

PRODUCT INFORMATION PACKET

marathon®
Motors

Model No: 447TTDN16085

Catalog No: E797A

XRI® General Purpose General Purpose Motor, 200 HP, 3 Ph, 60 Hz, 460 V, 1200 RPM, 447T Frame, DP



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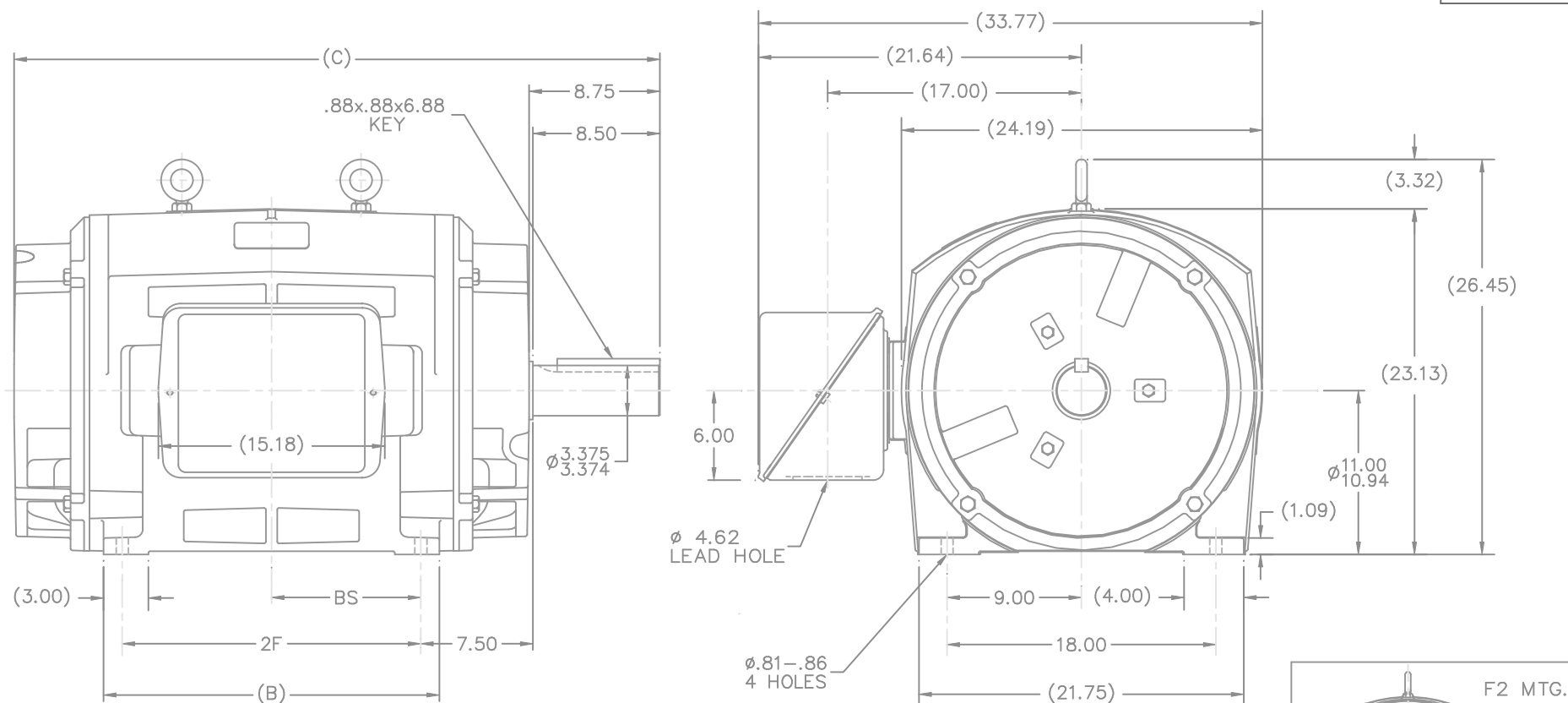
RegalRexnord

Nameplate Specifications

Phase	3	Output HP	200 Hp
Output KW	149.0 kW	Voltage	460 V
Speed	1188 rpm	Service Factor	1.15
Frame	447T	Enclosure	Drip Proof
Thermal Protection	No Protection	Efficiency	95.4 %
Ambient Temperature	40 °C	Frequency	60 Hz
Current	245.0 A	Power Factor	80
Duty	Continuous	Insulation Class	F
Design Code	B	KVA Code	G
Drive End Bearing Size	NU318	Opp Drive End Bearing Size	6314
UL	Recognized	CSA	Y
CE	Y	IP Code	12
Number of Speeds	1		

Technical Specifications

Electrical Type	Squirrel Cage Induction Run	Starting Method	Across The Line
Poles	6	Rotation	Reversible
Resistance Main	.022 Ohms	Mounting	Rigid Base
Motor Orientation	Horizontal	Drive End Bearing	Roller
Opp Drive End Bearing	Ball	Frame Material	Cast Iron
Shaft Type	T	Overall Length	43.25 in
Frame Length	24.39 in	Shaft Diameter	3.375 in
Shaft Extension	8.75 in	Assembly/Box Mounting	F1/F2 CAPABLE
Outline Drawing	B-SS514252-2438	Connection Drawing	A-EE7300U



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.

									7	UPDATED DE BRACKET GEOMETRY	CN 35521	DRS		TOLERANCES UNLESS SPECIFIED		DRAWN	JL 06-23-1992					
									6	ADDED F2 MOUNTING VIEW	CN 29200-263	DRS	03-24-2000	DEC.		INCHES	CHK	TB 06-23-1992				
									5	ADDED OVERALL DIMENSIONS	CN 27400-627	BJW	01-17-2000	.X		±.1	APPD	JPN 07-10-1992				
									4	REVISED TO NEC CONDUIT BOX	CN 28405	BJW		.XX		±.03	SCALE	1=7				
									3	REMOVED 700 CU.IN. C'BOX NOTE	CN 16342	KL	10-07-1993	.XXX	±.005	TITLE OUTLINE -- DR.PR. 447-449T FR.		REF				
									2	C' DIM. WAS 43.19 & 48.19	CN 15854	JL	06-09-1993	.XXXX	±.0005	MAT'L	FMF					
									NO.	REVISION		BY & DATE	CHK	ANG	±7"30"	FINISH	PREV					
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DASH	FRAME	C	AG	B	2F	2FF	2FFF	BS							RFP	CAD FILE SS514252	SIZE	DRAWING NO.	PAGE	OF	REV.	
2438	447T	43.25	----	22.50	20.00	----	----	10.00							DIST	WA-SB	B	SS514252				7
2938	449T	48.25	----	27.50	25.00	----	----	12.50														

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 [0.076/.381] X 45° CORNER FILLETS: R.02 [0.51] 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		
ECO DESCRIPTION UPDATED TO SOLIDWORKS				APPROVED BY GK		
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				REFERENCE	DESCRIPTION CONN DIAGRAM-EXTERNAL 3Ø SINDLE VOLTAGE	
					MATERIAL	PROCESS/FINISH
				THIRD ANGLE PROJECTION	SIZE A	DRAWING NUMBER EE7300U
						SHEET 1 OF 1



P.O. BOX 8003
WAUSAU, WI 54401-8003
PH. 715-675-3311

DATA VOLTS: 460

CERTIFICATION DATA SHEET

CUSTOMER: _____ CUSTOMER P.O. #: _____
ORDER #: _____ REFERENCE MODEL #: 447TTDN16085
CONN. DIAGRAM: A-EE7300U CAT #: E797A
OUTLINE: B-SS514252-2438 CUSTOMER PART #: _____
WINDING: T447617 NONE 2 MOUNTING: F1/F2 CAPABLE
SPEED: _____

TYPICAL MOTOR PERFORMANCE DATA

HP	KW	SYNC RPM	FL RPM	FRAME	ENCLOSURE	TYPE	KVA CODE	DESIGN
200	149	1200	1188	447T	DP	TDN	G	B

PH	HZ	VOLTS	AMPS	START TYPE	DUTY	INSL	S.F.	AMB	ELEV.
3	60	460	245	ACROSS THE LINE	CONT	F	1.15	40	3300

F.L. EFF	95.4	3/4 LD EFF	95.4	1/2 LD EFF	95.0	GTD EFF	94.5	ELECT. TYPE	SQ CAGE IND RUN
F.L. PF	80.0	3/4 LD PF	76.0	1/2 LD PF	67.0				

F.L. TORQUE	LR AMPS @ 460 V	L.R. TORQUE	B.D. TORQUE	F.L. RISE (°C)
885 LB-FT	1,400	1,475 LB-FT 167%	2,000 LB-FT 226%	60

@ 3 FT.	POWER	ROTOR WK²	MAX. LOAD WK²	SAFE STALL TIME	STARTS/HOUR	MOTOR WGT
76 dBA	85 dBA	84.0 LB-FT²	2600 LB-FT²	20 SEC.	2	2150 LB.

*** SUPPLEMENTAL INFORMATION ***

DE BRACKET TYPE	ODE BRACKET TYPE	MOUNT TYPE	MOTOR ORIENTATION	SEVERE DUTY	HAZARDOUS LOCATION	DRIP COVER	SCREENS	PAINT
STANDARD	STANDARD	RIGID	HORIZONTAL	NO	NONE	NO	NONE	BLUE (ENAMEL)

BEARINGS	GREASE	SHAFT TYPE	SPECIAL DE	SPECIAL ODE	SHAFT MATERIAL	FRAME MATERIAL
DE ODE						
ROLLER BALL	POLYREX EM	T	NONE	NONE	1045 HOT ROLLED (C-204)	CAST IRON
6318 6314						

THERMOSTATS	PROTECTORS	WDG RTD's	BRG RTD's	THERMISTORS	CONTROL	SPACE HEATERS
NONE	NOT	NONE	NONE	NONE	FALSE	NA

R1 (ohms/ph)	R2 (ohms/ph)	X1 (ohms/ph)	X2 (ohms/ph)	Xm (ohms/ph)	VIBRATION (in/sec)	FLOAT
0.016	0.012	0.121	0.187	2.707	0.150	NONE

* N O T E S *		INVERTER TORQUE: NONE INV. HP SPEED RANGE: NONE
	ENCODER: NONE NONE NONE	NONE PPR

PREPARED BY: FAREEDA DUDEKULA DATE: 9/10/2018	BRAKE: NONE NONE NONE	NONE
	FT-LB: NA	
	VOLTAGE: NONE	HZ:
FORM: 3531 REV_4 2/27/06	UL: V-INS, CONST UL REC	

Data Sheet

Date: 11/29/2018

Customer: _____

Attention: _____

Submitted by: FAREEDA DUDEKULA



447TTDN16085

Submittal

Data @ 460 V

Motor Load Data

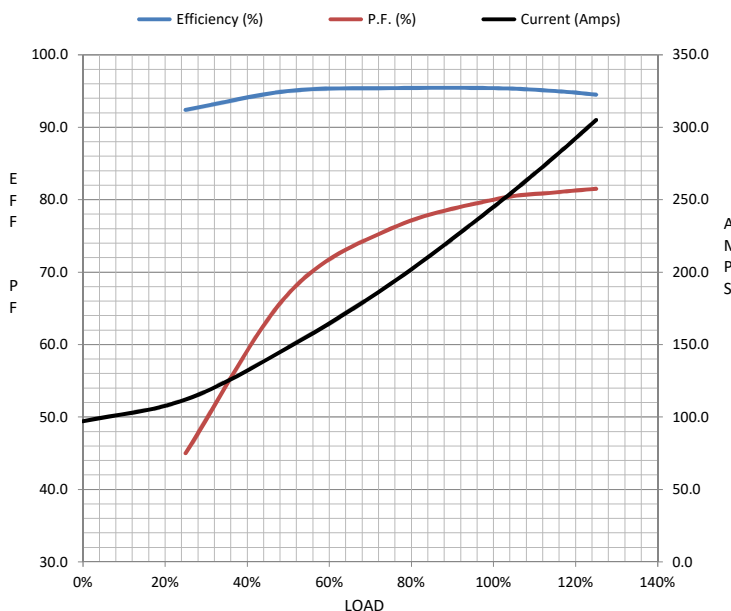
Load	0%	25%	50%	75%	100%	115%	125%	LR	
Current (Amps)	97.0	112	148	192	245	280	305	1,400	
Torque (ft-lb)	0.00	220	440	662	885	1,020	1,110	1,475	
RPM	1200	1196	1194	1190	1188	1,185	1182	0	
Efficiency (%)		92.4	95.0	95.4	95.4	95.0	94.5		
P.F. (%)	3.0	45.0	67.0	76.0	80.0	81.0	81.5	30.0	

Motor Speed Data

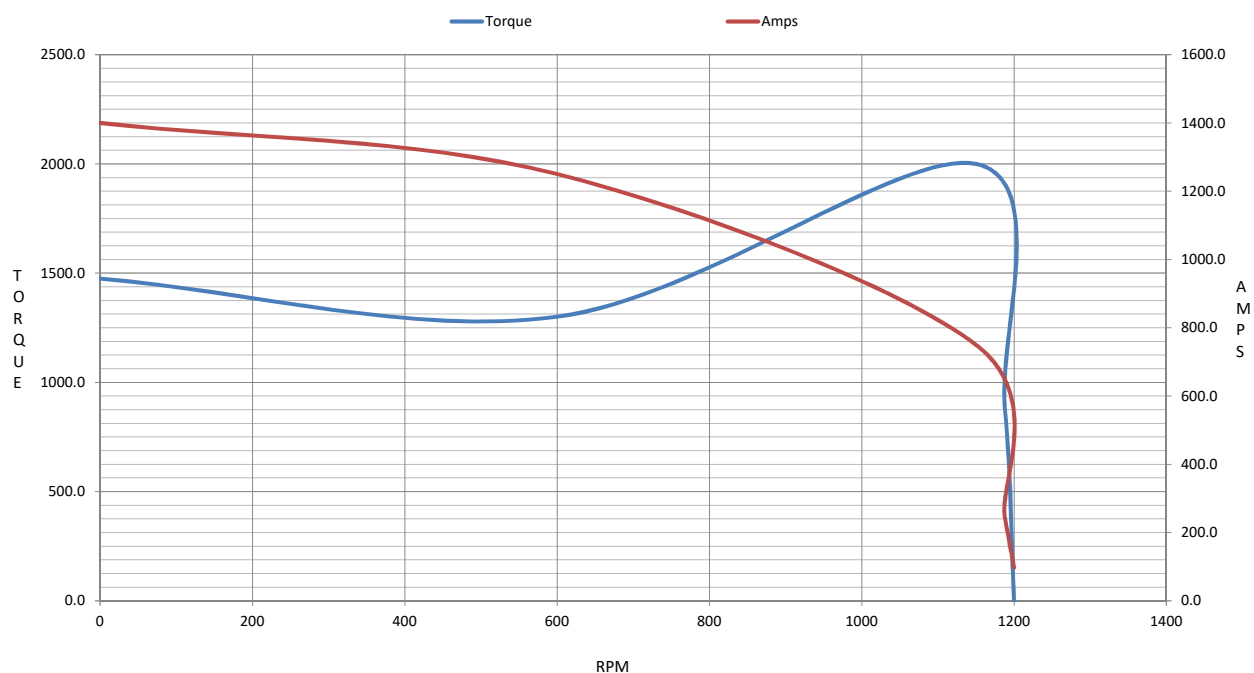
	LR	Pull-Up	BD	Rated	Idle
Speed (RPM)	0	600	1150	1188	1200
Current (Amps)	1,400	1,250	750	245	97.0
Torque (ft-lb)	1,475	1,300	2,000	885	0.00

Information Block

HP	200.0			
Sync. RPM	1200			
Frame	447			
Enclosure	DP			
Construction	TDS			
Voltage	460 V			
Frequency	60 Hz			
Design	B			
LR Code letter	G			
Service Factor	1.15			
Temp Rise @ FL	60 ° C			
Duty	CONT			
Ambient	40 ° C			
Elevation	1,000 feet			
Rotor/Shaft wk ²	84.0 Lb-Ft ²			
Ref Wdg	T447617 NONE			
Sound Pressure @ 1M	76 dBA			
VFD Rating	NONE			
Outline Dwg	B-SS514252-2438			
Conn. Diag	A-EE7300U			
Additional Specifications:				
0				
0				
EQUIV CKT (OHMS / PHASE)				
R1	R2	X1	X2	Xm
0.0160	0.0120	0.1210	0.1870	2.7070



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 : 447TTDN16085

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

Catalog No : E797A

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