

PRODUCT INFORMATION PACKET

marathon®
Motors

Model No: 445TTFC6683
Catalog No: Y853A
125,1200,TEFC,445T,3/60/460
Other Purpose



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REGAL



Nameplate Specifications

Output HP	125 Hp	Output KW	93.0 kW
Frequency	60 Hz	Voltage	460 V
Current	142.0 A	Speed	1188 rpm
Service Factor	1.15	Phase	3
Efficiency	95 %	Duty	Continuous
Insulation Class	F	Design Code	C
KVA Code	G	Frame	445T
Enclosure	Totally Enclosed Fan Cooled	Overload Protector	No
Ambient Temperature	40 °C	Drive End Bearing Size	NU319
Opp Drive End Bearing Size	6317	UL	Recognized
CSA	Y	CE	Y
IP Code	55		

Technical Specifications

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

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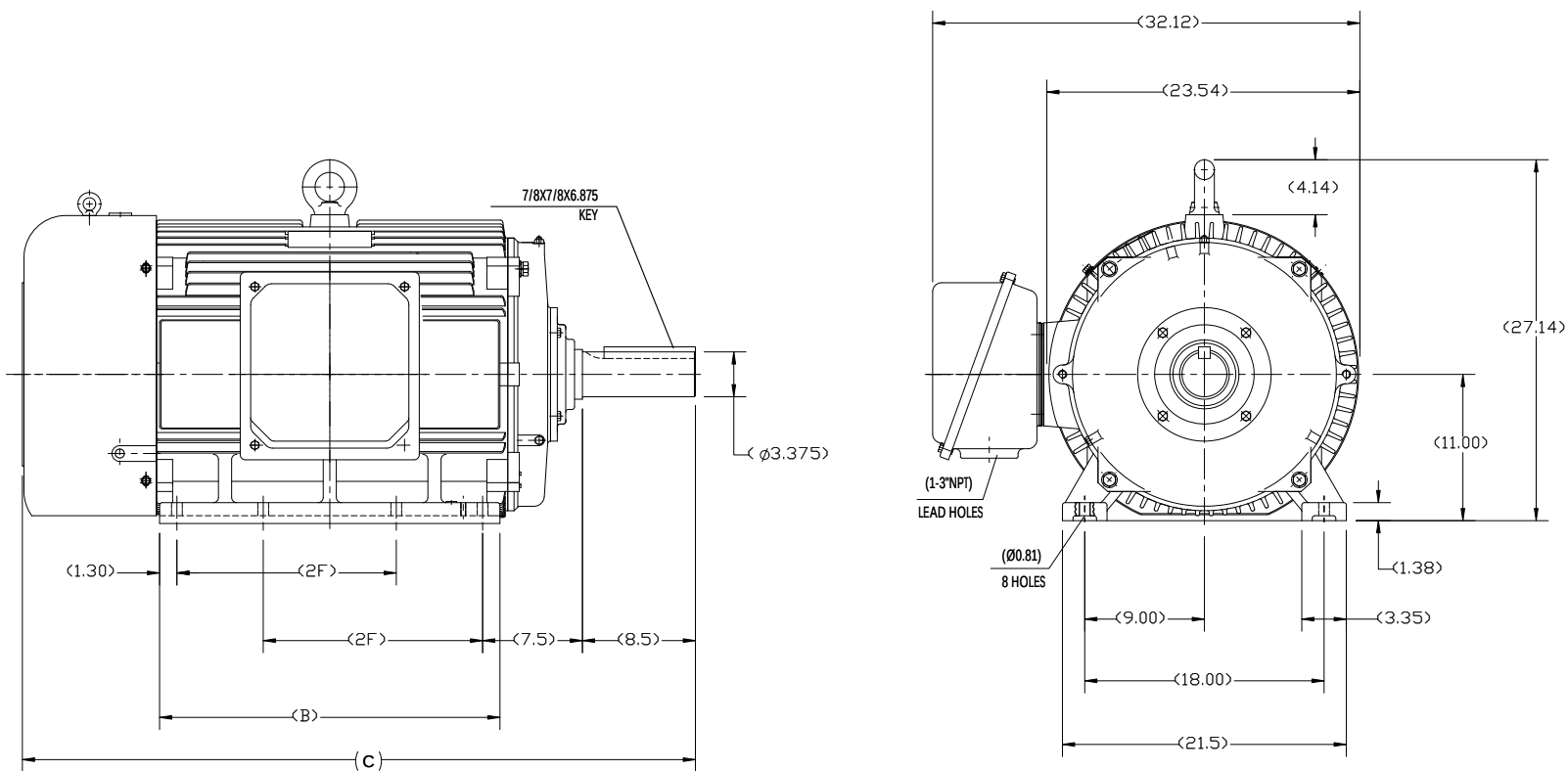
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DRAWING REVISION B	REVISION BY W. JOERGER	DATE 02-27-2017
ECO ECO-0118824	APPROVED BY E. HEIL	DATE 02-27-2017
ECO DESCRIPTION REMOVED 447T/449T FRAME MOTORS		
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TOLERANCES UNLESS OTHERWISE SPECIFIED:		
DEC.	INCH	mm
.X	± 0.1	± 2.5
.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		
mm SHOWN IN [BRACKETS]		

DRAWN BY ZYH	DATE 04-22-2012
APPROVED BY WGH	DATE 04-22-2012
REFERENCE	
THIRD ANGLE PROJECTION	

Regal Beloit America, Inc.	
DESCRIPTION OUTLINE 444T/445T FR-TEFC-CAST IRON-SEVERE DUTY	
MATERIAL	PROCESS/FINISH
SIZE B	DRAWING NUMBER SS620677
	SHEET 1 OF 1

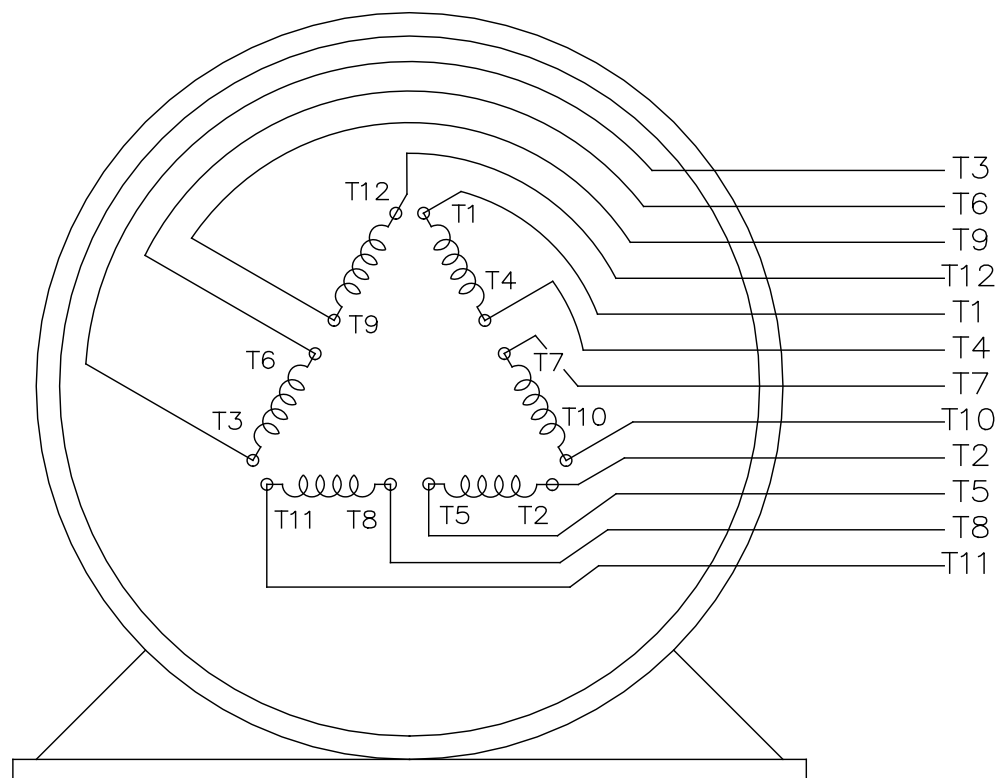
444T	50.787	25.60	14.50
445T			16.50
FRAME	C	B	2F

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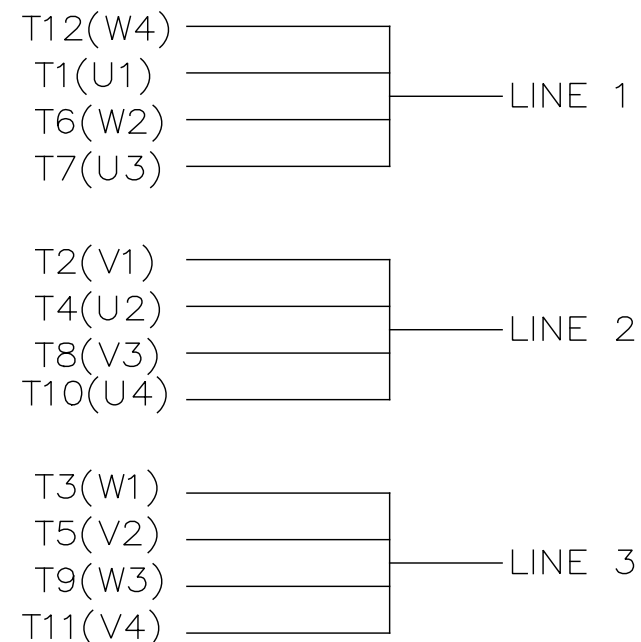
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VIEW OF TERMINAL END



				TOLERANCES UNLESS SPECIFIED		 REGAL - BELOIT CORPORATION	DRAWN RJW 02-11-2005					
				DEC.	INCHES		CHK	ML	02-11-2005			
				.X	±.1		APPD	GK	02-11-2005			
				.XX	±.02		SCALE					
D	CHANGED TO REGAL TITLE BLOCK	ECO-0108299	WGJ 08/22/2016	EMH	.XXX	±.005	TITLE CONNECTION DIAGRAM 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	

CERTIFICATION DATA SHEET

Model#: 445TTFC6683 AA **WINDING#:** CHT44560003 NONE 1
CONN. DIAGRAM: EE7300BH **ASSEMBLY:** F1/F2 CAPABLE
OUTLINE: SS620677

TYPICAL MOTOR PERFORMANCE DATA

HP	KW	SYNC. RPM	F.L. RPM	FRAME	ENCLOSURE	KVA CODE	DESIGN
125&100	93&75	1200	1188&988	445T	TEFC	G	C

PH	Hz	VOLTS	FL AMPS	START TYPE	DUTY	INSL	S.F	AMB°C	ELEVATION
3	60/50	460#380	142&140	PWS & YDRUN OR INV	CONTINUOUS	F7	1.15/1.15	40	3300

FULL LOAD EFF: 95&95	3/4 LOAD EFF: 95	1/2 LOAD EFF: 94.5	GTD. EFF	ELEC. TYPE	NO LOAD AMPS
FULL LOAD PF: 86&87	3/4 LOAD PF: 84	1/2 LOAD PF: 78	94.1	SQ CAGE INV RATED	42.5

F.L. TORQUE	LOCKED ROTOR AMPS	L.R. TORQUE	B.D. TORQUE	F.L. RISE°C
552 LB-FT	907	1200 LB-FT 215	1275 LB-FT 230	80

SOUND PRESSURE @ 3 FT.	SOUND POWER	ROTOR WK^2	MAX. WK^2	SAFE STALL TIME	STARTS /HOUR	APPROX. MOTOR WGT
75 dBA	85 dBA	108 LB-FT^2	- LB-FT^2	25 SEC.	-	2750 LBS.

*** SUPPLEMENTAL INFORMATION ***

DE BRACKET TYPE	ODE BRACKET TYPE	MOUNT TYPE	ORIENTATION	SEVERE DUTY	HAZARDOUS LOCATION	DRIP COVER	SCREENS	PAINT
STANDARD	STANDARD	RIGID	HORIZONTAL	PREMIUM SEVERE DUTY	NONE	FALSE	NONE	BLUE (EPOXY)

BEARINGS		GREASE	SHAFT TYPE	SPECIAL DE	SPECIAL ODE	SHAFT MATERIAL	FRAME MATERIAL
DE	OPE						
ROLLER	BALL	SHC- 100/POLYREX	T	NONE	NONE	4140 STRESSPROOF (C-214)	CAST IRON
NU319	6317						

THERMO-PROTECTORS				THERMISTORS	CONTROL	SPACE /n HEATERS
THERMOSTATS	PROTECTORS	WDG RTDs	BRG RTDs			
NONE	NOT	NONE	NONE	NONE	FALSE	NONE VOLTS

If Inverter equals NONE, contact factory for further information

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INVERTER TORQUE: CONSTANT 10:1 INV. HP SPEED RANGE: NONE		
ENCODER: NONE NONE NONE NONE NONE PPR		
BRAKE: NONE NONE NONE P/N NONE NONE NONE NONE FT-LB NONE V NONE Hz		

DATE: 06/21/2017 05:49:20 AM
 FORM 3531 REV.3 02/07/99
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