

PRODUCT INFORMATION PACKET

marathon®
Motors

Model No: 182TTFW16082

Catalog No: E2155

XRI® General Purpose General Purpose Motor, 1.50 HP, 3 Ph, 60 Hz, 200 V, 1200 RPM, 182T 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

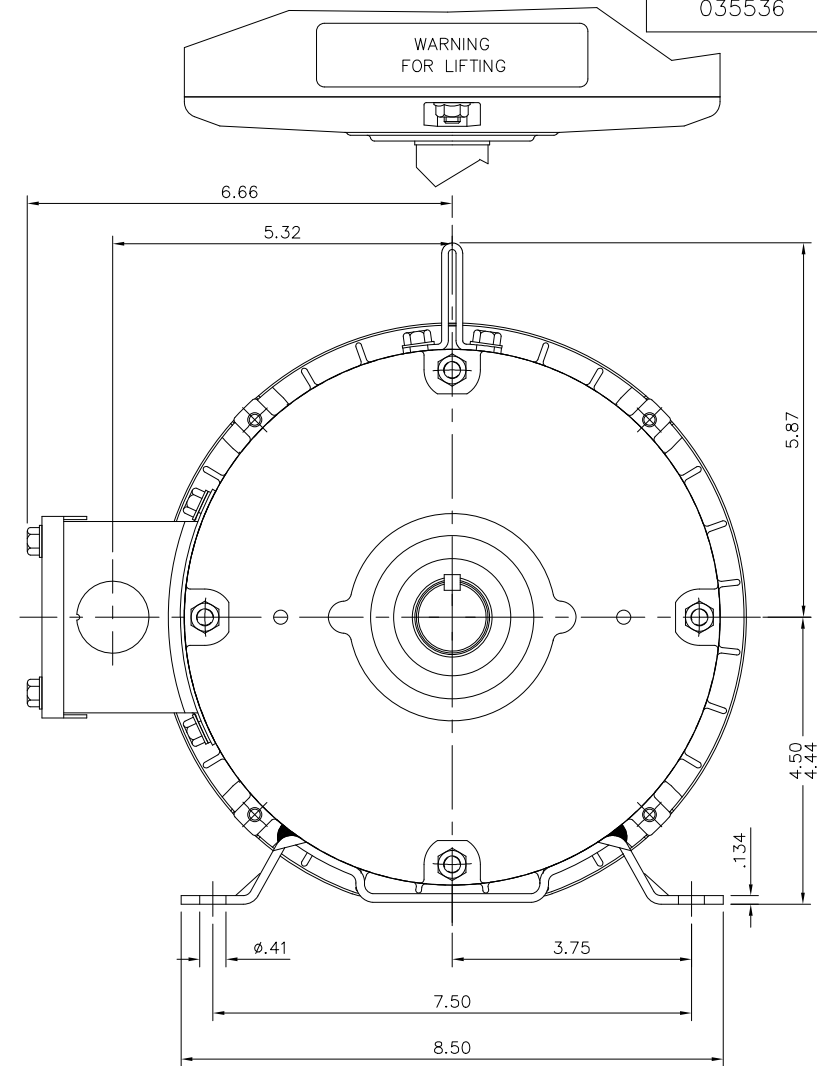
RegalRexnord


Nameplate Specifications

Phase	3	Output HP	1.50 Hp
Output KW	1.1 kW	Voltage	200 V
Speed	1175 rpm	Service Factor	1.15
Frame	182T	Enclosure	Totally Enclosed Fan Cooled
Thermal Protection	No Protection	Efficiency	87.5 %
Ambient Temperature	40 °C	Frequency	60 Hz
Current	6.0 A	Power Factor	62
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		

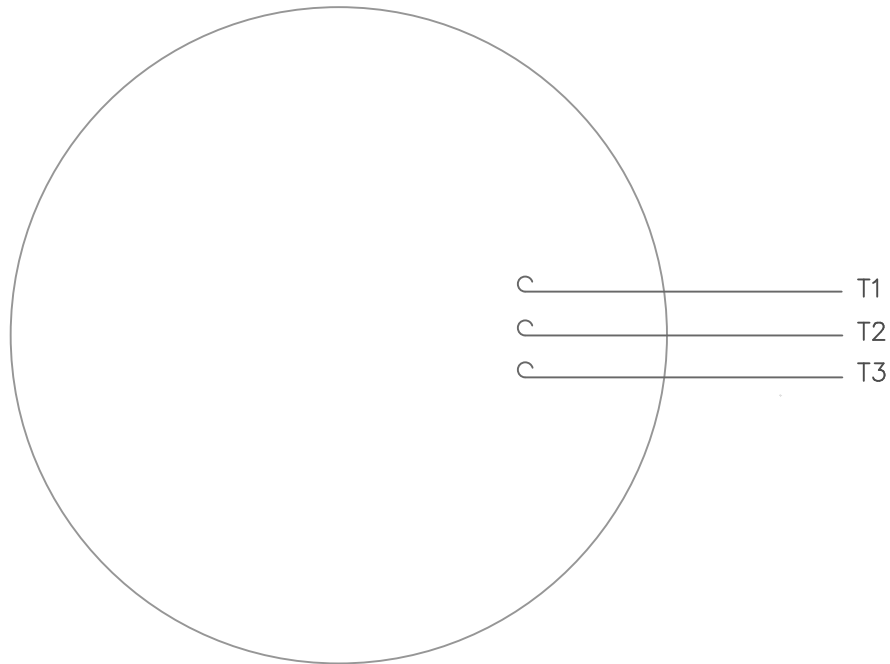
Technical Specifications

Electrical Type	Squirrel Cage Inverter Rated	Starting Method	Line Or Inverter
Poles	6	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	14.47 in
Frame Length	9.00 in	Shaft Diameter	1.125 in
Shaft Extension	2.81 in	Assembly/Box Mounting	F1/F2 Capable
Inverter Load	CONSTANT 10:1		
Outline Drawing	035536-900	Connection Drawing	005102.01ME

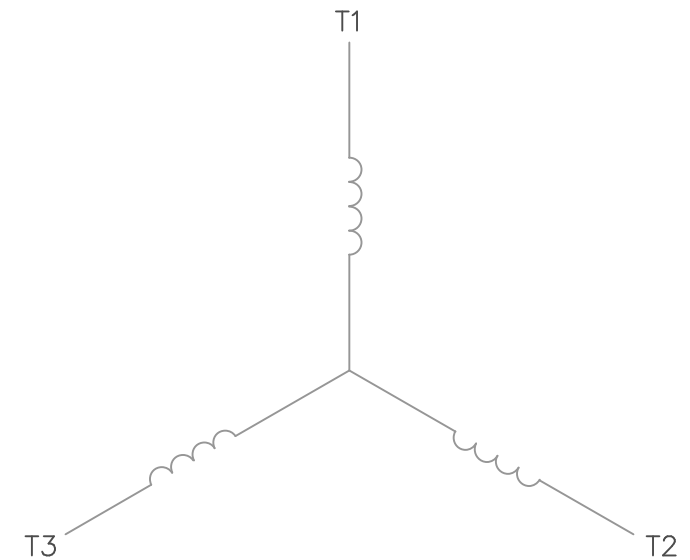


					TOLERANCES UNLESS SPECIFIED				DRAWN VV 07/02/07	
				DEC.	INCHES					CHK SV 07/02/07
04	Updated Nameplate location	JG 09/06/23	TS .X	±.1					APPD VS 07/02/07	
03	ADDED FLINGER	PVR 02/10/15	ST .XX	±.03			TITLE OUTLINE- 180T FRAME		SCALE 1=2	
02	WHEN REQD NOTE ADDED FOR 'XR' DECAL	GR 02/07/13	AK .XXX	±.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	CAD FILE	035536	SIZE B	DRAWING NO.	REV.
					DIST				035536	04


VIEW FROM OUTSIDE OF MOTOR AT SWITCH END.



LINE LEADS

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	MAT'L. DECAL - 004169		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	5/1/02	CAD FILE 00510201ME		SIZE	DRAWING NO.	REV.
			DIST				A	005102-01ME	

CERTIFICATION DATA SHEET

Model#: 182TTFW16082 AA

WINDING#: T8636 FR 6

CONN. DIAGRAM: 005102.01ME

ASSEMBLY: F1/F2 CAPABLE

OUTLINE: 035536-900

TYPICAL MOTOR PERFORMANCE DATA

HP	KW	SYNC. RPM	F.L. RPM	FRAME	ENCLOSURE	KVA CODE	DESIGN
1 1/2	1.12	1200	1175	182T	TEFC	K	B

PH	Hz	VOLTS	FL AMPS	START TYPE	DUTY	INSL	S.F	AMB°C	ELEVATION
3	60	200	6	LINE OR INVERTER	CONTINUOU S	F4	1.15	40	3300

FULL LOAD EFF: 87.5	3/4 LOAD EFF: 86	1/2 LOAD EFF: 83	GTD. EFF	ELEC. TYPE	NO LOAD AMPS
FULL LOAD PF: 62	3/4 LOAD PF: 55	1/2 LOAD PF: 43	85.5	SQ CAGE INV RATED	3.9

F.L. TORQUE	LOCKED ROTOR AMPS	L.R. TORQUE	B.D. TORQUE	F.L. RISE°C
6.705 LB-FT	35	10.97 LB-FT 163	22.5 LB-FT 335	35

SOUND PRESSURE @ 3 FT.	SOUND POWER	ROTOR WK^2	MAX. WK^2	SAFE STALL TIME	STARTS /HOUR	APPROX. MOTOR WGT
0 dBA	10 dBA	0.56 LB-FT^2	0 LB-FT^2	10 SEC.	0	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	1144 STRESSPROOF (C-223)	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

*
N
O
T
E
S
*

DATE: 06/27/2017 03:34:59 AM

FORM 3531 REV.3 02/07/99

** Subject to change without notice.

Data Sheet

Date: 6/29/2017

Customer: _____

Attention: _____

Submitted by: FAREEDA DUDEKULA



182TTFW16082

Submittal

Data @ 200 V

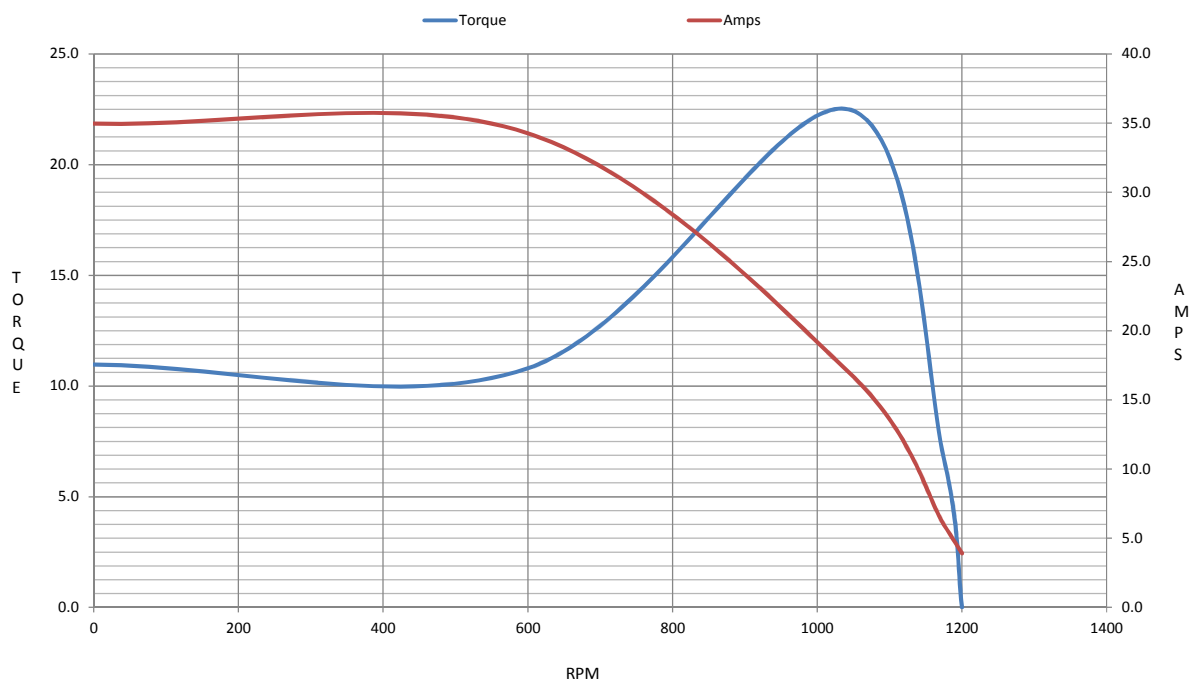
Motor Load Data

Load	0%	25%	50%	75%	100%	115%	125%	LR	
Current (Amps)	3.9	4.1	4.6	5.2	6.0	6.4	6.9	35.0	
Torque (ft-lb)	0.00	1.65	3.3	5.0	6.7	7.8	8.5	11.0	
RPM	1200	1195	1190	1185	1175	1,175	1170	0	
Efficiency (%)		73.0	83.0	86.0	87.5	87.9	87.0		
P.F. (%)	8.0	27.0	43.0	55.0	62.0	67.2	68.0	38.0	

Motor Speed Data

	LR	Pull-Up	BD	Rated	Idle																																					
Speed (RPM)	0	600	1043	1175	1200																																					
Current (Amps)	35.0	34.3	17.0	6.0	3.9																																					
Torque (ft-lb)	11.0	10.8	22.5	6.7	0.00																																					
<div><div>Efficiency (%)</div><div>P.F. (%)</div><div>Current (Amps)</div></div> <table><thead><tr><th>LOAD</th><th>Efficiency (%)</th><th>P.F. (%)</th><th>Current (Amps)</th></tr></thead><tbody><tr><td>0%</td><td></td><td></td><td>4.0</td></tr><tr><td>20%</td><td>73</td><td></td><td>4.2</td></tr><tr><td>40%</td><td>80</td><td>30</td><td>4.5</td></tr><tr><td>60%</td><td>85</td><td>45</td><td>5.0</td></tr><tr><td>80%</td><td>87</td><td>55</td><td>5.8</td></tr><tr><td>100%</td><td>88</td><td>62</td><td>6.5</td></tr><tr><td>120%</td><td>87</td><td>68</td><td>7.0</td></tr></tbody></table>						LOAD	Efficiency (%)	P.F. (%)	Current (Amps)	0%			4.0	20%	73		4.2	40%	80	30	4.5	60%	85	45	5.0	80%	87	55	5.8	100%	88	62	6.5	120%	87	68	7.0	Information Block				
						LOAD	Efficiency (%)	P.F. (%)	Current (Amps)																																	
						0%			4.0																																	
						20%	73		4.2																																	
						40%	80	30	4.5																																	
						60%	85	45	5.0																																	
						80%	87	55	5.8																																	
						100%	88	62	6.5																																	
						120%	87	68	7.0																																	
						HP		1.5																																		
						Sync. RPM		1200																																		
						Frame		180																																		
						Enclosure		TEFC																																		
						Construction		TFW																																		
						Voltage		200 V																																		
						Frequency		60 Hz																																		
						Design		B																																		
LR Code letter		K																																								
Service Factor		1.15																																								
Temp Rise @ FL		35 °C																																								
Duty		CONT																																								
Ambient		40 °C																																								
Elevation		1,000 feet																																								
Rotor/Shaft wk²		0.56 Lb-Ft²																																								
Ref Wdg		T8636 FR																																								
Sound Pressure @ 1M		0 dBA																																								
VFD Rating		CONSTANT 10:1																																								
Outline Dwg		035536-900																																								
Conn. Diag		005102.01ME																																								
Additional Specifications:																																										
0																																										
0																																										
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 : 182TTFW16082

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

Catalog No : E2155

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