

Washdown Motors

Model No: 213TTWD16002

Catalog No: 140825.00M

Washdown Motor, 7.50 & 5 HP, 3 Ph, 60 & 50 Hz, 230/460 & 190/380 V, 3600 RPM, 213TC Frame,
TEFC

Product Information Packet: Model No: 213TTWD16002, Catalog No: 140825.00M Washdown Motor, 7.50 & 5 HP, 3 Ph, 60 & 50 Hz, 230/460 & 190/380 V, 3600 RPM, 213TC Frame, TEFC

Nameplate Specifications

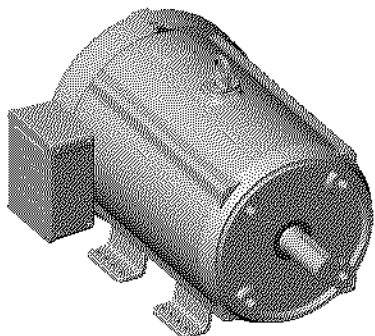
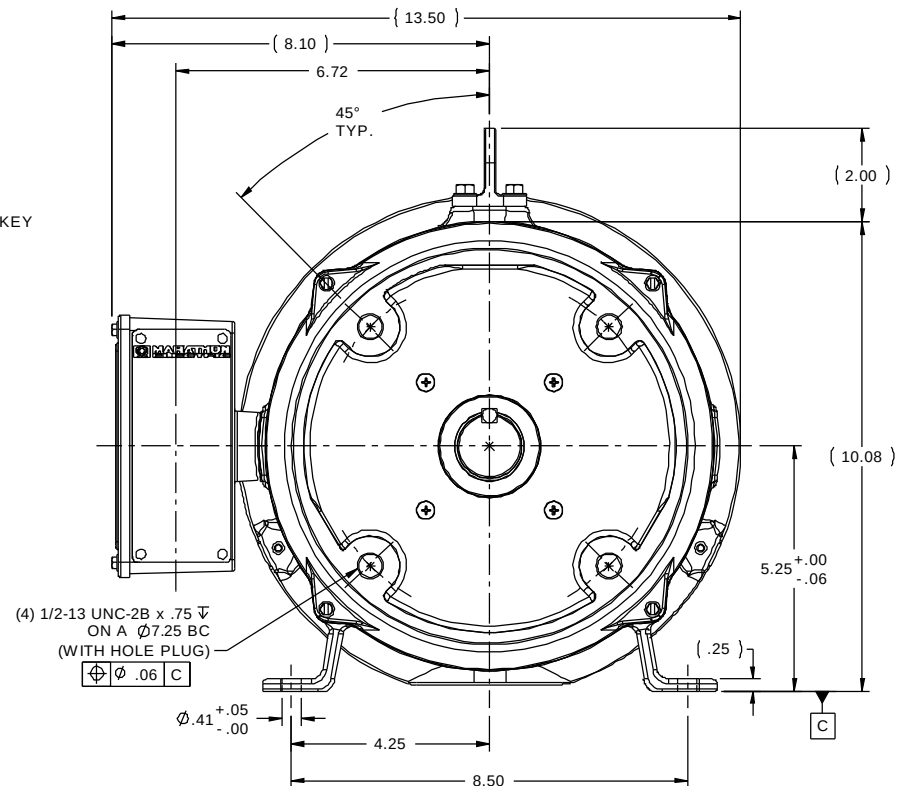
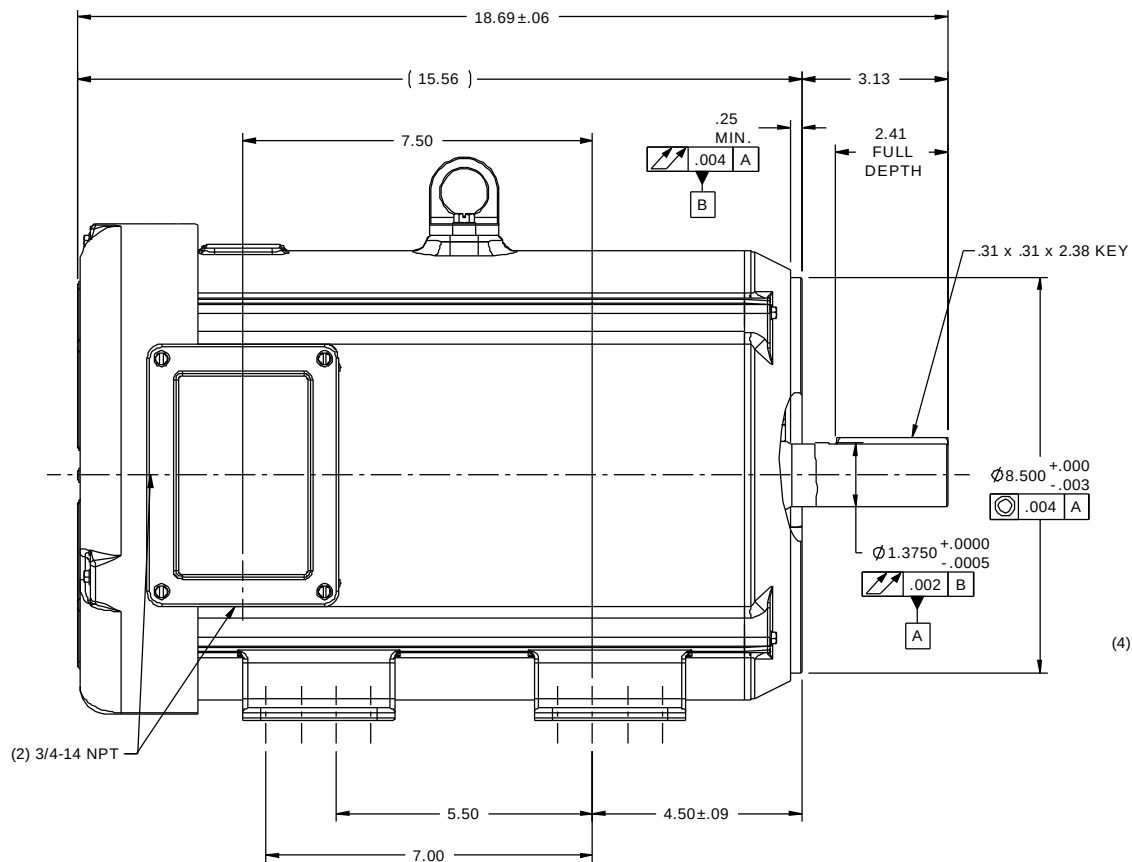
Phase	3	Output HP	7.50 & 5 Hp
Output KW	5.6 & 3.7 kW	Voltage	230/460 & 190/380 V
Speed	3540 & 2955 r/min	Synchronous RPM	3600 & 3000 r/min
Service Factor	1.15 & 1.15	Frame	213TC
Enclosure	Totally Enclosed Fan Cooled	Thermal Protection	No Protection
Efficiency	90.2 & 89.5 %	Ambient Temperature	40 °C
Frequency	60 & 50 Hz	Current	17.8/8.9 & 15/7.5 A
Power Factor	87	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	1.163 O	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 3/8 in	Shaft Extension	3.13 in
Assembly/Box Mounting	F1 Only	Inverter Load	Constant 3:1

Drawings

Connection Drawing	005010.01ME	Outline Drawing	037616ME.00
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ISOMETRIC VIEW
SCALE 1=6

				TOLERANCES UNLESS SPECIFIED			DRAWN PVR 11/26/13	
				DEC	INCHES		CHK GR 11/26/13	
				X	±.1		APPR	
				XX	±.02		SCALE 3:8	
				XXX	±.005		REF 037616	
				XXXX	±.0005		FMP 213TTWD16002	
				XXXX	±.0005		MAT'L WASHGUARD ALL STAINLESS STEEL MOTOR	
NO	REVISION	BY & DATE	CHK	ANG	±730"	FINISH	PAGE 1 OF 1	REV
			THIRD ANGLE PROJECTION				SIZE B	DRAWING NO 037616ME
			NETWORK FILE NAME 037616ME					

Data Sheet

Date: 15-06-2017

Customer:

Attention:

Submitted by: FAREEDA DUDEKULA



213TTWD16002

Submittal

Data @ 460 V

Motor Load Data

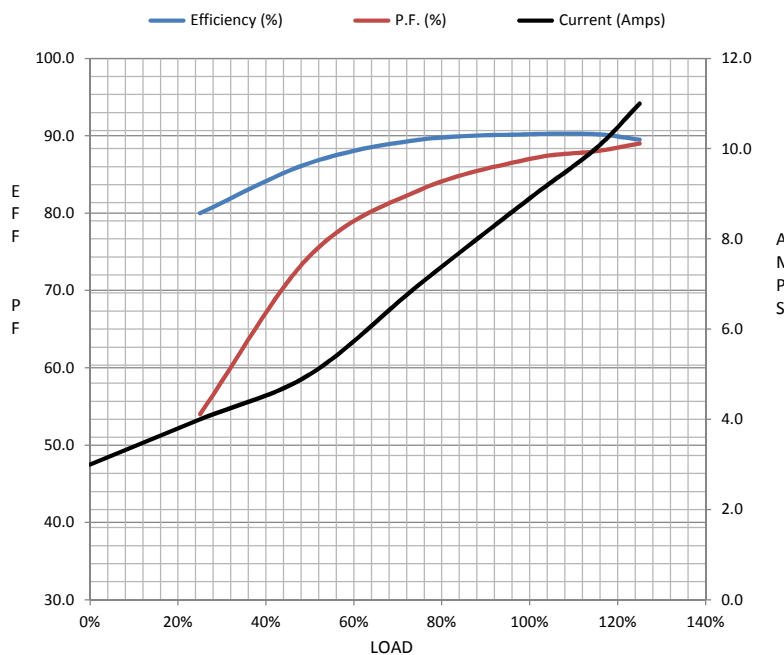
Load	0%	25%	50%	75%	100%	115%	125%	LR	
Current (Amps)	3.0	4.0	5.0	7.0	8.9	10.0	11.0	63.5	
Torque (ft-lb)	0.00	2.50	5.5	8.5	11.1	12.5	14.0	24.0	
RPM	3600	3585	3575	3560	3540	3535	3530	0	
Efficiency (%)		80.0	86.5	89.5	90.2	90.2	89.5		
P.F. (%)	9.0	54.0	74.5	83.0	87.0	88.0	89.0	40.0	

Motor Speed Data

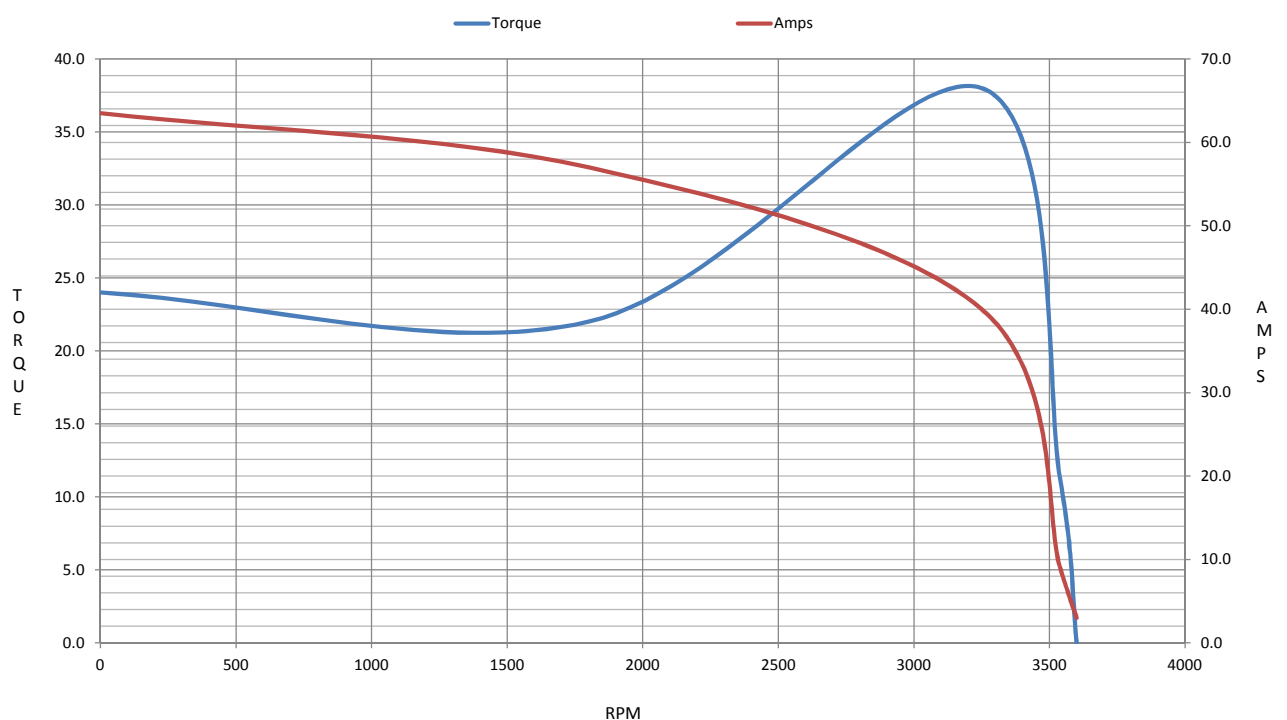
	LR	Pull-Up	BD	Rated	Idle
Speed (RPM)	0	1800	3250	3540	3600
Current (Amps)	63.5	57.0	40.0	8.9	3.0
Torque (ft-lb)	24.0	22.0	38.0	11.1	0.00

Information Block

HP	7.5			
Sync. RPM	3600			
Frame	213			
Enclosure	TEFC			
Construction	TFW			
Voltage	230/460#190/38(V			
Frequency	60 Hz			
Design	A			
LR Code letter	H			
Service Factor	1.15			
Temp Rise @ FL	40 ° C			
Duty	CONT			
Ambient	40 ° C			
Elevation	1,000 feet			
Rotor/Shaft wk ²	0.55 Lb-Ft ²			
Ref Wdg	K213269 R3			
Sound Pressure @ 1M	72 dBA			
VFD Rating	CONSTANT 3:1			
Outline Dwg	037616ME			
Conn. Diag	005010.01ME			
Additional Specifications:				
0				
365THFS8036				
EQUIV CKT (OHMS / PHASE)				
R1	R2	X1	X2	Xm
0.6880	0.4690	2.2980	2.3930	80.8920



Speed -Torque Curve



CERTIFICATION DATA SHEET

Model#: 213TTWD16002 AA
 CONN. DIAGRAM: 005010.01ME
 OUTLINE: 037616ME

WINDING#: K213269 R3 1
 ASSEMBLY: F1 ONLY

TYPICAL MOTOR PERFORMANCE DATA

HP	KW	SYNC. RPM	F.L. RPM	FRAME	ENCLOSURE	KVA CODE	DESIGN
7 1/2&5	5.6&3.7	3600	3540&2955	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	17.8/8.9&15/7. 5	LINE OR INVERTER	CONTINUOU S	F4	1.15/1.15	40	3300

FULL LOAD EFF: 90.2&89.5	3/4 LOAD EFF: 89.5	1/2 LOAD EFF: 86.5	GTD. EFF	ELEC. TYPE	NO LOAD AMPS
FULL LOAD PF: 87&83	3/4 LOAD PF: 83	1/2 LOAD PF: 74.5	89.5	SQ CAGE INV RATED	6 / 3

F.L. TORQUE	LOCKED ROTOR AMPS	L.R. TORQUE	B.D. TORQUE	F.L. RISE°C
11.1 LB-FT	127 / 63.5	24 LB-FT 216	38 LB-FT 342	40

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	15 SEC.	2	140 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	T	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
 - FT-LB NONE V NONE Hz

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DATE: 06/22/2017 06:50:31 AM
 FORM 3531 REV.3 02/07/99
 ** Subject to change without notice.