

PRODUCT INFORMATION PACKET

marathon®
Motors

Model No: 444TTFC6036

Catalog No: GT1049

Globetrotter® General Purpose Motor, 125 & 100 HP, 3 Ph, 60 & 50 Hz, 460 & 380 V, 1800 & 1500 RPM,
444T Frame, TEFC



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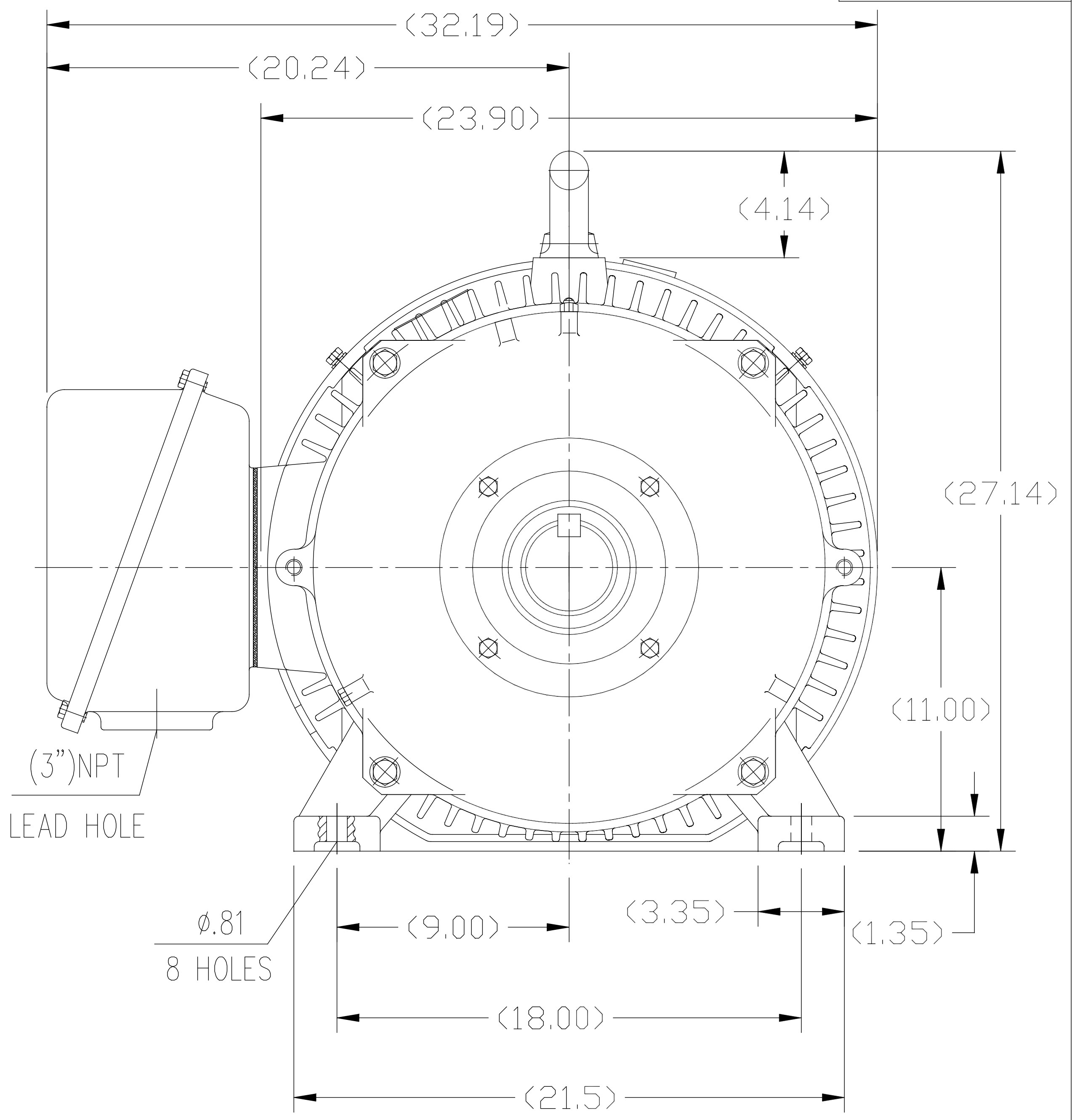
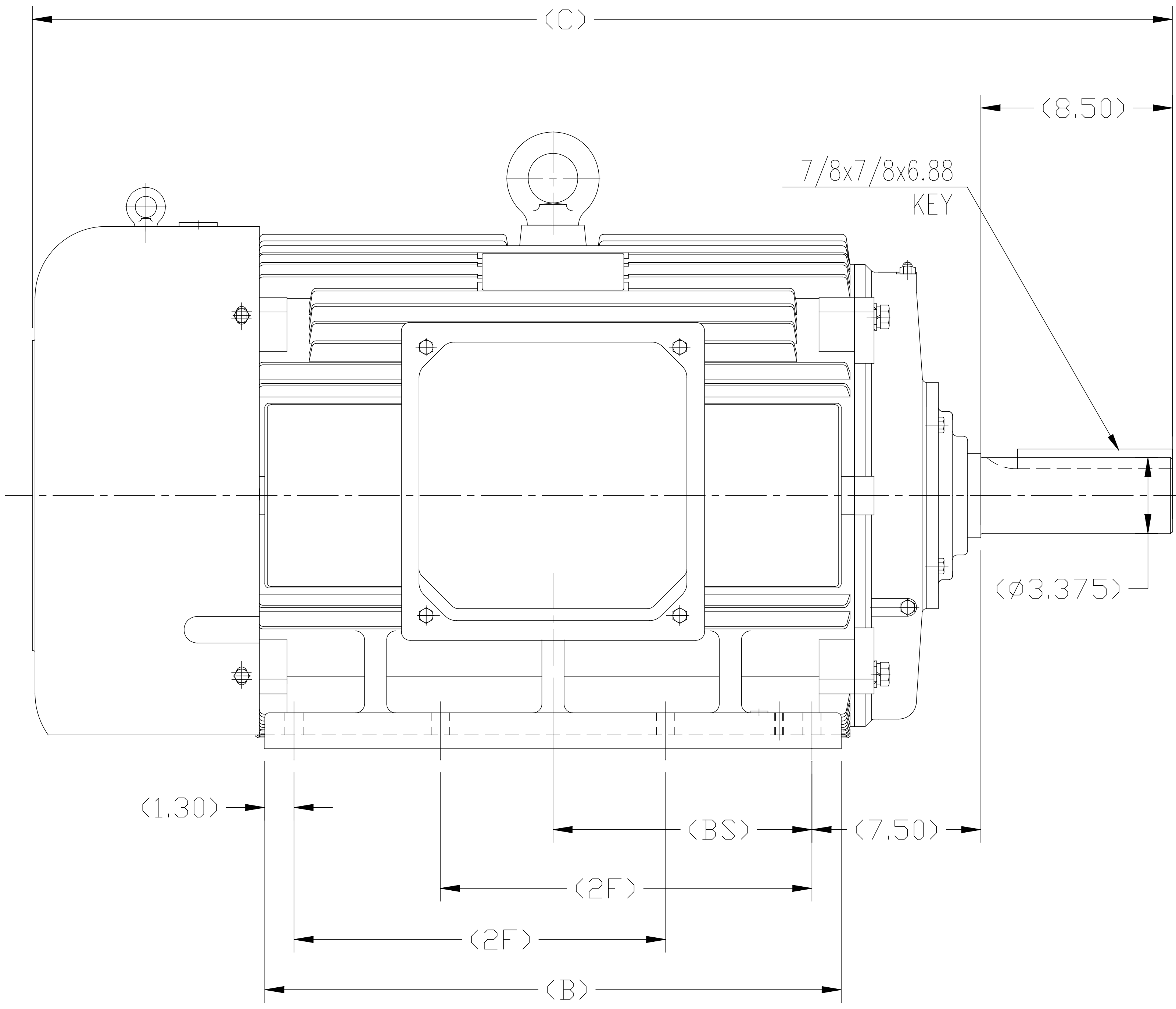
RegalRexnord

Nameplate Specifications

Phase	3	Output HP	125 & 100 Hp
Output KW	93.0 & 75.0 kW	Voltage	460 & 380 V
Speed	1786 & 1488 rpm	Service Factor	1.15 & 1.15
Frame	444T	Enclosure	Totally Enclosed Fan Cooled
Thermal Protection	No Protection	Efficiency	95.4 & 95 %
Ambient Temperature	40 °C	Frequency	60 & 50 Hz
Current	140 & 135 A	Power Factor	88
Duty	Continuous	Insulation Class	F
Design Code	B	KVA Code	F
Drive End Bearing Size	6319	Opp Drive End Bearing Size	6317
UL	Recognized	CSA	Y
CE	Y	IP Code	43
Number of Speeds	1		

Technical Specifications

Electrical Type	Squirrel Cage Inverter Rated	Starting Method	Part Wdg Start Or Inverter
Poles	4	Rotation	Reversible
Resistance Main	.038 Ohms	Mounting	Rigid Base
Motor Orientation	Horizontal	Drive End Bearing	Ball
Opp Drive End Bearing	Ball	Frame Material	Cast Iron
Shaft Type	T	Overall Length	50.79 in
Shaft Diameter	3.375 in	Shaft Extension	8.5 in
Assembly/Box Mounting	F1/F2 CAPABLE	Inverter Load	VARIABLE 10:1
Outline Drawing	SS620287-444T	Connection Drawing	A-EE7341C



- 1. THIS MOTOR IS NOT DUAL DRILLED FOR 444T/445T OR 447T/449T
- 2. THIS MOTOR IS DRILLED FOR F1/F2 CAPABILITY

444T	50.79	25.60	14.50	11.50
445T	50.79	25.60	16.50	11.50
447T	55.91	30.70	20.00	14.06
449T	55.91	30.70	25.00	---
Frame	C	B	2F	BS

				TOLERANCES UNLESS SPECIFIED		 REGAL - BELOIT CORPORATION		DRAWN ZYH 02-20-2010		
				DEC.	INCHES			CHK HZJ 02-20-2010		
				.X	±.1			APPD CL 02-20-2010		
F	UPDATED DRAWING PER MARK-UP	ECD-0108274	WGJ 7-10-16	EMH .XX	±.03	TITLE OUTLINE 444/445/447/449T FR-TEFC-CAST IRON		SCALE 1=6		
B	ADDED 'BS' DIM. UPDATED TITLE BLOCK	ECD-0048910	RFH 4-7-14	EH .XXX	±.005			REF		
A	2 leads hole change to 1		CL 2010-9-8		.XXXX ±.0005	MAT'L.		FMF HWADA		
NO.	REVISION		BY & DATE	CHK	ANG ±1/2°	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		CAD FILE SS620287		SIZE	DRAWING NO.	REV.
				DIST				B	SS620287	F

THREE PHASE – PART WINDING START DELTA – 6 LEADS

START

CONNECT T1 TO LINE 1
CONNECT T2 TO LINE 2
CONNECT T3 TO LINE 3
T7–T8–T9 OPEN

RUN

CONNECT T1&T7 TO LINE 1
CONNECT T2&T8 TO LINE 2
CONNECT T3&T9 TO LINE 3

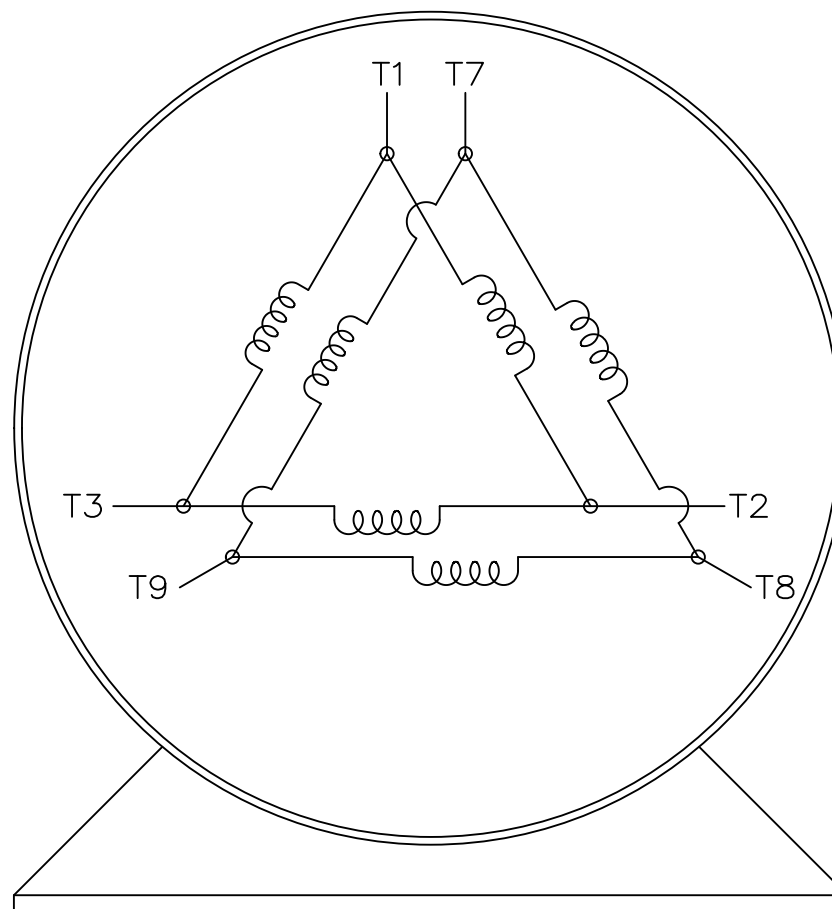
IF MOTOR HAS 2 T'S

START

CONNECT T1,T1 TO LINE 1
CONNECT T2,T2 TO LINE 2
CONNECT T3,T3 TO LINE 3
T7,T7–T8,T8–T9,T9 OPEN

RUN

CONNECT T1,T1&T7,T7 TO LINE 1
CONNECT T2,T2&T8,T8 TO LINE 2
CONNECT T3,T3&T9,T9 TO LINE 3



VIEW OF TERMINAL END

			TOLERANCES UNLESS SPECIFIED		 REGAL-BELOIT CORPORATION	DRAWN BLR 03-09-1998		
			DEC.	INCHES		CHK	ML	03-23-1998
			.X	±	–	APPD	GK	03-23-1998
			.XX	±	–	SCALE 1=1		
E	NOTE ADDED FOR 2 T'S	NAR 17-12-2020	RC	.XXX	±	TITLE CONNECTION DIAGRAM		
D	RE-DRAWN WITH REGAL LOGO ECO-0110493	WGJ 09-30-2016	EMH	.XXXX	±	3ø – 6 LEADS		
NO.	REVISION	BY & DATE	CHK	ANG	±	MAT'L.		
						FMP		
						PREV		
			RFP			SIZE	DRAWING NO.	PAGE OF
			DIST			A	EE7341C	REV. E

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CERTIFICATION DATA SHEET

Model#: 444TTFC6036 AB

WINDING#: CHT44440001 NONE 1

CONN. DIAGRAM: A-EE7341C

ASSEMBLY: F1/F2 CAPABLE

OUTLINE: B-SS620287

TYPICAL MOTOR PERFORMANCE DATA

HP	KW	SYNC. RPM	F.L. RPM	FRAME	ENCLOSURE	KVA CODE	DESIGN
125&100	93&75	1800	1786&1488	444T	TEFC	F	B

PH	Hz	VOLTS	FL AMPS	START TYPE	DUTY	INSL	S.F	AMB°C	ELEVATION
3	60/50	460#380	140&135	PWS OR INVERTER	CONTINUOUS	F7	1.15/1.15	40	3300

FULL LOAD EFF: 95.4&95	3/4 LOAD EFF: 95.4	1/2 LOAD EFF: 95	GTD. EFF	ELEC. TYPE	NO LOAD AMPS
FULL LOAD PF: 88&88	3/4 LOAD PF: 87	1/2 LOAD PF: 82	95	SQ CAGE INV RATED	36

F.L. TORQUE	LOCKED ROTOR AMPS	L.R. TORQUE	B.D. TORQUE	F.L. RISE°C
367 LB-FT	850	735 LB-FT 200	1050 LB-FT 285	55

SOUND PRESSURE @ 3 FT.	SOUND POWER	ROTOR WK^2	MAX. WK^2	SAFE STALL TIME	STARTS /HOUR	APPROX. MOTOR WGT
75 dBA	85 dBA	60 LB-FT^2	750 LB-FT^2	25 SEC.	2	2450 LBS.

*** SUPPLEMENTAL INFORMATION ***

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

BEARINGS		GREASE	SHAFT TYPE	SPECIAL DE	SPECIAL ODE	SHAFT MATERIAL	FRAME MATERIAL
DE	OPE						
BALL	BALL						
6319	6317	POLYREX EM	T	NONE	NONE	1045 HOT ROLLED (C-204)	CAST IRON

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

INVERTER TORQUE: VARIABLE 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	

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DATE: 06/21/2017 04:25:44 AM
FORM 3531 REV.3 02/07/99
** Subject to change without notice.

Data Sheet

Date: 6/20/2017

Customer: _____

Attention: _____

Submitted by: FAREEDA DUDEKULA



444TTC6036

Submittal

Data @ 460 V

Motor Load Data

Load	0%	25%	50%	75%	100%	115%	125%	LR	
Current (Amps)	36.0	49.0	76.0	106	140	160	175	850	
Torque (ft-lb)	0.00	91.5	183	275	367	423	460	735	
RPM	1800	1796	1794	1790	1786	1,784	1782	0	
Efficiency (%)		93.0	95.0	95.4	95.4	95.0	94.5		
P.F. (%)	6.0	65.0	82.0	87.0	88.0	88.0	88.0	35.0	

Motor Speed Data

	LR	Pull-Up	BD	Rated	Idle																													
Speed (RPM)	0	1000	1750	1786	1800	Information Block																												
Current (Amps)	850	775	500	140	36.0	HP	125.0																											
Torque (ft-lb)	735	650	1,050	367	0.00	Sync. RPM	1800																											
Efficiency (%) P.F. (%) Current (Amps) <table><caption>Graph Data Points (Estimated)</caption><thead><tr><th>Load (%)</th><th>Efficiency (%)</th><th>P.F. (%)</th><th>Current (Amps)</th></tr></thead><tbody><tr><td>25</td><td>93</td><td>65</td><td>43</td></tr><tr><td>50</td><td>94</td><td>82</td><td>65</td></tr><tr><td>75</td><td>95</td><td>86</td><td>95</td></tr><tr><td>100</td><td>95</td><td>87</td><td>125</td></tr><tr><td>125</td><td>94</td><td>88</td><td>175</td></tr></tbody></table>						Load (%)	Efficiency (%)	P.F. (%)	Current (Amps)	25	93	65	43	50	94	82	65	75	95	86	95	100	95	87	125	125	94	88	175	Frame	444			
						Load (%)	Efficiency (%)	P.F. (%)	Current (Amps)																									
						25	93	65	43																									
						50	94	82	65																									
						75	95	86	95																									
						100	95	87	125																									
						125	94	88	175																									
						Enclosure	TEFC																											
						Construction	TFC																											
						Voltage	460#380 V																											
						Frequency	60 Hz																											
						Design	B																											
						LR Code letter	F																											
						Service Factor	1.15																											
						Temp Rise @ FL	55 ° C																											
						Duty	CONT																											
						Ambient	40 ° C																											
Elevation	1,000 feet																																	
Rotor/Shaft wk²	60.0 Lb-Ft²																																	
Ref Wdg	CHT44440001 NONE																																	
Sound Pressure @ 1M	75 dBA																																	
VFD Rating	VARIABLE 10:1																																	
Outline Dwg	B-SS620287																																	
Conn. Diag	A-EE7341C																																	
Additional Specifications:																																		
0																																		
0																																		
EQUIV CKT (OHMS / PHASE)																																		
R1		R2		X1		X2		Xm																										
0.0260		0.0130		0.1580		0.2970		7.4000																										

Speed -Torque Curve

