PRODUCT INFORMATION PACKET

Model No: 213TTFC6077
Catalog No: U610A
General Purpose Motor, 3 & 2 HP, 3 Ph, 60 & 50 Hz, 230/460 & 190/380 V, 1200 & 1000 RPM, 213T Frame, TEFC

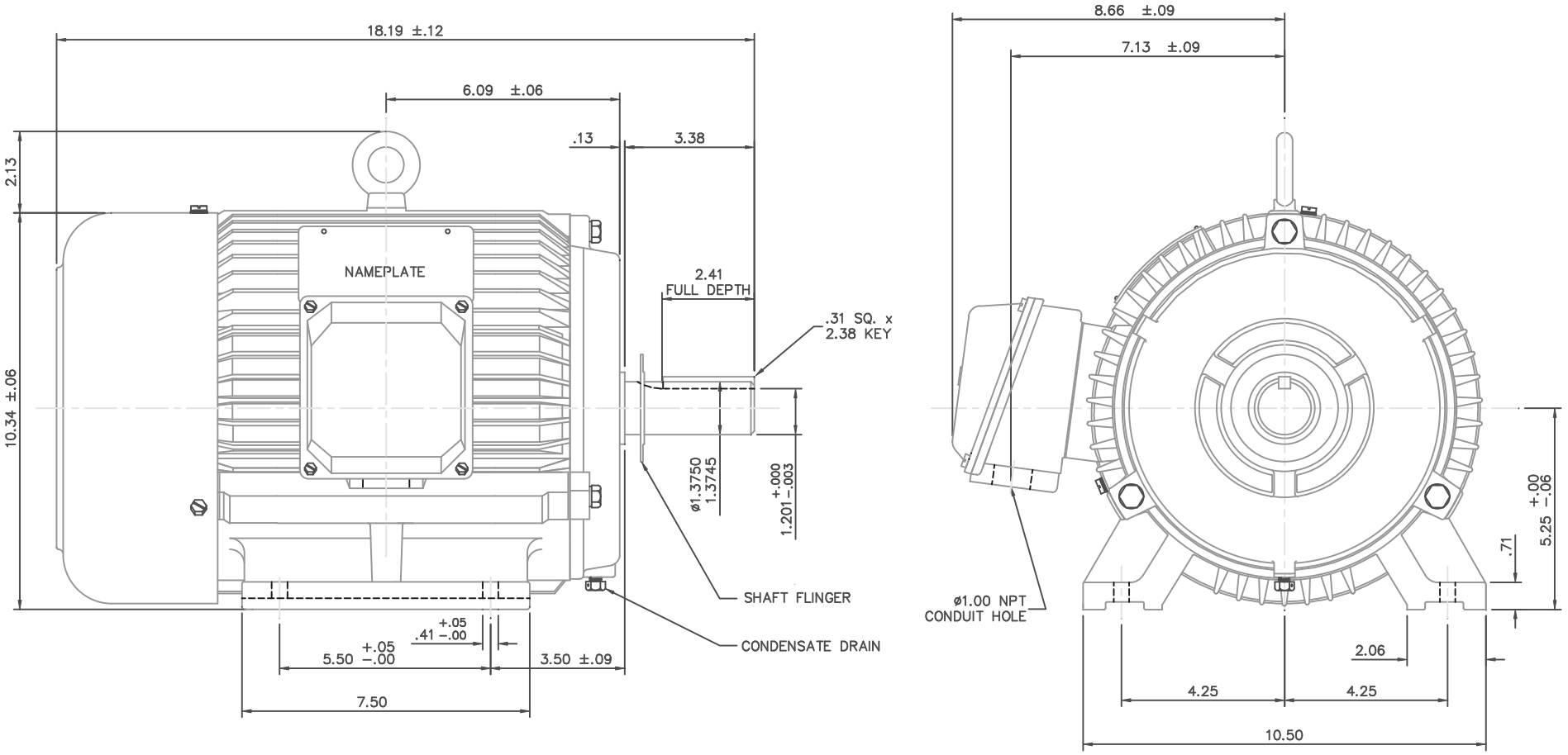
marathon® Motors

Nameplate Specifications

Phase	3	Output HP	3 & 2 Hp
Output KW	2.2 & 1.5 kW	Voltage	230/460 & 190/380 V
Speed	1182 & 986 rpm	Service Factor	1.15 & 1.15
Frame	213T	Enclosure	Totally Enclosed Fan Cooled
Thermal Protection	No Protection	Efficiency	89.5 & 87.5 %
Ambient Temperature	40 °C	Frequency	60 & 50 Hz
Current	9.6/4.8 & 8.4/4.2 A	Power Factor	66
Duty	Continuous	Insulation Class	F
Design Code	B	KVA Code	K
Drive End Bearing Size	6308	Opp Drive End Bearing Size	6306
UL	Recognized	CSA	Y
CE	Y	IP Code	43
Number of Speeds	1		

Technical Specifications

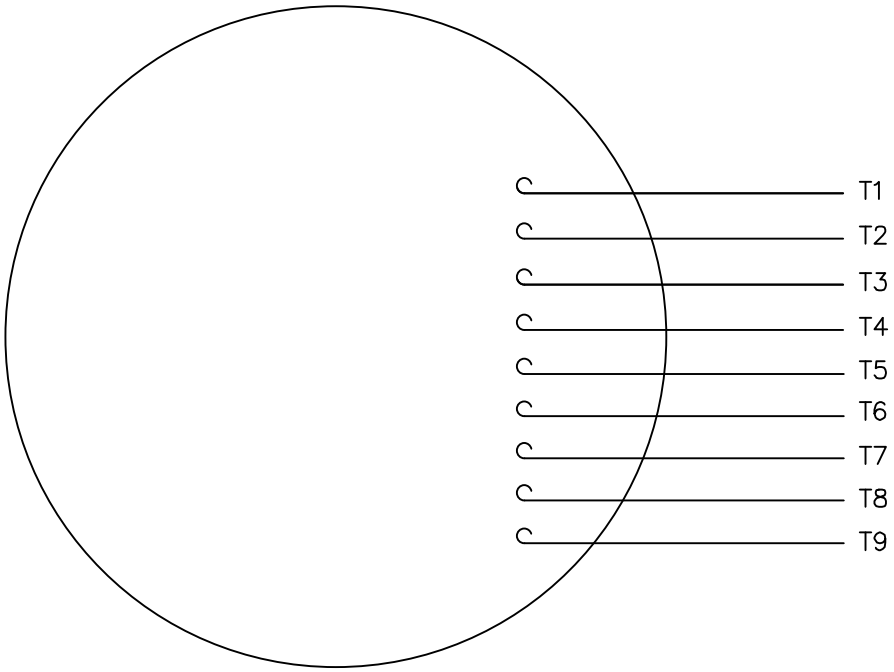
Electrical Type	Squirrel Cage Induction Run	Starting Method	Across The Line
Poles	6	Rotation	Reversible
Resistance Main	3.09 Ohms	Mounting	Rigid Base
Motor Orientation	Horizontal	Drive End Bearing	Ball
Opp Drive End Bearing	Ball	Frame Material	Cast Iron
Shaft Type	T	Overall Length	18.19 in
Shaft Diameter	1.380 in	Shaft Extension	3.38 in
Assembly/Box Mounting	F1/F2 CAPABLE		
Connection Drawing	00501001ME	Outline Drawing	16953560ME



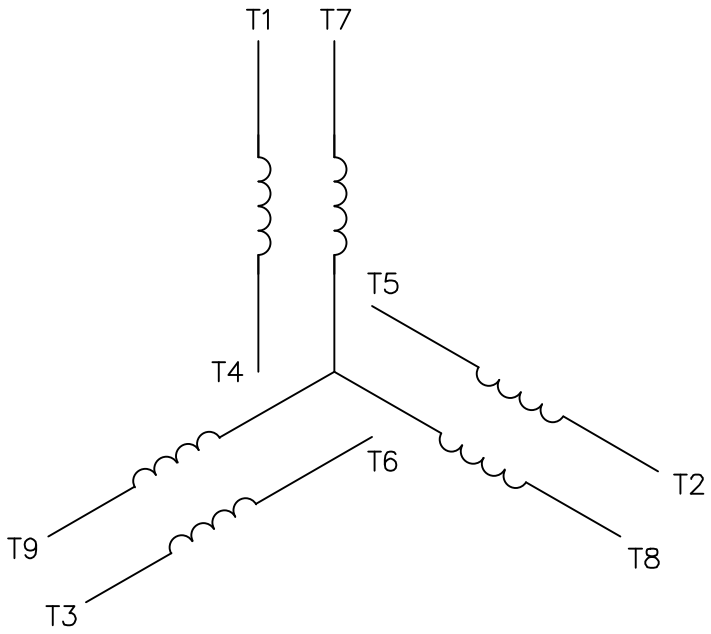
				TOLERANCES UNLESS SPECIFIED		MARATHON ELECTRIC	DRAWN	JJK 03/25/99
				DEC.	INCHES		CHK	
				.X	±.1		APPD	PG 03/31/99
				.XX	±.03	TITLE OUTLINE – 213T FRAME	SCALE	3=8
				.XXX	±.005	TEFC – RIGID MOUNT, NEW CON–BOX	REF	169501
01	REDRAWN TO CURRENT CAD STANDARDS	CJK 9/17/01		.XXXX	±.0005	MAT'L. CAST IRON	FMF	
NO.	REVISION	BY & DATE	CHK	ANG	±7'30"	FINISH	PREV	

RFP	CAD FILE 16953560ME	SIZE	DRAWING NO.	REV.
DIST		B	169535-60ME	01

VIEW FROM OUTSIDE OF MOTOR AT SWITCH END.



LINE LEADS



VOLTAGE	L1	L2	L3	JOIN & INSULATE
HIGH	T1	T2	T3	(T4,T7) (T5,T8) (T6,T9)
LOW	T1,T7	T2,T8	T3,T9	T4,T5,T6

NO.	REVISION	BY & DATE	CHK

TOLERANCES UNLESS SPECIFIED

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

MARATHON ELECTRIC

TITLE: EXTERNAL WIRING DIAGRAM
3 PHASE W/O PROTECTOR

MAT'L. DECAL – 004014

FINISH

DRAWN RDW 04/12/02
CHK
APPD
SCALE 1=1
REF FIG.2–51
FMF
PREV

RFP 04/12/02
DIST

CAD FILE 00501001ME

SIZE	DRAWING NO.	REV.
A	005010–01ME	

CERTIFICATION DATA SHEET

Model#:	213TTFC6077 AA	**WINDING#:**	T10706001 NONE 3
CONN. DIAGRAM:	00501001ME	**ASSEMBLY:**	F1/F2 CAPABLE
OUTLINE:	169535.60ME		

TYPICAL MOTOR PERFORMANCE DATA

HP	KW	SYNC. RPM	F.L. RPM	FRAME	ENCLOSURE	KVA CODE	DESIGN
3&2	2.24&1.49	1200	1182&986	213T	TEFC	K	B

PH	Hz	VOLTS	FL AMPS	START TYPE	DUTY	INSL	S.F	AMB°C	ELEVATION
3	60/50	230/460#190/380	9.6/4.8&8.4/4.2	ACROSS THE LINE	CONTINUOUS	F2	1.15/1.15	40	3300

FULL LOAD EFF: 89.5&87.5	3/4 LOAD EFF: 88.5	1/2 LOAD EFF: 85.5	GTD. EFF	ELEC. TYPE	NO LOAD AMPS
FULL LOAD PF: 66&61	3/4 LOAD PF: 58.5	1/2 LOAD PF: 46.5	86.5	SQ CAGE IND RUN	5.8 / 2.9

F.L. TORQUE	LOCKED ROTOR AMPS	L.R. TORQUE	B.D. TORQUE	F.L. RISE°C
13.5 LB-FT	62.4 / 31.2	28.1 LB-FT 208	50.3 LB-FT 373	30

SOUND PRESSURE @ 3 FT.	SOUND POWER	ROTOR WK^2	MAX. WK^2	SAFE STALL TIME	STARTS /HOUR	APPROX. MOTOR WGT
- dBA	- dBA	- LB-FT^2	- LB-FT^2	10 SEC.	-	148 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 6308	BALL 6306	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

* NOTES *

DATE: 06/22/2017 05:41:14 AM
FORM 3531 REV.3 02/07/99
** Subject to change without notice.

Data Sheet

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

marathon® electric

213TTFC6077

Submittal

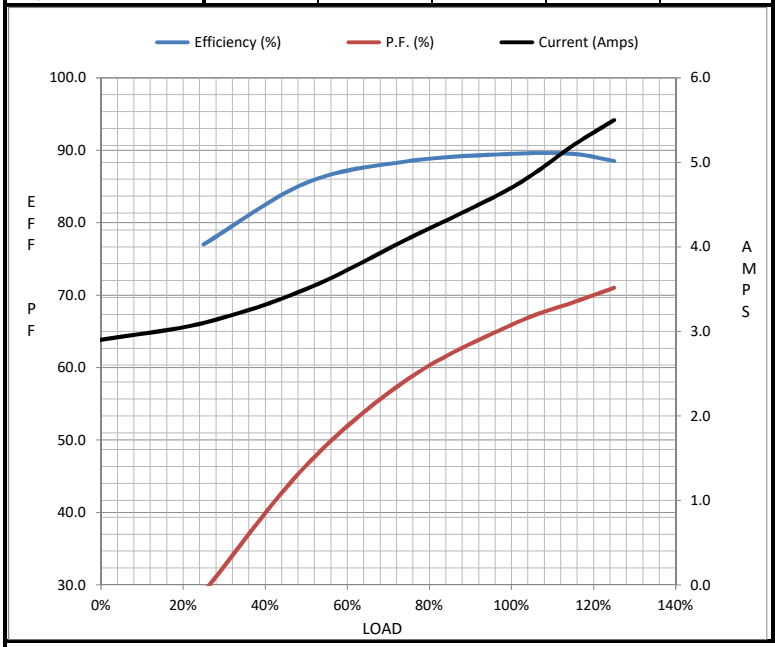
Data @ 460 V

Motor Load Data

Load	0%	25%	50%	75%	100%	115%	125%	LR	
Current (Amps)	2.90	3.1	3.5	4.1	4.7	5.2	5.5	31.2	
Torque (ft-lb)	0.00	3.3	6.6	10.0	13.5	15.4	16.7	28.1	
RPM	1200	1196	1192	1188	1180	1,177	1176	0	
Efficiency (%)		77.0	85.5	88.5	89.5	89.5	88.5		
P.F. (%)	6.5	29.0	46.5	58.5	65.9	69.0	71.0	40.0	

Motor Speed Data

	LR	Pull-Up	BD	Rated	Idle
Speed (RPM)	0	600	1000	1180	1200
Current (Amps)	31.2	28.0	19.6	4.7	2.90
Torque (ft-lb)	28.1	29.0	50.3	13.5	0.00



Information Block		
HP	3.0	
Sync. RPM	1200	
Frame	213	
Enclosure	TEFC	
Construction	TFS	
Voltage	230/460#190/380	V
Frequency	60	Hz
Design	B	
LR Code letter	K	
Service Factor	1.15	
Temp Rise @ FL	30	° C
Duty	CONT	
Ambient	40	° C
Elevation	1,000	feet
Rotor/Shaft wk²	0.00	Lb-Ft²
Ref Wdg	T10706001 NONE	
Sound Pressure @ 1M	999	dBA
VFD Rating	NONE	
Outline Dwg	169535.60ME	
Conn. Diag	5010.01	
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