

# PRODUCT INFORMATION PACKET

**marathon®**  
Motors

Model No: 182TTFW16026

Catalog No: E2110

XRI® General Purpose General Purpose Motor, 3 & 2 HP, 3 Ph, 60 & 50 Hz, 230/460 & 190/380 V,  
1800 & 1500 RPM, 182T Frame, TEFC



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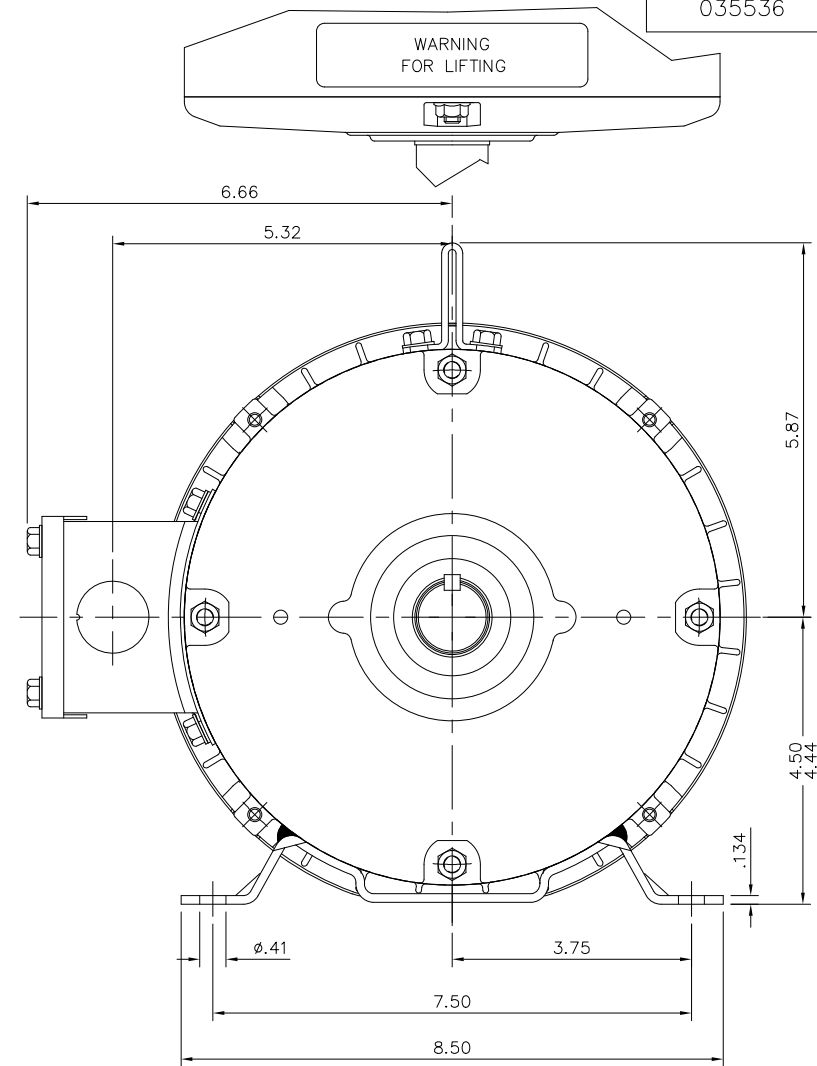
**RegalRexnord**


### Nameplate Specifications

Phase	3	Output HP	3 & 2 Hp
Output KW	2.2 & 1.5 kW	Voltage	230/460 & 190/380 V
Speed	1770 & 1475 rpm	Service Factor	1.15 & 1.15
Frame	182T	Enclosure	Totally Enclosed Fan Cooled
Thermal Protection	No Protection	Efficiency	89.5 & 88.5 %
Ambient Temperature	40 °C	Frequency	60 & 50 Hz
Current	7.8/3.9 & 9.5/4.75 A	Power Factor	80.5
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 Induction Run	Starting Method	Across The Line
Poles	4	Rotation	Reversible
Resistance Main	6.08 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/F2 CAPABLE
Outline Drawing	035536-850	Connection Drawing	005010.01ME

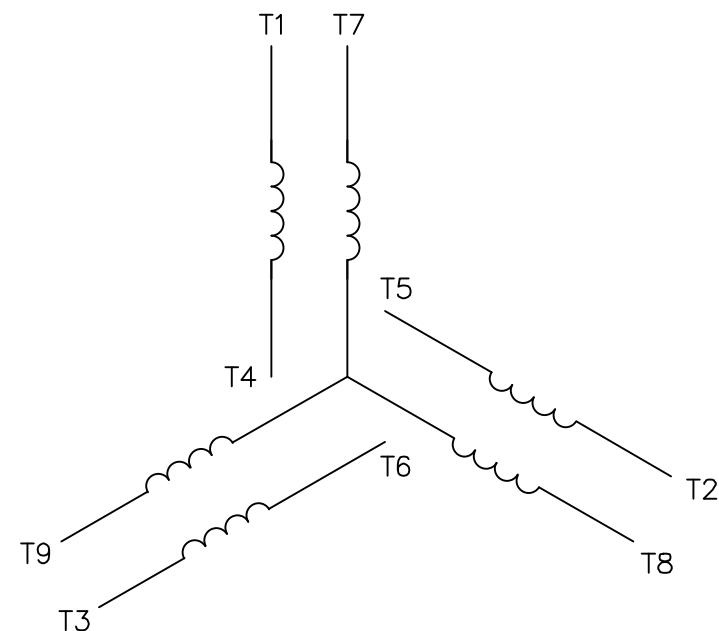


				TOLERANCES UNLESS SPECIFIED			DRAWN VV 07/02/07				
				DEC.	INCHES		CHK SV 07/02/07				
04	Updated Nameplate location	JG 09/06/23	TS .X	±.1			APPD VS 07/02/07				
03	ADDED FLINGER	PVR 02/10/15	ST .XX	±.03	TITLE	OUTLINE- 180T FRAME	SCALE	1=2			
02	WHEN REQD NOTE ADDED FOR 'XRI' DECAL	GR 02/07/13	AK .XXX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


VIEW FROM OUTSIDE OF MOTOR AT SWITCH END.



## LINE LEADS



VOLTAGE	L1	L2	L3	JOIN & INSULATE
HIGH	T1	T2	T3	(T4,T7) (T5,T8) (T6,T9)
LOW	T1,T7	T2,T8	T3,T9	T4,T5,T6

				TOLERANCES UNLESS SPECIFIED			DRAWN RDW 04/12/02			
				DEC.	INCHES		CHK			
				.X	±.1		APPD			
				.XX	±.01		TITLE			
				.XXX	±.005	EXTERNAL WIRING DIAGRAM		SCALE 1=1		
				.XXXX	±.0005	3 PHASE W/O PROTECTOR		REF FIG.2—51		
						MAT'L. DECAL — 004014		FMF		
NO.	REVISION	BY & DATE	CHK	ANG	±1/2*	FINISH		PREV		
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			DIST					A	005010—01ME	

## CERTIFICATION DATA SHEET

Model#: 182TTFW16026 AA

WINDING#: T84174 FR 3

CONN. DIAGRAM: 005010.01ME

ASSEMBLY: F1/F2 CAPABLE

OUTLINE: 035536-850

## TYPICAL MOTOR PERFORMANCE DATA

HP	KW	SYNC. RPM	F.L. RPM	FRAME	ENCLOSURE	KVA CODE	DESIGN
3&2	2.24&1.49	1800	1770&1475	182T	TEFC	K	NO DESIGN CODE

PH	Hz	VOLTS	FL AMPS	START TYPE	DUTY	INSL	S.F	AMB°C	ELEVATION
3	60/50	230/460#190/380	7.8/3.9&9.5/4.75	ACROSS THE LINE	CONTINUOUS	F4	1.15/1.15	40	3300

FULL LOAD EFF: 89.5&88.5	3/4 LOAD EFF: 89.6	1/2 LOAD EFF: 87.7	GTD. EFF	ELEC. TYPE	NO LOAD AMPS
FULL LOAD PF: 80.5&74	3/4 LOAD PF: 73.8	1/2 LOAD PF: 62.7	0	SQ CAGE IND RUN	3.8 / 1.9

F.L. TORQUE	LOCKED ROTOR AMPS	L.R. TORQUE	B.D. TORQUE	F.L. RISE°C
8.914 LB-FT	67 / 33.5	22.5 LB-FT 253	36 LB-FT 404	39

SOUND PRESSURE @ 3 FT.	SOUND POWER	ROTOR WK^2	MAX. WK^2	SAFE STALL TIME	STARTS / HOUR	APPROX. MOTOR WGT
0 dBA	10 dBA	0.383 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			

If Inverter equals NONE, contact factory for further information

* N O T E S *	INVERTER TORQUE: NONE		
	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

DATE: 06/27/2017 03:29:15 AM  
FORM 3531 REV.3 02/07/99

\*\* Subject to change without notice.

## Data Sheet

Date: 29-06-2017

Customer:

Attention:

Submitted by: FAREEDA DUDEKULA



182TTFW16026

Submittal

Data @ 460 V

## Motor Load Data

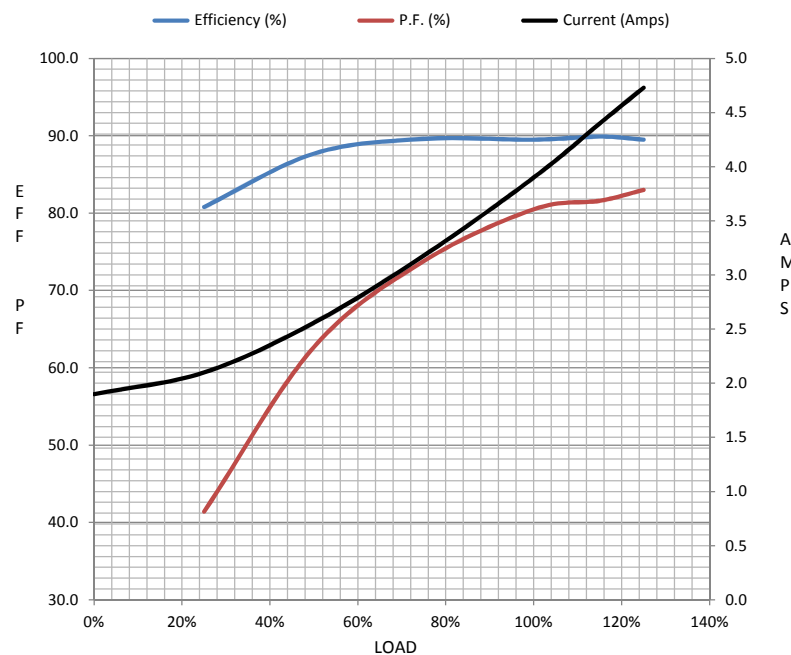
Load	0%	25%	50%	75%	100%	115%	125%	LR	
Current (Amps)	1.90	2.10	2.56	3.2	3.9	4.4	4.7	33.5	
Torque (ft-lb)	0.00	2.20	4.4	6.6	8.9	10.3	11.2	22.5	
RPM	1800	1792	1785	1777	1770	1,766	1755	0	
Efficiency (%)		80.8	87.7	89.6	89.5	89.9	89.5		
P.F. (%)	6.9	41.4	62.7	73.8	80.5	81.6	83.0	0.0	

## Motor Speed Data

	LR	Pull-Up	BD	Rated	Idle
Speed (RPM)	0	900	1656	1770	1800
Current (Amps)	33.5	33.0	21.5	3.9	1.90
Torque (ft-lb)	22.5	21.0	36.0	8.9	0.00

## Information Block

HP	3.0			
Sync. RPM	1800			
Frame	182			
Enclosure	TEFC			
Construction	TFW			
Voltage	230/460#190/38( V			
Frequency	60 Hz			
Design	B			
LR Code letter	K			
Service Factor	1.15			
Temp Rise @ FL	40 ° C			
Duty	CONT			
Ambient	40 ° C			
Elevation	1,000 feet			
Rotor/Shaft wk²	0.38 Lb-Ft²			
Ref Wdg	T84174 FR			
Sound Pressure @ 1M	0 dBA			
VFD Rating	NONE			
Outline Dwg	035536-850			
Conn. Diag	005010.01ME			
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

