

# PRODUCT INFORMATION PACKET

**marathon®**  
Motors

Model No: 182TTFW16002

Catalog No: E2159

XRI® General Purpose General Purpose Motor, 3 HP, 3 Ph, 60 Hz, 200 V, 3600 RPM, 182T Frame, TEFC



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**RegalRexnord**

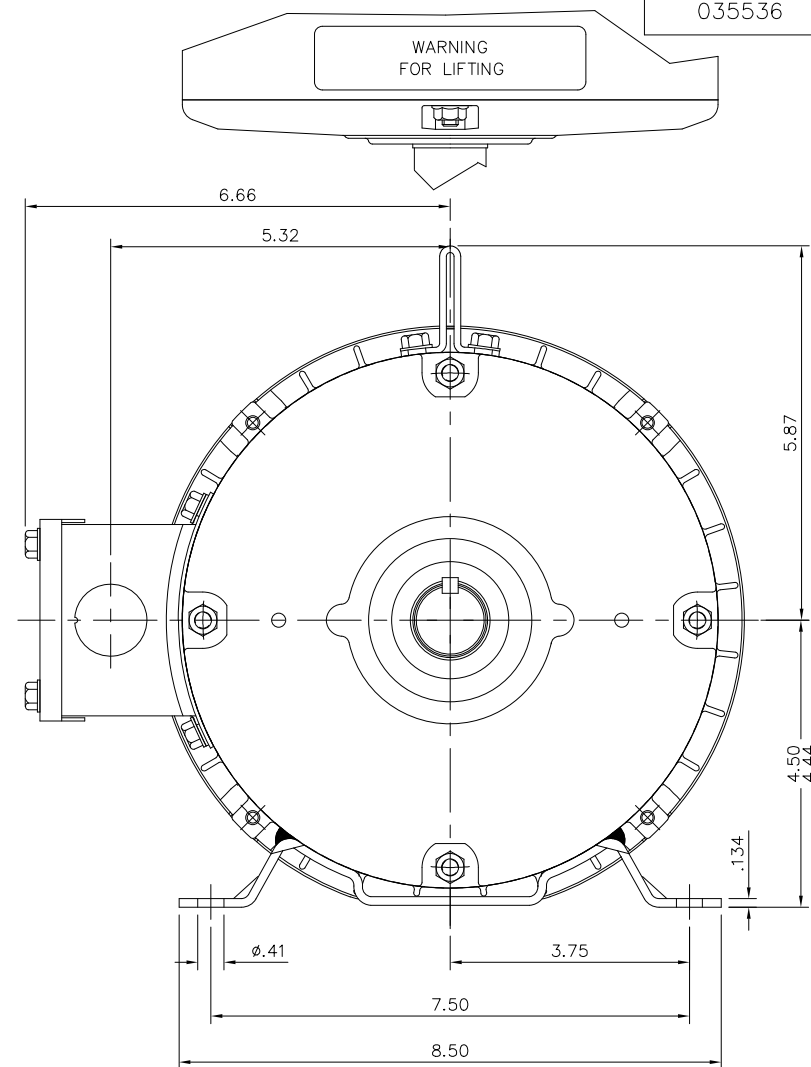
## Nameplate Specifications


Phase	3	Output HP	3 Hp
Output KW	2.2 kW	Voltage	200 V
Speed	3521 rpm	Service Factor	1.15
Frame	182T	Enclosure	Totally Enclosed Fan Cooled
Thermal Protection	No Protection	Efficiency	86.5 %
Ambient Temperature	40 °C	Frequency	60 Hz
Current	8.5 A	Power Factor	88
Duty	Continuous	Insulation Class	F
Design Code	B	KVA Code	K
Drive End Bearing Size	6206	Opp Drive End Bearing Size	6205
UL	Recognized	CSA	Y
CE	Y	IP Code	43
Number of Speeds	1		

## Technical Specifications

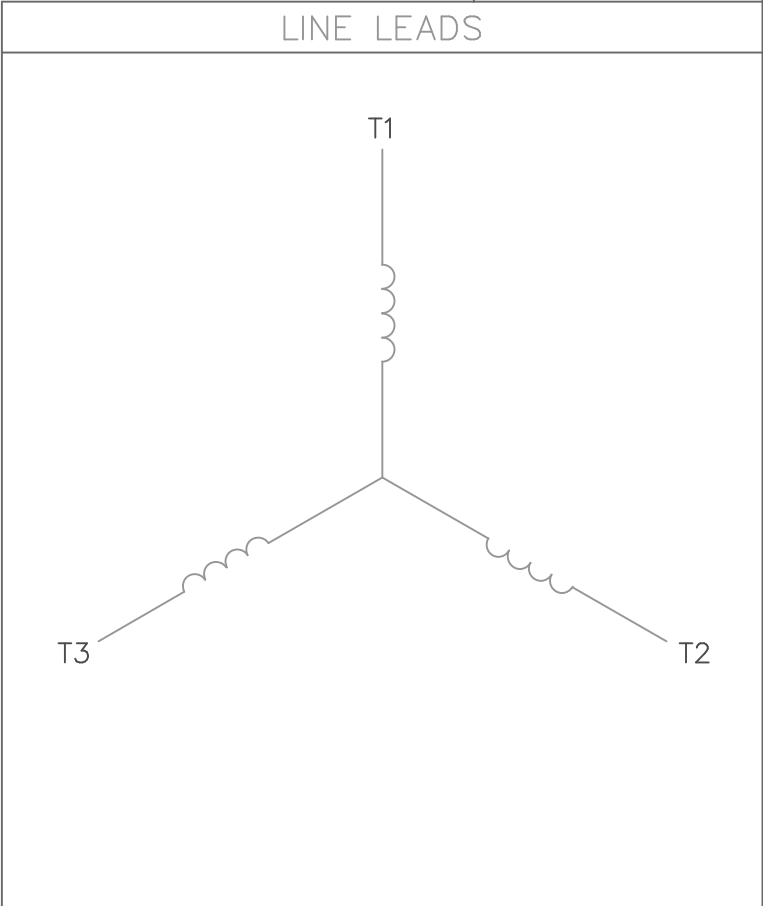
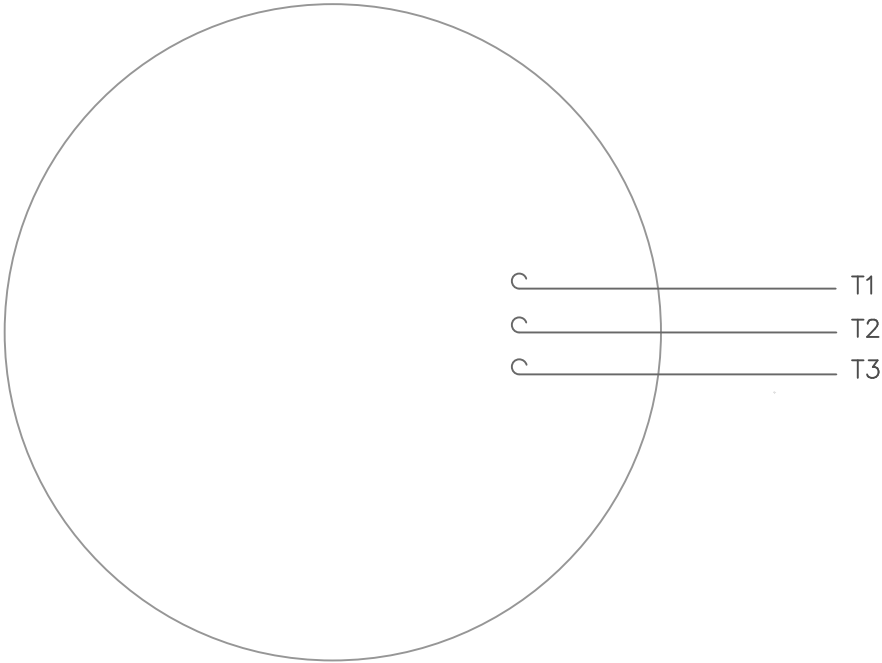
Electrical Type	Squirrel Cage Inverter Rated	Starting Method	Line Or Inverter
Poles	2	Rotation	Reversible
Resistance Main	0 Ohms	Mounting	Rigid Base
Motor Orientation	Horizontal	Drive End Bearing	Ball
Opp Drive End Bearing	Ball	Frame Material	Rolled Steel
Shaft Type	T	Overall Length	13.97 in
Frame Length	8.50 in	Shaft Diameter	1.125 in
Shaft Extension	2.81 in	Assembly/Box Mounting	F1 ONLY
Inverter Load	CONSTANT 10:1		
Connection Drawing	005102.01ME	Outline Drawing	035536-850






				TOLERANCES UNLESS SPECIFIED			DRAWN VV 07/02/07	
				DEC.	INCHES		CHK SV 07/02/07	
04	Updated Nameplate location	JG 09/06/23	TS .X	±.1		APPD VS 07/02/07		
03	ADDED FLINGER	PVR 02/10/15	ST .XX	±.03	TITLE	OUTLINE- 180T FRAME	SCALE 1=2	
02	WHEN REQD NOTE ADDED FOR 'XRI' DECAL	GR 02/07/13	AK .XXX	±.005		TEFC- RIGID	REF	
01	UPDATED FRAME LENGTH TABLE	PVR 08/31/12	JD .XXXX	±.0005	MAT'L.		FMF	
NO.	REVISION	BY & DATE	CHK ANG	±1/2"	FINISH		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 DIST	CAD FILE 035536	SIZE B DRAWING NO. 035536	REV. 04

VIEW FROM OUTSIDE OF MOTOR AT SWITCH END.



CONNECT LEADS AS FOLLOWS FOR FOUR CONDUCTOR CORD ( )				
CORD	L1 (RED)	L2 (WHITE)	L3 (BLACK)	(GREEN)
MOTOR	T1	T2	T3	GROUND

				TOLERANCES UNLESS SPECIFIED				DRAWN RDW 5/1/02	
				DEC.	INCHES			CHK	
				.X	±.1			APPD	
				.XX	±.01			SCALE 1=1	
				.XXX	±.005			REF	
				.XXXX	±.0005	TITLE		MAT'L.	
				ANG	±1/2°	EXTERNAL WIRING DIAGRAM TYPE "T" W/O PROTECTOR		DECAL - 004169	
				CHK		FINISH		FMF	
				RFP	5/1/02	CAD FILE		DRAWING NO.	
				DIST		00510201ME		005102-01ME	
						SIZE		REV.	
						A			

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## CERTIFICATION DATA SHEET

Model#: 182TTFW16002 AA

WINDING#: T8290 FR 5

CONN. DIAGRAM: 005102.01ME

ASSEMBLY: F1 ONLY

OUTLINE: 035536-850

## TYPICAL MOTOR PERFORMANCE DATA

HP	KW	SYNC. RPM	F.L. RPM	FRAME	ENCLOSURE	KVA CODE	DESIGN
3	2.24	3600	3521	182T	TEFC	K	B

PH	Hz	VOLTS	FL AMPS	START TYPE	DUTY	INSL	S.F	AMB°C	ELEVATION
3	60	200	8.5	LINE OR INVERTER	CONTINUOUS	F4	1.15	40	3300

FULL LOAD EFF: 86.5	3/4 LOAD EFF: -	1/2 LOAD EFF: -	GTD. EFF	ELEC. TYPE	NO LOAD AMPS
FULL LOAD PF: 88	3/4 LOAD PF: -	1/2 LOAD PF: -	0	SQ CAGE INV RATED	-

F.L. TORQUE	LOCKED ROTOR AMPS	L.R. TORQUE	B.D. TORQUE	F.L. RISE°C
0 LB-FT	-	- LB-FT -	- LB-FT -	45

SOUND PRESSURE @ 3 FT.	SOUND POWER	ROTOR WK^2	MAX. WK^2	SAFE STALL TIME	STARTS /HOUR	APPROX. MOTOR WGT
- dBA	- dBA	0.33 LB-FT^2	- LB-FT^2	10 SEC.	-	0 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						
6206	6205	POLYREX EM	T	NONE	NONE	AISI 1045 (C-240)	ROLLED STEEL

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

INVERTER TORQUE: CONSTANT 10:1
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

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FORM 3531 REV.3 02/07/99

\*\* Subject to change without notice.

## Data Sheet

Date: 20-06-2017

Customer:

Attention:

Submitted by: FAREEDA DUDEKULA



182TTFW16002

Submittal

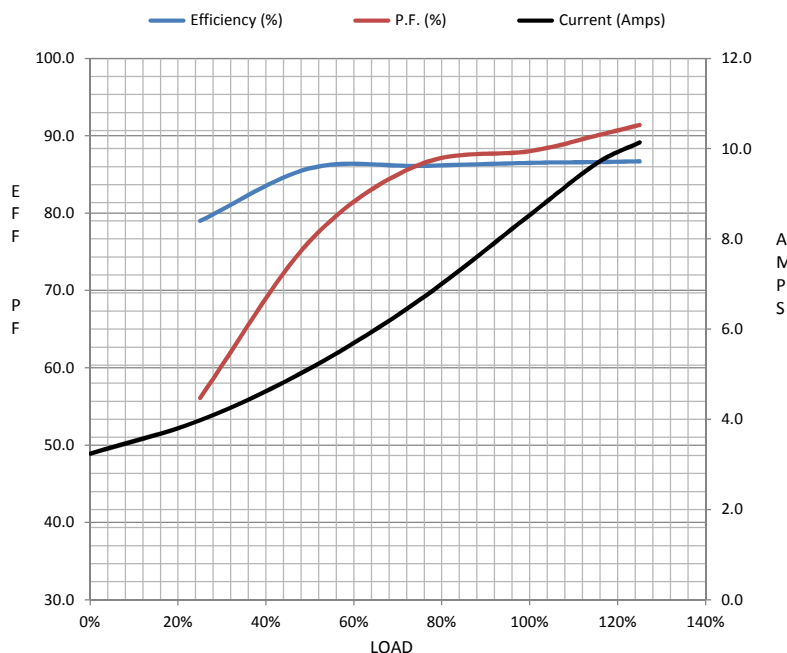
Data @ 200 V

## Motor Load Data

Load	0%	25%	50%	75%	100%	115%	125%	LR	
Current (Amps)	3.2	4.0	5.1	6.7	8.5	9.7	10.1	78.2	
Torque (ft-lb)	0.00	1.20	2.30	3.4	4.5	5.2	5.6	12.0	
RPM	3600	3580	3562	3542	3521	3510	3498	0	
Efficiency (%)		79.0	85.8	86.1	86.5	86.6	86.7		
P.F. (%)	17.3	56.1	76.4	86.3	88.0	90.0	91.4	0.0	

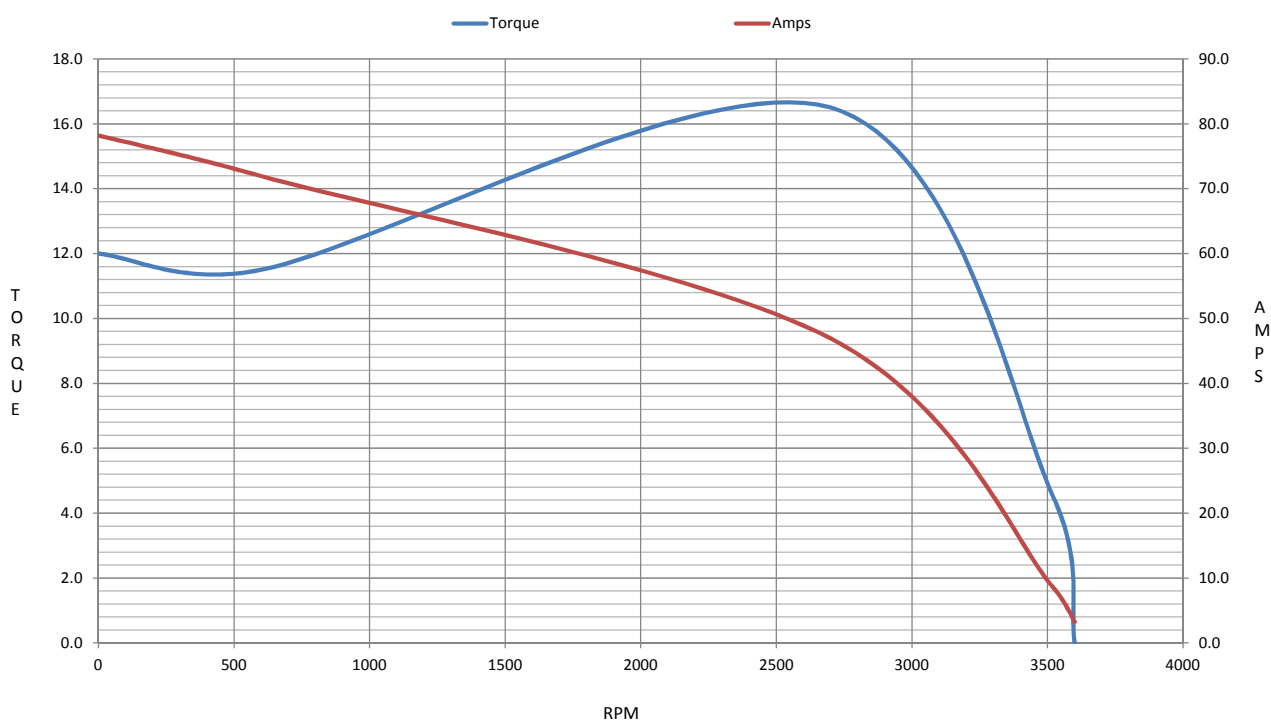
## Motor Speed Data

	LR	Pull-Up	BD	Rated	Idle	Information Block	
Speed (RPM)	0	600	2700	3521	3600	HP	3.0
Current (Amps)	78.2	71.9	46.9	8.5	3.2	Sync. RPM	3600
Torque (ft-lb)	12.0	11.5	16.5	4.5	0.00	Frame	180



HP	3.0			
Sync. RPM	3600			
Frame	180			
Enclosure	TEFC			
Construction	TFW			
Voltage	200	V		
Frequency	60	Hz		
Design	A			
LR Code letter	K			
Service Factor	1.15			
Temp Rise @ FL	45	° C		
Duty	CONT			
Ambient	40	° C		
Elevation	1,000	feet		
Rotor/Shaft wk <sup>2</sup>	0.33	Lb-Ft <sup>2</sup>		
Ref Wdg	T8290 FR			
Sound Pressure @ 1M	79	dBA		
VFD Rating	CONSTANT 10:1			
Outline Dwg	035536-850			
Conn. Diag	005102.01ME			
Additional Specifications:				
0				
365THFS8036				
EQUIV CKT (OHMS / PHASE)				
R1	R2	X1	X2	Xm
0.0000	0.0000	0.0000	0.0000	0.0000

## 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 : 182TTFW16002

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

Catalog No : E2159

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**