marathon®

Washdown Motors

Model No: 213TTWDD16026
Catalog No: 141273.00M

Washdown Motor, 7.50 & 5 HP, 3 Ph, 60 & 50 Hz, 230/460 & 190/380 V, 1800 RPM, 213JM Frame, TEFC

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Product Information Packet: Model No: 213TTWDD16026, Catalog No: 141273.00M Washdown Motor, 7.50 & 5 HP, 3 Ph, 60 & 50 Hz, 230/460 & 190/380 V, 1800 RPM, 213JM 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	**1765 & 1475 r/min**	Synchronous RPM	**1800 & 1500 r/min**
Service Factor	**1.15 & 1.15**	Frame	**213JM**
Enclosure	**Totally Enclosed Fan Cooled**	Thermal Protection	**No Protection**
Efficiency	**91.7 & 90.2 %**	Ambient Temperature	**40 °C**
Frequency	**60 & 50 Hz**	Current	**19.6/9.8 & 16.6/8.3 A**
Power Factor	**78.3**	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**

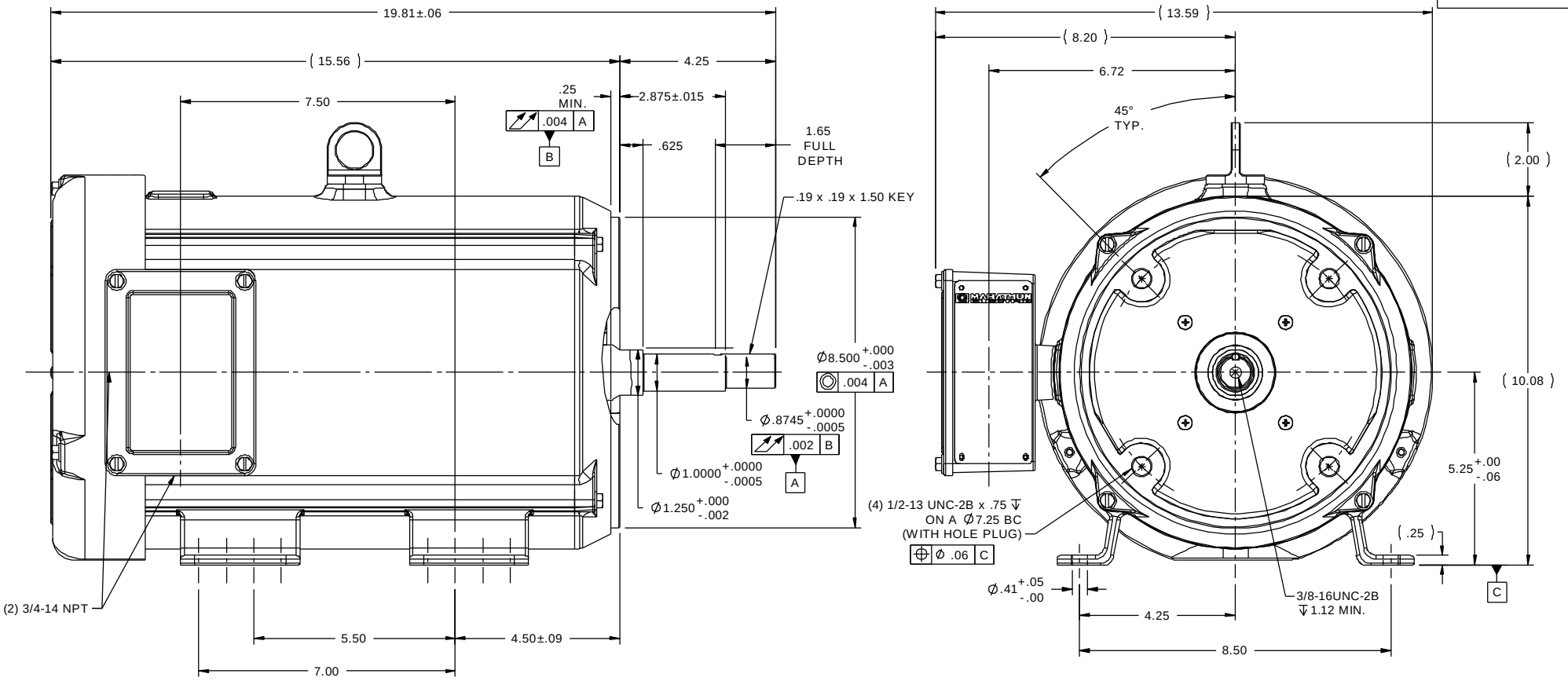
Technical Specifications

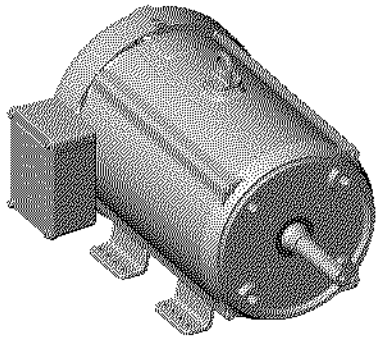
Electrical Type	**Squirrel Cage Inverter Rated**	Starting Method	**Line Or Inverter**
Poles	**4**	Rotation	**Reversible**
Resistance Main	**1.18 O**	Mounting	**Rigid Base**
Motor Orientation	**Horizontal**	Drive End Bearing	**Ball**
Opp Drive End Bearing	**Ball**	Frame Material	**Stainless Steel**
Shaft Type	**JM**	Overall Length	**19.81 in**
Shaft Diameter	**7/8 in**	Shaft Extension	**4.25 in**
Assembly/Box Mounting	**F1 Only**	Inverter Load	**Constant 3:1**

Drawings

Connection Drawing	**005010.01ME**	Outline Drawing	**037618ME.00**

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ISOMETRIC VIEW
SCALE 1=6

NO	REVISION	BY & DATE	CHK

TOLERANCES UNLESS SPECIFIED
DEC INCHES
.X ±.1
.XX ±.03
.XXX ±.005
.XXXX ±.0005
ANG ±1/2°

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TITLE OUTLINE - 210TC FRAME
TEFC - RIGID "C" - JM PUMP
MAT'L WASHGUARD ALL STAINLESS STEEL MOTOR
FINISH
CAD FILE

DRAWN	PVR 10/24/13
CHK	JD 10/24/13
APPR	
SCALE	3:8
REF	037618
FMF	213TTWD14002
PREV	

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Data Sheet

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

marathon® electric

213TTWDD16026

Submittal

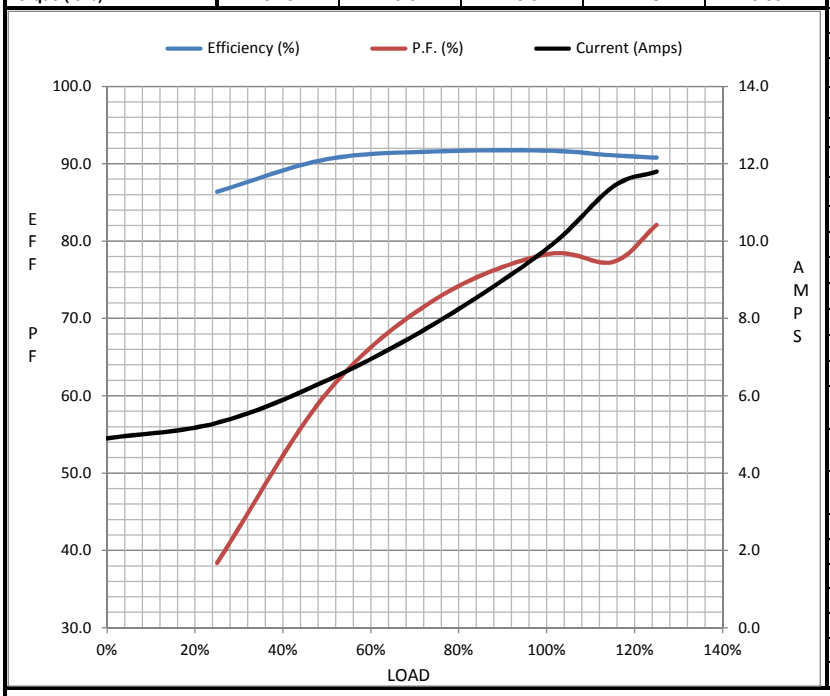
Data @ 460 V

Motor Load Data

Load	0%	25%	50%	75%	100%	115%	125%	LR	
Current (Amps)	4.9	5.3	6.4	7.9	9.8	11.4	11.8	67.5	
Torque (ft-lb)	0.00	5.5	11.0	16.6	22.3	25.5	28.0	52.9	
RPM	1800	1792	1785	1775	1765	1,765	1762	0	
Efficiency (%)		86.4	90.6	91.6	91.7	91.1	90.8		
P.F. (%)	4.9	38.4	60.4	72.6	78.3	77.3	82.1	42.6	

Motor Speed Data

	LR	Pull-Up	BD	Rated	Idle
Speed (RPM)	0	900	1600	1765	1800
Current (Amps)	67.5	57.0	41.0	9.8	4.9
Torque (ft-lb)	52.9	49.0	75.0	22.3	0.00



Information Block

HP	7.5
Sync. RPM	1800
Frame	213
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 wk²	0.85 Lb-Ft²
Ref Wdg	K2134279 R1
Sound Pressure @ 1M	62 dBA
VFD Rating	CONSTANT 3:1
Outline Dwg	037618
Conn. Diag	005010.01

Additional Specifications:

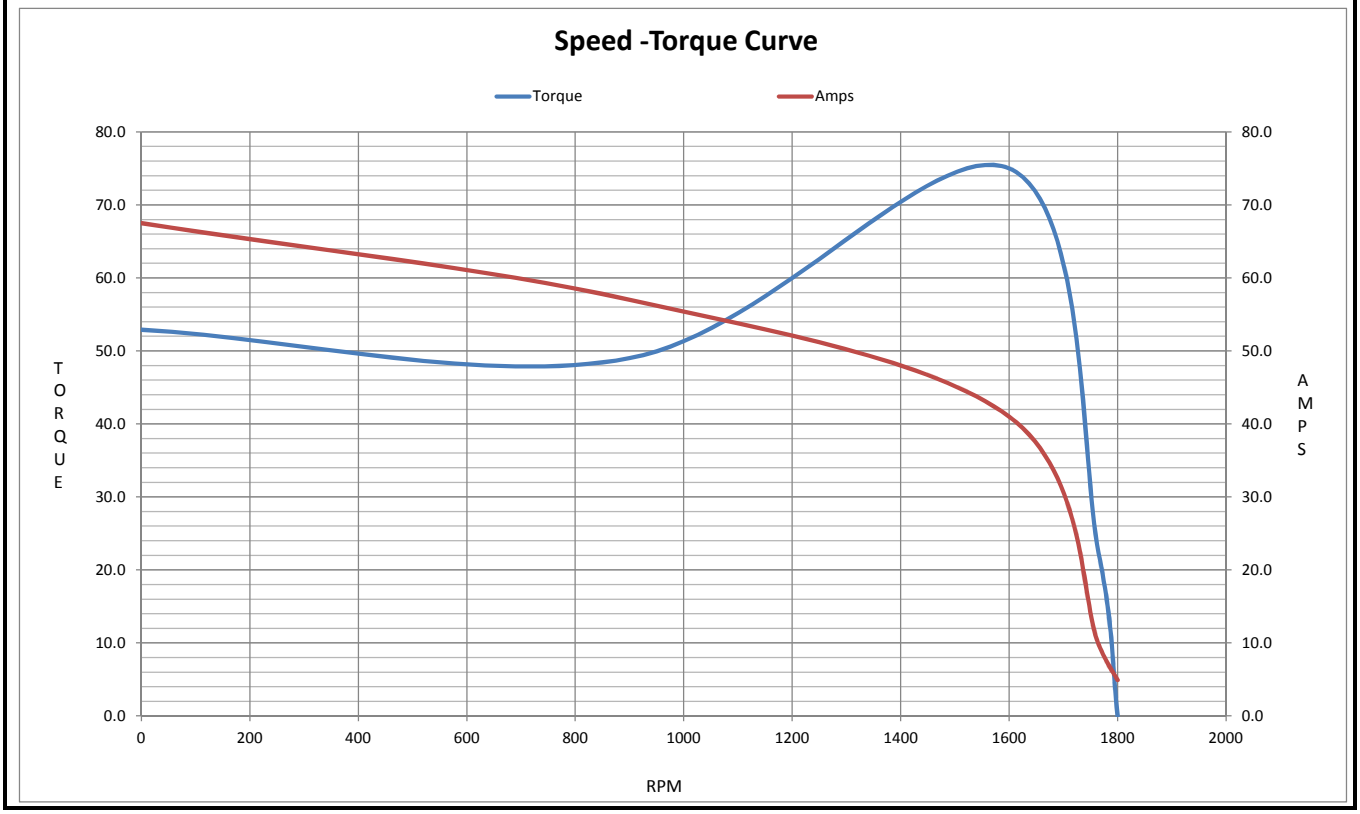
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365THFS8036

EQUIV CKT (OHMS / PHASE)

R1	R2	X1	X2	Xm
0.7600	1.1080	2.4580	3.1730	50.4140

Speed -Torque Curve



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CERTIFICATION DATA SHEET

Model#:	213TTWDD16026 AA	**WINDING#:**	K2134279 R1 2
CONN. DIAGRAM:	005010.01	**ASSEMBLY:**	F1 ONLY
OUTLINE:	037618		

TYPICAL MOTOR PERFORMANCE DATA

HP	KW	SYNC. RPM	F.L. RPM	FRAME	ENCLOSURE	KVA CODE	DESIGN
7 1/2&5	5.60&3.70	1800	1765&1475	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	19.6/9.8&16.6/8.3	LINE OR INVERTER	CONTINUOUS	F4	1.15/1.15	40	3300

FULL LOAD EFF: 91.7&90.2	3/4 LOAD EFF: 91.6	1/2 LOAD EFF: 90.6	GTD. EFF	ELEC. TYPE	NO LOAD AMPS
FULL LOAD PF: 78.3&75.5	3/4 LOAD PF: 72.6	1/2 LOAD PF: 60.4	91	SQ CAGE INV RATED	9.8 / 4.9

F.L. TORQUE	LOCKED ROTOR AMPS	L.R. TORQUE	B.D. TORQUE	F.L. RISE°C
22.3 LB-FT	135 / 67.5	52.9 LB-FT 238	75 LB-FT 338	55

SOUND PRESSURE @ 3 FT.	SOUND POWER	ROTOR WK^2	MAX. WK^2	SAFE STALL TIME	STARTS /HOUR	APPROX. MOTOR WGT
62 dBA	72 dBA	0.85 LB-FT^2	62 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 6209	BALL 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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