marathon®

Washdown Motors

Model No: 184TTWD16003
Catalog No: 132451.00M

Washdown Motor, 5 & 3 HP, 3 Ph, 60 & 50 Hz, 230/460 & 190/380 V, 3600 RPM, 184JM Frame, TEFC

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Product Information Packet: Model No: 184TTWD16003, Catalog No: 132451.00M Washdown Motor, 5 & 3 HP, 3 Ph, 60 & 50 Hz, 230/460 & 190/380 V, 3600 RPM, 184JM Frame, TEFC

Nameplate Specifications

Phase	**3**	Output HP	**5 & 3 Hp**
Output KW	**3.7 & 2.2 kW**	Voltage	**230/460 & 190/380 V**
Speed	**3495 & 2920 r/min**	Synchronous RPM	**3600 & 3000 r/min**
Service Factor	**1.15 & 1.15**	Frame	**184JM**
Enclosure	**Totally Enclosed Fan Cooled**	Thermal Protection	**No Protection**
Efficiency	**88.5 & 87.5 %**	Ambient Temperature	**40 °C**
Frequency	**60 & 50 Hz**	Current	**12/6 & 9.2/4.6 A**
Power Factor	**89.5**	Duty	**Continuous**
Insulation Class	**F**	Design Code	**B**
KVA Code	**J**	Drive End Bearing Size	**6207**
Opp Drive End Bearing Size	**6207**	UL	**Recognized**
CSA	**Y**	CE	**Y**
IP Code	**56**	Number of Speeds	**1**

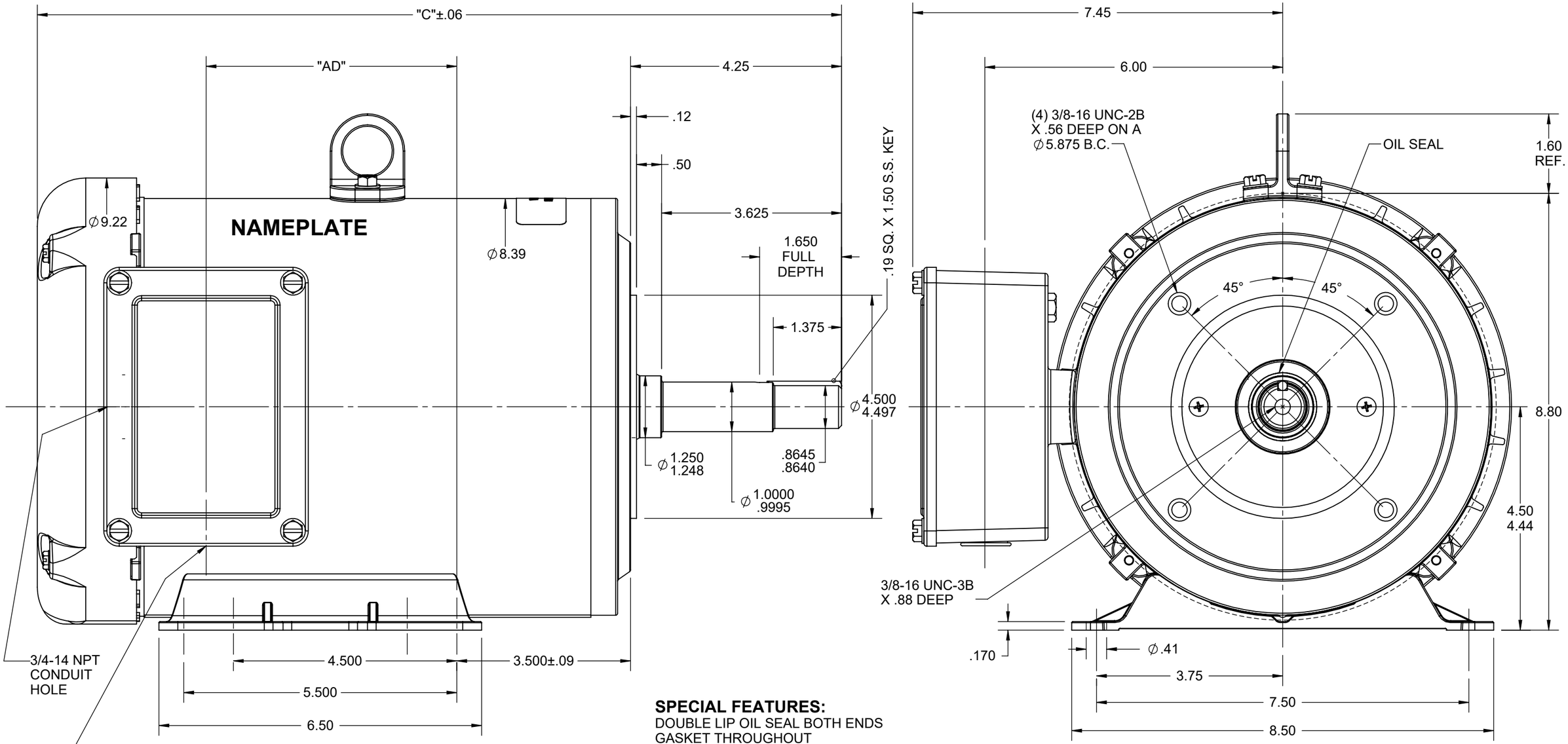
Technical Specifications

Electrical Type	**Squirrel Cage Inverter Rated**	Starting Method	**Line Or Inverter**
Poles	**2**	Rotation	**Selective Clockwise**
Resistance Main	**2.32 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	**16.77 in**
Frame Length	**9.5 in**	Shaft Diameter	**7/8 in**
Shaft Extension	**4.25 in**	Assembly/Box Mounting	**F1 Only**
Inverter Load	**Variable 10:1**		

Drawings

Connection Drawing	**005010.01ME**	Outline Drawing	**035484ME-950**

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SPECIAL FEATURES:
DOUBLE LIP OIL SEAL BOTH ENDS
GASKET THROUGHOUT
O-RING SEALED ENDBELLS & THRU BOLTS
LOCKED BEARING W/ SEALED LOCK SCREWS

MAXIMUM FACE RUNOUT TO BE .004 T.I.R.
MAXIMUM PILOT ECCENTRICITY TO BE .004 T.I.R.
PERMISSIBLE SHAFT RUNOUT TO BE .002 T.I.R.

DASH NO.	"C"	"AD"
900	16.20	5.06
950	16.77	5.56
1000	17.27	6.06

DRAWING REVISION	REVISION BY	REV DATE/© DATE
C	DKB	12/9/2024
REQUEST NUMBER	APPROVED BY	DATE
NMR-0234654	DKB	12/9/2024
REQUEST NUMBER DESCRIPTION: NP LOCATION UPDATED		

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TOLERANCES (EXCEPT AS NOTED):

DEC.	INCH	mm	ANGLE
.X	±0.1	[±3]	±0.5°
.XX	±0.03	[±0.8]	
.XXX	±0.005	[±0.13]	
.XXXX	±0.0005	[±0.013]	

REMOVE BURRS & BREAK SHARP EDGES: .003/.015 [.08/.38] X 45°
CORNER FILLETS: R.02 [.5]
MACHINED SURFACES: 125 INCH / 3.2 mm
mm DIMENSIONS IN [BRACKETS] ARE FOR REFERENCE ONLY

DRAWN BY	GR
DATE	03/15/2013
APPROVED BY	GR
DATE	03/15/2013
REFERENCE	
THIRD ANGLE PROJECTION	

marathon™

DESCRIPTION	OUTLINE TEFC - RIGID "C"
MATERIAL	STAINLESS STEEL DUCK
PROCESS/FINISH	
SIZE	B
DRAWING NUMBER	035484ME
SHEET	1 OF 1

Data Sheet

Date: 29-06-2017
Customer:
Attention:
Submitted by: FAREEDA DUDEKULA

marathon® electric

184TTWD16003

Submittal

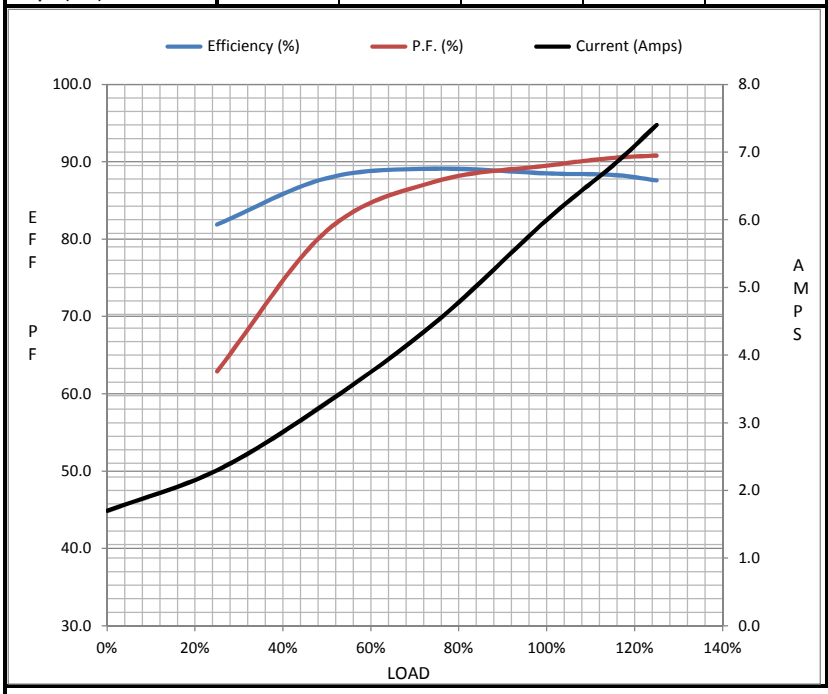
Data @ 460 V

Motor Load Data

Load	0%	25%	50%	75%	100%	115%	125%	LR	
Current (Amps)	1.70	2.30	3.3	4.5	6.0	6.8	7.4	46.0	
Torque (ft-lb)	0.00	1.80	3.7	5.6	7.5	8.7	9.5	16.0	
RPM	3600	3576	3551	3526	3495	3,477	3463	0	
Efficiency (%)		81.9	87.9	89.1	88.5	88.3	87.6		
P.F. (%)	12.5	62.9	81.1	87.5	89.5	90.5	90.8	45.5	

Motor Speed Data

	LR	Pull-Up	BD	Rated	Idle
Speed (RPM)	0	170	2850	3495	3600
Current (Amps)	46.0	47.0	30.0	6.0	1.70
Torque (ft-lb)	16.0	15.5	26.0	7.5	0.00



Information Block

HP	5.0
Sync. RPM	3600
Frame	180
Enclosure	TEFC
Construction	TFW
Voltage	230/460#190/380 V
Frequency	60 Hz
Design	B
LR Code letter	J
Service Factor	1.15
Temp Rise @ FL	55 ° C
Duty	CONT
Ambient	40 ° C
Elevation	1,000 feet
Rotor/Shaft wk²	0.30 Lb-Ft²
Ref Wdg	T82103 R1
Sound Pressure @ 1M	75 dBA
VFD Rating	CONSTANT 3:1
Outline Dwg	035484ME-950
Conn. Diag	005010.01

Additional Specifications:

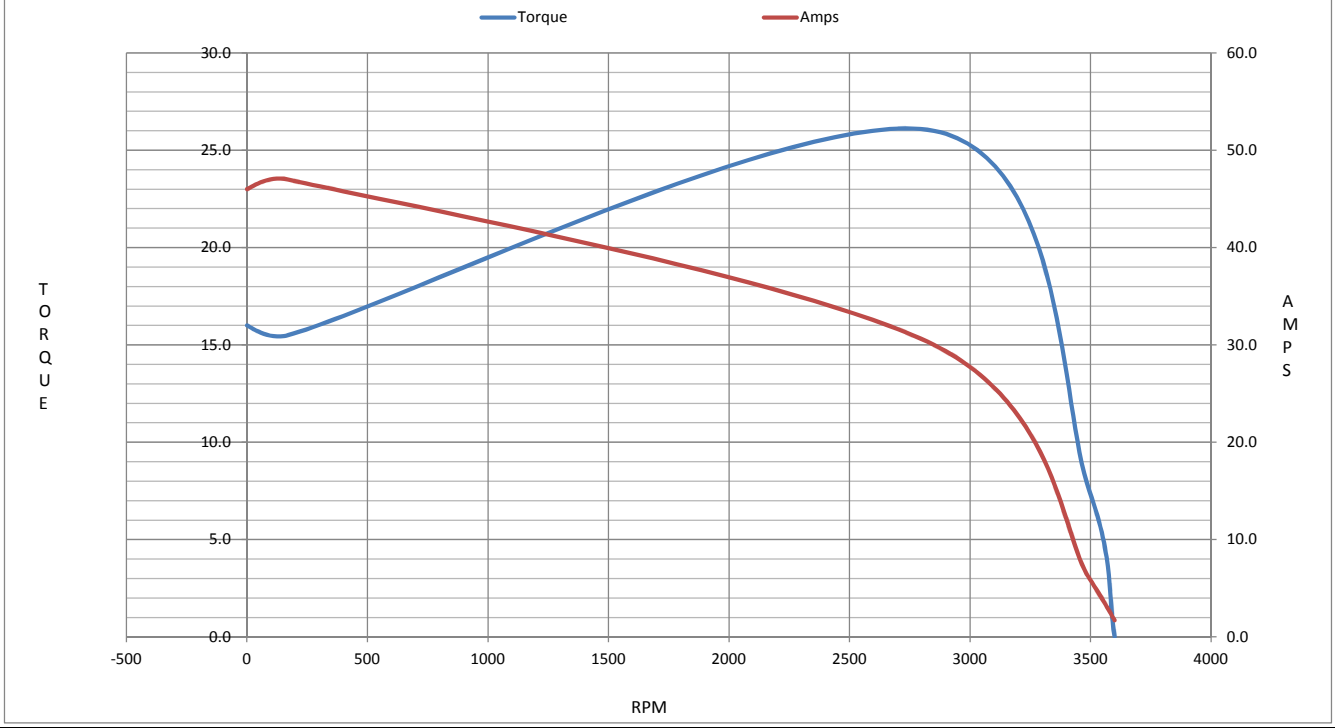
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365THFS8036

EQUIV CKT (OHMS / PHASE)

R1	R2	X1	X2	Xm
1.3920	1.1300	4.8110	1.8460	124.9600

Speed -Torque Curve



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CERTIFICATION DATA SHEET

Model#:	184TTWD16003 AA	**WINDING#:**	T82103 R1 3
CONN. DIAGRAM:	005010.01	**ASSEMBLY:**	F1 ONLY
OUTLINE:	035484ME-950		

TYPICAL MOTOR PERFORMANCE DATA

HP	KW	SYNC. RPM	F.L. RPM	FRAME	ENCLOSURE	KVA CODE	DESIGN
5&3	3.70&2.24	3600	3495&2920	184JM	TEFC	J	B

PH	Hz	VOLTS	FL AMPS	START TYPE	DUTY	INSL	S.F	AMB°C	ELEVATION
3	60/50	230/460#190/380	12/6&9.2/4.6	LINE OR INVERTER	CONTINUOUS	F4	1.15/1.15	40	3300

FULL LOAD EFF: 88.5&87.5	3/4 LOAD EFF: 89.1	1/2 LOAD EFF: 87.9	GTD. EFF	ELEC. TYPE	NO LOAD AMPS
FULL LOAD PF: 89.5&86	3/4 LOAD PF: 87.5	1/2 LOAD PF: 81.1	86.2	SQ CAGE INV RATED	3.4 / 1.7

F.L. TORQUE	LOCKED ROTOR AMPS	L.R. TORQUE	B.D. TORQUE	F.L. RISE°C
7.5 LB-FT	92 / 46	16 LB-FT 213	26 LB-FT 347	55

SOUND PRESSURE @ 3 FT.	SOUND POWER	ROTOR WK^2	MAX. WK^2	SAFE STALL TIME	STARTS /HOUR	APPROX. MOTOR WGT
75 dBA	85 dBA	0.3 LB-FT^2	13 LB-FT^2	15 SEC.	2	125 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 6207	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

* NOTES *

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