

PRODUCT INFORMATION PACKET

marathon®
Motors

Model No: 182TTFW16001

Catalog No: E2109

XRI® General Purpose General Purpose Motor, 3 & 2 HP, 3 Ph, 60 & 50 Hz, 230/460 & 190/380 V,
3600 & 3000 RPM, 182T Frame, TEFC



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RegalRexnord

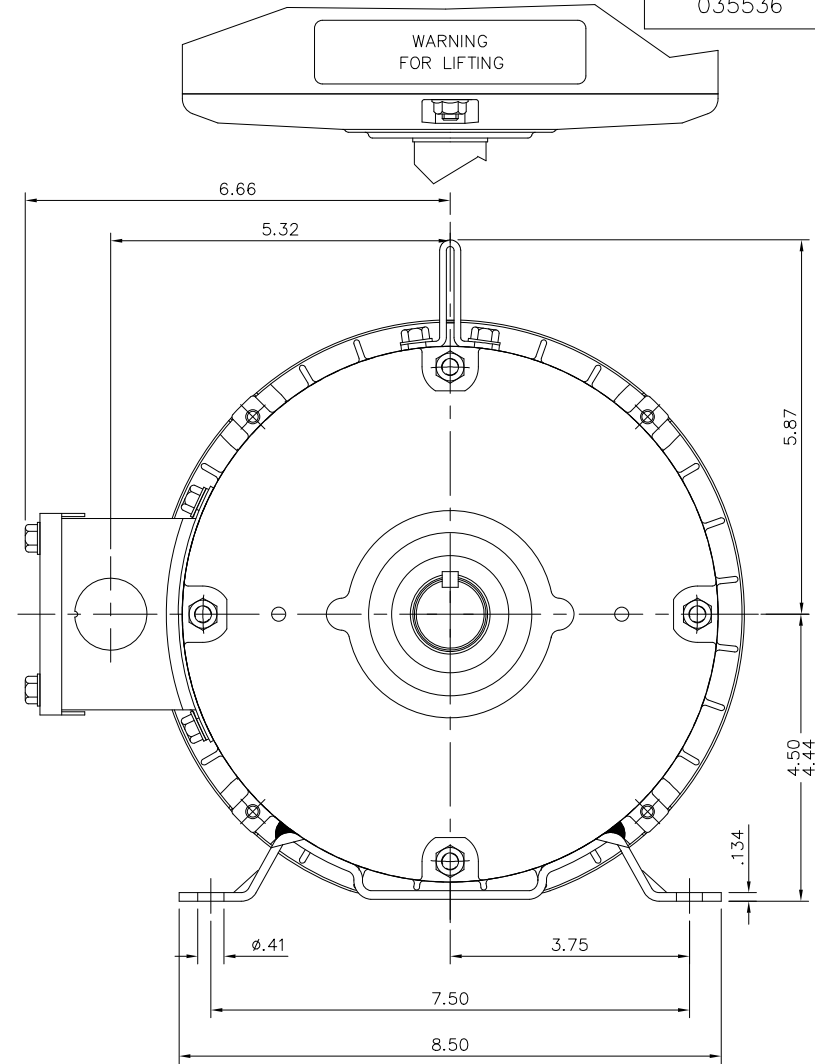
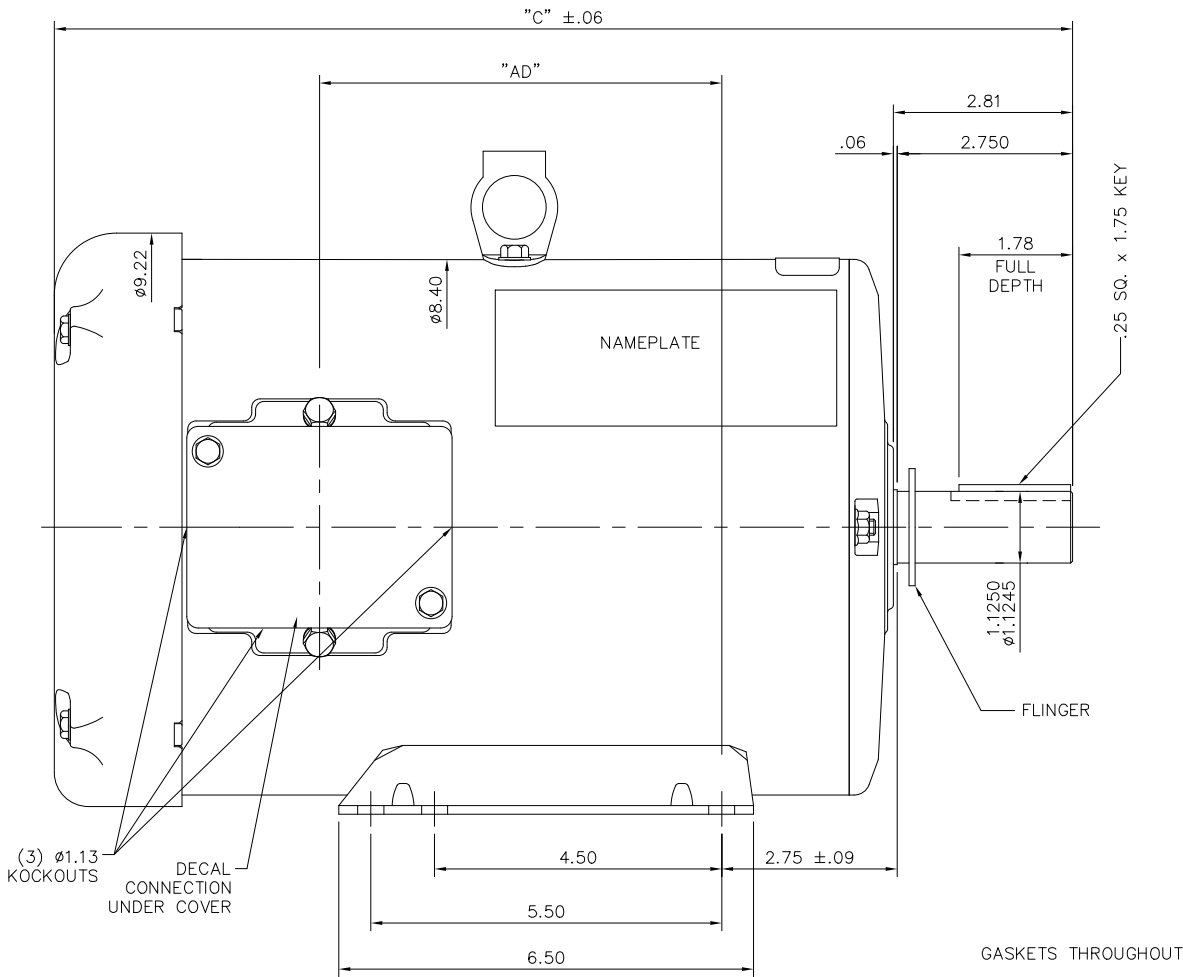
Nameplate Specifications

Phase	3	Output HP	3 & 2 Hp
Output KW	2.2 & 1.5 kW	Voltage	230/460 & 190/380 V
Speed	3510 & 2920 rpm	Service Factor	1.15 & 1.15
Frame	182T	Enclosure	Totally Enclosed Fan Cooled
Thermal Protection	No Protection	Efficiency	86.5 & 85.5 %
Ambient Temperature	40 °C	Frequency	60 & 50 Hz
Current	7.8/3.9 & 6.8/3.4 A	Power Factor	83
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	2	Rotation	Reversible
Resistance Main	3.56 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	12.97 in
Frame Length	7.50 in	Shaft Diameter	1.125 in
Shaft Extension	2.81 in	Assembly/Box Mounting	F1 ONLY
Outline Drawing	035536-750	Connection Drawing	005010.01ME

035536



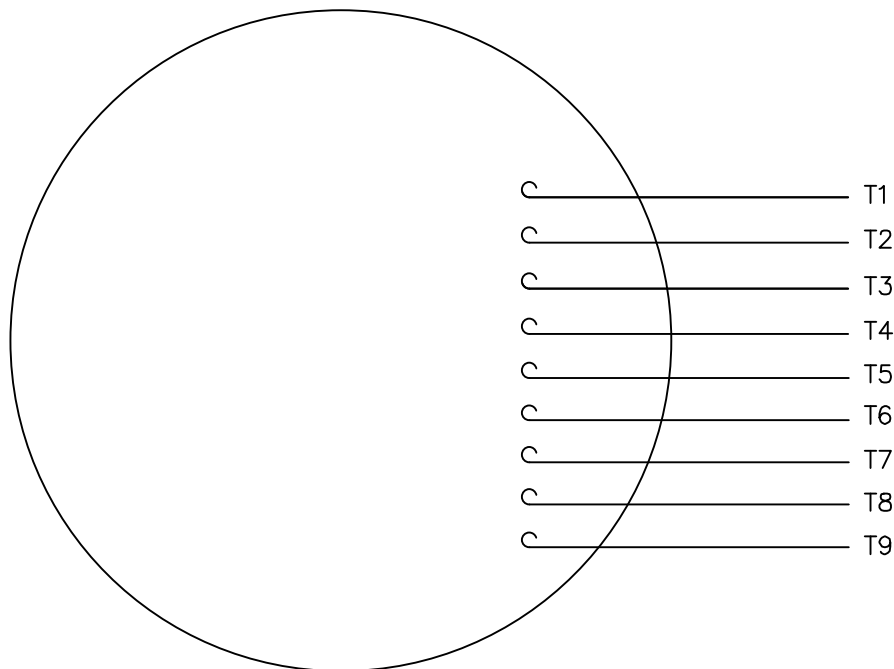
DASH NO.	"C"	"AD"
750	12.97	3.37
800	13.47	3.87
850	13.97	4.37
900	14.47	4.87
950	14.97	5.37
1000	15.47	5.87
1050	15.97	6.37
1100	16.47	6.87
1150	16.97	7.37

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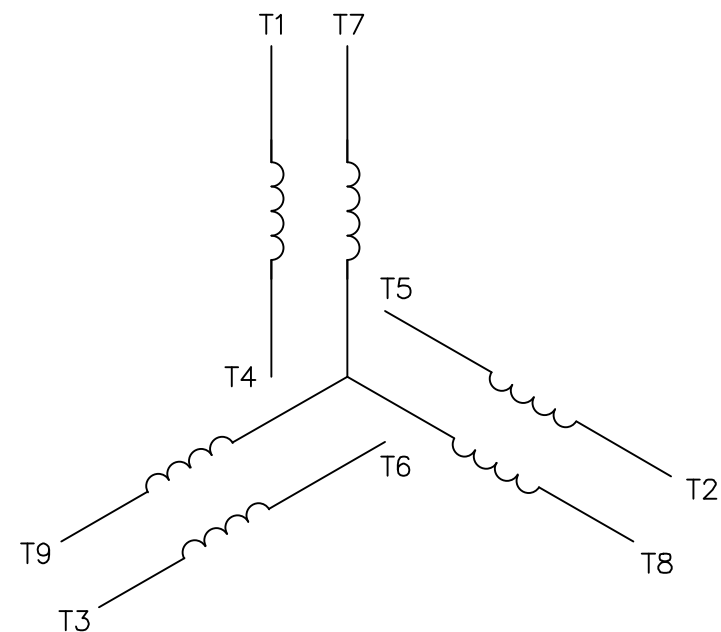
				TOLERANCES UNLESS SPECIFIED			DRAWN VV 07/02/07	
				DEC.	INCHES		CHK SV 07/02/07	
04	Updated Nameplate location	JG 09/06/23	TS	.X	±.1	TITLE OUTLINE- 180T FRAME TEFC- RIGID	APPD VS 07/02/07	
03	ADDED FLINGER	PVR 02/10/15	ST	.XX	±.03		SCALE 1=2	
02	WHEN REQD NOTE ADDED FOR 'XRI' DECAL	GR 02/07/13	AK	.XXX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

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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		SCALE 1=1		
				.XXX	±.005	TITLE EXTERNAL WIRING DIAGRAM 3 PHASE W/O PROTECTOR		REF FIG.2—51	
				.XXXX	±.0005	MAT'L. DECAL — 004014		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 04/12/02		CAD FILE 00501001ME		SIZE	DRAWING NO.	REV.
			DIST				A	005010—01ME	

CERTIFICATION DATA SHEET

Model#: 182TTFW16001 AA

WINDING#: T82102 R1 3

CONN. DIAGRAM: 005010.01ME

ASSEMBLY: F1 ONLY

OUTLINE: 035536-750

TYPICAL MOTOR PERFORMANCE DATA

HP	KW	SYNC. RPM	F.L. RPM	FRAME	ENCLOSURE	KVA CODE	DESIGN
3&2	2.24&1.49	3600	3510&2920	182T	TEFC	K	B

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&6.8/3. 4	ACROSS THE LINE	CONTINUOU S	F4	1.15/1.15	40	3300

FULL LOAD EFF: 86.5&85.5	3/4 LOAD EFF: 85.6	1/2 LOAD EFF: 82.5	GTD. EFF	ELEC. TYPE	NO LOAD AMPS
FULL LOAD PF: 83&79	3/4 LOAD PF: 77.3	1/2 LOAD PF: 66.5	83.8	SQ CAGE IND RUN	3.6 / 1.8

F.L. TORQUE	LOCKED ROTOR AMPS	L.R. TORQUE	B.D. TORQUE	F.L. RISE°C
4.5 LB-FT	66 / 33	11 LB-FT 244	18.2 LB-FT 404	45

SOUND PRESSURE @ 3 FT.	SOUND POWER	ROTOR WK^2	MAX. WK^2	SAFE STALL TIME	STARTS /HOUR	APPROX. MOTOR WGT
75 dBA	85 dBA	0.23 LB-FT^2	11 LB-FT^2	15 SEC.	2	60 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

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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 03:26:11 AM

FORM 3531 REV.3 02/07/99

** Subject to change without notice.

Data Sheet

Date: 6/19/2017

Customer: _____

Attention: _____

Submitted by: FAREEDA DUDEKULA



182TTFW16001

Submittal

Data @ 460 V

Motor Load Data

Load	0%	25%	50%	75%	100%	115%	125%	LR	
Current (Amps)	1.80	2.10	2.60	3.2	3.9	4.5	4.7	33.0	
Torque (ft-lb)	0.00	1.10	2.20	3.3	4.5	5.2	5.6	11.0	
RPM	3600	3579	3559	3539	3510	3,500	3492	0	
Efficiency (%)		72.5	82.5	85.6	86.5	85.1	86.7		
P.F. (%)	13.5	46.6	66.5	77.3	83.0	85.4	85.8	49.0	

Motor Speed Data

	LR	Pull-Up	BD	Rated	Idle	Information Block	
Speed (RPM)	0	186	2800	3510	3600	HP	3.0
Current (Amps)	33.0	32.5	21.7	3.9	1.80	Sync. RPM	3600
Torque (ft-lb)	11.0	11.0	18.2	4.5	0.00	Frame	180
		Enclosure		TEFC		Construction	TFW
		Voltage		30/460#190/381V		Frequency	60 Hz
		Design		B		LR Code letter	K
		Service Factor		1.15		Temp Rise @ FL	45 ° C
		Duty		CONT		Ambient	40 ° C
		Elevation		1,000 feet		Rotor/Shaft wk²	0.23 Lb-Ft²
		Ref Wdg		T82102 R1		Sound Pressure @ 1M	75 dBA
		VFD Rating		NONE		Outline Dwg	035536-750
		Conn. Diag		005010.01ME		Additional Specifications:	
		0				0	
		EQUIV CKT (OHMS / PHASE)				R1	R2
						X1	X2
						Xm	
						1.7780	2.0150
						7.3220	2.4500
						167.4420	

Speed -Torque Curve

