

PRODUCT INFORMATION PACKET

marathon®
Motors

Model No: 184TTFW16020

Catalog No: E2137

XRI® General Purpose General Purpose Motor, 5 HP, 3 Ph, 60 Hz, 575 V, 3600 RPM, 184T Frame, TEFC



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RegalRexnord

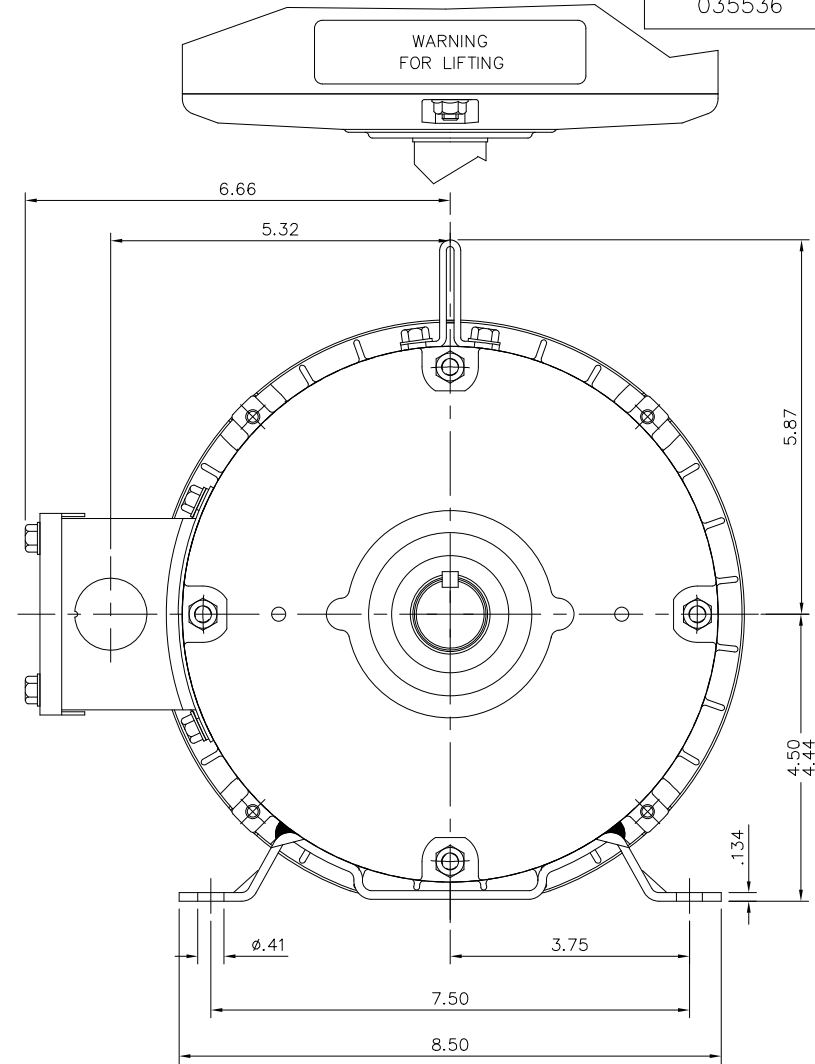
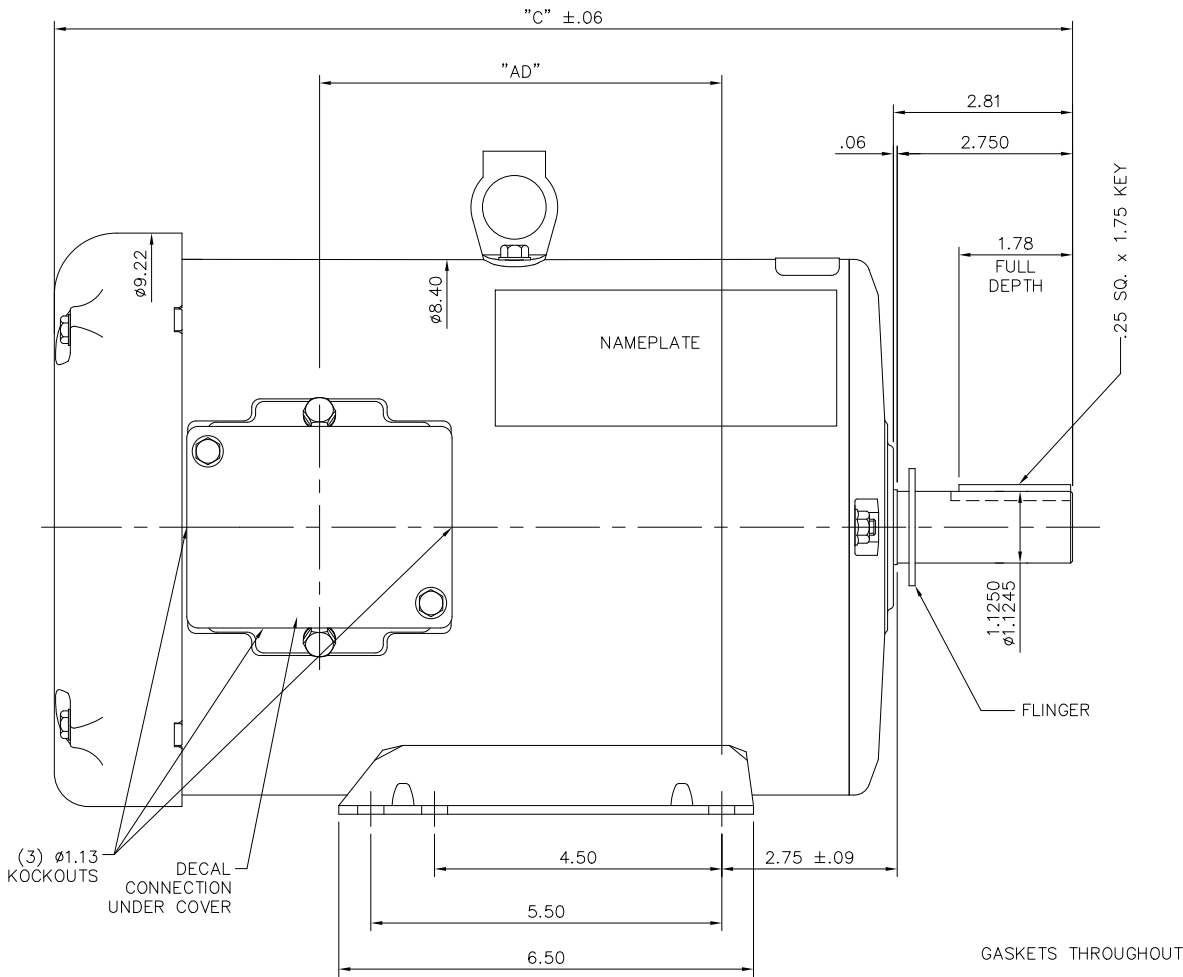
Nameplate Specifications

Phase	3	Output HP	5 Hp
Output KW	3.7 kW	Voltage	575 V
Speed	3495 rpm	Service Factor	1.15
Frame	184T	Enclosure	Totally Enclosed Fan Cooled
Thermal Protection	No Protection	Efficiency	88.5 %
Ambient Temperature	40 °C	Frequency	60 Hz
Current	4.8 A	Power Factor	89.5
Duty	Continuous	Insulation Class	F
Design Code	B	KVA Code	J
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
Mounting	Rigid Base	Motor Orientation	Horizontal
Drive End Bearing	Ball	Opp Drive End Bearing	Ball
Frame Material	Rolled Steel	Shaft Type	T
Overall Length	14.97 in	Frame Length	9.50 in
Shaft Diameter	1.125 in	Shaft Extension	2.81 in
Assembly/Box Mounting	F1 Only	Inverter Load	CONSTANT 10:1
Outline Drawing	035536-950	Connection Drawing	005102.01ME

035536

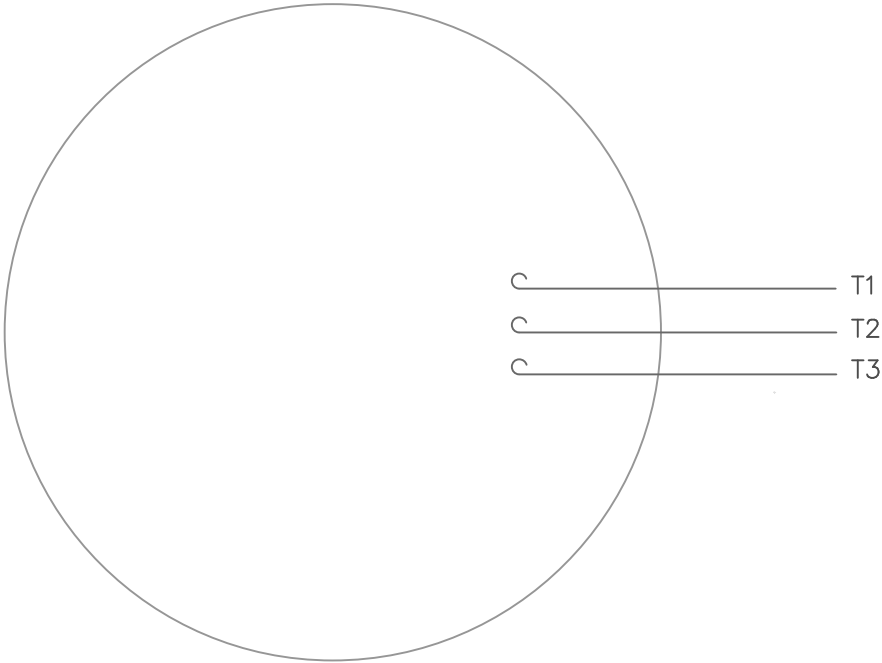


DASH NO.	"C"	"AD"
750	12.97	3.37
800	13.47	3.87
850	13.97	4.37
900	14.47	4.87
950	14.97	5.37
1000	15.47	5.87
1050	15.97	6.37
1100	16.47	6.87
1150	16.97	7.37

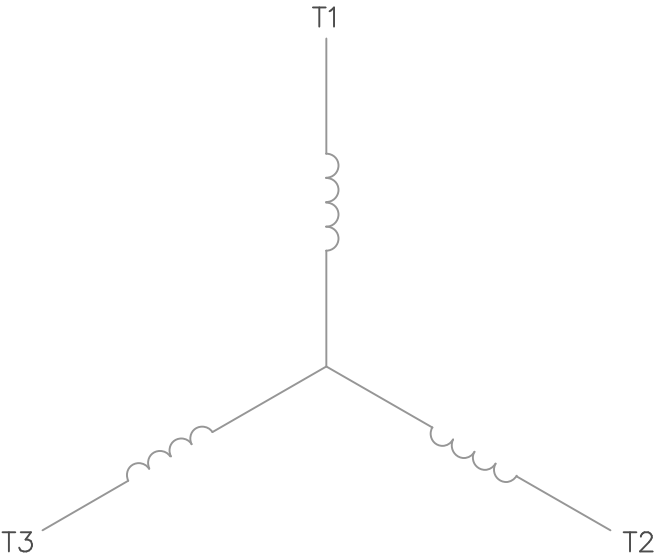
ORACLE REV
003

				TOLERANCES UNLESS SPECIFIED		MARATHON ELECTRIC	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

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 A	DRAWING NO. 005102-01ME	REV.
			DIST						

CERTIFICATION DATA SHEET

Model#: 184TTFW16020 AA

WINDING#: T82103 R1 4

CONN. DIAGRAM: 005102.01ME

ASSEMBLY: F1 ONLY

OUTLINE: 035536-950

TYPICAL MOTOR PERFORMANCE DATA

HP	KW	SYNC. RPM	F.L. RPM	FRAME	ENCLOSURE	KVA CODE	DESIGN
5	3.7	3600	3495	184T	TEFC	J	B

PH	Hz	VOLTS	FL AMPS	START TYPE	DUTY	INSL	S.F	AMB°C	ELEVATION
3	60	575	4.8	LINE OR INVERTER	CONTINUOUS	F4	1.15	40	3300

FULL LOAD EFF: 88.5	3/4 LOAD EFF: 89.1	1/2 LOAD EFF: 87.9	GTD. EFF	ELEC. TYPE	NO LOAD AMPS
FULL LOAD PF: 89.5	3/4 LOAD PF: 87.5	1/2 LOAD PF: 81.1	86.2	SQ CAGE INV RATED	1.4

F.L. TORQUE	LOCKED ROTOR AMPS	L.R. TORQUE	B.D. TORQUE	F.L. RISE°C
7.5 LB-FT	36.8	16 LB-FT 213	26 LB-FT 347	55

SOUND PRESSURE @ 3 FT.	SOUND POWER	ROTOR WK^2	MAX. WK^2	SAFE STALL TIME	STARTS /HOUR	APPROX. MOTOR WGT
75 dBA	85 dBA	0.3 LB-FT^2	13 LB-FT^2	15 SEC.	2	125 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	AINI 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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DATE: 06/28/2017 07:31:33 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



184TTFW16020

Submittal

Data @ 575 V

Motor Load Data

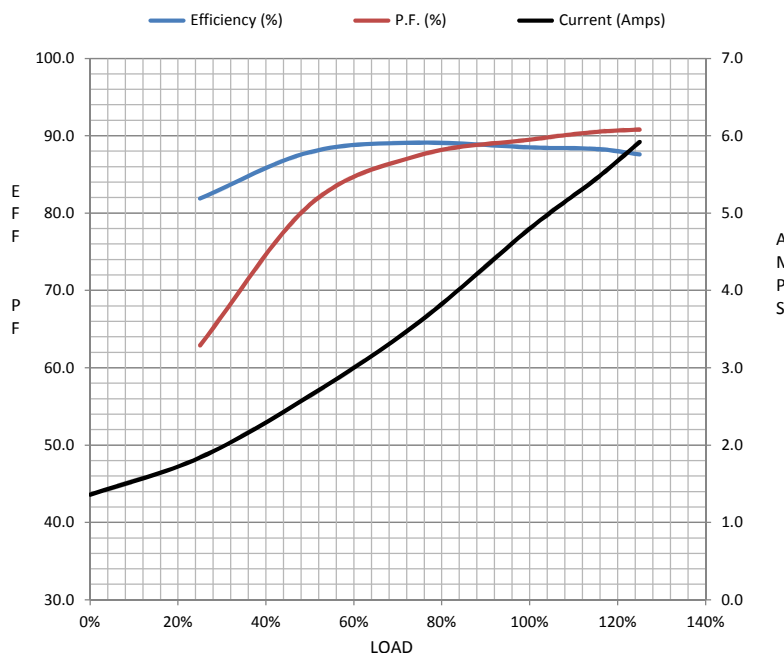
Load	0%	25%	50%	75%	100%	115%	125%	LR	
Current (Amps)	1.36	1.84	2.64	3.6	4.8	5.4	5.9	36.8	
Torque (ft-lb)	0.00	1.80	3.7	5.6	7.5	8.7	9.5	16.0	
RPM	3600	3576	3551	3526	3495	3,477	3463	0	
Efficiency (%)		81.9	87.9	89.1	88.5	88.3	87.6		
P.F. (%)	12.5	62.9	81.1	87.5	89.5	90.5	90.8	45.5	

Motor Speed Data

	LR	Pull-Up	BD	Rated	Idle
Speed (RPM)	0	170	2850	3495	3600
Current (Amps)	36.8	37.6	24.0	4.8	1.36
Torque (ft-lb)	16.0	15.5	26.0	7.5	0.00

Information Block

HP	5.0			
Sync. RPM	3600			
Frame	180			
Enclosure	TEFC			
Construction	TFW			
Voltage	575 V			
Frequency	60 Hz			
Design	B			
LR Code letter	J			
Service Factor	1.15			
Temp Rise @ FL	55 ° C			
Duty	CONT			
Ambient	40 ° C			
Elevation	1,000 feet			
Rotor/Shaft wk ²	0.30 Lb-Ft ²			
Ref Wdg	T82103 R1			
Sound Pressure @ 1M	75 dBA			
VFD Rating	CONSTANT 10:1			
Outline Dwg	035536-950			
Conn. Diag	005102.01ME			
Additional Specifications:				
0				
365THFS8036				
EQUIV CKT (OHMS / PHASE)				
R1	R2	X1	X2	Xm
2.1740	1.7660	7.5170	2.8840	195.2500



Speed -Torque Curve

