

# PRODUCT INFORMATION PACKET

**marathon®**  
Motors

Model No: 254TTFC6027

Catalog No: U647B

XRI® General Purpose General Purpose Motor, 15 & 10 HP, 3 Ph, 60 & 50 Hz, 208-230/460 & 190/380 V,  
1800 & 1500 RPM, 254T Frame, TEFC



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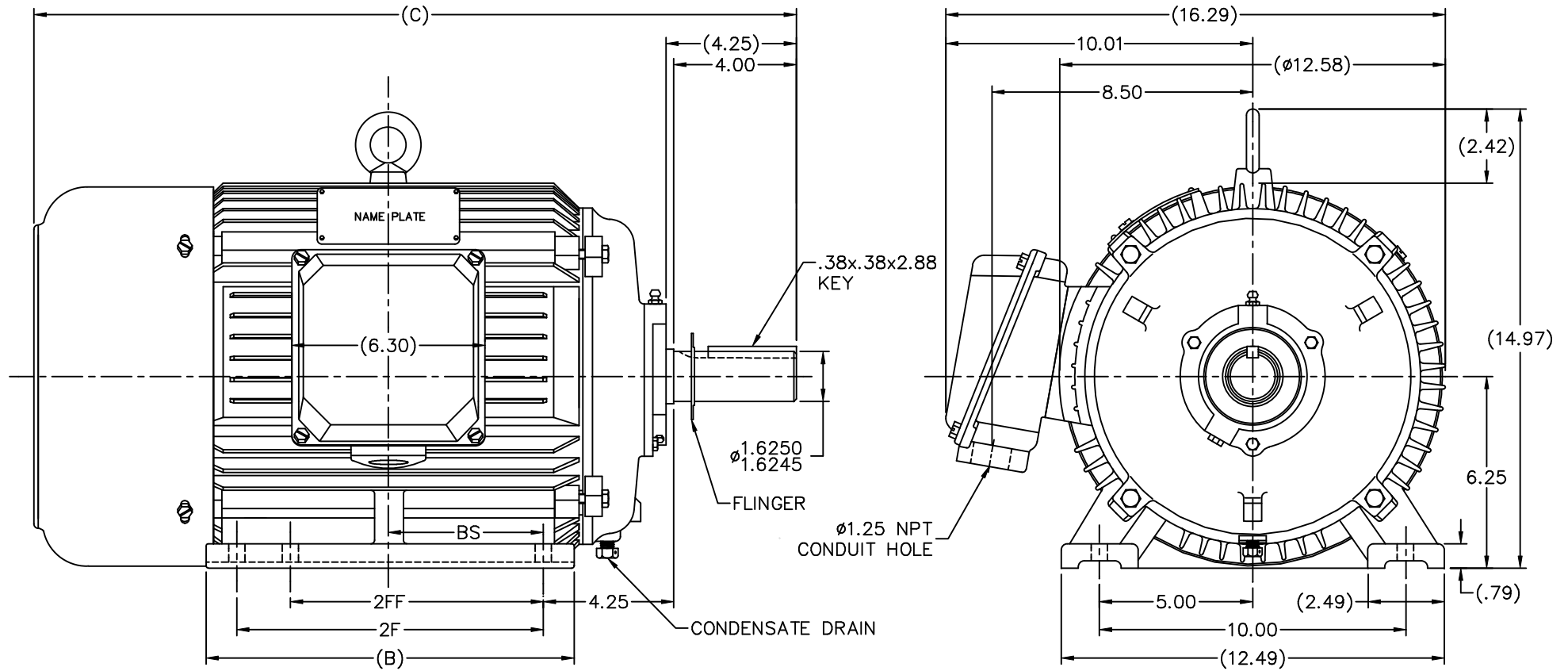
**RegalRexnord**

## Nameplate Specifications

Phase	3	Output HP	15 & 10 Hp
Output KW	11.2 & 7.5 kW	Voltage	208-230/460 & 190/380 V
Speed	1775 & 1480 rpm	Service Factor	1.15 & 1.15
Frame	254T	Enclosure	Totally Enclosed Fan Cooled
Thermal Protection	No Protection	Efficiency	92.4 & 92.4 %
Ambient Temperature	40 °C	Frequency	60 & 50 Hz
Current	39-37/18.5 & 30.5/15.3 A	Power Factor	82.5
Duty	Continuous	Insulation Class	F
Design Code	A	KVA Code	H
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 Induction Run	Starting Method	Across The Line
Poles	4	Rotation	Reversible
Resistance Main	.129 Ohms	Mounting	Rigid Base
Motor Orientation	Horizontal	Drive End Bearing	Ball
Opp Drive End Bearing	Ball	Frame Material	Cast Iron
Shaft Type	T	Overall Length	23.19 in
Shaft Diameter	1.625 in	Shaft Extension	4.25 in
Assembly/Box Mounting	F1/F2 Capable		
Connection Drawing	004172.03	Outline Drawing	16953860ME-254T

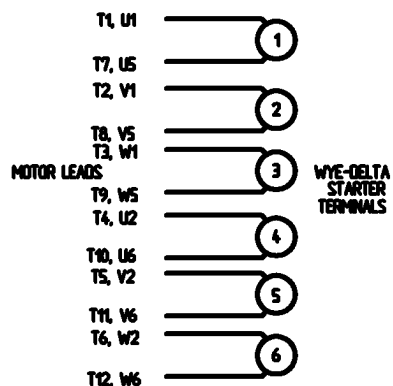


NOTE: 256T HAS 6 MTG. HOLES, USING BOTH 254T AND 256T "2F" LOCATIONS.

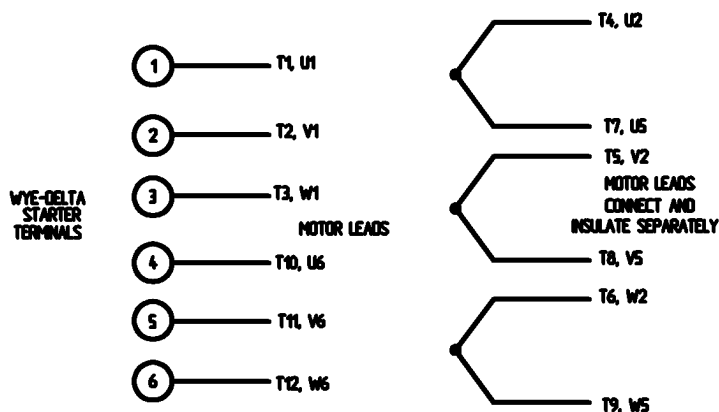
							TOLERANCES UNLESS SPECIFIED		MARATHON ELECTRIC	DRAWN TJB 05-29-2003			
							DEC.	INCHES		CHK	ML	05-29-2003	
							.X	±.1		APPD	GK	05-29-2003	
							.XX	±.03		SCALE 5=16			
							.XXX	±.005		REF			
							.XXX	±.0005		FMF			
							CHK	ANG	±7'30"	PREV			
							THIS DRAWING IN DESIGN AND DETAIL IS 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		
							DIST WA				CAD FILE 16953860ME		
							SIZE B				DRAWING NO. 169538-60ME		
							PAGE 1				REV.		

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.

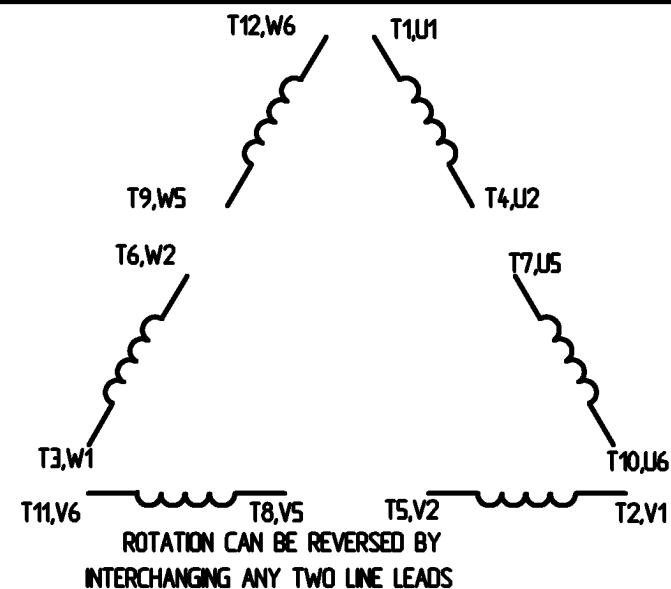
### PART WINDING START USABLE ON 4 & 6 POLE MOTORS LOW VOLTAGE CONNECTION ONLY



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.

### LINE LEADS



### 12 LEAD DELTA CONNECTION ACROSS THE LINE START (FOR Y START DELTA RUN, REMOVE THE JUMPERS)

LOW VOLTAGE  
(MUST BE REWIRED  
AS SHOWN)

HIGH VOLTAGE  
(FACTORY WIRED FOR HIGH  
VOLTAGE AS SHOWN)



				TOLERANCES UNLESS SPECIFIED		<div>LEESON</div>	ELECTRIC MOTORS GEARMOTORS AND DRIVES	DRAWN C/W 08/28/02	
				DEC.	INCHES			CHK	
				X	± .1			APPO	
				XX	± .01			SCALE	1:1
				XXX	± .005			REF	
				XXXX	± .0005			FMF	
NO.	REVISION	BY & DATE	CHK	ANG	± 1/2°	FINISH		PREV	
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				DST				A	004172-03
									REV.

ERROR: syntaxerror  
OFFENDING COMMAND: --nostringval--

STACK:

/CB  
-dictionary-  
/Pscript\_WinNT\_Compat  
-dictionary-

## CERTIFICATION DATA SHEET

Model#: 254TTFC6027 AA

WINDING#: T12904005 NONE 3

CONN. DIAGRAM: 004172.03

ASSEMBLY: F1/F2 CAPABLE

OUTLINE: 16953860ME

## TYPICAL MOTOR PERFORMANCE DATA

HP	KW	SYNC. RPM	F.L. RPM	FRAME	ENCLOSURE	KVA CODE	DESIGN
15&10	11.2&7.5	1800	1775&1480	254T	TEFC	H	A

PH	Hz	VOLTS	FL AMPS	START TYPE	DUTY	INSL	S.F	AMB°C	ELEVATION
3	60/50	208- 230/460#190/ 380	39- 37/18.5&30.5/ 15.3	ACROSS THE LINE	CONTINUOU S	F2	1.15/1.15	40	3300

FULL LOAD EFF: 92.4&92.4	3/4 LOAD EFF: 92.4	1/2 LOAD EFF: 91.7	GTD. EFF	ELEC. TYPE	NO LOAD AMPS
FULL LOAD PF: 82.5&80	3/4 LOAD PF: 78	1/2 LOAD PF: 67.5	-	SQ CAGE IND RUN	16 / 8

F.L. TORQUE	LOCKED ROTOR AMPS	L.R. TORQUE	B.D. TORQUE	F.L. RISE°C
44.6 LB-FT	280 / 140	126 LB-FT 284	154 LB-FT 347	45

SOUND PRESSURE @ 3 FT.	SOUND POWER	ROTOR WK^2	MAX. WK^2	SAFE STALL TIME	STARTS /HOUR	APPROX. MOTOR WGT
- dBA	- dBA	2.09 LB-FT^2	2.1 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	POLYREX EM	T	NONE	NONE	1045 HOT ROLLED (C-204)	CAST IRON
6309	6308						

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: 06/21/2017 10:54:22 AM  
FORM 3531 REV.3 02/07/99

\*\* Subject to change without notice.

## Data Sheet

Date: 20-06-2017

Customer:

Attention:

Submitted by: FAREEDA DUDEKULA



254TTC6027

Submittal

Data @ 460 V

## Motor Load Data

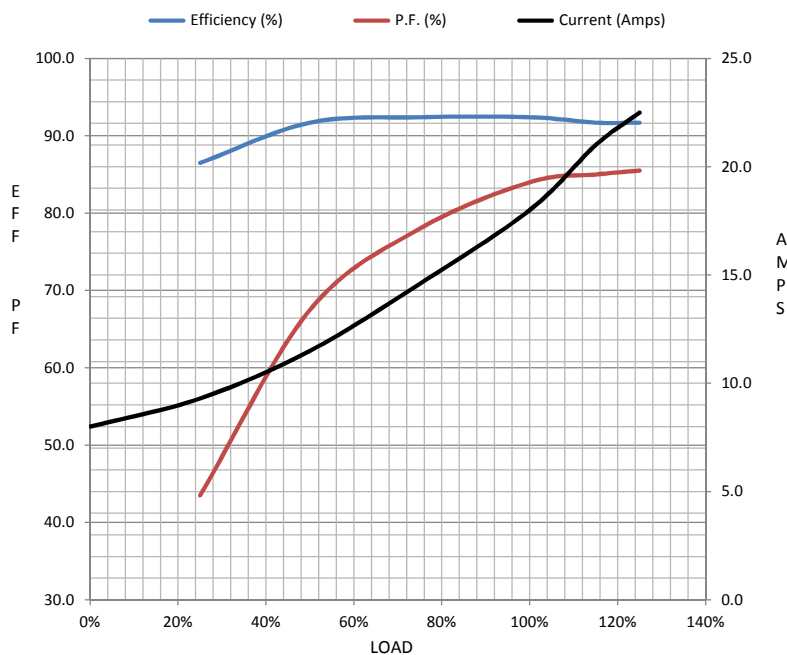
Load	0%	25%	50%	75%	100%	115%	125%	LR	
Current (Amps)	8.0	9.3	11.5	14.6	18.0	21.0	22.5	140	
Torque (ft-lb)	0.00	11.0	22.0	33.2	44.6	51.3	55.7	126	
RPM	1800	1794	1788	1780	1765	1,770	1765	0	
Efficiency (%)		86.5	91.7	92.4	92.4	91.7	91.7		
P.F. (%)	6.0	43.5	67.5	78.0	84.0	85.0	85.5	0.0	

## Motor Speed Data

	LR	Pull-Up	BD	Rated	Idle
Speed (RPM)	0	467	1620	1765	1800
Current (Amps)	140	130	79.5	18.0	8.0
Torque (ft-lb)	126	98.5	154	44.6	0.00

## Information Block

HP	15.0			
Sync. RPM	1800			
Frame	254			
Enclosure	TEFC			
Construction	TFC			
Voltage	3-230/460#190/ε V			
Frequency	60 Hz			
Design	A			
LR Code letter	H			
Service Factor	1.15			
Temp Rise @ FL	45 ° C			
Duty	CONT			
Ambient	40 ° C			
Elevation	1,000 feet			
Rotor/Shaft wk²	2.09 Lb-Ft²			
Ref Wdg	T12904005 NONE			
Sound Pressure @ 1M	999 dBA			
VFD Rating	NONE			
Outline Dwg	16953860ME			
Conn. Diag	004172.03			
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

