marathon®

Washdown Motors

Model No: 184TTWD16002
Catalog No: 132207.00M

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

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Product Information Packet: Model No: 184TTWD16002, Catalog No: 132207.00M Washdown Motor, 5 & 5 HP, 3 Ph, 60 & 50 Hz, 230/460 & 190/380 V, 3600 RPM, 184TC Frame, TEFC

Nameplate Specifications

Phase	**3**	Output HP	**5 & 5 Hp**
Output KW	**3.7 & 3.7 kW**	Voltage	**230/460 & 190/380 V**
Speed	**3495 & 2865 r/min**	Synchronous RPM	**3600 & 3000 r/min**
Service Factor	**1.25 & 1.25**	Frame	**184TC**
Enclosure	**Totally Enclosed Fan Cooled**	Thermal Protection	**No Protection**
Efficiency	**88.5 & 86 %**	Ambient Temperature	**40 °C**
Frequency	**60 & 50 Hz**	Current	**12/6 & 14/7 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	**T**	Overall Length	**15.27 in**
Frame Length	**9.5 in**	Shaft Diameter	**1 1/8 in**
Shaft Extension	**2.88 in**	Assembly/Box Mounting	**F1 Only**
Inverter Load	**Variable 10:1**		

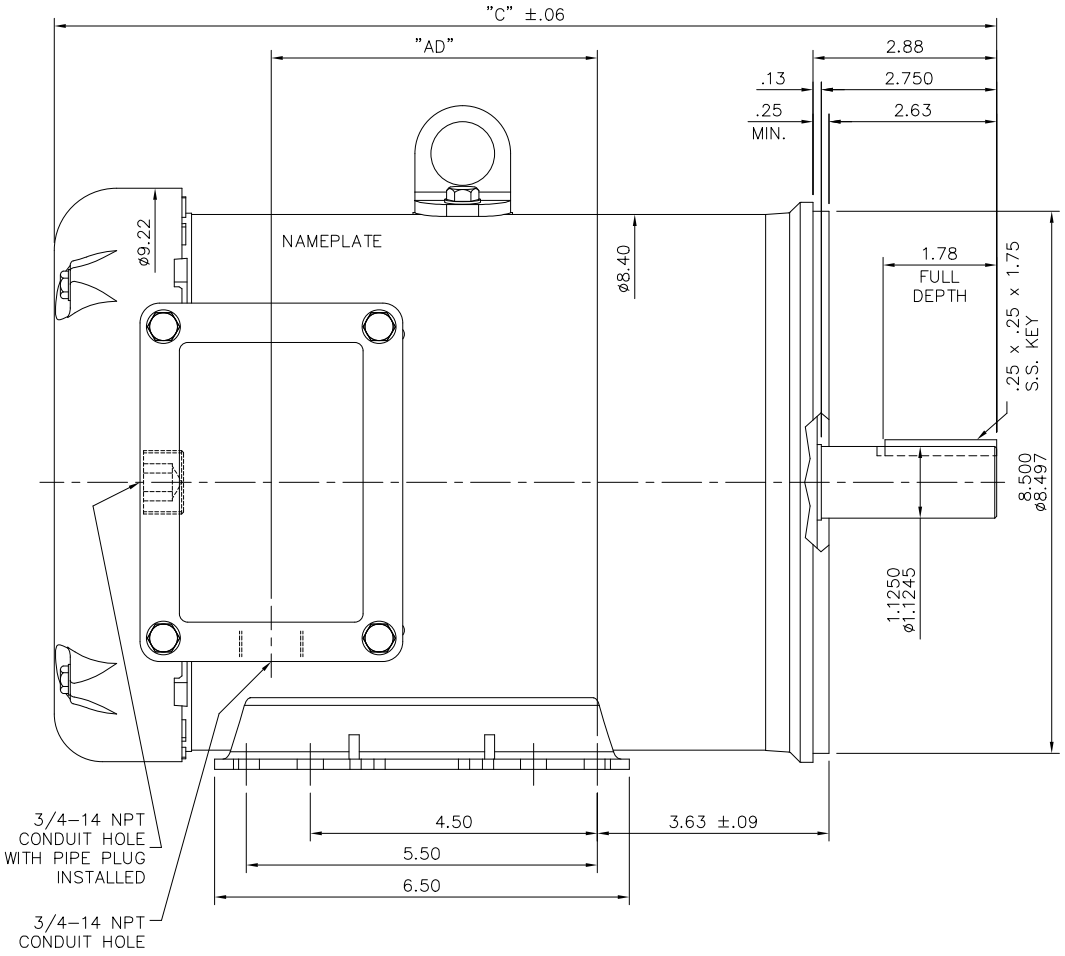
Drawings

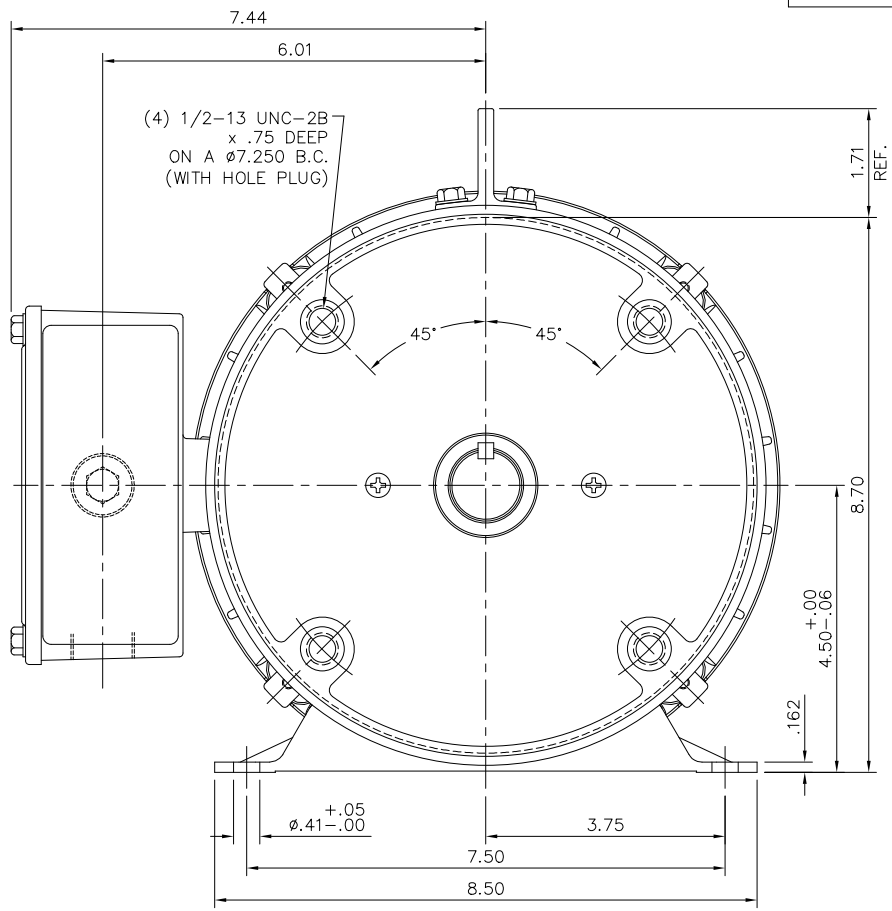
Connection Drawing	**005010.01ME**	Outline Drawing	**035437ME-950**

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035437ME





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.

SPECIAL FEATURES:
1) DOUBLE LIP OIL SEALS BOTH ENDS.
2) GASKETS THROUGHOUT.
3) O-RING SEALED ENDBELLS & THRU BOLTS.
4) LOCKED BEARING W/SEALED LOCK SCREWS.

DASH NO.	"C"	"AD"
850	14.27	4.61
900	14.77	5.11
950	15.27	5.61
1000	15.77	6.11

NO.	REVISION	BY & DATE	CHK
03	NAMPLATE LOCATION & TABLE UPDATED; NMR-0234643	DKB 11/28/24	NG
02	14.77 WAS 14.87, 15.27 WAS 15.37	JJK 09/25/03	
01	ADDED HOLE PLUG PER ECO 03-617	LST 08/07/03	

TOLERANCES UNLESS SPECIFIED
DEC. INCHES
.X ±.1
.XX ±.03
.XXX ±.005
.XXXX ±.0005
ANG ±7'30"

MARATHON ELECTRIC

TITLE: OUTLINE - 180TC FRAME TEFC - RIGID "C"
MAT'L. STAINLESS STEEL DUCK
FINISH

DRAWN JJK 04/04/02
CHK
APPD
SCALE 1=2
REF OLG131167
FMF G131901.00
PREV

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REV. 03

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Data Sheet

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

marathon® electric

184TTWD16002

Submittal

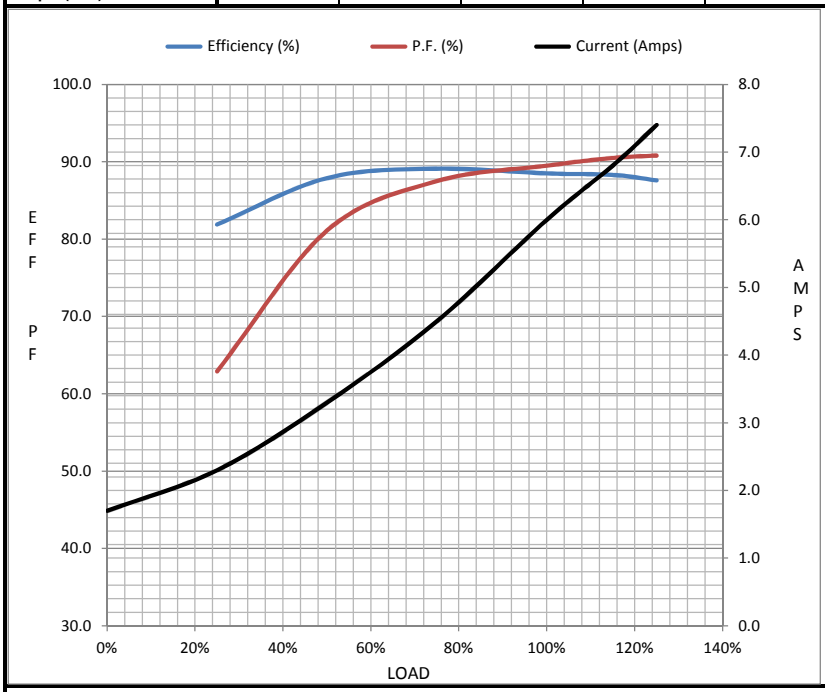
Data @ 460 V

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	47.0	
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. (%)	14.8	62.9	81.1	87.5	89.5	90.5	90.8	0.0	

Motor Speed Data

	LR	Pull-Up	BD	Rated	Idle
Speed (RPM)	0	1800	2850	3495	3600
Current (Amps)	47.0	42.0	30.0	6.0	1.70
Torque (ft-lb)	16.0	14.0	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	0.00 Lb-Ft²
Ref Wdg	T82103 FR
Sound Pressure @ 1M	0 dBA
VFD Rating	CONSTANT 3:1
Outline Dwg	035437ME-950
Conn. Diag	005010.01ME

Additional Specifications:

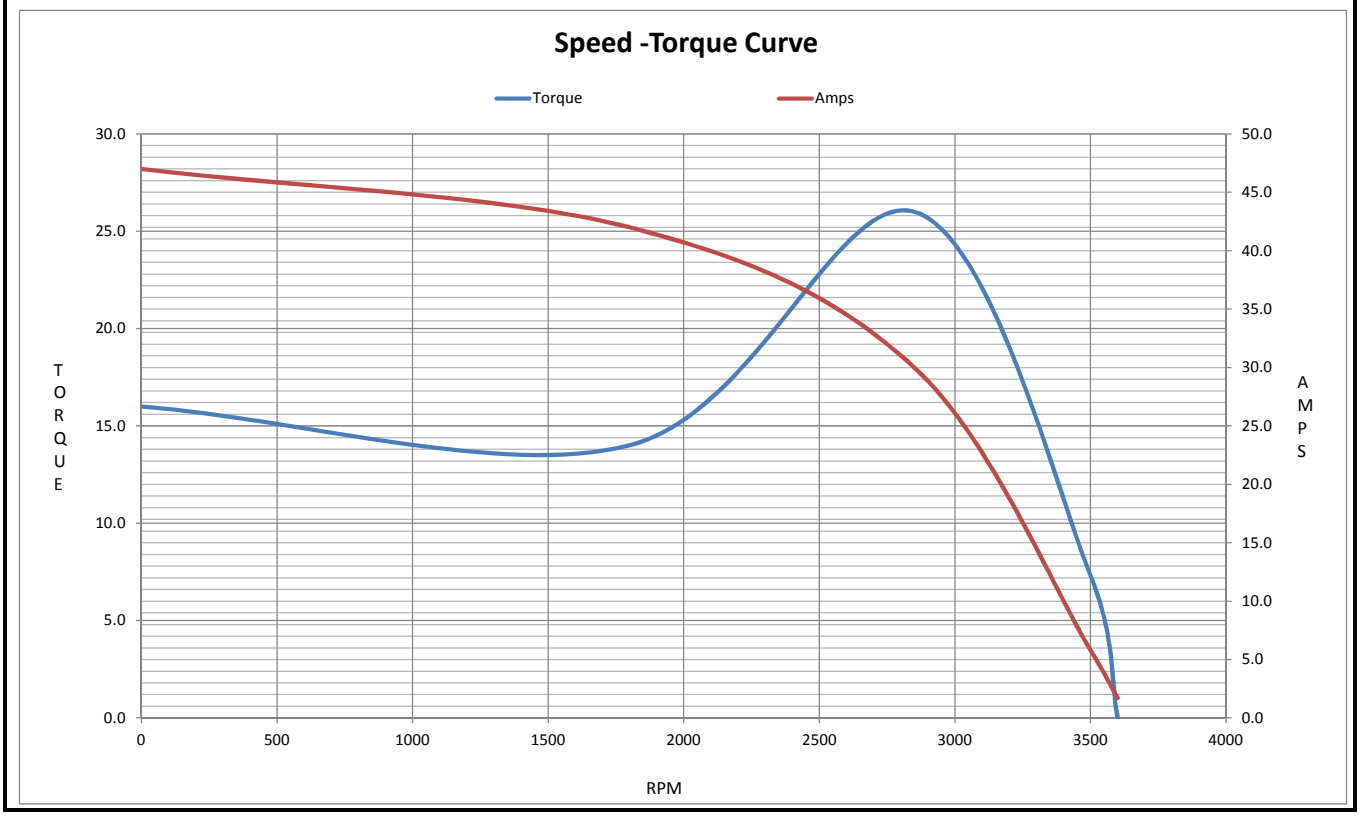
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365THFS8036

EQUIV CKT (OHMS / PHASE)

R1	R2	X1	X2	Xm
0.0000	0.0000	0.0000	0.0000	0.0000

Speed -Torque Curve



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CERTIFICATION DATA SHEET

Model#:	184TTWD16002 AA	**WINDING#:**	T82103 FR 3
CONN. DIAGRAM:	005010.01ME	**ASSEMBLY:**	F1 ONLY
OUTLINE:	035437ME-950		

TYPICAL MOTOR PERFORMANCE DATA

HP	KW	SYNC. RPM	F.L. RPM	FRAME	ENCLOSURE	KVA CODE	DESIGN
5&5	3.7&3.7	3600	3515&2910	184TC	TEFC	K	B

PH	Hz	VOLTS	FL AMPS	START TYPE	DUTY	INSL	S.F	AMB°C	ELEVATION
3	60/50	230/460#190/380	12/6&14/7	LINE OR INVERTER	CONTINUOUS	F4	1.25/1.25	40	3300

FULL LOAD EFF: 88.5&88.5	3/4 LOAD EFF: 89.1	1/2 LOAD EFF: 87.9	GTD. EFF	ELEC. TYPE	NO LOAD AMPS
FULL LOAD PF: 89&92.5	3/4 LOAD PF: 87.5	1/2 LOAD PF: 81.1	0	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	94 / 47	16 LB-FT 213	26 LB-FT 347	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	0 LB-FT^2	0 LB-FT^2	10 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						
BALL 6207	BALL 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

* NOTES *

DATE: 06/21/2017 11:32:19 AM
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