PRODUCT INFORMATION PACKET

Model No: 254TTFC6006
Catalog No: U638A
15 HP General Purpose Motor, 3 phase, 3600 RPM, 575 V, 254T Frame, TEFC
General Purpose Motors

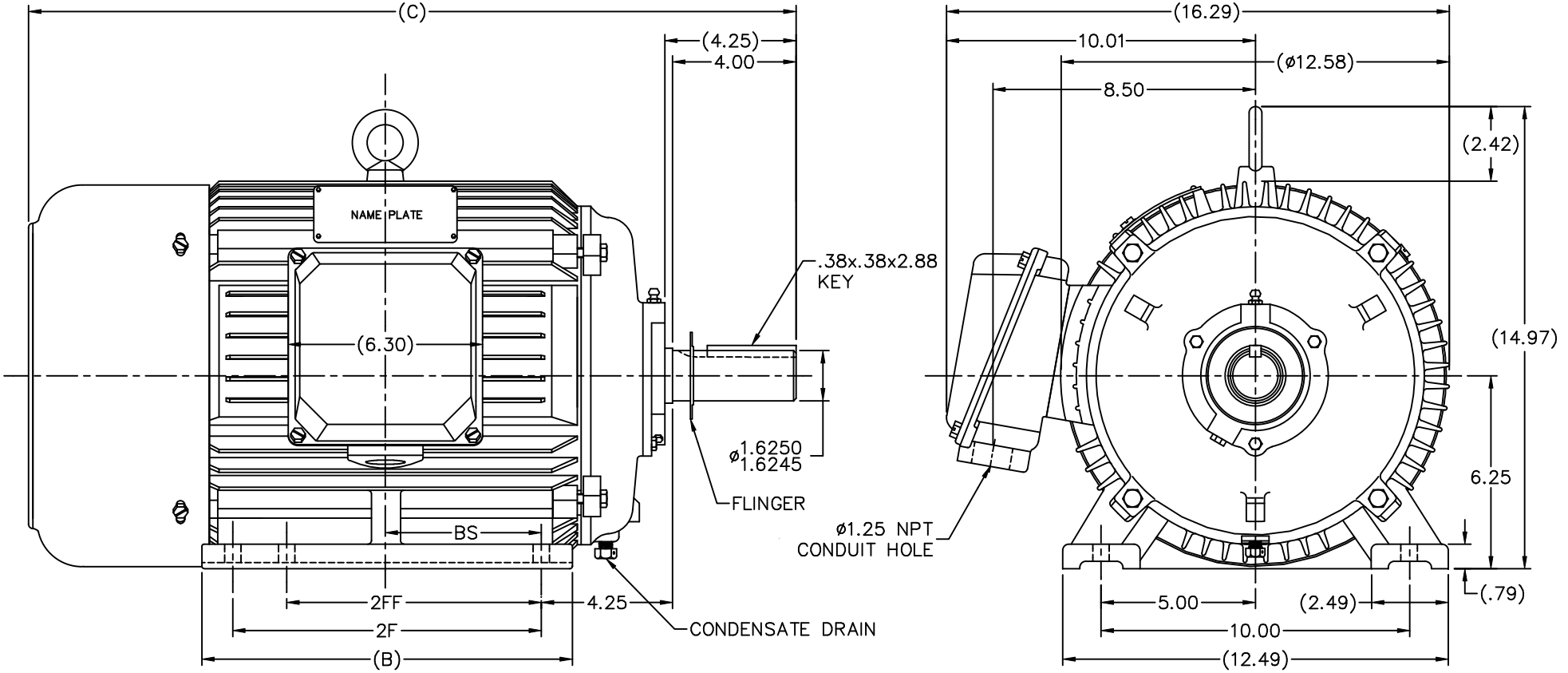
marathon® Motors

Nameplate Specifications

Output HP	**15 Hp**	Output KW	**11.2 kW**
Frequency	**60 Hz**	Voltage	**575 V**
Current	**13.8 A**	Speed	**3550 rpm**
Service Factor	**1.15**	Phase	**3**
Efficiency	**92.4 %**	Power Factor	**88.5**
Duty	**Continuous**	Insulation Class	**F**
Design Code	**B**	KVA Code	**G**
Frame	**254T**	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 Induction Run**	Starting Method	**Across The Line**
Poles	**2**	Rotation	**Reversible**
Resistance Main	**.107 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	**005190.01ME**	Outline Drawing	**16953860ME-254T**



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

NO.	REVISION	BY & DATE	CHK
1	NEW DRAWING	TJB 05-29-2003	ML

TOLERANCES UNLESS SPECIFIED

DEC.	INCHES
.X	±.1
.XX	±.03
.XXX	±.005
.XXXX	±.0005
ANG	±7'30"

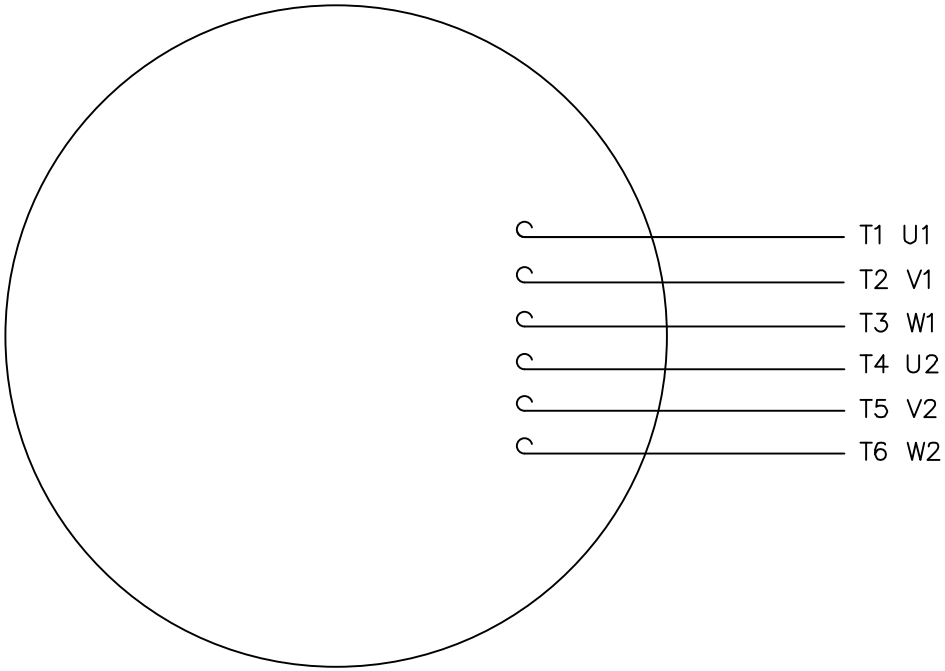
MARATHON ELECTRIC

TITLE OUTLINE – RIGID
250 FR. – TEFC

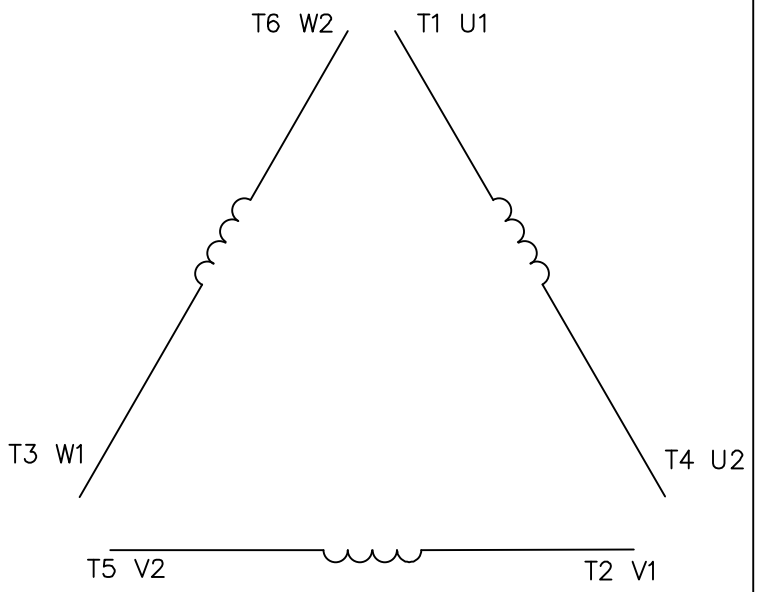
MAT'L.
FINISH
CAD FILE 16953860ME
RFP
DIST WA

DRAWN TJB 05-29-2003
CHK ML 05-29-2003
APPD GK 05-29-2003
SCALE 5=16
REF
FMF
PREV

SIZE B | DRAWING NO. 169538–60ME | PAGE OF | REV. 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)	

NO.	REVISION	BY & DATE	CHK
03	ADDED IEC DESIGNATIONS	MOL 04/27/12	
02	REMOVED OBSOLETE STATUS	KJH 06/28/99	
01	REDRAWN ON CAD	DBT 05/30/97	

TOLERANCES UNLESS SPECIFIED

DEC.	INCHES
.X	±.1
.XX	±.01
.XXX	±.005
.XXXX	±.0005
ANG	±1/2°

MARATHON ELECTRIC

DRAWN	PG 05/07/82
CHK	
APPD	TEM 05/07/82
SCALE	1=1
REF	
FMF	
PREV	

TITLE: EXTERNAL WIRING DIAGRAM
STAR START – DELTA RUN

MAT'L. Y–CONNECTED START – DELTA CONNECTED RUN

FINISH: SINGLE VOLTAGE

CAD FILE: 00519001ME

RFP

DIST

SIZE	DRAWING NO.	REV.
A	005190–01ME	03

CERTIFICATION DATA SHEET

Model#:	254TTFC6006 AA	**WINDING#:**	T12902021 NONE 4
CONN. DIAGRAM:	005190.01ME	**ASSEMBLY:**	F1/F2 CAPABLE
OUTLINE:	16953860ME		

TYPICAL MOTOR PERFORMANCE DATA

HP	KW	SYNC. RPM	F.L. RPM	FRAME	ENCLOSURE	KVA CODE	DESIGN
15	11.2	3600	3550	254T	TEFC	G	B

PH	Hz	VOLTS	FL AMPS	START TYPE	DUTY	INSL	S.F	AMB°C	ELEVATION
3	60	575	13.8	ACROSS THE LINE	CONTINUOUS	F2	1.15	40	3300

FULL LOAD EFF: 92.4	3/4 LOAD EFF: 92.4	1/2 LOAD EFF: 91.7	GTD. EFF	ELEC. TYPE	NO LOAD AMPS
FULL LOAD PF: 88.5	3/4 LOAD PF: 85	1/2 LOAD PF: 79	91	SQ CAGE IND RUN	3.9

F.L. TORQUE	LOCKED ROTOR AMPS	L.R. TORQUE	B.D. TORQUE	F.L. RISE°C
22.2 LB-FT	92	51 LB-FT 230	60.8 LB-FT 274	50

SOUND PRESSURE @ 3 FT.	SOUND POWER	ROTOR WK^2	MAX. WK^2	SAFE STALL TIME	STARTS /HOUR	APPROX. MOTOR WGT
61 dBA	71 dBA	- LB-FT^2	- LB-FT^2	20 SEC.	-	286 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 6309	BALL 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: 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

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DATE: 06/23/2017 03:42:59 AM
FORM 3531 REV.3 02/07/99
** Subject to change without notice.

Data Sheet

Date: 19-06-2017
Customer:
Attention:
Submitted by: FAREEDA DUDEKULA

marathon® electric

254TTFC6006

Submittal

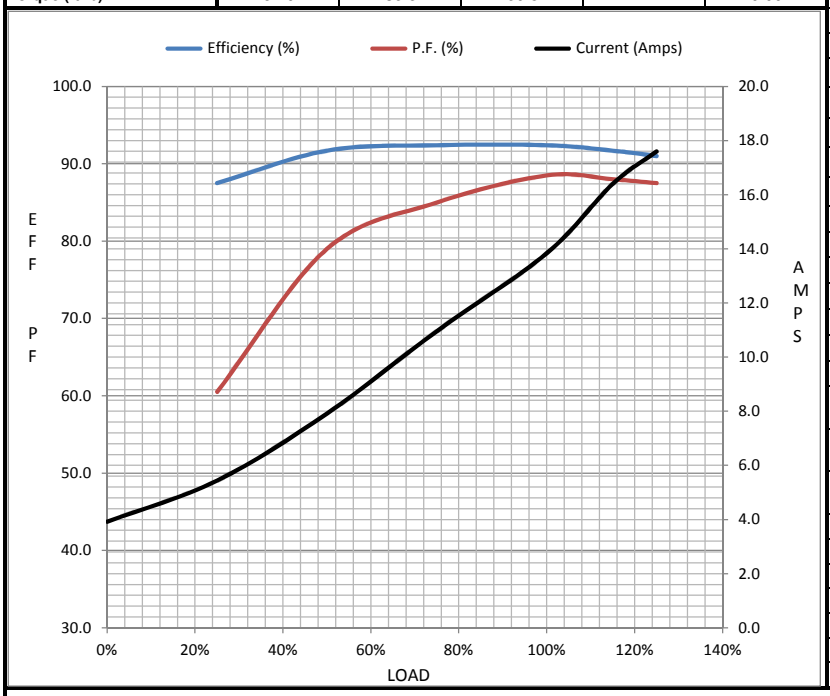
Data @ 575 V

Motor Load Data

Load	0%	25%	50%	75%	100%	115%	125%	LR	
Current (Amps)	3.9	5.4	7.9	11.0	13.8	16.4	17.6	92.0	
Torque (ft-lb)	0.00	5.6	11.3	17.0	22.2	25.5	28.0	51.0	
RPM	3600	3590	3577	3563	3550	3,540	3535	0	
Efficiency (%)		87.5	91.7	92.4	92.4	91.7	91.0		
P.F. (%)	8.3	60.5	79.0	85.0	88.5	88.0	87.5	0.0	

Motor Speed Data

	LR	Pull-Up	BD	Rated	Idle
Speed (RPM)	0	1800	3200	3550	3600
Current (Amps)	92.0	80.0	60.0	13.8	3.9
Torque (ft-lb)	51.0	36.5	60.8	22.2	0.00



Information Block

HP	15.0
Sync. RPM	3600
Frame	254
Enclosure	TEFC
Construction	TFC
Voltage	575 V
Frequency	60 Hz
Design	A
LR Code letter	G
Service Factor	1.15
Temp Rise @ FL	50 ° C
Duty	CONT
Ambient	40 ° C
Elevation	1,000 feet
Rotor/Shaft wk²	0.00 Lb-Ft²
Ref Wdg	T12902021 NONE
Sound Pressure @ 1M	61 dBA
VFD Rating	NONE
Outline Dwg	16953860ME
Conn. Diag	005190.01ME

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