

PRODUCT INFORMATION PACKET

marathon®
Motors

Model No: 213TTWD16003

Catalog No: N160A

PowerWash™SXT-Plus Wash Down Duty™ General Purpose Motor, 7.50 & 5 HP, 3 Ph, 60 & 50 Hz,
230/460 & 190/380 V, 3600 & 3000 RPM, 213JM Frame, TEFC



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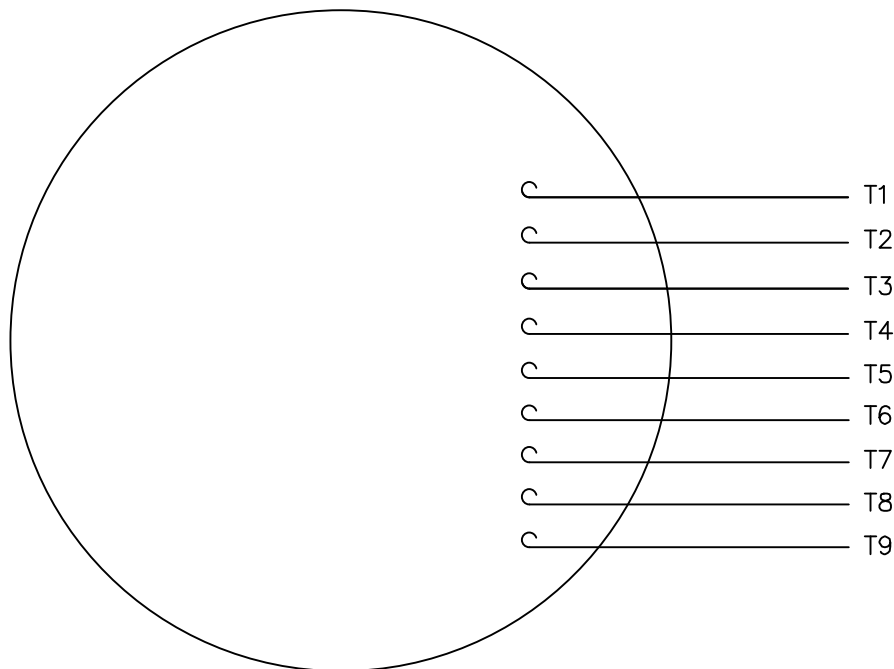
Nameplate Specifications

Phase	3	Output HP	7.50 & 5 Hp
Output KW	5.6 & 3.7 kW	Voltage	230/460 & 190/380 V
Speed	3525 & 2945 rpm	Service Factor	1.15 & 1.15
Frame	213JM	Enclosure	Totally Enclosed Fan Cooled
Thermal Protection	No Protection	Efficiency	89.5 & 88.5 %
Ambient Temperature	40 °C	Frequency	60 & 50 Hz
Current	18.6/9.3 & 16/8 A	Power Factor	84.6
Duty	Continuous	Insulation Class	F
Design Code	B	KVA Code	H
Drive End Bearing Size	6209	Opp Drive End Bearing Size	6207
UL	Recognized	CSA	Y
CE	Y	IP Code	56
Number of Speeds	1		

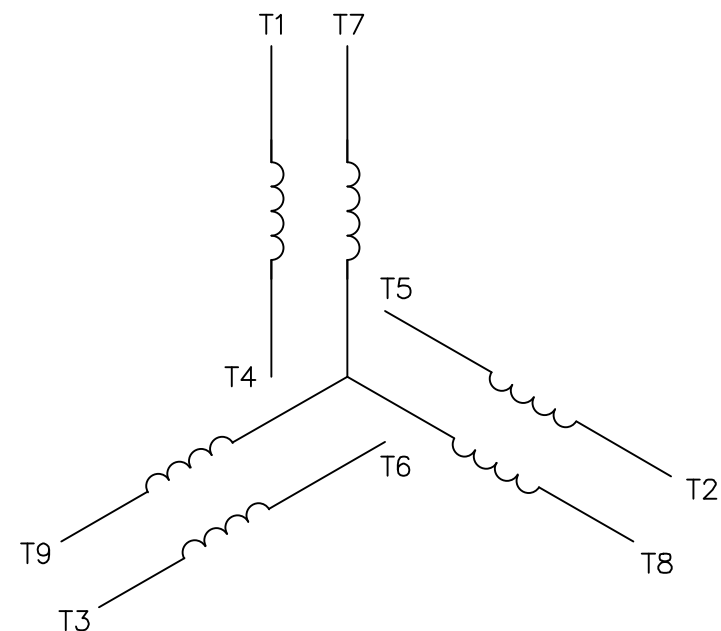
Technical Specifications

Electrical Type	Squirrel Cage Inverter Rated	Starting Method	Line Or Inverter
Poles	2	Rotation	Reversible
Resistance Main	.1725 Ohms	Mounting	Rigid Base
Motor Orientation	Horizontal	Drive End Bearing	Ball
Opp Drive End Bearing	Ball	Frame Material	Stainless Steel
Shaft Type	JM	Overall Length	19.81 in
Frame Length	12.00 in	Shaft Diameter	0.875 in
Shaft Extension	4.25 in	Assembly/Box Mounting	F1 ONLY
Inverter Load	CONSTANT 3:1		
Outline Drawing	037618ME	Connection Drawing	005010.01ME


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

				TOLERANCES UNLESS SPECIFIED			DRAWN RDW 04/12/02			
				DEC.	INCHES		CHK			
				.X	±.1		APPD			
				.XX	±.01		SCALE 1=1			
				.XXX	±.005	TITLE EXTERNAL WIRING DIAGRAM 3 PHASE W/O PROTECTOR		REF FIG.2—51		
				.XXXX	±.0005	MAT'L. DECAL — 004014		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	04/12/02		CAD FILE 00501001ME		SIZE A	DRAWING NO. 005010—01ME	REV.
			DIST							

CERTIFICATION DATA SHEET

Model#: 213TTWD16003 AA

WINDING#: K2132124 NONE 2

CONN. DIAGRAM: 005010.01ME

ASSEMBLY: F1 ONLY

OUTLINE: 037618-1200

TYPICAL MOTOR PERFORMANCE DATA

HP	KW	SYNC. RPM	F.L. RPM	FRAME	ENCLOSURE	KVA CODE	DESIGN
7 1/2&5	5.60&3.70	3600	3525&2945	213JM	TEFC	H	B

PH	Hz	VOLTS	FL AMPS	START TYPE	DUTY	INSL	S.F	AMB°C	ELEVATION
3	60/50	230/460#190/ 380	18.6/9.3&16/8	LINE OR INVERTER	CONTINUOU S	F4	1.15/1.15	40	3300

FULL LOAD EFF: 89.5&88.5	3/4 LOAD EFF: 88.9	1/2 LOAD EFF: 88.1	GTD. EFF	ELEC. TYPE	NO LOAD AMPS
FULL LOAD PF: 84.6&80.2	3/4 LOAD PF: 79.7	1/2 LOAD PF: 68.4	89.5	SQ CAGE INV RATED	8.2 / 4.1

F.L. TORQUE	LOCKED ROTOR AMPS	L.R. TORQUE	B.D. TORQUE	F.L. RISE°C
11.2 LB-FT	126 / 63	19.3 LB-FT 172	33 LB-FT 295	55

SOUND PRESSURE @ 3 FT.	SOUND POWER	ROTOR WK^2	MAX. WK^2	SAFE STALL TIME	STARTS /HOUR	APPROX. MOTOR WGT
72 dBA	82 dBA	0.55 LB-FT^2	12 LB-FT^2	20 SEC.	2	165 LBS.

*** SUPPLEMENTAL INFORMATION ***

DE BRACKET TYPE	ODE BRACKET TYPE	MOUNT TYPE	ORIENTATION	SEVERE DUTY	HAZARDOUS LOCATION	DRIP COVER	SCREENS	PAINT
C-FACE	STANDARD	RIGID	HORIZONTAL	FALSE	NONE	FALSE	NONE	NO PAINT

BEARINGS		GREASE	SHAFT TYPE	SPECIAL DE	SPECIAL ODE	SHAFT MATERIAL	FRAME MATERIAL
DE	OPE						
BALL	BALL						
6209	6207	POLYREX EM	JM	NONE	NONE	303 STAINLESS (C-501)	STAINLESS STEEL

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 3:1
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 06:51:03 AM

FORM 3531 REV.3 02/07/99

** Subject to change without notice.

Data Sheet

Date: 6/19/2017

Customer: _____

Attention: _____

Submitted by: FAREEDA DUDEKULA



213TTWD16003

Submittal

Data @ 460 V

Motor Load Data

Load	0%	25%	50%	75%	100%	115%	125%	LR	
Current (Amps)	4.1	4.5	5.8	7.4	9.3	10.2	11.4	63.0	
Torque (ft-lb)	0.00	2.70	5.5	8.3	11.2	12.5	14.0	19.3	
RPM	3600	3585	3565	3545	3525	3,520	3505	0	
Efficiency (%)		81.8	88.1	88.9	89.5	89.9	88.1		
P.F. (%)	8.0	46.9	68.4	79.7	84.6	85.5	87.1	0.0	

Motor Speed Data

	LR	Pull-Up	BD	Rated	Idle					
Speed (RPM)	0	552	3130	3525	3600					
Current (Amps)	63.0	60.0	38.0	9.3	4.1					
Torque (ft-lb)	19.3	19.0	33.0	11.2	0.00					
<div><div>— Efficiency (%) — P.F. (%) — Current (Amps)</div><div>EFFICIENCY (%)</div><div>P.F. (%)</div><div>CURRENT (AMPS)</div><div>LOAD</div></div>						Information Block				
						HP		7.5		
						Sync. RPM		3600		
						Frame		213		
						Enclosure		TEFC		
						Construction		TFW		
						Voltage		30/460#190/381V		
						Frequency		60 Hz		
						Design		B		
						LR Code letter		H		
						Service Factor		1.15		
						Temp Rise @ FL		55 °C		
						Duty		CONT		
						Ambient		40 °C		
						Elevation		1,000 feet		
						Rotor/Shaft wk ²		0.55 Lb-Ft ²		
						Ref Wdg		K2132124 NONE		
Sound Pressure @ 1M		72 dBA								
VFD Rating		CONSTANT 3:1								
Outline Dwg		037618-1200								
Conn. Diag		005010.01ME								
Additional Specifications:										
0										
0										
EQUIV CKT (OHMS / PHASE)										
R1		R2		X1		X2		Xm		
1.0550		0.5750		2.5440		1.4140		56.7000		

Speed -Torque Curve

