

# PRODUCT INFORMATION PACKET

marathon®  
Motors

Model No: 256TTDC6076

Catalog No: U255

General Purpose Motor, 10 & 10 HP, 3 Ph, 60 & 50 Hz, 208-230/460 & 200/400 V, 1200 & 1000 RPM,  
256T Frame, DP



Regal and Marathon are trademarks of Regal Rexnord Corporation or one of its affiliated companies.

©2023 Regal Rexnord Corporation, All Rights Reserved. MC017097E

RegalRexnord

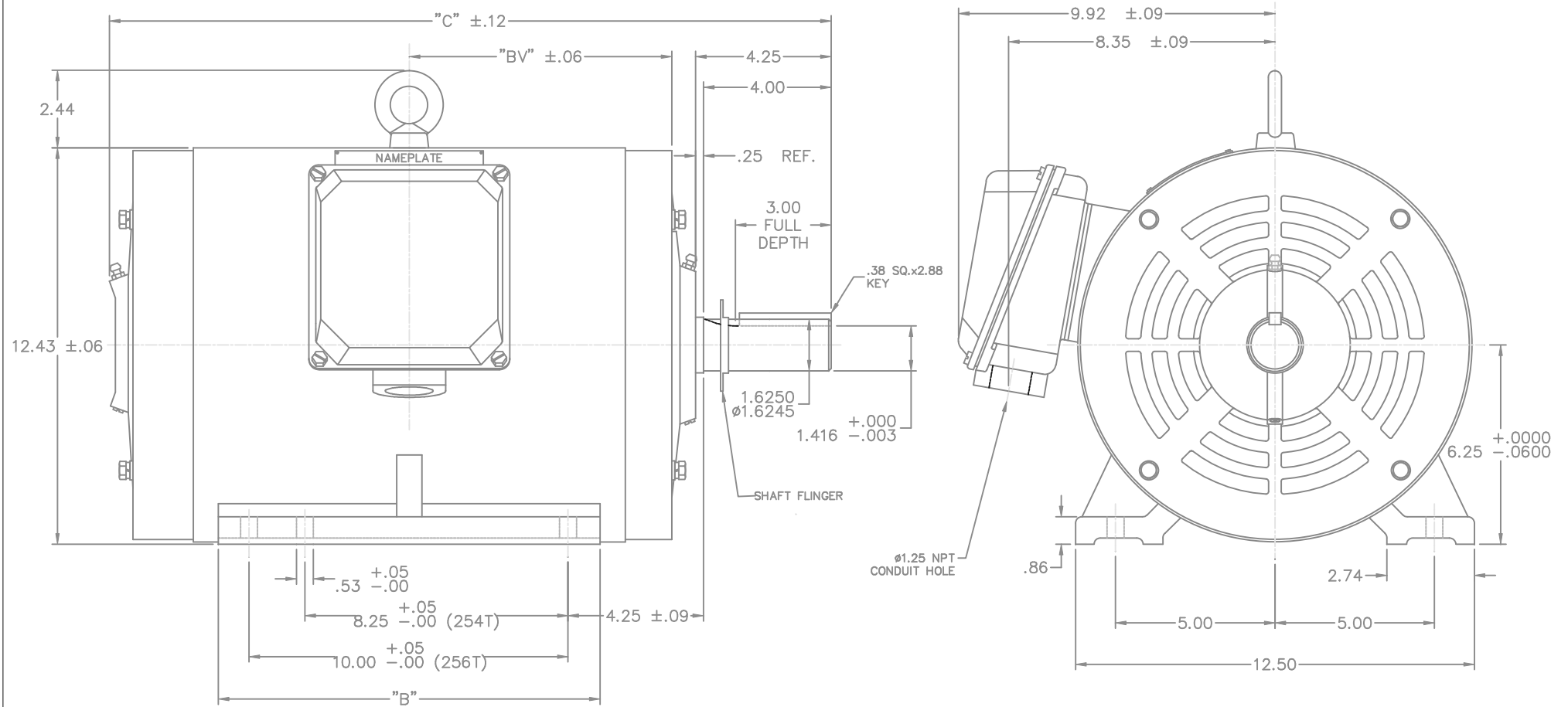
### Nameplate Specifications

Phase	<b>3</b>	Output HP	<b>10 &amp; 10 Hp</b>
Output KW	<b>7.5 &amp; 7.5 kW</b>	Voltage	<b>208-230/460 &amp; 200/400 V</b>
Speed	<b>1185 &amp; 980 rpm</b>	Service Factor	<b>1.15 &amp; 1.15</b>
Frame	<b>256T</b>	Enclosure	<b>Drip Proof</b>
Thermal Protection	<b>No Protection</b>	Efficiency	<b>91.7 %</b>
Ambient Temperature	<b>40 °C</b>	Frequency	<b>60 &amp; 50 Hz</b>
Current	<b>31-29.6/14.8 &amp; 34/17 A</b>	Power Factor	<b>68.8</b>
Duty	<b>Continuous</b>	Insulation Class	<b>F</b>
Design Code	<b>B</b>	KVA Code	<b>G</b>
Drive End Bearing Size	<b>6309</b>	Opp Drive End Bearing Size	<b>6208</b>
UL	<b>Recognized</b>	CSA	<b>Y</b>
CE	<b>N</b>	IP Code	<b>22</b>
Number of Speeds	<b>1</b>		

### Technical Specifications

Electrical Type	<b>Squirrel Cage Induction Run</b>	Starting Method	<b>Across The Line</b>
Poles	<b>6</b>	Rotation	<b>Reversible</b>
Mounting	<b>Rigid Base</b>	Motor Orientation	<b>Horizontal</b>
Drive End Bearing	<b>Ball</b>	Opp Drive End Bearing	<b>Ball</b>
Frame Material	<b>Cast Iron</b>	Shaft Type	<b>T</b>
Overall Length	<b>22.60 in</b>	Shaft Diameter	<b>1.630 in</b>
Shaft Extension	<b>4.25 in</b>	Assembly/Box Mounting	<b>F1 ONLY</b>
Connection Drawing	<b>004172-01ME</b>	Outline Drawing	<b>16955160ME-256T</b>

This is an uncontrolled document once printed or downloaded and is subject to change without notice. Date Created:06/22/2023



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

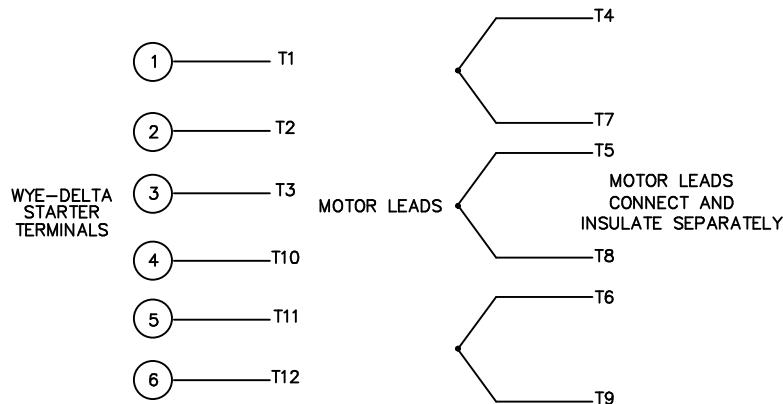
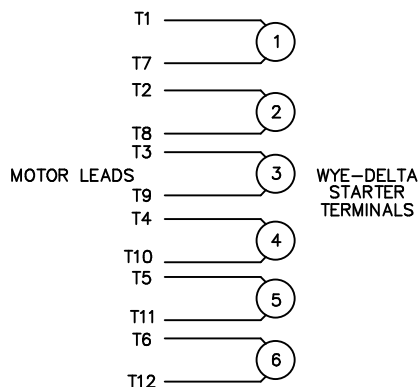
FRAME	"C"	"BV"	"B"
254T	20.94	8.23	10.25
256T	22.60	9.06	12.00

		TOLERANCES UNLESS SPECIFIED		MARATHON ELECTRIC		DRAWN CTO 04-23-2002	
		DEC.	INCHES			CHK	ML 05-20-2002
		.X	±.1			APPD	SB 05-21-2002
		.XX	±.03	TITLE		SCALE 1=1.125	
		.XXX	±.005	ODP, RIGID MOUNT, NEW CON-BOX		REF	
		.XXXX	±.0005	MAT'L		FMF	
1 NEW DRAWING		CTO	05/21/02	FINISH		PREV	
NO. REVISION		BY & DATE		CHK	ANG	±1/2'	
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	16955160me	SIZE
				DIST			DRAWING NO.
						B	169551-60ME
							REV.
							1

WYE - DELTA STARTING USEABLE ON 2, 4 AND 6 POLE MOTORS.

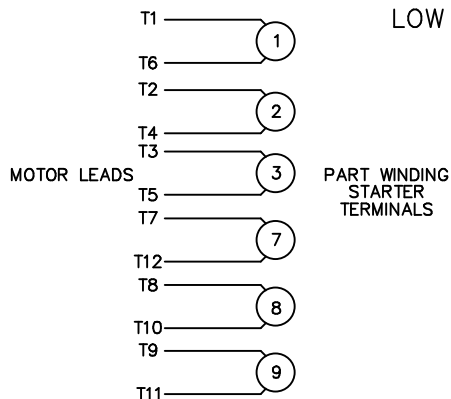
LOW VOLTAGE CONNECTION

HIGH VOLTAGE CONNECTION



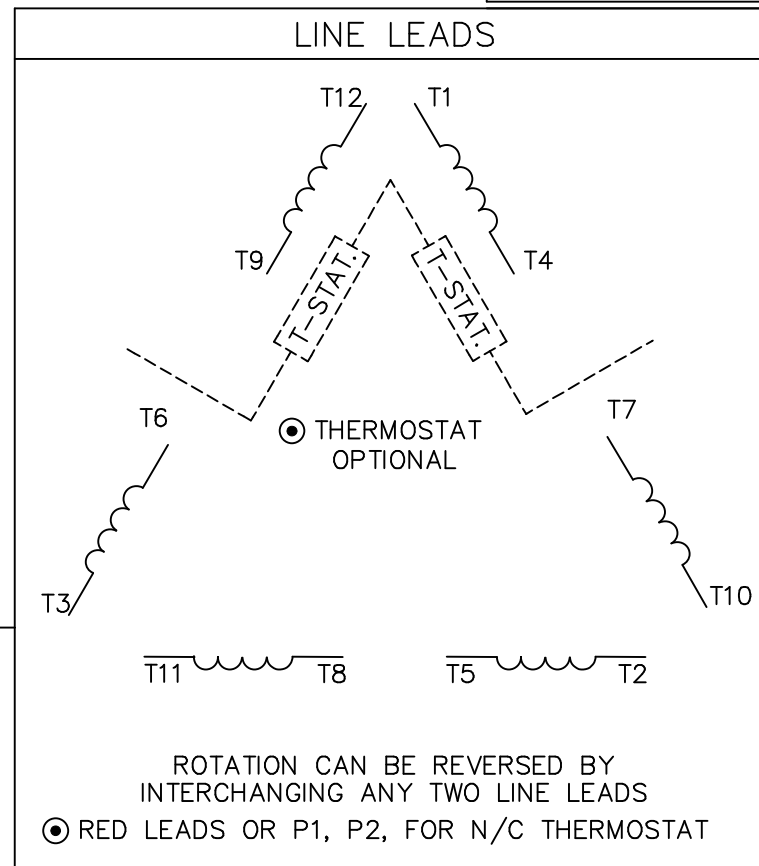
REFER TO THE WYE-DELTA STARTER CONNECTION INSTRUCTIONS FOR PROPER CONNECTION OF POWER LINES TO STARTER.

PART WINDING START USABLE ON 4 & 6 POLE MOTORS  
LOW VOLTAGE CONNECTION ONLY



REFER TO THE PART WINDING STARTER INSTRUCTIONS FOR PROPER CONNECTION OF POWER LINES TO STARTER.

REFER TO THE CUTLER-HAMMER OR EQUIV. FOR PROPER SELECTION OF OVERLOAD HEATER COILS.



ROTATION CAN BE REVERSED BY INTERCHANGING ANY TWO LINE LEADS  
● RED LEADS OR P1, P2, FOR N/C THERMOSTAT

ACROSS THE LINE START & RUN

	LINE 1	LINE 2	LINE 3	JOIN & INSULATE SEPARATELY
HIGH VOLT	T1, T12	T2, T10	T3, T11	(T4, T7) (T5, T8) (T6, T9)
LOW VOLT	T1, T6 T7, T12	T2, T4 T8, T10	T3, T5 T9, T11	

TOLERANCES UNLESS SPECIFIED

DEC.	INCHES
.X	±.1
.XX	±.02
.XXX	±.005
.XXXX	±.0005
ANG	±7'30"



TITLE DELTA - WYE CONNECTION DIAGRAM

DRAWN	RJW 07-19-2007
CHK	ML 07-19-2007
APPD	GK 07-19-2007
SCALE	1=1
REF	MU61151
FMF	
PREV	

NO.	REVISION	BY & DATE	CHK	ANG

RFP	07-19-2007	CAD FILE	004172-01ME	SIZE	A	DRAWING NO.	004172-01ME	PAGE	1 OF 1	REV.	
DIST	LB										

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

**CERTIFICATION DATA SHEET**

**Model#:** 256TTDC6076 AA  
**CONN. DIAGRAM:** 004172-01ME  
**OUTLINE:** 169551-60ME

**WINDING#:** T12906008 NONE 3  
**ASSEMBLY:** F1 ONLY

**TYPICAL MOTOR PERFORMANCE DATA**

HP	KW	SYNC. RPM	F.L. RPM	FRAME	ENCLOSURE	KVA CODE	DESIGN
10&10	7.50&7.50	1200	1185&980	256T	DP	G	B

PH	Hz	VOLTS	FL AMPS	START TYPE	DUTY	INSL	S.F	AMB°C	ELEVATION
3	60/50	208- 230/460#200/ 400	31- 29.6/14.8&34/ 17	ACROSS THE LINE	CONTINUOU S	F2	1.15/1.15	40	3300

FULL LOAD EFF: 91.7&90.2	3/4 LOAD EFF: 92.3	1/2 LOAD EFF: 90.7	GTD. EFF	ELEC. TYPE	NO LOAD AMPS
FULL LOAD PF: 68.8&70	3/4 LOAD PF: 62.5	1/2 LOAD PF: 51.6	91	SQ CAGE IND RUN	14.8 / 7.4

F.L. TORQUE	LOCKED ROTOR AMPS	L.R. TORQUE	B.D. TORQUE	F.L. RISE°C
44.4 LB-FT	154 / 77	75 LB-FT 169	136 LB-FT 306	35

SOUND PRESSURE @ 3 FT.	SOUND POWER	ROTOR WK^2	MAX. WK^2	SAFE STALL TIME	STARTS /HOUR	APPROX. MOTOR WGT
67 dBA	77 dBA	- LB-FT^2	- LB-FT^2	- SEC.	-	305 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	POLYREX EM	T	NONE	NONE	1045 HOT ROLLED (C-204)	CAST IRON
6309	6208						

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

\*  
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: 06/23/2017 05:03:25 AM  
 FORM 3531 REV.3 02/07/99

\*\* Subject to change without notice.

Data Sheet

256TTDC6076

Date: 12/14/2018  
 Customer: \_\_\_\_\_  
 Attention: \_\_\_\_\_  
 Submitted by: FAREEDA DUDEKULA



Submittal

Data @ 460 V

Motor Load Data

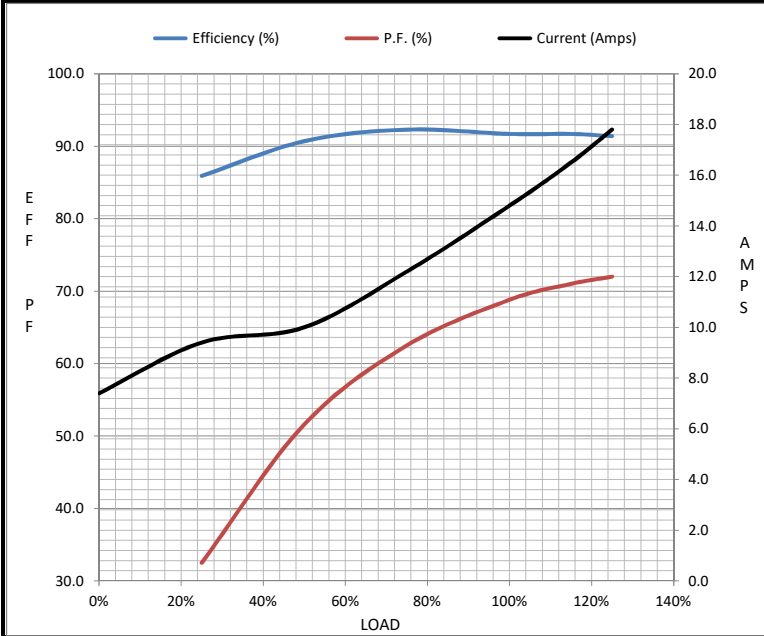
Load	0%	25%	50%	75%	100%	115%	125%	LR
Current (Amps)	7.4	9.4	10.0	12.2	14.8	16.5	17.8	77.0
Torque (ft-lb)	0.00	11.1	22.2	33.3	44.4	51.1	55.6	75.0
RPM	1200	1196	1192	1189	1185	1,182	1180	0
Efficiency (%)		85.9	90.7	92.3	91.7	91.7	91.4	
P.F. (%)	4.7	32.5	51.6	62.5	68.8	71.0	72.0	0.0

Motor Speed Data

	LR	Pull-Up	BD	Rated	Idle
Speed (RPM)	0	600	1100	1185	1200
Current (Amps)	77.0	69.0	49.0	14.8	7.4
Torque (ft-lb)	75.0	68.0	136	44.4	0.00

Information Block

HP	10.0			
Sync. RPM	1200			
Frame	256			
Enclosure	DP			
Construction	TDS			
Voltage	208-230/460#200/400 V			
Frequency	60 Hz			
Design	B			
LR Code letter	G			
Service Factor	1.15			
Temp Rise @ FL	35 °C			
Duty	CONT			
Ambient	40 °C			
Elevation	1,000 feet			
Rotor/Shaft wk <sup>2</sup>	0.00 Lb-Ft <sup>2</sup>			
Ref Wdg	T12906008 NONE			
Sound Pressure @ 1M	67 dBA			
VFD Rating	NONE			
Outline Dwg	169551-60ME			
Conn. Diag	004172-01ME			
Additional Specifications:				
0				
0				
EQUIV CKT (OHMS / PHASE)				
R1	R2	X1	X2	Xm
0.0000	0.0000	0.0000	0.0000	0.0000



Speed -Torque Curve

