

PRODUCT INFORMATION PACKET

marathon®
Motors

Model No: 215TTFC6031

Catalog No: U641A

10 HP General Purpose Motor, 3 phase, 1800 RPM, 575 V, 215T Frame, TEFC
General Purpose Motors



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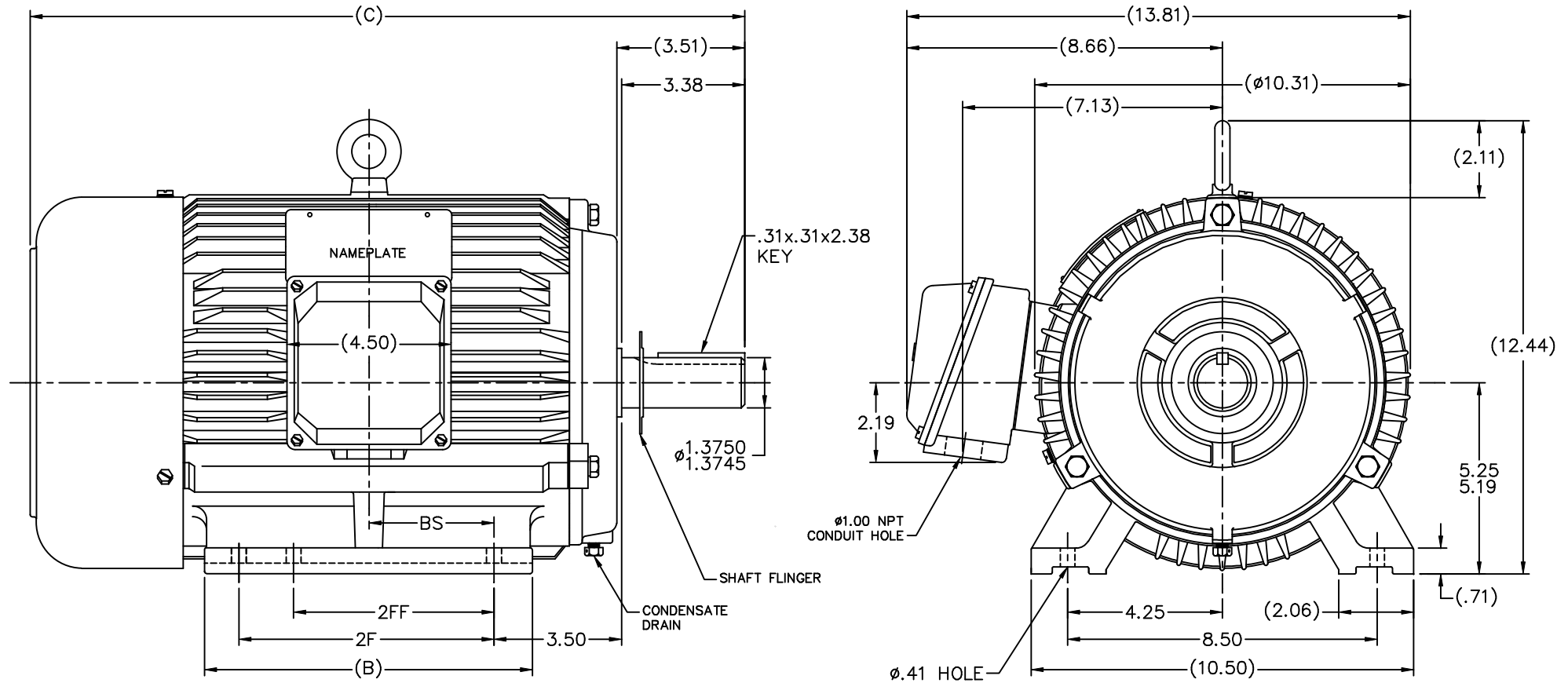
Nameplate Specifications

Output HP	10 Hp	Output KW	7.5 kW
Frequency	60 Hz	Voltage	575 V
Current	10.0 A	Speed	1760 rpm
Service Factor	1.15	Phase	3
Efficiency	91.7 %	Power Factor	81.6
Duty	Continuous	Insulation Class	F
Design Code	B	KVA Code	H
Frame	215T	Enclosure	Totally Enclosed Fan Cooled
Thermal Protection	No	Ambient Temperature	40 °C
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

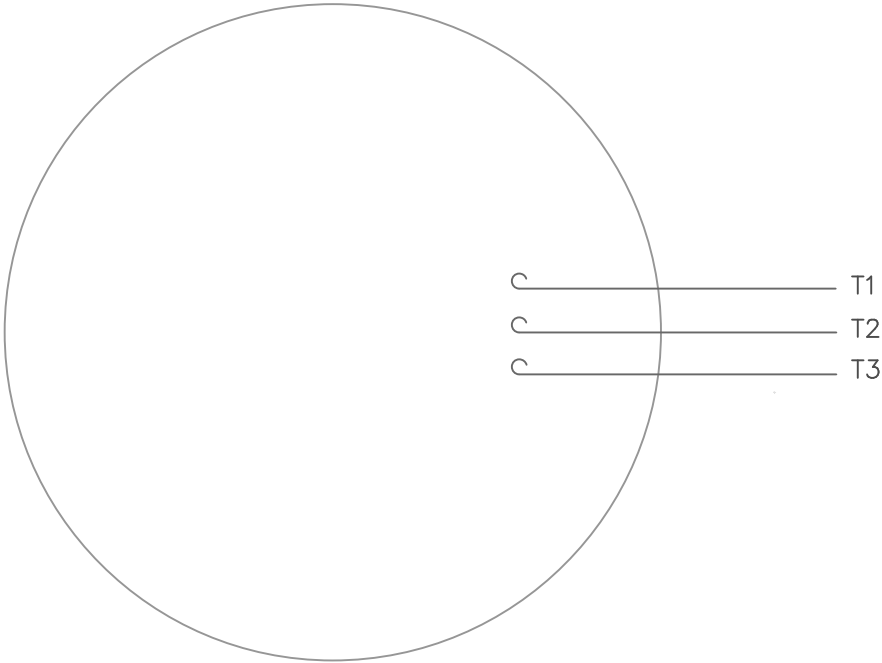
Electrical Type	Squirrel Cage Induction Run	Starting Method	Across The Line
Poles	4	Rotation	Reversible
Resistance Main	.216 Ohms	Mounting	Rigid Base
Motor Orientation	Horizontal	Drive End Bearing	Ball
Opp Drive End Bearing	Ball	Frame Material	Cast Iron
Shaft Type	T	Overall Length	19.61 in
Shaft Diameter	1.375 in	Shaft Extension	3.38 in
Assembly/Box Mounting	F1/F2 Capable		
Outline Drawing	16953660ME	Connection Drawing	00510201ME

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								TOLERANCES UNLESS SPECIFIED		MARATHON ELECTRIC		DRAWN TJB 01-08-2004	
								DEC.	INCHES			CHK	ML 01-08-2004
								.X	$\pm .1$			APPD	GK 01-08-2004
								.XX	$\pm .03$	TITLE OUTLINE - RIGID MOUNT		SCALE 3=8	
								.XXX	$\pm .005$	213/15T FR. - TEFC		REF	
								.XXX	$\pm .0005$	MAT'L		FMF	
								ANG	$\pm 7'30"$	FINISH		PREV	
								RFP	01-08-2004	CAD FILE 16953660ME		SIZE	DRAWING NO. PAGE OF REV.
								DIST				B	169536-60ME

VIEW FROM OUTSIDE OF MOTOR AT SWITCH END.



CONNECT LEADS AS FOLLOWS
FOR FOUR CONDUCTOR CORD ()

CORD	L1 (RED)	L2 (WHITE)	L3 (BLACK)	(GREEN)
MOTOR	T1	T2	T3	GROUND

				TOLERANCES UNLESS SPECIFIED			DRAWN RDW 5/1/02		
				DEC.	INCHES		CHK		
				.X	±.1		APPD		
				.XX	±.01		SCALE 1=1		
				.XXX	±.005		REF		
				.XXXX	±.0005	MAT'L. DECAL - 004169		FMF	
NO.	REVISION	BY & DATE	CHK	ANG	±1/2°	FINISH		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 5/1/02		CAD FILE 00510201ME		SIZE A	DRAWING NO. 005102-01ME	REV.
			DIST						

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CERTIFICATION DATA SHEET

Model#: 215TTFC6031 AA
 CONN. DIAGRAM: 00510201ME
 OUTLINE: 16953660ME

WINDING#: T10704006 NONE 4
 ASSEMBLY: F1/F2 CAPABLE

TYPICAL MOTOR PERFORMANCE DATA

HP	KW	SYNC. RPM	F.L. RPM	FRAME	ENCLOSURE	KVA CODE	DESIGN
10	7.50	1800	1760	215T	TEFC	H	B

PH	Hz	VOLTS	FL AMPS	START TYPE	DUTY	INSL	S.F	AMB°C	ELEVATION
3	60	575	10	ACROSS THE LINE	CONTINUOUS	F2	1.15/1.15	40	3300

FULL LOAD EFF: 91.7	3/4 LOAD EFF: 91.7	1/2 LOAD EFF: 91	GTD. EFF	ELEC. TYPE	NO LOAD AMPS
FULL LOAD PF: 81.6	3/4 LOAD PF: 75	1/2 LOAD PF: 63.5	91	SQ CAGE IND RUN	4.7

F.L. TORQUE	LOCKED ROTOR AMPS	L.R. TORQUE	B.D. TORQUE	F.L. RISE°C
29.8 LB-FT	64.8	64.5 LB-FT 216	109 LB-FT 365	50

SOUND PRESSURE @ 3 FT.	SOUND POWER	ROTOR WK^2	MAX. WK^2	SAFE STALL TIME	STARTS /HOUR	APPROX. MOTOR WGT
80 dBA	90 dBA	1.04 LB-FT^2	- LB-FT^2	15 SEC.	2	177 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						
6308	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

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 FORM 3531 REV.3 02/07/99
 ** Subject to change without notice.

Data Sheet

Date: 29-06-2017

Customer:

Attention:

Submitted by: FAREEDA DUDEKULA

215TTF6031



Submittal

Data @ 575 V

Motor Load Data

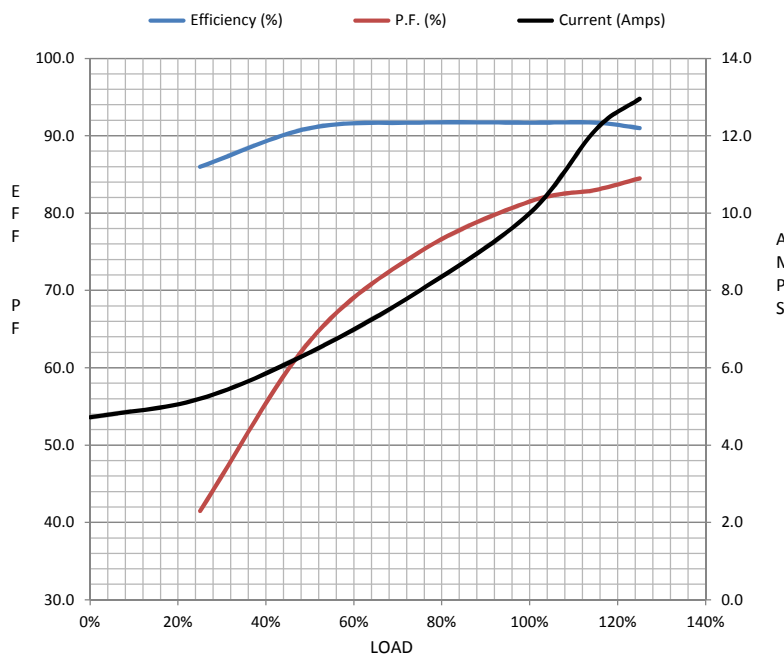
Load	0%	25%	50%	75%	100%	115%	125%	LR	
Current (Amps)	4.7	5.2	6.4	8.0	10.0	12.2	13.0	64.8	
Torque (ft-lb)	0.00	7.3	14.7	22.2	29.8	34.4	37.6	64.5	
RPM	1800	1792	1785	1775	1768	1,762	1755	0	
Efficiency (%)		86.0	91.0	91.7	91.7	91.7	91.0		
P.F. (%)	5.5	41.5	63.5	75.0	81.5	83.0	84.5	40.5	

Motor Speed Data

	LR	Pull-Up	BD	Rated	Idle
Speed (RPM)	0	900	1555	1768	1800
Current (Amps)	64.8	72.0	48.8	10.0	4.7
Torque (ft-lb)	64.5	72.0	109	29.8	0.00

Information Block

HP	10.0			
Sync. RPM	1800			
Frame	215			
Enclosure	TEFC			
Construction	TFC			
Voltage	575 V			
Frequency	60 Hz			
Design	B			
LR Code letter	H			
Service Factor	1.15			
Temp Rise @ FL	50 ° C			
Duty	CONT			
Ambient	40 ° C			
Elevation	1,000 feet			
Rotor/Shaft wk ²	1.04 Lb-Ft ²			
Ref Wdg	T10704006 NONE			
Sound Pressure @ 1M	80 dBA			
VFD Rating	NONE			
Outline Dwg	16953660ME			
Conn. Diag	5102.01ME			
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

