

PRODUCT INFORMATION PACKET

marathon®
Motors

Model No: 445TTFN6086

Catalog No: E246

XRI® General Purpose General Purpose Motor, 125 HP, 3 Ph, 60 Hz, 460 V, 1200 RPM, 445T Frame, TEFC



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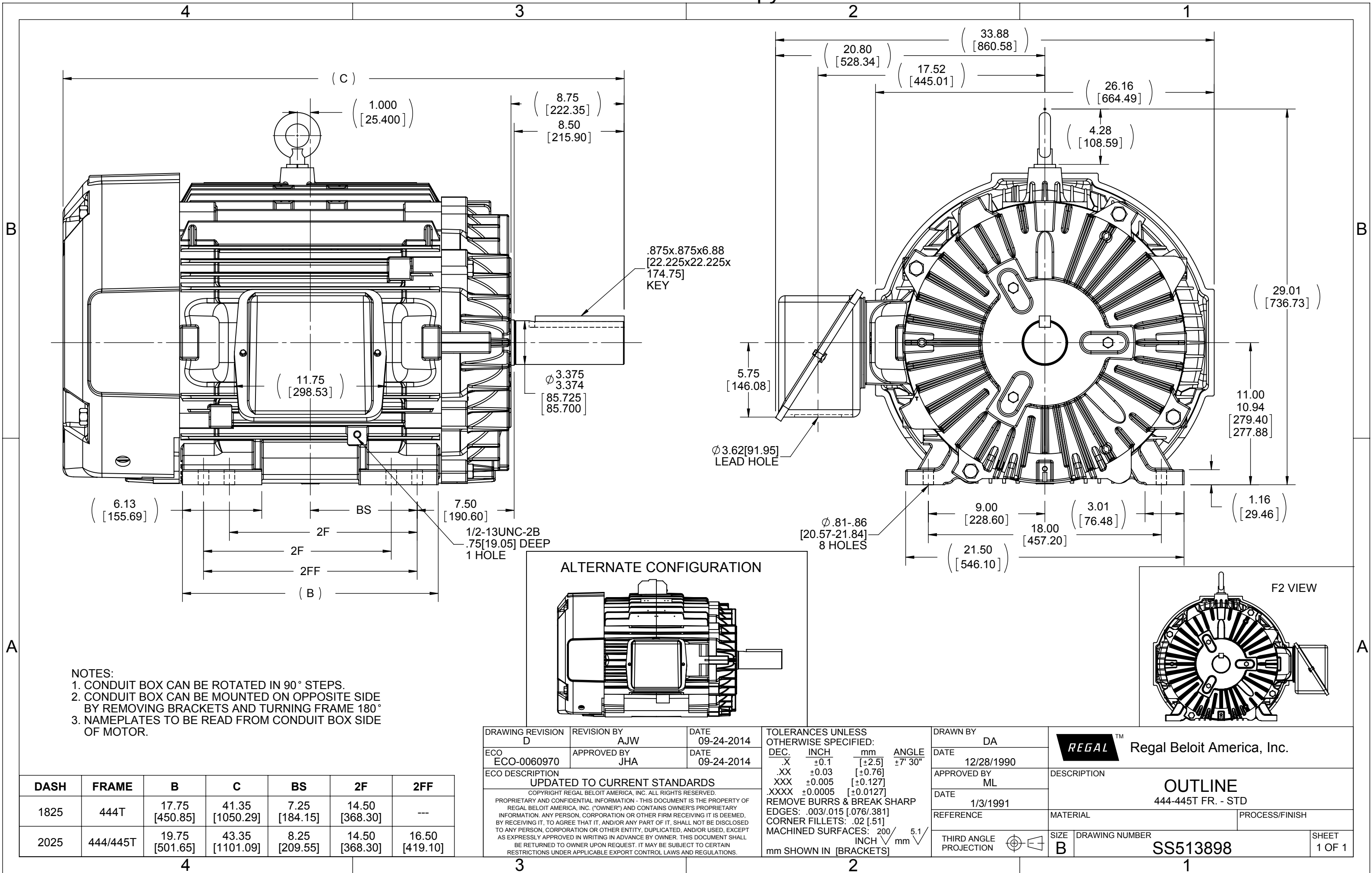
RegalRexnord

Nameplate Specifications

Phase	3	Output HP	125 Hp
Output KW	93.0 kW	Voltage	460 V
Speed	1185 rpm	Service Factor	1.15
Frame	445T	Enclosure	Totally Enclosed Fan Cooled
Thermal Protection	No Protection	Efficiency	95 %
Ambient Temperature	40 °C	Frequency	60 Hz
Current	155.0 A	Power Factor	82
Duty	Continuous	Insulation Class	F
Design Code	B	KVA Code	G
Drive End Bearing Size	6318	Opp Drive End Bearing Size	6316
UL	Recognized	CSA	Y
CE	Y	IP Code	43
Number of Speeds	1		

Technical Specifications

Electrical Type	Squirrel Cage Induction Run	Starting Method	Across The Line
Poles	6	Rotation	Reversible
Resistance Main	.042 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	43.35 in
Frame Length	20.25 in	Shaft Diameter	3.375 in
Shaft Extension	8.75 in	Assembly/Box Mounting	F1/F2 CAPABLE
Outline Drawing	B-SS513898-2025	Connection Drawing	A-EE7300U



IF MOTOR HAS 9 LEADS



IF MOTOR HAS 6 LEADS



A-9806 DECAL IF CALLED FOR

IF MOTOR HAS 12 LEADS



VIEW OF TERMINAL END

DRAWING REVISION L	REVISION BY AJW	DATE 05-04-2015	TOLERANCES UNLESS OTHERWISE SPECIFIED: DEC. INCH. mm ANGLE .X ±0.1 [±2.5] ±7' 30" .XX ±0.02 [±0.51] 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 INCH 5.1 mm mm SHOWN IN [BRACKETS]		DRAWN BY DRS	REGAL™ Regal Beloit America, Inc.	
ECO ECO-0077067	APPROVED BY EWH	DATE 05-05-2015			DATE 09-27-1996	DESCRIPTION	
ECO DESCRIPTION UPDATED TO SOLIDWORKS			APPROVED BY GK		CONN DIAGRAM-EXTERNAL 3Ø SINDLE VOLTAGE		
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			REFERENCE				
			THIRD ANGLE PROJECTION		SIZE A	DRAWING NUMBER EE7300U	SHEET 1 OF 1

CERTIFICATION DATA SHEET

Model#: 445TTFN6086 BE
 CONN. DIAGRAM: A-EE7300U
 OUTLINE: B-SS513898-2025

WINDING#: T445693 NONE 1
 ASSEMBLY: F1/F2 CAPABLE

TYPICAL MOTOR PERFORMANCE DATA

HP	KW	SYNC. RPM	F.L. RPM	FRAME	ENCLOSURE	KVA CODE	DESIGN
125	93	1200	1185	445T	TEFC	G	B

PH	Hz	VOLTS	FL AMPS	START TYPE	DUTY	INSL	S.F	AMB°C	ELEVATION
3	60	460	155	ACROSS THE LINE	CONTINUOUS	F1	1.15	40	3300

FULL LOAD EFF: 95	3/4 LOAD EFF: 95	1/2 LOAD EFF: 94.5	GTD. EFF	ELEC. TYPE	NO LOAD AMPS
FULL LOAD PF: 82	3/4 LOAD PF: 79	1/2 LOAD PF: 71	94.5	SQ CAGE IND RUN	55

F.L. TORQUE	LOCKED ROTOR AMPS	L.R. TORQUE	B.D. TORQUE	F.L. RISE°C
553 LB-FT	825	775 LB-FT 140	1250 LB-FT 226	78

SOUND PRESSURE @ 3 FT.	SOUND POWER	ROTOR WK^2	MAX. WK^2	SAFE STALL TIME	STARTS /HOUR	APPROX. MOTOR WGT
72 dBA	82 dBA	61 LB-FT^2	2250 LB-FT^2	25 SEC.	2	2050 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						
6318	6316	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

* N O T E S *	INVERTER TORQUE: NONE			
	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 05:58:38 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



445TTFN6086

Submittal

Data @ 460 V

Motor Load Data

Load	0%	25%	50%	75%	100%	115%	125%	LR	
Current (Amps)	55.0	65.0	87.0	117	155	175	188	825	
Torque (ft-lb)	0.00	137	275	414	553	637	693	775	
RPM	1200	1196	1194	1190	1185	1,182	1180	0	
Efficiency (%)		91.7	94.5	95.0	95.0	94.5	94.1		
P.F. (%)	4.0	49.0	71.0	79.0	82.0	82.5	83.0	30.0	

Motor Speed Data

	LR	Pull-Up	BD	Rated	Idle																													
Speed (RPM)	0	600	1150	1185	1200																													
Current (Amps)	825	750	500	155	55.0																													
Torque (ft-lb)	775	725	1,250	553	0.00																													
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>92</td><td>48</td><td>48</td></tr><tr><td>50</td><td>94</td><td>75</td><td>65</td></tr><tr><td>75</td><td>95</td><td>80</td><td>95</td></tr><tr><td>100</td><td>95</td><td>82</td><td>130</td></tr><tr><td>125</td><td>94</td><td>83</td><td>190</td></tr></tbody></table>						Load (%)	Efficiency (%)	P.F. (%)	Current (Amps)	25	92	48	48	50	94	75	65	75	95	80	95	100	95	82	130	125	94	83	190					
						Load (%)	Efficiency (%)	P.F. (%)	Current (Amps)																									
						25	92	48	48																									
						50	94	75	65																									
						75	95	80	95																									
						100	95	82	130																									
						125	94	83	190																									
						Information Block																												
						HP	125.0																											
						Sync. RPM	1200																											
						Frame	445																											
						Enclosure	TEFC																											
						Construction	TFN																											
						Voltage	460	V																										
						Frequency	60	Hz																										
						Design	B																											
						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 ²	61.0 Lb-Ft ²																																	
Ref Wdg	T445693 NONE																																	
Sound Pressure @ 1M	72	dBA																																
VFD Rating	NONE																																	
Outline Dwg	B-SS513898-2025																																	
Conn. Diag	A-EE7300U																																	
Additional Specifications:																																		
0																																		
0																																		
EQUIV CKT (OHMS / PHASE)																																		
R1	R2	X1	X2	Xm																														
0.0250	0.0180	0.2040	0.2410	3.8590																														

Speed -Torque Curve

