

# PRODUCT INFORMATION PACKET

**marathon®**  
Motors

Model No: 080T17FH5326  
Catalog No: R310  
3/4,1800,TEFC,80,3/60/230/460  
TEFC



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**REGAL**



## Nameplate Specifications

Output HP	0.75 Hp	Output KW	0.56 kW
Frequency	60 Hz	Voltage	230/460 V
Current	2.5/1.3 A	Speed	1690 rpm
Service Factor	1.15	Phase	3
Efficiency	74 %	Duty	Continuous
Insulation Class	F	Design Code	B
KVA Code	H	Frame	80
Enclosure	Totally Enclosed Fan Cooled	Overload Protector	No
Ambient Temperature	40 °C	Drive End Bearing Size	6204
Opp Drive End Bearing Size	6204	UL	Recognized
CSA	Y	CE	Y
IP Code	55		

## Technical Specifications

Electrical Type	Squirrel Cage Inverter Rated	Starting Method	Line Or Inverter
Poles	4	Rotation	Reversible
Mounting	Rigid base	Motor Orientation	Horizontal
Drive End Bearing	Ball	Opp Drive End Bearing	Ball
Frame Material	Aluminum	Shaft Type	IEC
Overall Length	11.1 in	Shaft Diameter	0.750 in
Shaft Extension	1.57 in	Assembly/Box Mounting	F3
Outline Drawing	16986100ME	Connection Diagram	00546501ME

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Technical drawing of a motor assembly. The drawing includes the following dimensions and labels:

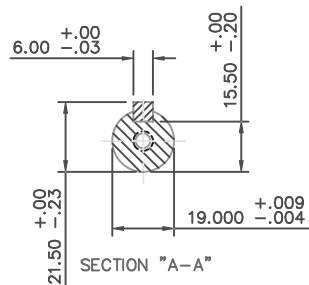
- Top width: 89
- Top width (reference): 83 REF.
- Left side width: 25
- Left side width (reference):  $A^{19}$
- Left side width (reference):  $A^{19}$
- Left side width: 2
- Left side width: 4
- Left side width:  $40.00 \pm 3.1$
- Left side width:  $50.0 \pm 1.5$
- Center width:  $100.0 \pm 7$
- Bottom width: 125
- Bottom width: 282
- Label: NAME PLATE
- Label: M6-1.0
- Label: R.H. THR


Technical drawing of a motor with dimensions and a callout for the PG-16 thread and cap plug.

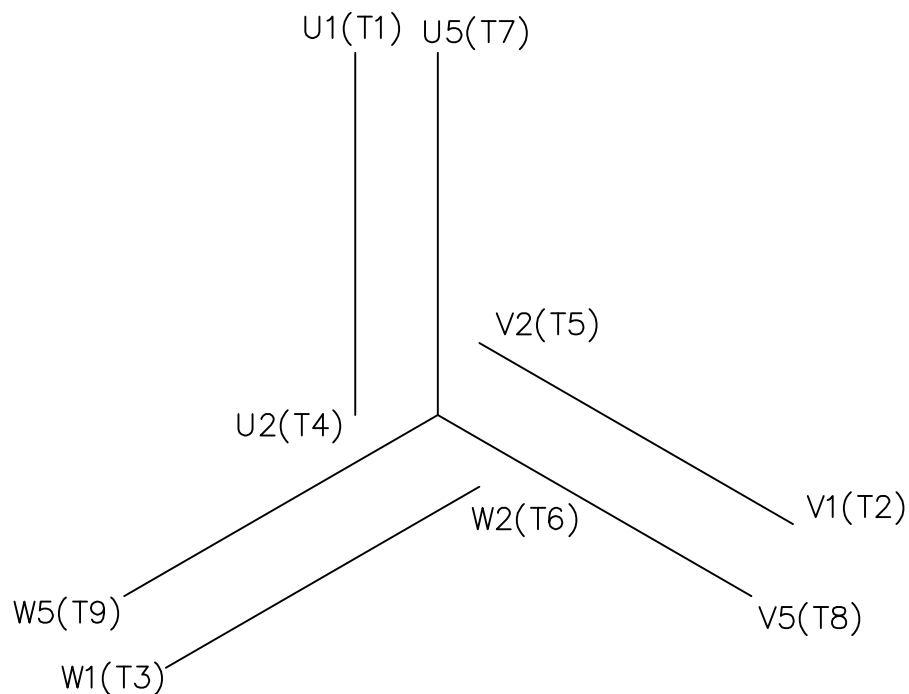
Dimensions:

- Top width: 159
- Top width (inner): 89
- Right side height (top section): 102
- Right side height (middle section): 74.5
- Right side height (bottom section): 8.5
- Right side height (total): 206.50
- Bottom width (left section): 32
- Bottom width (middle section): 63
- Bottom width (right section): 14
- Bottom width (total): 125
- Bottom width (overall): 154
- Bottom height (total): 80.0  $\pm 0.5$

Callout: PG-16 THREAD AND CAP PLUG



					TOLERANCES UNLESS SPECIFIED		DRAWN RDW 2/4/04		
				DEC.	METRIC		CHK		
				.X	±2.5		APPD SW 2/4/04		
				.XX	±.76		SCALE 1=1.5		
				.XXX	±.127		REF OSVC-300-582		
				.XXXX	±.0127		FMF		
NO.	REVISION	BY & DATE	CHK	ANG ±7°30"	FINISH	ALUMINUM	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	16986100ME	SIZE B	DRAWING NO. 169861-OOME	REV
				DIST					



REF. DECAL (IEC) 080644  
REF. DECAL (NEMA) 080446

## IEC MARKINGS

LOW VOLTAGE				HIGH VOLTAGE			
LINE VOLTAGE	L1	L2	L3	JOIN			
TERMINAL	U1	V1	W1	W2	U2	V2	
LOW	U1, U5	V1, V5	W1, W5	---	U2, V2, W2	---	
HIGH	U1	V1	W1	U2, U5	V2, V5	W2, W5	

## NEMA MARKINGS

LOW VOLTAGE				HIGH VOLTAGE			
LINE VOLTAGE	L1	L2	L3	JOIN			
TERMINAL	U1	V1	W1	W2	U2	V2	
LOW	T1, T7	T2, T8	T3, T9	---	T4, T5, T6	---	
HIGH	T1	T2	T3	T4, T7	T5, T8	T6, T9	

TOLERANCES  
UNLESS SPECIFIED

DEC. INCHES

.X ±.1

.XX ±.01

.XXX ±.005

.XXXX ±.0005

ANG ±1/2°



TITLE EXTERNAL WIRING DIAGRAM  
3 PHASE - DUAL VOLTAGE - W/TERM BLOCK

MAT'L. IEC/NEMA MARKINGS

FINISH

DRAWN JGO 3/10/04

CHK SB 02-17-2010

APPD MJS 02-17-2010

SCALE 1=1

REF

FMF

PREV

NO.

REVISION

BY &amp; DATE

CHK

ANG

±1/2°

FINISH

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RFP 02-17-2010

DIST

CAD FILE 00546501ME

SIZE

A

DRAWING NO.

005465ME-01

REV.

## CERTIFICATION DATA SHEET

**Model#:** 80T17FH5326 A      **WINDING#:** QT8041 FR 3  
**CONN. DIAGRAM:** 00546501ME      **ASSEMBLY:** F3  
**OUTLINE:** 16986100ME

## TYPICAL MOTOR PERFORMANCE DATA

HP	KW	SYNC. RPM	F.L. RPM	FRAME	ENCLOSURE	KVA CODE	DESIGN
3/4&3/4	.56&.56	1800	1690&1390	80	TEFC	H	B

PH	Hz	VOLTS	FL AMPS	START TYPE	DUTY	INSL	S.F	AMB°C	ELEVATION
3	60/50	230/460#200/400	2.5/1.25&2.9/1.45	LINE OR INVERTER	CONTINUOUS	F5	1.15/1.15	40	3300

FULL LOAD EFF: 74	3/4 LOAD EFF: -	1/2 LOAD EFF: -	GTD. EFF	ELEC. TYPE	NO LOAD AMPS
FULL LOAD PF: 76	3/4 LOAD PF: -	1/2 LOAD PF: -	-	SQ CAGE INV RATED	/

F.L. TORQUE	LOCKED ROTOR AMPS	L.R. TORQUE	B.D. TORQUE	F.L. RISE°C
- LB-FT	13.8 / 6.9	5.85 LB-FT 260	6.1 LB-FT 271	37

SOUND PRESSURE @ 3 FT.	SOUND POWER	ROTOR WK^2	MAX. WK^2	SAFE STALL TIME	STARTS /HOUR	APPROX. MOTOR WGT
- dBA	- dBA	0 LB-FT^2	- LB-FT^2	- SEC.	-	- 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						
6204	6204	POLYREX EM	STANDARD IEC	NONE	NONE	AISI 1045 (C-240)	ALUMINUM

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 20:1 INV. HP SPEED RANGE: 1.5 X BASE SPEED		
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 03:56:17 AM  
 FORM 3531 REV.3 02/07/99  
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