

PRODUCT INFORMATION PACKET

marathon®
Motors

Model No: 215TTWD6031

Catalog No: N409A

PowerWash™SXT-Plus Wash Down Duty™ General Purpose Motor, 10 & 7.50 HP, 3 Ph, 60 & 50 Hz,
230/460 & 190/380 V, 1800 & 1500 RPM, 213TC Frame, TEFC



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RegalRexnord

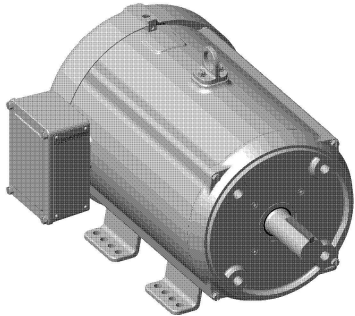
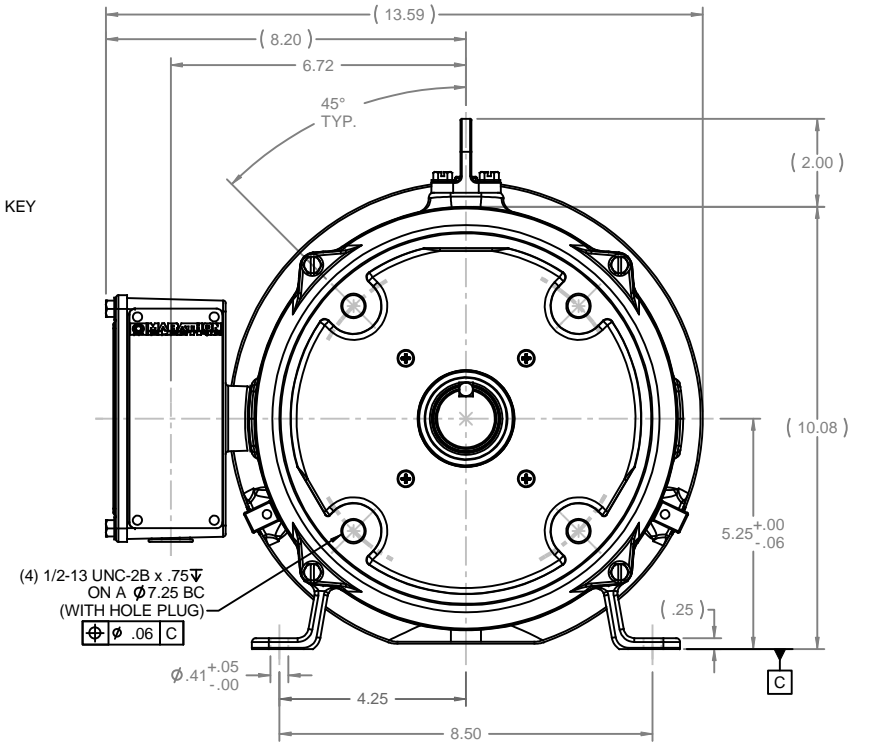
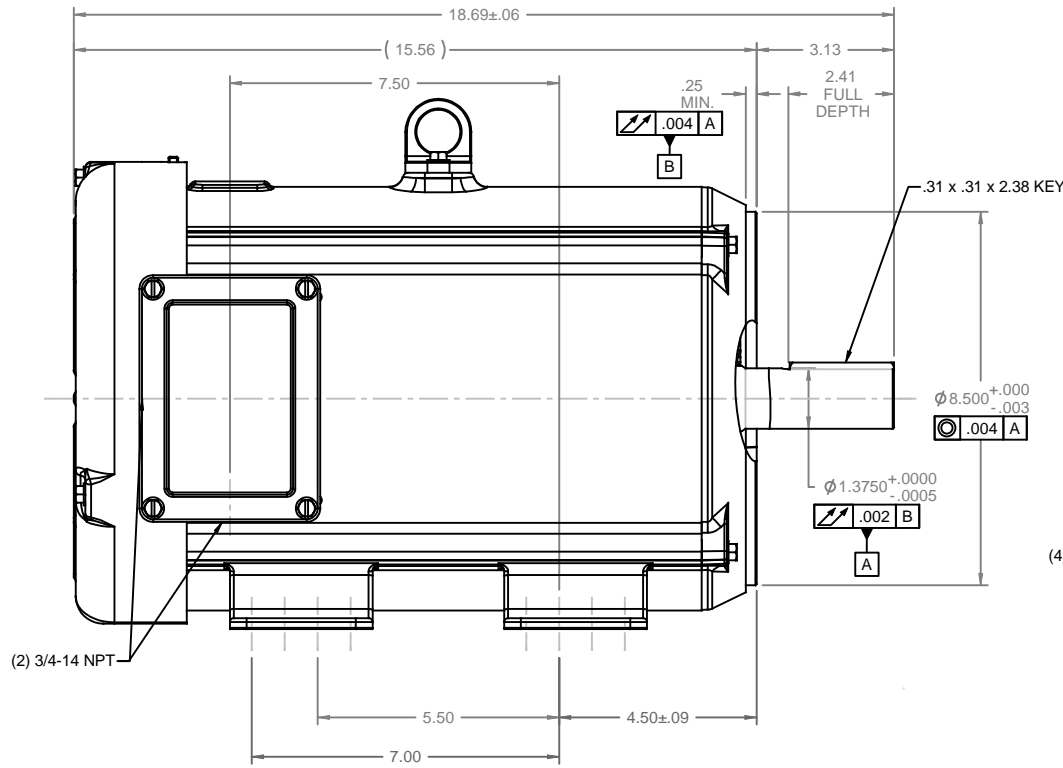


Nameplate Specifications

Phase	3	Output HP	10 & 7.50 Hp
Output KW	7.5 & 5.6 kW	Voltage	230/460 & 190/380 V
Speed	1765 & 1460 rpm	Service Factor	1.15 & 1.0
Frame	213TC	Enclosure	Totally Enclosed Fan Cooled
Thermal Protection	No Protection	Efficiency	91.7 & 91.7 %
Ambient Temperature	40 °C	Frequency	60 & 50 Hz
Current	26.8/13.4 & 31.2/15.6 A	Power Factor	77
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	55
Number of Speeds	1		

Technical Specifications

Electrical Type	Squirrel Cage Inverter Rated	Starting Method	Line Or Inverter
Poles	4	Rotation	Reversible
Resistance Main	.755 Ohms	Mounting	Rigid Base
Motor Orientation	Horizontal	Drive End Bearing	Ball
Opp Drive End Bearing	Ball	Frame Material	Stainless Steel
Shaft Type	T	Overall Length	18.69 in
Shaft Diameter	1.375 in	Shaft Extension	3.13 in
Assembly/Box Mounting	F1 ONLY	Inverter Load	CONSTANT 3:1
Outline Drawing	037617	Connection Drawing	005010.01ME



ISOMETRIC VIEW
 SCALE 1=6

		TOLERANCES UNLESS SPECIFIED				DRAWN JJK 06/14/04	
		DEC	INCHES			CHK	
		X	±.1	APPR			
		.XX	±.03	TITLE OUTLINE - 210TC FRAME		SCALE	3:8
		.XXX	±.005	TEFC - RIGID "C"		REF	OLG140675-00
		.XXX	±.0005	MATL WASHGUARD ALL STAINLESS STEEL MOTOR		FMF	
		NO	REVISION	BY & DATE	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			CHK ANG ±1/2°		
		RFP			CAD FILE 037617	SIZE	DRAWING NO
		DIST				B	037617
							REV

VIEW FROM OUTSIDE OF MOTOR AT SWITCH END.



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		MARATHON ELECTRIC		CHK		
DEC.	INCHES			TITLE		APPD		
.X	±.1			EXTERNAL WIRING DIAGRAM 3 PHASE W/O PROTECTOR		SCALE 1=1		
.XX	±.01			MAT'L. DECAL - 004014		REF FIG.2-51		
.XXX	±.005			FINISH		FMF		
.XXXX	±.0005			NO. REVISION		PREV		
		BY & DATE	CHK	ANG	±1/2'			
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	DRAWING NO.	REV.
		DIST				A	005010-01ME	

CERTIFICATION DATA SHEET

Model#: 215TTWD6031 AA WINDING#: T9497 FR 3
 CONN. DIAGRAM: 005010.01ME ASSEMBLY: F1 ONLY
 OUTLINE: 037617

TYPICAL MOTOR PERFORMANCE DATA

HP	KW	SYNC. RPM	F.L. RPM	FRAME	ENCLOSURE	KVA CODE	DESIGN
10&7 1/2	7.50&5.60	1800	1765&1460	213TC	TEFC	H	B

PH	Hz	VOLTS	FL AMPS	START TYPE	DUTY	INSL	S.F	AMB°C	ELEVATION
3	60/50	230/460#190/ 380	26.8/13.4&31. 2/15.6	LINE OR INVERTER	CONTINUOU S	F4	1.15/1.0	40	3300

FULL LOAD EFF: 91.7&91.7	3/4 LOAD EFF: 91.7	1/2 LOAD EFF: 90.6	GTD. EFF	ELEC. TYPE	NO LOAD AMPS
FULL LOAD PF: 77&79	3/4 LOAD PF: 71.7	1/2 LOAD PF: 60.1	0	SQ CAGE INV RATED	12.4 / 6.2

F.L. TORQUE	LOCKED ROTOR AMPS	L.R. TORQUE	B.D. TORQUE	F.L. RISE°C
29.75 LB-FT	158 / 79	55.2 LB-FT 186	90 LB-FT 303	0

SOUND PRESSURE @ 3 FT.	SOUND POWER	ROTOR WK^2	MAX. WK^2	SAFE STALL TIME	STARTS /HOUR	APPROX. MOTOR WGT
0 dBA	10 dBA	1.16 LB-FT^2	1.2 LB-FT^2	0 SEC.	0	0 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	POLYREX EM	T	NONE	NONE	303 STAINLESS (C-501)	STAINLESS STEEL
BALL	BALL						
6209	6207						

THERMO-PROTECTORS				THERMISTORS	CONTROL	SPACE /n HEATERS
THERMOSTATS	PROTECTORS	WDG RTDs	BRG RTDs	NONE	FALSE	NONE VOLTS
NONE	NOT	NONE	NONE			

If Inverter equals NONE, contact factory for further information

* N O T E S *	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	

DATE: 06/23/2017 01:02:59 AM
 FORM 3531 REV.3 02/07/99
 ** Subject to change without notice.

Data Sheet

Date: 16-06-2017
 Customer: _____
 Attention: _____
 Submitted by: FAREEDA DUDEKULA



215TTWD6031

Submittal

Data @ 460 V

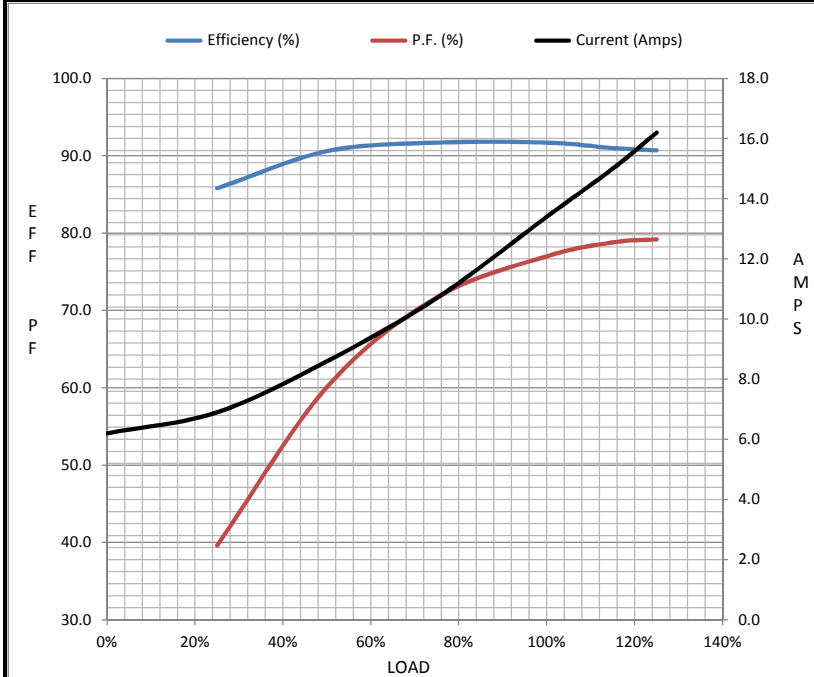
Motor Load Data

Load	0%	25%	50%	75%	100%	115%	125%	LR
Current (Amps)	6.2	6.9	8.6	10.7	13.4	15.0	16.2	79.0
Torque (ft-lb)	0.00	7.4	17.4	22.2	29.8	34.2	37.4	55.2
RPM	1800	1793	1784	1774	1765	1,758	1754	0
Efficiency (%)		85.8	90.6	91.7	91.7	91.0	90.7	
P.F. (%)	6.1	39.6	60.1	71.7	77.0	78.8	79.2	0.0

Motor Speed Data

	LR	Pull-Up	BD	Rated	Idle
Speed (RPM)	0	900	1700	1765	1800
Current (Amps)	79.0	75.0	48.5	13.4	6.2
Torque (ft-lb)	55.2	40.0	90.0	29.8	0.00

Information Block				
HP	10.0			
Sync. RPM	1800			
Frame	210			
Enclosure	TEFC			
Construction	TFW			
Voltage	230/460#190/38(V)			
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	1.16 Lb-Ft ²			
Ref Wdg	T9497 FR			
Sound Pressure @ 1M	62 dBA			
VFD Rating	CONSTANT 3:1			
Outline Dwg	037617			
Conn. Diag	005010.01ME			
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

