

# PRODUCT INFORMATION PACKET

**marathon®**  
Motors

Model No: 447TTDN16041

Catalog No: U789

XRI® General Purpose General Purpose Motor, 300 & 250 HP, 3 Ph, 60 & 50 Hz, 460 & 380 V,  
1800 & 1500 RPM, 447T Frame, DP



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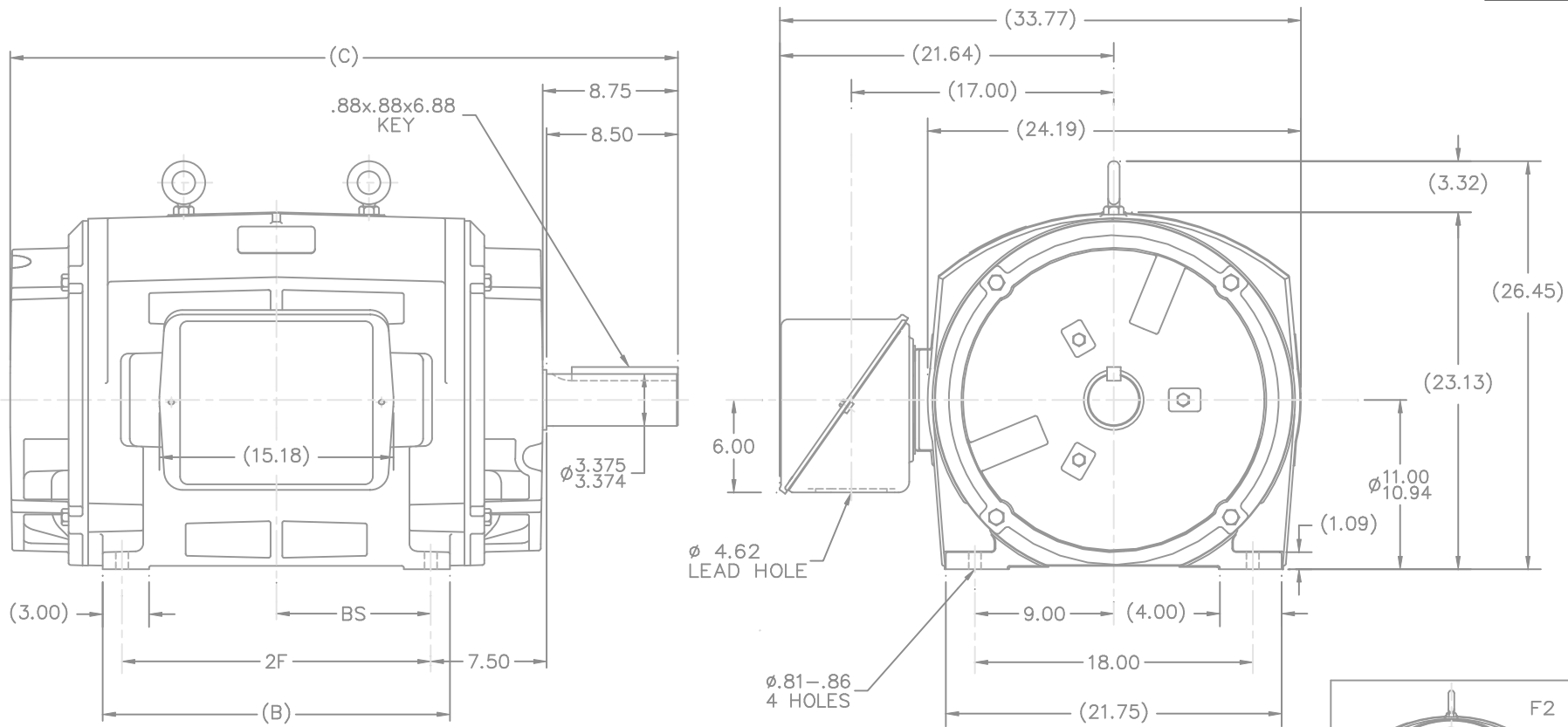
**RegalRexnord**

### Nameplate Specifications

Phase	<b>3</b>	Output HP	<b>300 &amp; 250 Hp</b>
Output KW	<b>224.0 &amp; 187.0 kW</b>	Voltage	<b>460 &amp; 380 V</b>
Speed	<b>1785 &amp; 1485 rpm</b>	Service Factor	<b>1.15 &amp; 1.15</b>
Frame	<b>447T</b>	Enclosure	<b>Drip Proof</b>
Thermal Protection	<b>No Protection</b>	Efficiency	<b>96.2 &amp; 95.8 %</b>
Ambient Temperature	<b>40 °C</b>	Frequency	<b>60 &amp; 50 Hz</b>
Current	<b>340 &amp; 345 A</b>	Power Factor	<b>86</b>
Duty	<b>Continuous</b>	Insulation Class	<b>F</b>
Design Code	<b>B</b>	KVA Code	<b>F</b>
Drive End Bearing Size	<b>6318</b>	Opp Drive End Bearing Size	<b>6314</b>
UL	<b>Recognized</b>	CSA	<b>Y</b>
CE	<b>Y</b>	IP Code	<b>12</b>
Number of Speeds	<b>1</b>		

### Technical Specifications

Electrical Type	<b>Squirrel Cage Induction Run</b>	Starting Method	<b>Part Wdg Start &amp; Wye Start Delta Run</b>
Poles	<b>4</b>	Rotation	<b>Reversible</b>
Resistance Main	<b>.014 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>43.25 in</b>
Frame Length	<b>24.38 in</b>	Shaft Diameter	<b>3.375 in</b>
Shaft Extension	<b>8.75 in</b>	Assembly/Box Mounting	<b>F1/F2 CAPABLE</b>
Connection Drawing	<b>A-EE7300BH</b>	Outline Drawing	<b>B-SS514252-2438</b>



- NOTES:
1. C.BOX CAN BE ROTATED IN 90° STEPS.
  2. C.BOX CAN BE MOUNTED ON OPPOSITE SIDE BY REMOVING BRACKETS & TURNING FRAME 180°.
  3. NAMEPLATES TO BE READ FROM CONDUIT BOX SIDE OF MOTOR.

2438	447T	43.25	---	22.50	20.00	---	---	10.00
2938	449T	48.25	---	27.50	25.00	---	---	12.50
DASH	FRAME	C	AG	B	2F	2FF	2FFF	BS

7	UPDATED DE BRACKET GEOMETRY	CN 35521	DRS		TO TOLERANCES UNLESS SPECIFIED						
6	ADDED F2 MOUNTING VIEW	CN 29200-263	DRS	03-24-2000	DEC.	INCHES					
5	ADDED OVERALL DIMENSIONS	CN 27400-627	BJW	01-17-2000	.X	±.1					
4	REVISED TO NEC CONDUIT BOX	CN 28405	BJW		.XX	±.03					
3	REMOVED 700 CU.IN. C'BOX NOTE	CN 16342	KL	10-07-1993	.XXX	±.005					
2	'C' DIM. WAS 43.19 & 48.19	CN 15854	JL	06-09-1993	.XXXX	±.0005					
NO.	REVISION		BY & DATE	CHK	ANG	±7'30"					
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 SS514252	SIZE	DRAWING NO.	PAGE OF	REV.
						DIST	WA-SB	B	SS514252	7	7



TITLE OUTLINE - DR.PR.  
447-449T FR.  
MAT'LFINISH

DRAWN	JL	06-23-1992
CHK	TB	06-23-1992
APPD	JPN	07-10-1992
SCALE		1=7
REF		
FMF		
PREV		



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			
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				DIST	LB		A	EE7300BH		C



Data Sheet

Date: 16-06-2017  
 Customer: \_\_\_\_\_  
 Attention: \_\_\_\_\_  
 Submitted by: FAREEDA DUDEKULA



4477TDN16041

Submittal

Data @ 460 V

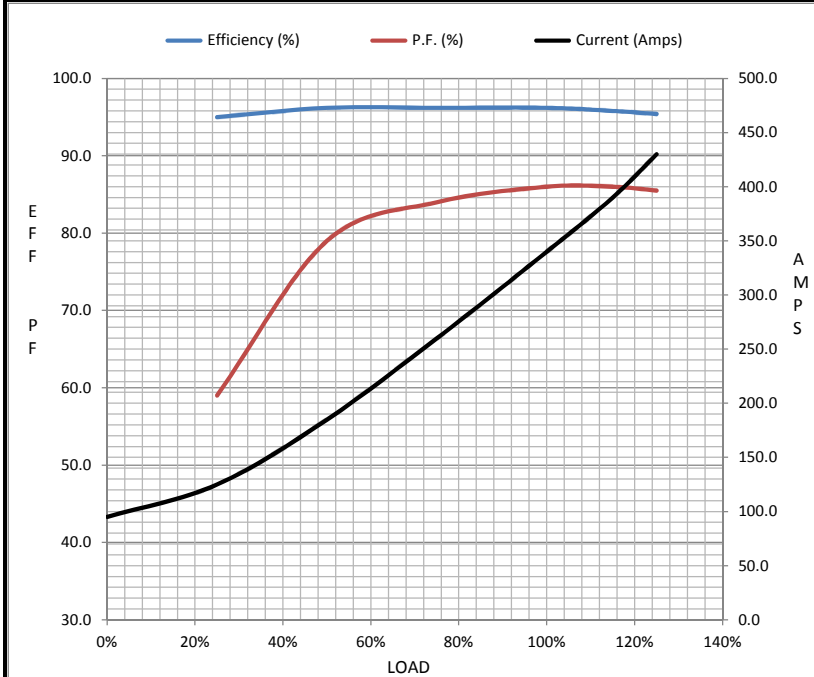
Motor Load Data

Load	0%	25%	50%	75%	100%	115%	125%	LR
Current (Amps)	95.0	125	185	260	340	390	430	1,900
Torque (ft-lb)	0.00	220	440	660	882	1,015	1,105	1,375
RPM	1800	1796	1792	1788	1785	1,782	1780	0
Efficiency (%)		95.0	96.2	96.2	96.2	95.8	95.4	
P.F. (%)	3.0	59.0	79.0	84.0	86.0	86.0	85.5	30.0

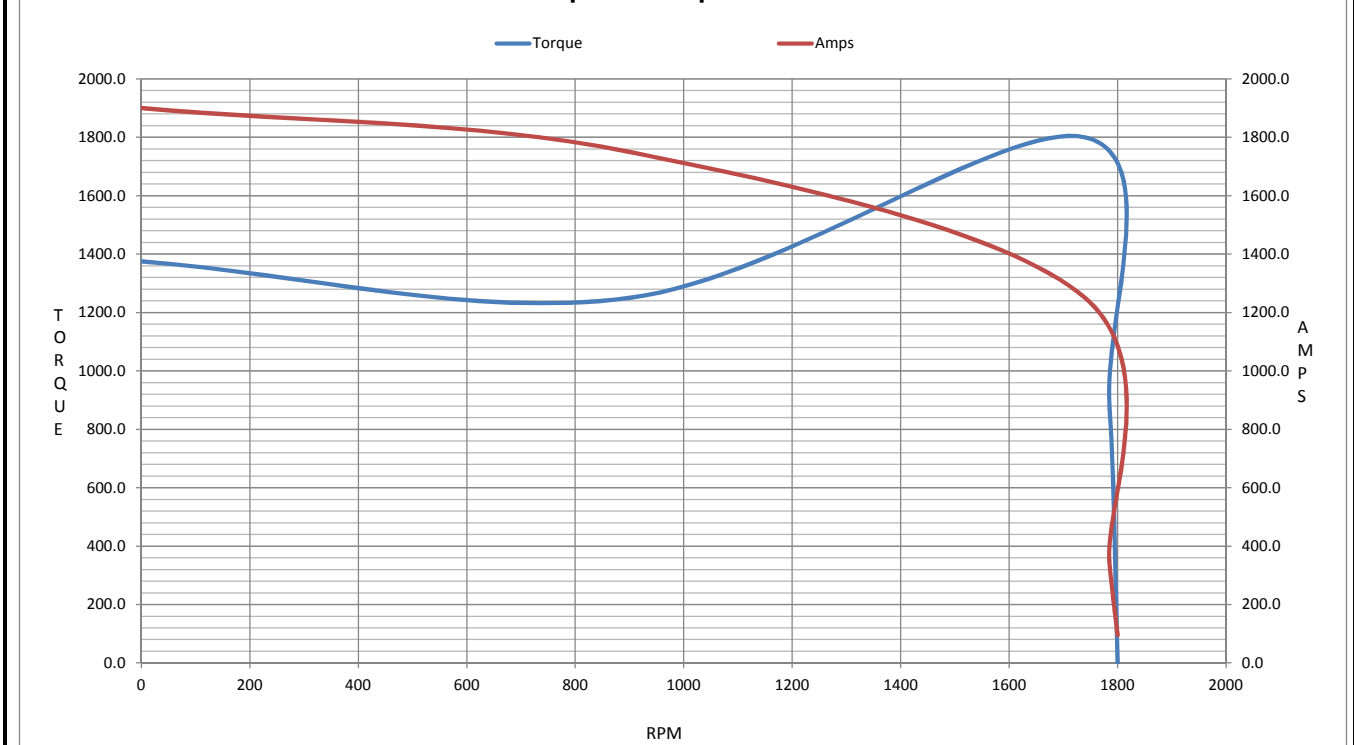
Motor Speed Data

	LR	Pull-Up	BD	Rated	Idle
Speed (RPM)	0	900	1740	1785	1800
Current (Amps)	1,900	1,750	1,250	340	95.0
Torque (ft-lb)	1,375	1,250	1,800	882	0.00

Information Block				
HP	300.0			
Sync. RPM	1800			
Frame	447			
Enclosure	DP			
Construction	TDN			
Voltage	460#380 V			
Frequency	60 Hz			
Design	B			
LR Code letter	F			
Service Factor	1.15			
Temp Rise @ FL	50 ° C			
Duty	CONT			
Ambient	40 ° C			
Elevation	1,000 feet			
Rotor/Shaft wk <sup>2</sup>	70.0 Lb-Ft <sup>2</sup>			
Ref Wdg	T447429 NONE			
Sound Pressure @ 1M	82 dBA			
VFD Rating	NONE			
Outline Dwg	B-SS514252-2438			
Conn. Diag	A-EE7300BH			
Additional Specifications:				
0				
365THFS8036				
EQUIV CKT (OHMS / PHASE)				
R1	R2	X1	X2	Xm
0.0110	0.0070	0.0960	0.1180	2.8380



Speed - Torque Curve



## EC Declaration of Conformity

The undersigned representing  
the manufacturer:

Regal Beloit America  
100 East Randolph St.  
Wausau, WI 54401

and the authorized representative  
established within the Community:

Marathon Electric UK  
6F Thistleton Road Ind. Estate  
Market Overton  
Oakham, Rutland LE15 7PP UK

are committed to providing customers with products that comply with applicable regulations and international protocols to which they are subject, including the requirements of the European Parliament Directive on the Harmonization of the laws relating to electrical equipment designed for use within certain voltage limits (2014/35/EU).

Regal Beloit America declares that the following product(s), to which this declaration relates, are in conformity with the relevant sections of the EC standards listed below.

This statement supersedes any statements previously issued pertaining to the product(s) listed below and is subject to change without notice.

Model No : 447TTDN16041

(Model No. may contain prefix and/or suffix characters)

Catalog No : U789

Rework No : N/A

Directives :

Low Voltage Directive 2014/35/EU

Harmonized Standards Used :

EN 60034-1: 2010 (IEC 60034-1: 2010)

EN 60034-5: 2001/A1:2007 (IEC 60034-5: 2000/A1:2006)

Authorized Representative:



Michael A. Logsdon  
Vice President, Technology

Authorized Representative in the Community:



Julian Clark  
Marketing Engineer

Created on 09/01/2022

**CE 22**