

PRODUCT INFORMATION PACKET

Model No: 445THFN9102

Catalog No: W609

XRI®-841 Severe Duty Motor, 125 HP, 3 Ph, 60 Hz, 460 V, 900 RPM, 445T Frame, TEFC



Regal and Marathon are trademarks of Regal Rexnord Corporation or one of its affiliated companies.

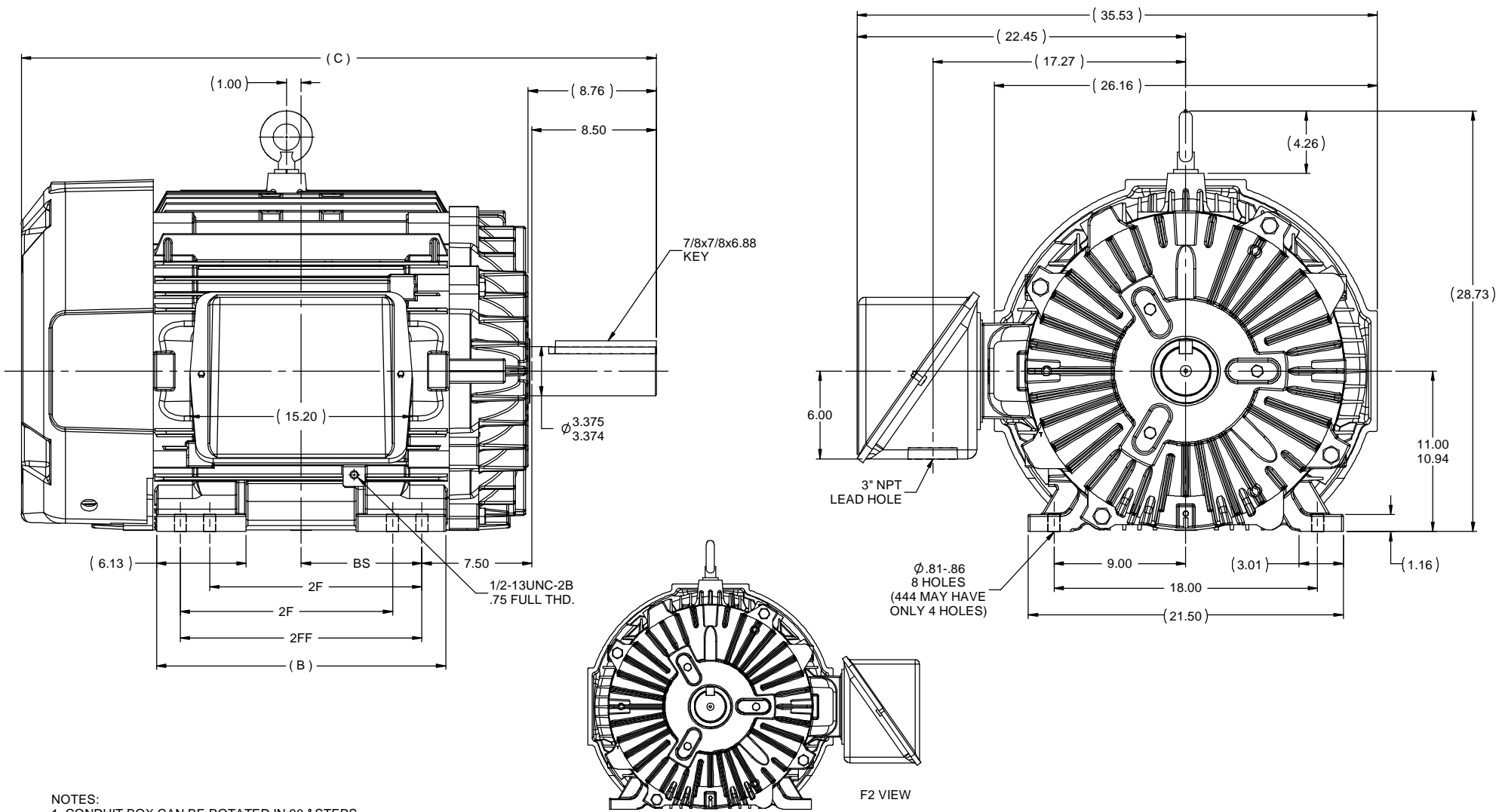
©2023 Regal Rexnord Corporation, All Rights Reserved. MC017097E

Nameplate Specifications

Phase	3	Output HP	125 Hp
Output KW	93.0 kW	Voltage	460 V
Speed	890 rpm	Service Factor	1.15
Frame	445T	Enclosure	Totally Enclosed Fan Cooled
Thermal Protection	No Protection	Efficiency	94.5 %
Ambient Temperature	40 °C	Frequency	60 Hz
Current	172.0 A	Power Factor	72
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	56
Number of Speeds	1	Hazardous Location	DIVISION 2 T2B

Technical Specifications

Electrical Type	Squirrel Cage Inverter Rated	Starting Method	Line Or Inverter
Poles	8	Rotation	Reversible
Resistance Main	.03 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	8.76 in	Assembly/Box Mounting	F1/F2 CAPABLE
Inverter Load	CONSTANT 2:1		
Connection Drawing	A-EE7300	Outline Drawing	B-SS517026-2025



NOTES:

1. CONDUIT BOX CAN BE ROTATED IN 90 ° STEPS.
2. CONDUIT BOX CAN BE MOUNTED ON OPPOSITE SIDE BY REMOVING BRACKETS AND TURNING FRAME 180 °
3. NAMPLATES TO BE READ FROM CONDUIT BOX SIDE OF MOTOR.

8	UPDATED MOUNTING HOLE NOTE	HV 08-07-2012	EH	TOLERANCES UNLESS SPECIFIED		DRAWN DRS 2/24/1999
8	UPDATED FRAME TO CURRENT STD'S. ISAAC 09-5049	JJB 01-17-2012	DEC	INCHES		CHK ML 2/25/1999
7	ADDED F2 VIEW	MSG 04-21-2010	MSG	x ±.1	APPR JL 2/25/1999	SCALE 5:32
6	REVISED FRAME AND DASH TABLE ISAAC09-5049	TJW 04-01-2010	EH	xx ±.02	TITLE OUTLINE	REF
5	UPDATED DRAWING	RJW 04-18-2007	ML	xxx ±.005	444/445T FR. - TEFC - STD	FMF
4	CHG TO SHORT FAN GUARD DESIGN PER CN39335	RWR 02-17-2007	ML	xxxx ±.0005	MATL	PAGE OF
NO	REVISION	BY & DATE	CHK	LANG ±7'30"	FINISH	REV
THIRD ANGLE PROJECTION				RFP	PREV	SIZE DRAWING NO
				NETWORK FILE NAME	SS517026	REV
				SIZE	B	DRAWING NO
				SS517026		REV
				9		

THREE PHASE - SINGLE VOLTAGE
MOTOR - CONDUIT BOX @ 'A'

TERMINAL BLOCK WHEN SPECIFIED

TO REVERSE ROTATION:
INTERCHANGE ANY TWO LINE
LEAD CONNECTIONS



VIEW OF TERMINAL END

OPTIONAL CORD CONNECTION

L1	WHITE
L2	RED
L3	BLACK

DRAWING REVISION AC	REVISION BY BS	REV DATE/© DATE 26/07/2022
REQUEST NUMBER CR-0010402	APPROVED BY SN	DATE 26/07/2022
REQUEST NUMBER DESCRIPTION DRAWING UPDATED		
<small>COPYRIGHT (PER REVISION DATE) REGAL BELOIT AMERICA, INC. ALL RIGHTS RESERVED. PROPRIETARY AND CONFIDENTIAL INFORMATION - THIS DOCUMENT IS THE PROPERTY OF REGAL BELOIT AMERICA, INC. ("OWNER") AND CONTAINS OWNER'S PROPRIETARY INFORMATION. ANY PERSON, CORPORATION OR OTHER FIRM RECEIVING IT IS DEEMED, BY RECEIVING IT, TO AGREE THAT IT, AND/OR ANY PART OF IT, SHALL NOT BE DISCLOSED TO ANY PERSON, CORPORATION OR OTHER ENTITY, DUPLICATED, AND/OR USED, EXCEPT AS EXPRESSLY APPROVED IN WRITING IN ADVANCE BY OWNER. THIS DOCUMENT SHALL BE RETURNED TO OWNER UPON REQUEST. IT MAY BE SUBJECT TO CERTAIN RESTRICTIONS UNDER APPLICABLE EXPORT CONTROL LAWS AND REGULATIONS.</small>		

PRIMARY DIMENSIONS ARE INCH
mm DIMENSIONS IN [BRACKETS]
ARE FOR REFERENCE ONLY

DRAWN BY DA
DATE 03-26-1993
APPROVED BY TB
DATE 03-26-1993
REFERENCE
THIRD ANGLE PROJECTION

Regal Rexnord		Regal Beloit America, Inc.	
DESCRIPTION CONNECTION DIAGRAM EXTERNAL - SINGLE VOLTAGE - 3Ø MOTOR			
MATERIAL		PROCESS/FINISH	
SIZE A	DRAWING NUMBER EE7300		SHEET 1 OF 1

Data Sheet

Date: 6/29/2017

445THFN9102

Customer: _____



Attention: _____

Submittal

Submitted by: FAREEDA DUDEKULA

Data @ 460 V

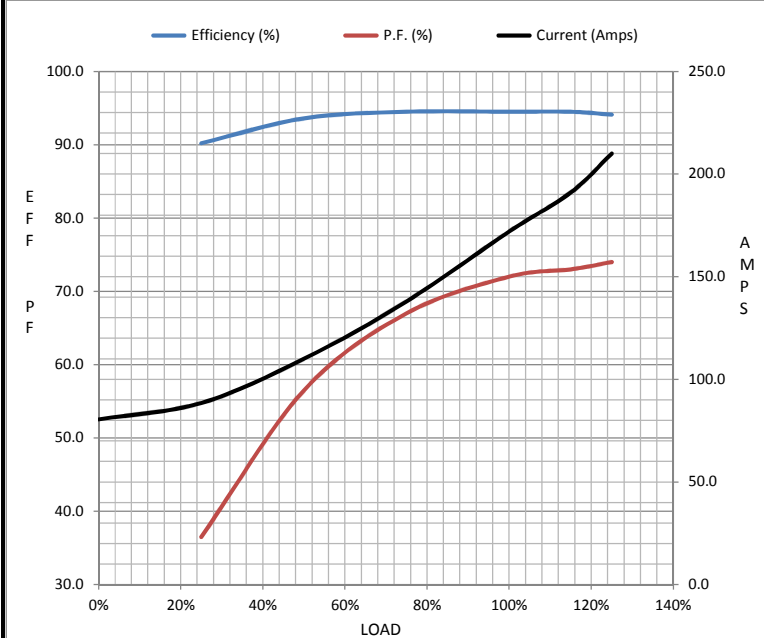
Motor Load Data

Load	0%	25%	50%	75%	100%	115%	125%	LR
Current (Amps)	80.5	88.5	110	138	172	191	210	907
Torque (ft-lb)	0.00	184	367	552	738	830	924	890
RPM	900	897	895	892	890	888	885	0
Efficiency (%)		90.2	93.6	94.5	94.5	94.5	94.1	
P.F. (%)	4.0	36.5	56.5	67.0	72.0	73.0	74.0	22.5

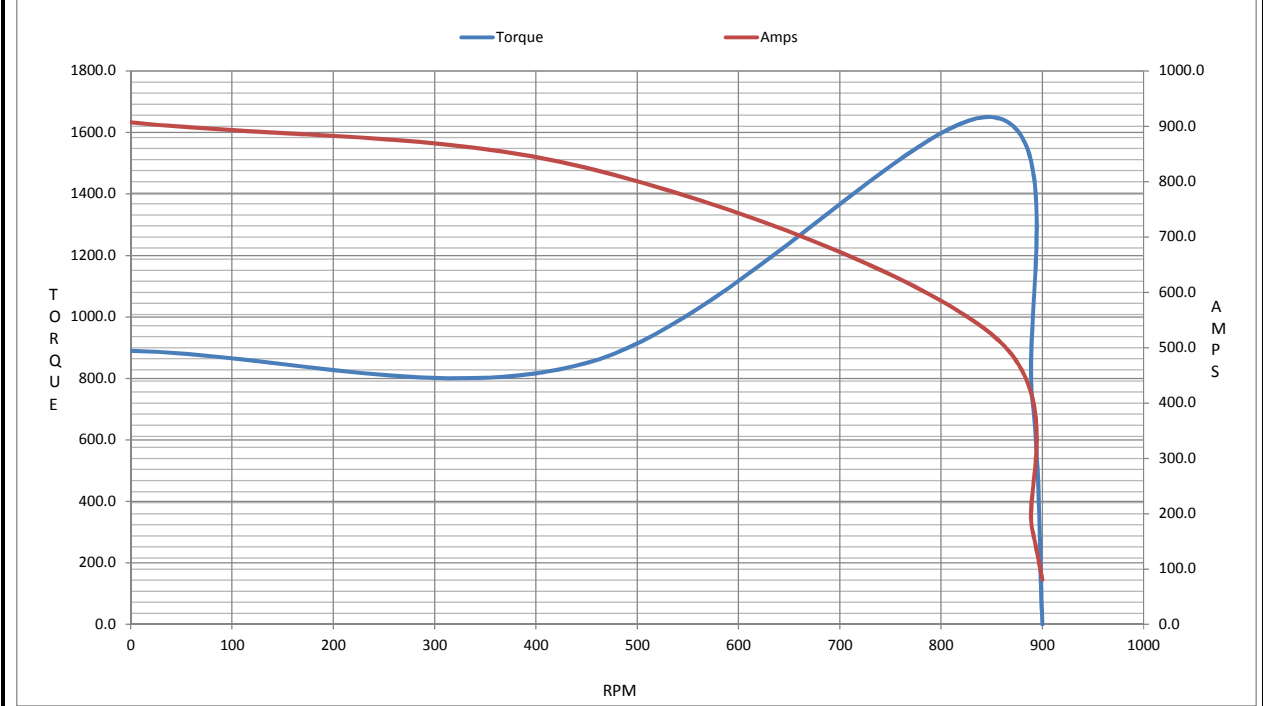
Motor Speed Data

	LR	Pull-Up	BD	Rated	Idle
Speed (RPM)	0	450	850	890	900
Current (Amps)	907	825	524	172	80.5
Torque (ft-lb)	890	850	1,650	738	0.00

Information Block				
HP	125.0			
Sync. RPM	900			
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	70 °C			
Duty	CONT			
Ambient	40 °C			
Elevation	1,000 feet			
Rotor/Shaft wk ²	91.0 Lb-Ft ²			
Ref Wdg	T445834 NONE			
Sound Pressure @ 1M	72 dBA			
VFD Rating	CONSTANT 2:1			
Outline Dwg	B-SS517026-2025			
Conn. Diag	A-EE7300			
Additional Specifications:				
0				
0				
EQUIV CKT (OHMS / PHASE)				
R1	R2	X1	X2	Xm
0.0190	0.0170	0.2150	0.2840	3.0870



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 : 445THFN9102

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

Catalog No : W609

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