

# PRODUCT INFORMATION PACKET

**marathon**<sup>®</sup>  
Motors

Model No: 444TTFS4036

Catalog No: E987

Other 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	<b>3</b>	Output HP	<b>125 &amp; 100 Hp</b>
Output KW	<b>93.0 &amp; 75.0 kW</b>	Voltage	<b>460 &amp; 380 V</b>
Speed	<b>1780 &amp; 1480 rpm</b>	Service Factor	<b>1.15 &amp; 1.15</b>
Frame	<b>444T</b>	Enclosure	<b>Totally Enclosed Fan Cooled</b>
Thermal Protection	<b>No Protection</b>	Efficiency	<b>94.5 &amp; 93.6 %</b>
Ambient Temperature	<b>40 °C</b>	Frequency	<b>60 &amp; 50 Hz</b>
Current	<b>142 &amp; 145 A</b>	Power Factor	<b>87</b>
Duty	<b>Continuous</b>	Insulation Class	<b>F</b>
Design Code	<b>B</b>	KVA Code	<b>G</b>
Drive End Bearing Size	<b>6318</b>	Opp Drive End Bearing Size	<b>6316</b>
UL	<b>Recognized</b>	CSA	<b>Y</b>
CE	<b>Y</b>	IP Code	<b>43</b>
Number of Speeds	<b>1</b>		

### Technical Specifications

Electrical Type	<b>Squirrel Cage Induction Run</b>	Starting Method	<b>Part Wdg Start</b>
Poles	<b>4</b>	Rotation	<b>Reversible</b>
Resistance Main	<b>.031 Ohms</b>	Mounting	<b>Rigid Base</b>
Motor Orientation	<b>Horizontal</b>	Drive End Bearing	<b>Ball</b>
Opp Drive End Bearing	<b>Ball</b>	Frame Material	<b>Cast Iron</b>
Shaft Type	<b>T</b>	Overall Length	<b>41.25 in</b>
Frame Length	<b>18.50 in</b>	Shaft Diameter	<b>3.375 in</b>
Shaft Extension	<b>8.75 in</b>	Assembly/Box Mounting	<b>F1/F2 CAPABLE</b>
Outline Drawing	<b>B-SS504645-1850</b>	Connection Drawing	<b>A-EE7341C</b>

EE7341C

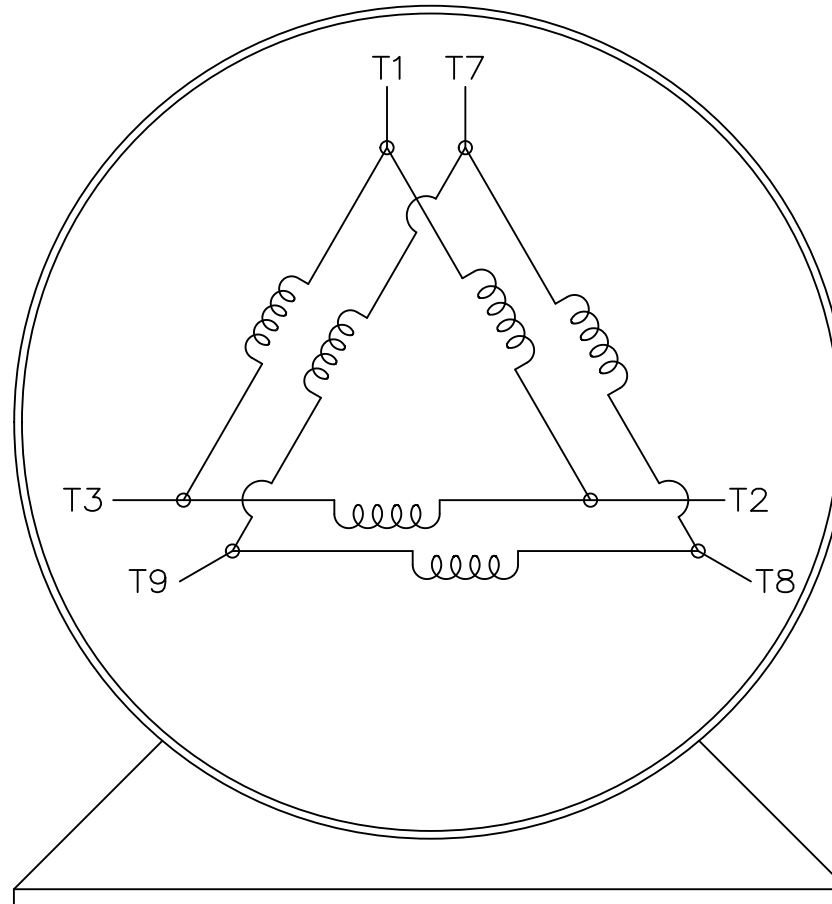
THREE PHASE – PART WINDING START  
DELTA – 6 LEADS

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



VIEW OF TERMINAL END

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

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

Date: 10/10/2022  
 Customer: \_\_\_\_\_  
 Attention: \_\_\_\_\_  
 Submitted by: \_\_\_\_\_



444TTFS4036

Submittal

Data @ 460 V

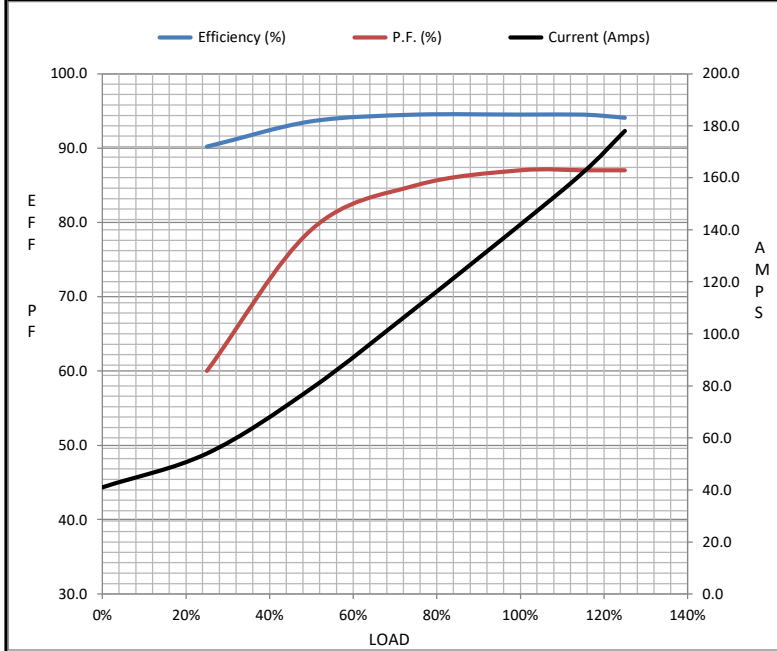
Motor Load Data

Load	0%	25%	50%	75%	100%	115%	125%	LR
Current (Amps)	41.0	54.0	79.0	110	142	162	178	900
Torque (ft-lb)	0.00	91.0	183	276	368	425	462	740
RPM	1800	1795	1790	1785	1780	1,778	1775	0
Efficiency (%)		90.2	93.6	94.5	94.5	94.5	94.1	
P.F. (%)	6.5	60.0	79.0	85.0	87.0	87.0	87.0	33.0

Motor Speed Data

	LR	Pull-Up	BD	Rated	Idle
Speed (RPM)	0	900	1725	1780	1800
Current (Amps)	900	810	525	142	41.0
Torque (ft-lb)	740	670	950	368	0.00

Information Block				
HP	125.0			
Sync. RPM	1800			
Frame	444			
Enclosure	TEFC			
Construction	TFS			
Voltage	460#380 V			
Frequency	60 Hz			
Design	BC			
LR Code letter	G			
Service Factor	1.15			
Temp Rise @ FL	80 ° C			
Duty	CONT			
Ambient	40 ° C			
Elevation	3,300 feet			
Rotor/Shaft wk <sup>2</sup>	41.0 Lb-Ft <sup>2</sup>			
Ref Wdg	T444469 NONE			
Sound Pressure @ 1M	75 dBA			
VFD Rating	NONE			
Outline Dwg				
Conn. Diag	A-EE7341C			
Additional Specifications:				
0				
0				
EQUIV CKT (OHMS / PHASE)				
R1	R2	X1	X2	Xm
0.0250	0.0190	0.1920	0.2470	5.8790



Speed - Torque Curve

