

PRODUCT INFORMATION PACKET

marathon®
Motors

Model No: 213TTFC6006

Catalog No: U671A

7.50 HP General Purpose Motor, 3 phase, 3600 RPM, 575 V, 213T Frame, TEFC
General Purpose Motors



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RegalRexnord

Nameplate Specifications


Output HP	7.50 Hp	Output KW	5.6 kW
Frequency	60 Hz	Voltage	575 V
Current	7.1 A	Speed	3539 rpm
Service Factor	1.15	Phase	3
Efficiency	91 %	Power Factor	85.5
Duty	Continuous	Insulation Class	F
Design Code	B	KVA Code	H
Frame	213T	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

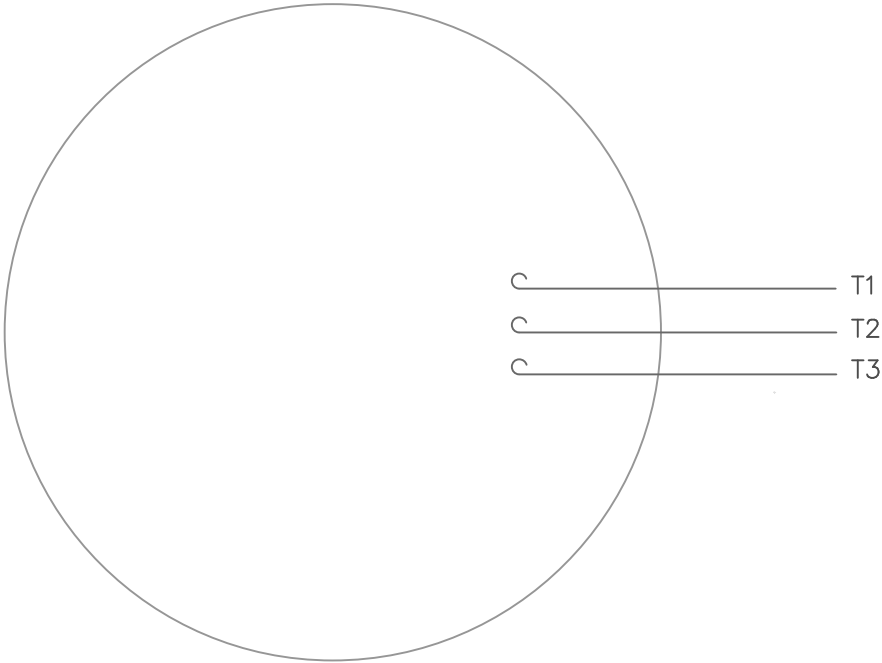
Electrical Type	Squirrel Cage Inverter Rated	Starting Method	Line Or Inverter
Poles	2	Rotation	Reversible
Resistance Main	1.015 Ohms	Mounting	Rigid Base
Motor Orientation	Horizontal	Drive End Bearing	Ball
Opp Drive End Bearing	Ball	Frame Material	Cast Iron
Shaft Type	T	Overall Length	18.19 in
Shaft Diameter	1.375 in	Shaft Extension	3.38 in
Assembly/Box Mounting	F1/F2 Capable		
Outline Drawing	16953560ME	Connection Drawing	005102.01ME

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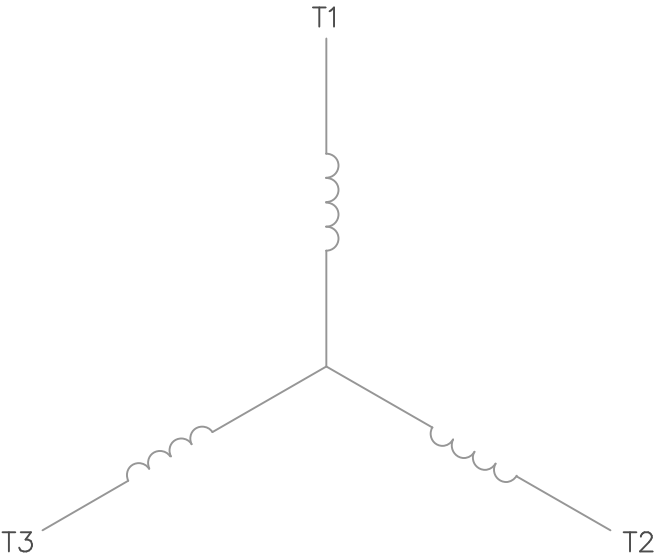


				TOLERANCES UNLESS SPECIFIED			DRAWN JJK 03/25/99
				DEC.	INCHES		CHK
				.X	±.1		APPD PG 03/31/99
				.XX	±.03	TITLE OUTLINE - 213T FRAME	SCALE 3=8
				.XXX	±.005	TEFC - RIGID MOUNT, NEW CON-BOX	REF 169501
01	REDRAWN TO CURRENT CAD STANDARDS	CJK 9/17/01		.XXXX	±.0005	MAT'L CAST IRON	FMF
NO.	REVISION	BY & DATE	CHK ANG	±7°30"	FINISH	PREV	
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 16953560ME	SIZE B	DRAWING NO. 169535-60ME
				DIST			REV. 01

VIEW FROM OUTSIDE OF MOTOR AT SWITCH END.




LINE LEADS



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	TITLE EXTERNAL WIRING DIAGRAM TYPE "T" W/O PROTECTOR	MAT'L. DECAL - 004169	
				ANG	±1/2°		FINISH	
NO.	REVISION	BY & DATE	CHK	ANG	±1/2°	DRAWING NO.		REV.
				RFP	5/1/02	005102-01ME		
				DIST		A		

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CERTIFICATION DATA SHEET

Model#: 213TTFC6006 A
 CONN. DIAGRAM: 005102.01ME
 OUTLINE: 16953560ME

WINDING#: T10702021 NONE 3
 ASSEMBLY: F1/F2 CAPABLE

TYPICAL MOTOR PERFORMANCE DATA

HP	KW	SYNC. RPM	F.L. RPM	FRAME	ENCLOSURE	KVA CODE	DESIGN
7 1/2	5.6	3600	3539	213T	TEFC	H	B

PH	Hz	VOLTS	FL AMPS	START TYPE	DUTY	INSL	S.F	AMB°C	ELEVATION
3	60	575	7.1	LINE OR INVERTER	CONTINUOUS	F2	1.15	40	3300

FULL LOAD EFF: 91	3/4 LOAD EFF: 91	1/2 LOAD EFF: 88.5	GTD. EFF	ELEC. TYPE	NO LOAD AMPS
FULL LOAD PF: 85.5	3/4 LOAD PF: 83	1/2 LOAD PF: 75	-	SQ CAGE INV RATED	2.4

F.L. TORQUE	LOCKED ROTOR AMPS	L.R. TORQUE	B.D. TORQUE	F.L. RISE°C
11.24 LB-FT	52.8	23.3 LB-FT 209	34 LB-FT 305	30

SOUND PRESSURE @ 3 FT.	SOUND POWER	ROTOR WK^2	MAX. WK^2	SAFE STALL TIME	STARTS /HOUR	APPROX. MOTOR WGT
- dBA	- dBA	0.378 LB-FT^2	0.4 LB-FT^2	- SEC.	-	- 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: CONSTANT 10:1			
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: 06/22/2017 05:37:27 AM
 FORM 3531 REV.3 02/07/99
 ** Subject to change without notice.

Data Sheet

Date: 1/7/2019

Customer: _____

Attention: _____

Submitted by: FAREEDA DUDEKULA

213TFC6006



Submittal

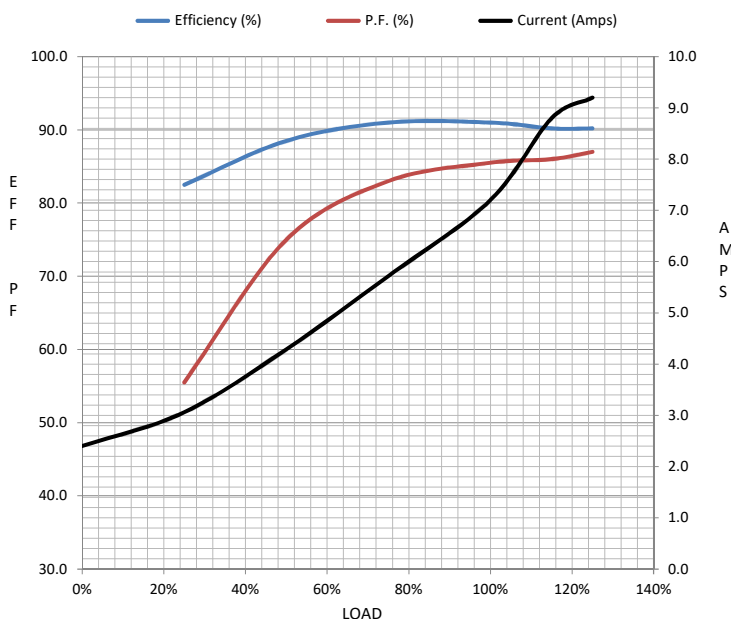
Data @ 575 V

Motor Load Data

Load	0%	25%	50%	75%	100%	115%	125%	LR	
Current (Amps)	2.40	3.1	4.3	5.7	7.2	8.8	9.2	52.8	
Torque (ft-lb)	0.00	2.78	5.6	8.4	11.2	12.3	14.1	23.3	
RPM	3600	3586	3571	3555	3539	3535	3522	0	
Efficiency (%)		82.5	88.5	91.0	91.0	90.2	90.2		
P.F. (%)	9.1	55.5	75.0	83.0	85.5	86.0	87.0	0.0	

Motor Speed Data

	LR	Pull-Up	BD	Rated	Idle	Information Block			
Speed (RPM)	0	1800	3312	3539	3600	HP	7.5		
Current (Amps)	52.8	48.6	31.7	7.2	2.40	Sync. RPM	3600		
Torque (ft-lb)	23.3	25.2	34.0	11.2	0.00	Frame	213		



HP	7.5			
Sync. RPM	3600			
Frame	213			
Enclosure	TEFC			
Construction	TFS			
Voltage	575	V		
Frequency	60	Hz		
Design	B			
LR Code letter	H			
Service Factor	1.15			
Temp Rise @ FL	30	° C		
Duty	CONT			
Ambient	40	° C		
Elevation	3,300	feet		
Rotor/Shaft wk²	0.38	Lb-Ft²		
Ref Wdg	T10702021	NONE		
Sound Pressure @ 1M	999	dBA		
VFD Rating	CONSTANT 10:1			
Outline Dwg	16953560ME			
Conn. Diag	005102.01ME			
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

