

# PRODUCT INFORMATION PACKET

Model No: 254TTFC6031

Catalog No: U648A

15 HP General Purpose Motor, 3 phase, 1800 RPM, 575 V, 254T Frame, TEFC  
General Purpose Motors



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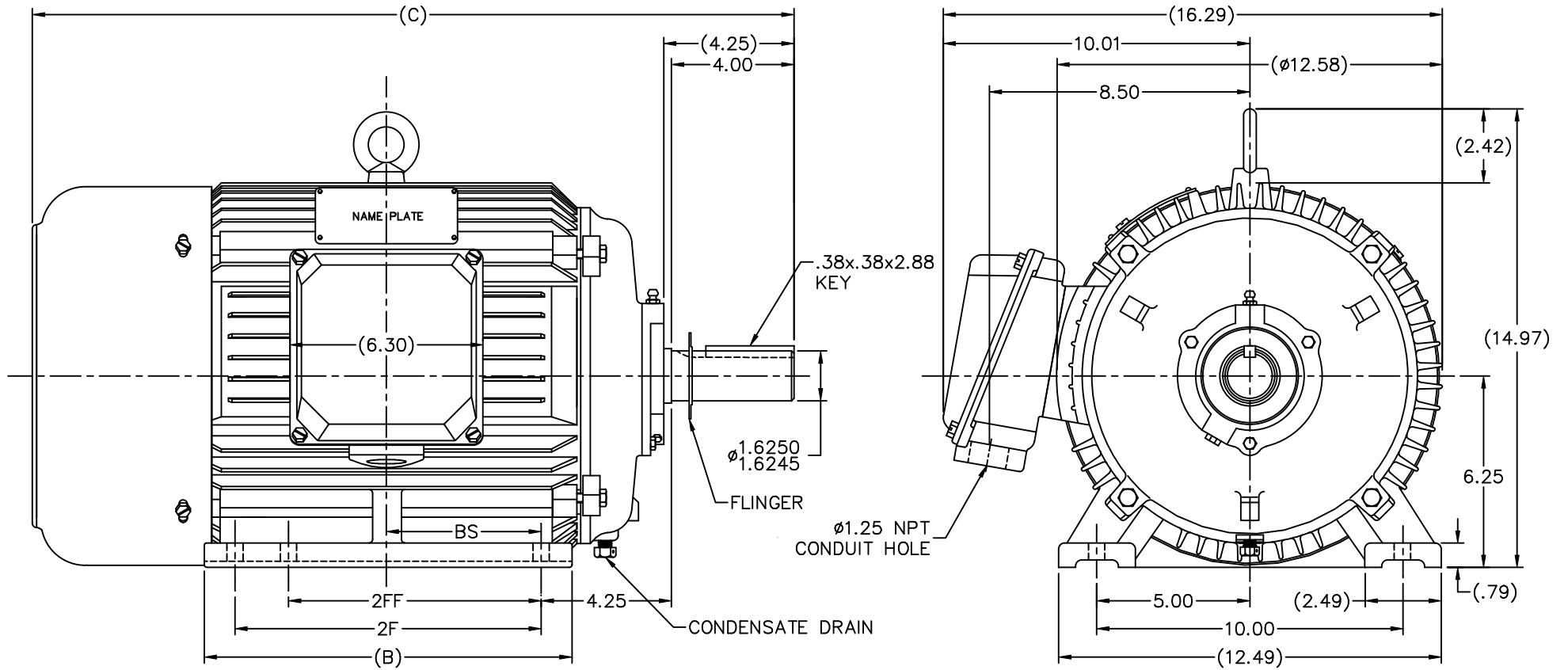
### Nameplate Specifications

Output HP	<b>15 Hp</b>	Output KW	<b>11.2 kW</b>
Frequency	<b>60 Hz</b>	Voltage	<b>575 V</b>
Current	<b>14.5 A</b>	Speed	<b>1775 rpm</b>
Service Factor	<b>1.15</b>	Phase	<b>3</b>
Efficiency	<b>92.4 %</b>	Power Factor	<b>82.5</b>
Duty	<b>Continuous</b>	Insulation Class	<b>F</b>
Design Code	<b>B</b>	KVA Code	<b>H</b>
Frame	<b>254T</b>	Enclosure	<b>Totally Enclosed Fan Cooled</b>
Thermal Protection	<b>No</b>	Ambient Temperature	<b>40 °C</b>
Drive End Bearing Size	<b>6309</b>	Opp Drive End Bearing Size	<b>6308</b>
UL	<b>Recognized</b>	CSA	<b>Y</b>
CE	<b>Y</b>	IP Code	<b>43</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>4</b>	Rotation	<b>Reversible</b>
Resistance Main	<b>.129 Ohms</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>23.19 in</b>
Shaft Diameter	<b>1.625 in</b>	Shaft Extension	<b>4.25 in</b>
Assembly/Box Mounting	<b>F1/F2 Capable</b>		
Connection Drawing	<b>00519001ME</b>	Outline Drawing	<b>16953860ME-254T</b>

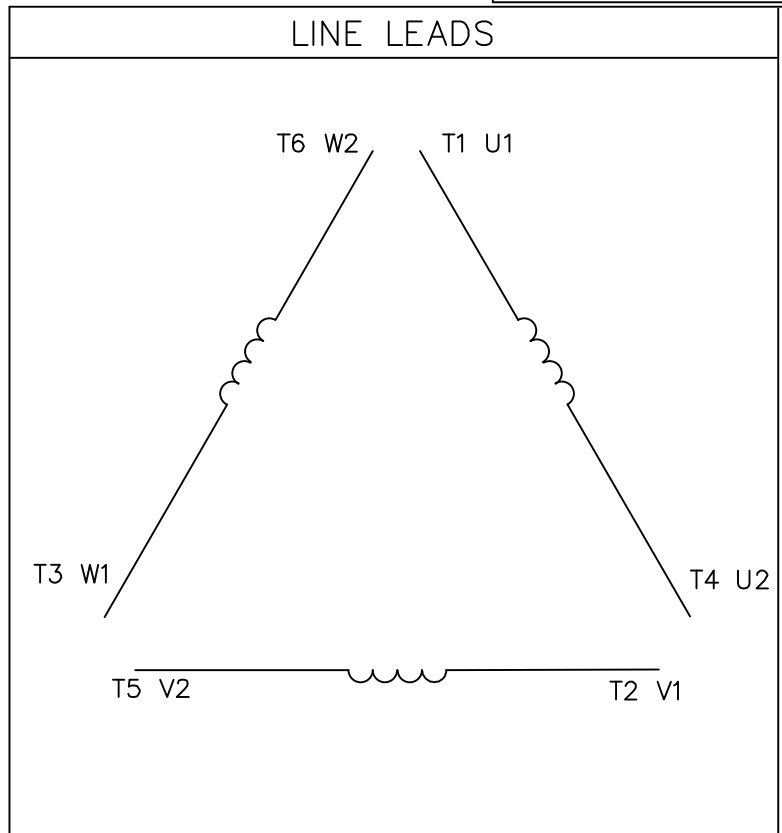
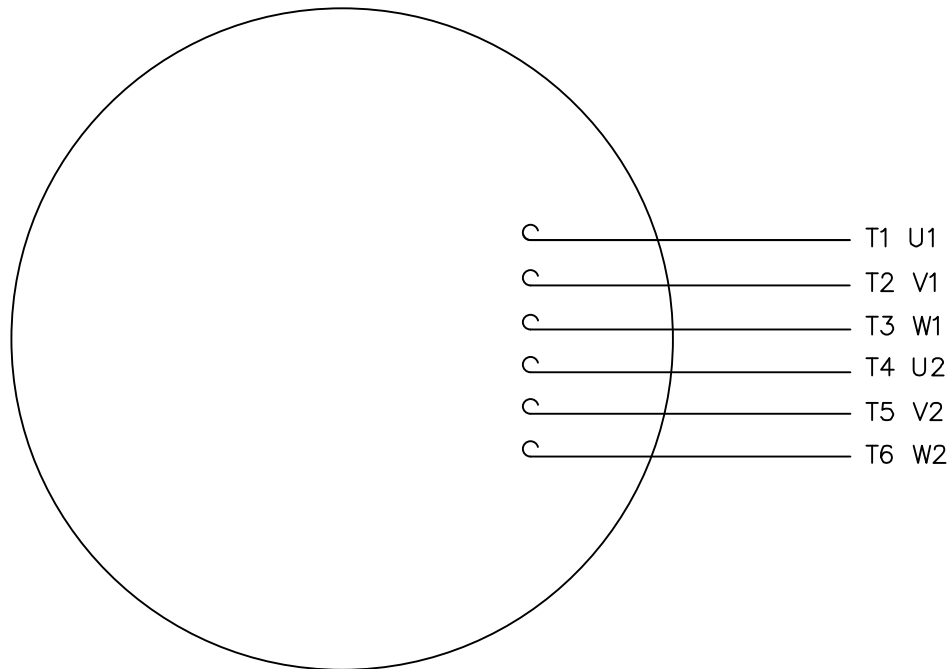
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NOTE: 256T HAS 6 MTG. HOLES, USING BOTH 254T AND 256T "2F" LOCATIONS.

DASH	FRAME	C	BS	B	2F	2FF
1248	254T	23.19	6.24	3.94	--	8.25
1398	256T	24.92	5.49	4.81	10.00	8.25

		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	TITLE OUTLINE - RIGID		SCALE 5=16	
		.XXX	±.005	250 FR. - TEFC		REF	
1	NEW DRAWING	TJB	05-29-2003	ML	.XXXX	±.0005	MAT'L
NO.		REVISION		BY & DATE		CHK	ANG ±7'30"
		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		FINISH
				DIST	WA	SIZE	DRAWING NO. PAGE OF REV.
						B	169538-60ME 1



	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				DRAWN PG 05/07/82	
				DEC.	INCHES			CHK	
				.X	±.1	TITLE EXTERNAL WIRING DIAGRAM STAR START - DELTA RUN		APPD TEM 05/07/82	
03	ADDED IEC DESIGNATIONS	MOL 04/27/12	.XX	±.01	MAT'L. Y-CONNECTED START - DELTA CONNECTED RUN			SCALE 1=1	
02	REMOVED OBSOLETE STATUS	KJH 06/28/99	.XXX	±.005			FINISH SINGLE VOLTAGE		REF
01	REDRAWN ON CAD	DBT 05/30/97	.XXXX	±.0005	NO. REVISION BY & DATE				FMP
				CHK			ANG	±1/2'	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#:** 254TTFC6031 AA      **WINDING#:** T12904005 NONE 4  
**CONN. DIAGRAM:** 00519001ME      **ASSEMBLY:** F1/F2 CAPABLE  
**OUTLINE:** 169538.60ME

**TYPICAL MOTOR PERFORMANCE DATA**

HP	KW	SYNC. RPM	F.L. RPM	FRAME	ENCLOSURE	KVA CODE	DESIGN			
15	11.2	1800	1775	254T	TEFC	H	B			
PH	Hz	VOLTS	FL AMPS	START TYPE	DUTY	INSL	S.F	AMB°C	ELEVATION	
3	60	575	14.5	ACROSS THE LINE	CONTINUOUS	F2	1.15	40	3300	
FULL LOAD EFF: 92.4		3/4 LOAD EFF: 93		1/2 LOAD EFF: 92.4		GTD. EFF		ELEC. TYPE		NO LOAD AMPS
FULL LOAD PF: 82.5		3/4 LOAD PF: 77.5		1/2 LOAD PF: 67		-		SQ CAGE IND RUN		6.3
F.L. TORQUE		LOCKED ROTOR AMPS		L.R. TORQUE		B.D. TORQUE		F.L. RISE°C		
44.5 LB-FT		102		110.4 LB-FT 247		134.1 LB-FT 300		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	POLYREX EM	T	NONE	NONE	1045 HOT ROLLED (C-204)	CAST IRON	
BALL	BALL							
6309	6308							
THERMO-PROTECTORS				THERMISTORS	CONTROL	SPACE /n HEATERS		
THERMOSTATS	PROTECTORS	WDG RTDs	BRG RTDs	NONE	FALSE	NONE VOLTS		
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 03:43:55 AM  
 FORM 3531 REV.3 02/07/99  
 \*\* Subject to change without notice.

**Data Sheet**

**Date:** 15-06-2017  
**Customer:** \_\_\_\_\_  
**Attention:** \_\_\_\_\_  
**Submitted by:** FAREEDA DUDEKULA



254TTC6031

**Submittal**

Data @ **575 V**

**Motor Load Data**

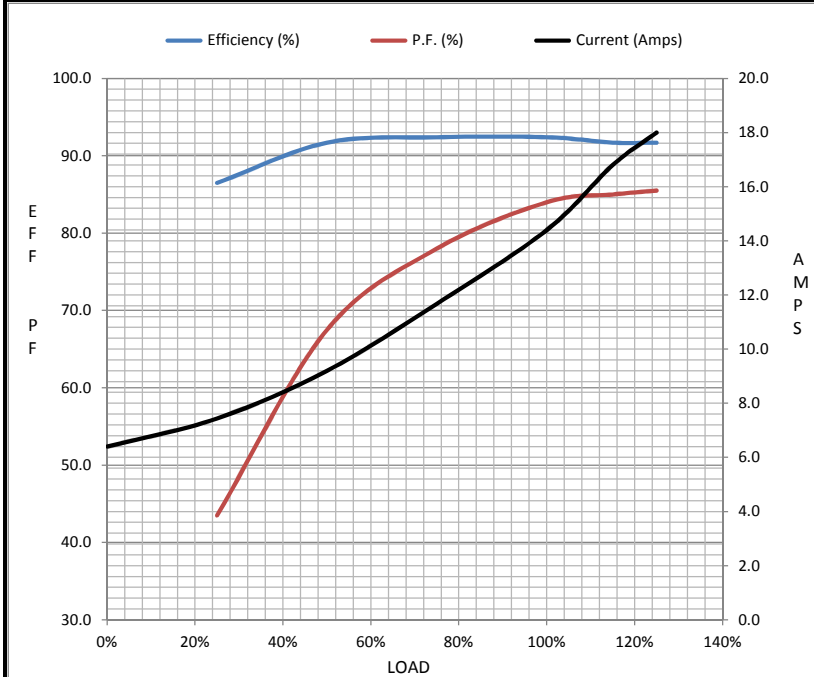
Load	0%	25%	50%	75%	100%	115%	125%	LR
Current (Amps)	6.4	7.4	9.2	11.7	14.4	16.8	18.0	112
Torque (ft-lb)	0.00	11.0	22.0	33.2	44.6	51.3	55.7	126
RPM	1800	1794	1788	1780	1765	1,770	1765	0
Efficiency (%)		86.5	91.7	92.4	92.4	91.7	91.7	
P.F. (%)	6.0	43.5	67.5	78.0	84.0	85.0	85.5	0.0

**Motor Speed Data**

	LR	Pull-Up	BD	Rated	Idle
Speed (RPM)	0	467	1620	1765	1800
Current (Amps)	112	104	63.6	14.4	6.4
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	575 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 wk <sup>2</sup>	2.09 Lb-Ft <sup>2</sup>			
Ref Wdg	T12904005 NONE			
Sound Pressure @ 1M	999 dBA			
VFD Rating	NONE			
Outline Dwg	169538.60ME			
Conn. Diag	5190.01ME			
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**

