

# PRODUCT INFORMATION PACKET

**marathon®**  
Motors

Model No: 256TTFC6081

Catalog No: E006

10 HP General Purpose Motor, 3 phase, 1200 RPM, 575 V, 256T Frame, TEFC  
General Purpose Motors



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**RegalRexnord**

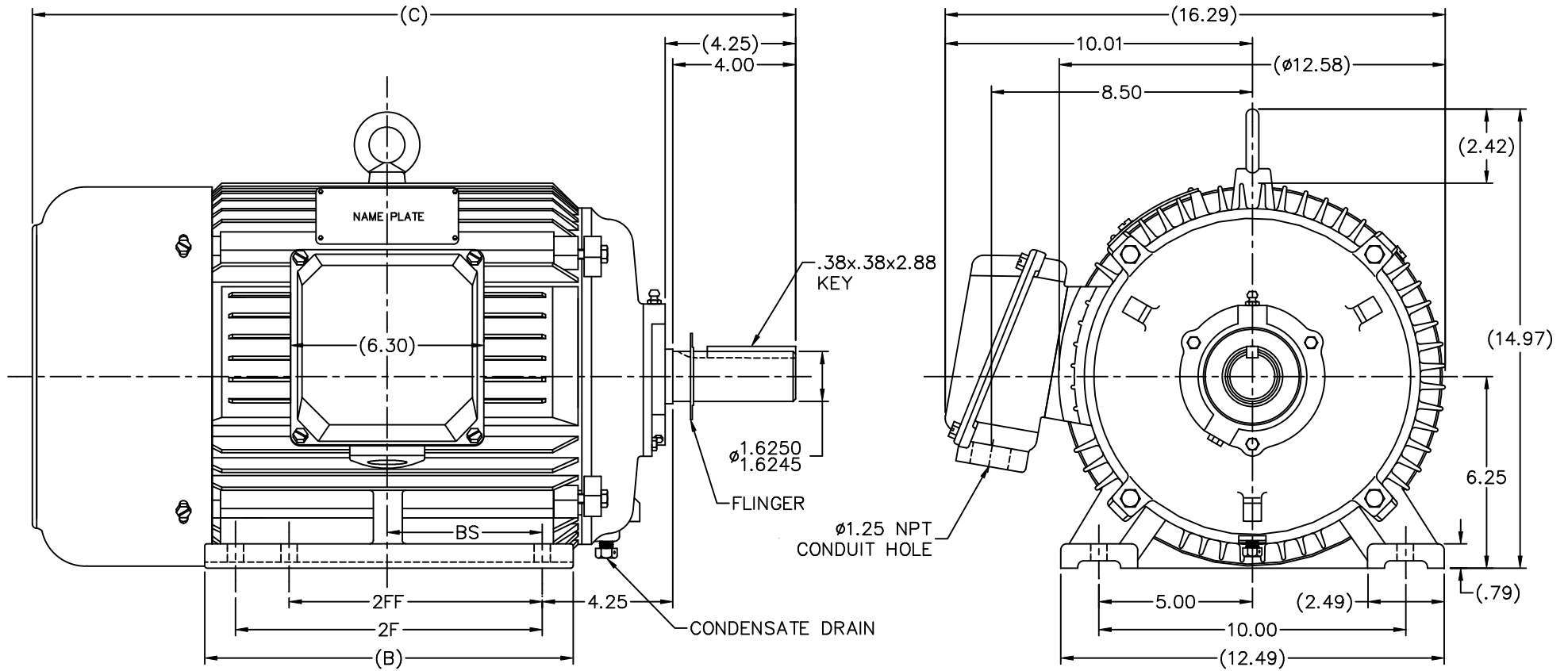
**Nameplate Specifications**

Output HP	10 Hp	Output KW	7.5 kW
Frequency	60 Hz	Voltage	575 V
Current	11.2 A	Speed	1180 rpm
Service Factor	1.15	Phase	3
Efficiency	91 %	Power Factor	73
Duty	Continuous	Insulation Class	F
Design Code	B	KVA Code	H
Frame	256T	Enclosure	Totally Enclosed Fan Cooled
Thermal Protection	No	Ambient Temperature	40 °C
Drive End Bearing Size	6309	Opp Drive End Bearing Size	6308
UL	Recognized	CSA	Y
CE	Y	IP Code	43
Number of Speeds	1		


**Technical Specifications**

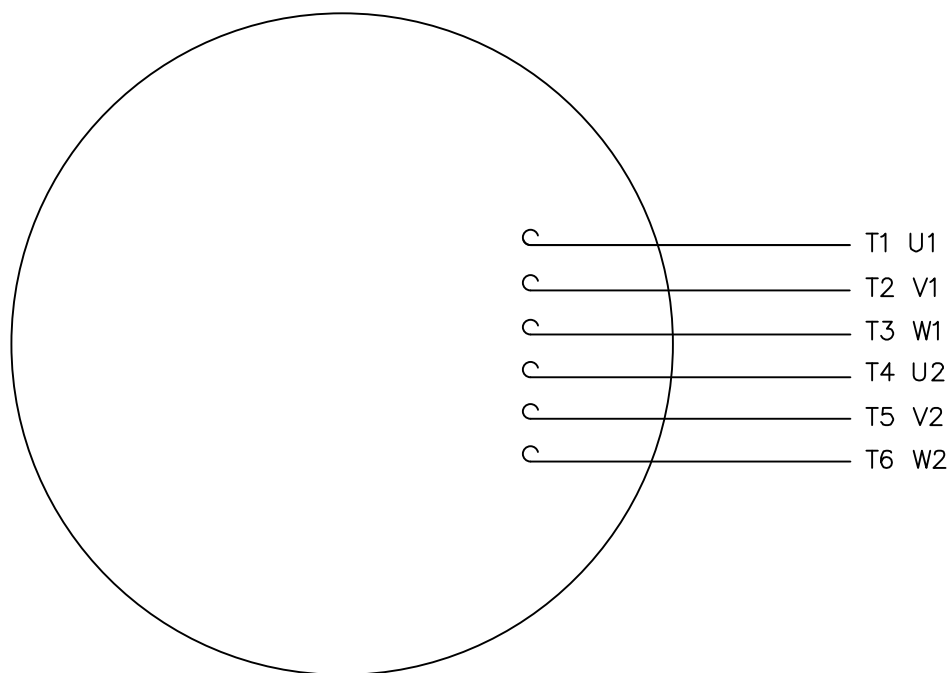
Electrical Type	Squirrel Cage Inverter Rated	Starting Method	Line Or Inverter
Poles	6	Rotation	Reversible
Mounting	Rigid Base	Motor Orientation	Horizontal
Drive End Bearing	Ball	Opp Drive End Bearing	Ball
Frame Material	Cast Iron	Shaft Type	T
Overall Length	24.92 in	Shaft Diameter	1.625 in
Shaft Extension	4.25 in	Assembly/Box Mounting	F1/F2 Capable
Outline Drawing	16953860ME-256T	Connection Drawing	00519001ME

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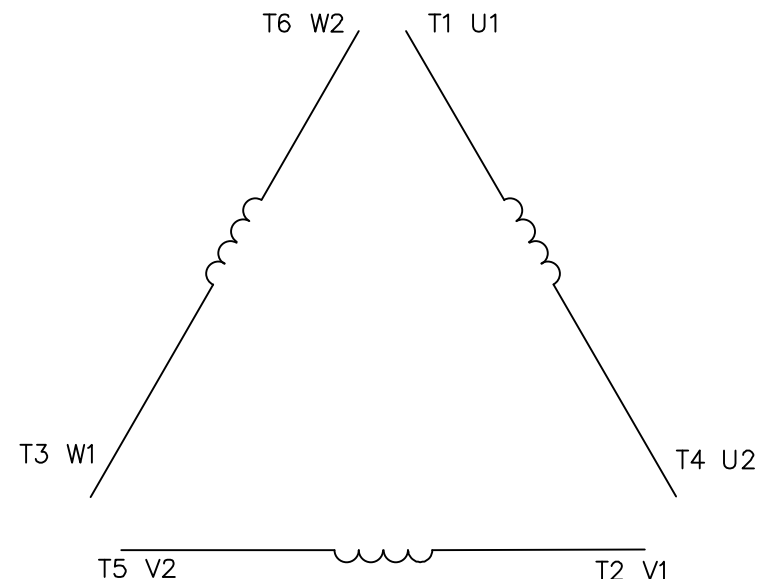


NOTE: 256T HAS 6 MTG. HOLES, USING BOTH 254T AND 256T "2F" LOCATIONS.


											TOLERANCES UNLESS SPECIFIED				DRAWN TJB 05-29-2003								
											DEC.	INCHES				CHK ML 05-29-2003							
											.X	±.1				APPD GK 05-29-2003							
											.XX	±.03		TITLE OUTLINE - RIGID 250 FR. - TEFC		SCALE 5=16							
											.XXX	±.005				REF							
DASH	FRAME	C	BS	B	2F	2FF	1	NEW DRAWING			TJB 05-29-2003	ML	.XXXX	±.0005		MAT'L							
1248	254T	23.19	6.24	3.94	--	8.25	NO.	REVISION			BY & DATE	CHK	ANG	±7°30"		FINISH							
1398	256T	24.92	5.49	4.81	10.00	8.25	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 16953860ME		SIZE	DRAWING NO.	PAGE OF	REV.
												DIST	WA				B	169538-60ME		1			



## LINE LEADS



	L1	L2	L3	JOIN
START (WYE)	T1 U1	T2 V1	T3 U2	(T4,T5,T6) (U2,V2,W2)
RUN (DELTA)	(T1,T6) (U1,W2)	(T2,T4) (V1,U2)	(T3,T5) (W1,V2)	

				TOLERANCES UNLESS SPECIFIED		 <b>MARATHON ELECTRIC</b>	DRAWN PG 05/07/82		
				DEC.	INCHES		CHK		
				.X	±.1		APPD TEM 05/07/82		
03	ADDED IEC DESIGNATIONS	MOL 04/27/12	.XX	±.01	TITLE EXTERNAL WIRING DIAGRAM STAR START – DELTA RUN		SCALE 1=1		
02	REMOVED OBSOLETE STATUS	KJH 06/28/99	.XXX	±.005			REF		
01	REDRAWN ON CAD	DBT 05/30/97	.XXXX	±.0005	MAT'L. Y–CONNECTED START – DELTA CONNECTED RUN		FMF		
NO.	REVISION	BY & DATE	CHK	ANG	±1/2"	FINISH SINGLE VOLTAGE		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 00519001ME		SIZE	DRAWING NO.	REV.
			DIST				A	005190–01ME	03

## CERTIFICATION DATA SHEET

Model#: 256TTFC6081 AA  
 CONN. DIAGRAM: 00519001ME  
 OUTLINE: 169538.60ME

WINDING#: T12906025 NONE 4  
 ASSEMBLY: F1/F2 CAPABLE

## TYPICAL MOTOR PERFORMANCE DATA

HP	KW	SYNC. RPM	F.L. RPM	FRAME	ENCLOSURE	KVA CODE	DESIGN
10	7.50	1200	1180	256T	TEFC	H	B

PH	Hz	VOLTS	FL AMPS	START TYPE	DUTY	INSL	S.F	AMB°C	ELEVATION
3	60	575	11.2	LINE OR INVERTER	CONTINUOUS	F2	1.15/1.15	40	3300

FULL LOAD EFF: 91	3/4 LOAD EFF: 91	1/2 LOAD EFF: 90.2	GTD. EFF	ELEC. TYPE	NO LOAD AMPS
FULL LOAD PF: 73	3/4 LOAD PF: 67	1/2 LOAD PF: 55	90.2	SQ CAGE INV RATED	6

F.L. TORQUE	LOCKED ROTOR AMPS	L.R. TORQUE	B.D. TORQUE	F.L. RISE°C
44.4 LB-FT	62.4	94 LB-FT 211	124 LB-FT 278	35

SOUND PRESSURE @ 3 FT.	SOUND POWER	ROTOR WK^2	MAX. WK^2	SAFE STALL TIME	STARTS /HOUR	APPROX. MOTOR WGT
60 dBA	70 dBA	3.559 LB-FT^2	- LB-FT^2	15 SEC.	2	- 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						
6309	6308	POLYREX EM	T	NONE	NONE	1045 HOT ROLLED (C-204)	CAST IRON

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: 06/23/2017 06:45:23 AM  
 FORM 3531 REV.3 02/07/99  
 \*\* Subject to change without notice.

## Data Sheet

Date: 21-06-2017

Customer:

Attention:

Submitted by: FAREEDA DUDEKULA

256TTFC6081



Submittal

Data @ 575 V

## Motor Load Data

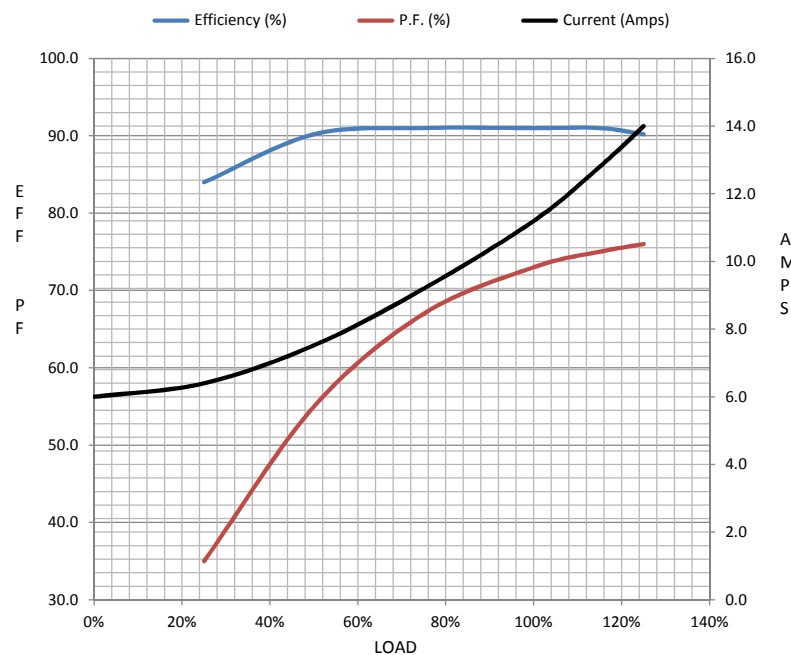
Load	0%	25%	50%	75%	100%	115%	125%	LR	
Current (Amps)	6.0	6.4	7.5	9.2	11.2	12.8	14.0	62.4	
Torque (ft-lb)	0.00	11.1	22.2	33.3	44.4	51.0	55.5	94.0	
RPM	1200	1196	1192	1188	1180	1,178	1176	0	
Efficiency (%)		84.0	90.2	91.0	91.0	91.0	90.2		
P.F. (%)	5.0	35.0	55.0	67.0	73.0	75.0	76.0	40.0	

## Motor Speed Data

	LR	Pull-Up	BD	Rated	Idle
Speed (RPM)	0	600	1125	1180	1200
Current (Amps)	62.4	59.2	36.0	11.2	6.0
Torque (ft-lb)	94.0	85.0	124	44.4	0.00

## Information Block

HP	10.0			
Sync. RPM	1200			
Frame	256			
Enclosure	TEFC			
Construction	TFC			
Voltage	575 V			
Frequency	60 Hz			
Design	B			
LR Code letter	H			
Service Factor	1.15			
Temp Rise @ FL	35 ° C			
Duty	CONT			
Ambient	40 ° C			
Elevation	1,000 feet			
Rotor/Shaft wk <sup>2</sup>	3.6 Lb-Ft <sup>2</sup>			
Ref Wdg	T12906025 NONE			
Sound Pressure @ 1M	60 dBA			
VFD Rating	CONSTANT 20:1			
Outline Dwg	169538.60ME			
Conn. Diag	00519001ME			
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

