

Washdown Motors

Model No: 184TTWD6031

Catalog No: 132208.00M

Washdown Motor, 5 HP, 3 Ph, 60 Hz, 230/460 V, 1800 RPM, 184TC Frame, TEFC

Product Information Packet: Model No: 184TTWD6031, Catalog No: 132208.00M Washdown Motor, 5 HP, 3 Ph, 60 Hz, 230/460 V, 1800 RPM, 184TC Frame, TEFC

Nameplate Specifications

Phase	3	Output HP	5 Hp
Output KW	3.7 kW	Voltage	230/460 V
Speed	1760 r/min	Synchronous RPM	1800 r/min
Service Factor	1.15	Frame	184TC
Enclosure	Totally Enclosed Fan Cooled	Thermal Protection	No Protection
Efficiency	89.5 %	Ambient Temperature	40 °C
Frequency	60 Hz	Current	12.6/6.3 A
Power Factor	83.1	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

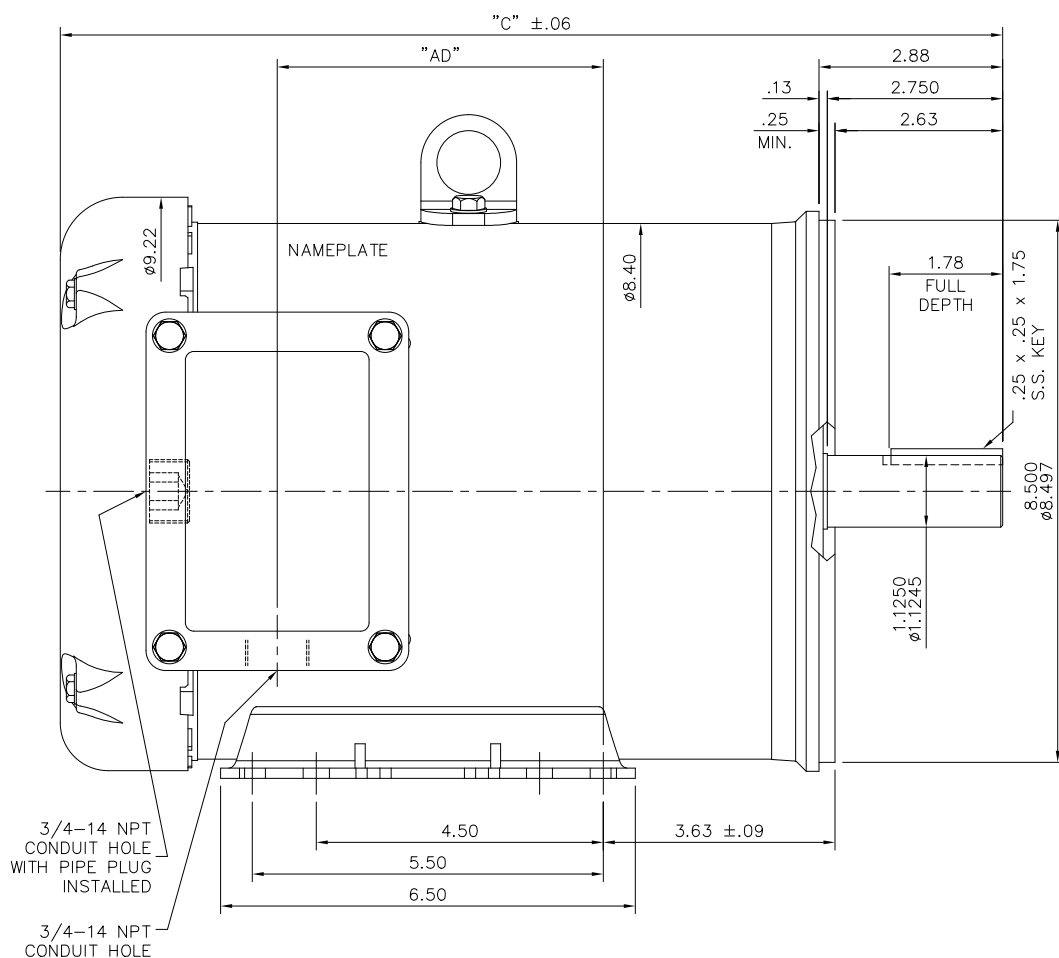
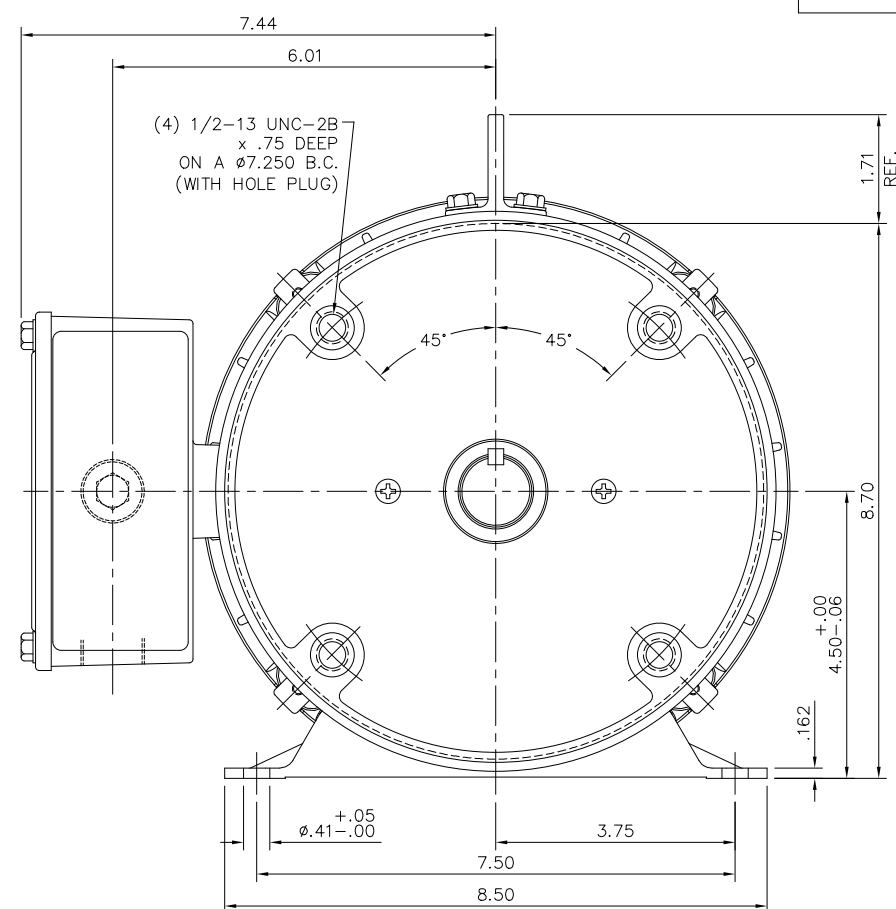
Technical Specifications

Electrical Type	Squirrel Cage Inverter Rated	Starting Method	Line Or Inverter
Poles	4	Rotation	Selective Clockwise
Resistance Main	2.68 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	15.77 in
Frame Length	10.0 in	Shaft Diameter	1 1/8 in
Shaft Extension	2.87 in	Assembly/Box Mounting	F1 Only
Inverter Load	Variable 10:1		

Drawings

Connection Drawing	005010.01ME	Outline Drawing	035437ME-1000
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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

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Data Sheet

Date: 6/19/2017

Customer: _____

Attention: _____

Submitted by: FAREEDA DUDEKULA



184TTWD6031

Submittal

Data @ 460 V

Motor Load Data

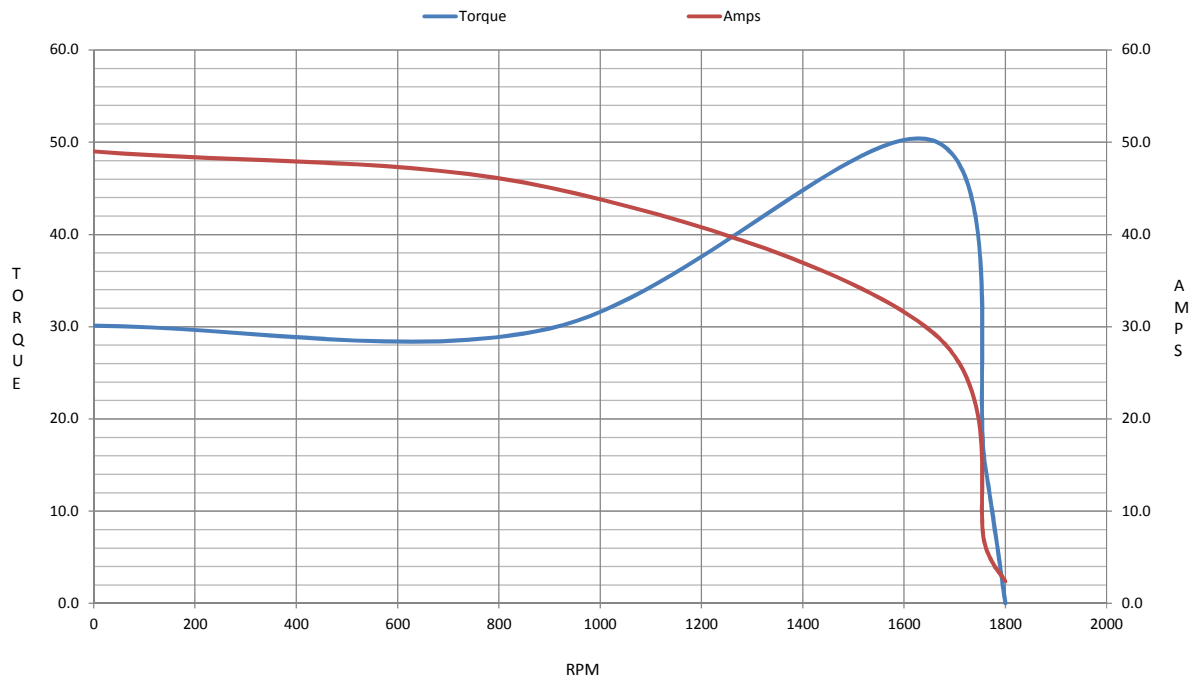
Load	0%	25%	50%	75%	100%	115%	125%	LR	
Current (Amps)	2.40	2.80	3.7	4.9	6.3	7.2	7.8	49.0	
Torque (ft-lb)	0.00	3.7	7.4	11.1	15.0	17.4	18.8	30.1	
RPM	1800	1790	1779	1768	1760	1,747	1742	0	
Efficiency (%)		85.9	88.9	90.2	89.5	89.3	88.0		
P.F. (%)	6.8	48.8	70.9	79.4	83.1	84.2	85.3	0.0	

Motor Speed Data

	LR	Pull-Up	BD	Rated	Idle																																																																																																																																							
Speed (RPM)	0	900	1656	1760	1800																																																																																																																																							
Current (Amps)	49.0	45.1	29.4	6.3	2.40																																																																																																																																							
Torque (ft-lb)	30.1	29.8	50.2	15.0	0.00																																																																																																																																							
<div><div><div>— Efficiency (%)</div><div>— P.F. (%)</div><div>— Current (Amps)</div></div><div>EFFICIENCY (%)</div><div>P.F. (%)</div><div>CURRENT (AMPS)</div><div>LOAD</div></div> <table><tr><td colspan="2">HP</td><td colspan="3">5.0</td></tr><tr><td colspan="2">Sync. RPM</td><td colspan="3">1800</td></tr><tr><td colspan="2">Frame</td><td colspan="3">184</td></tr><tr><td colspan="2">Enclosure</td><td colspan="3">TEFC</td></tr><tr><td colspan="2">Construction</td><td colspan="3">TFW</td></tr><tr><td colspan="2">Voltage</td><td colspan="3">230/460 V</td></tr><tr><td colspan="2">Frequency</td><td colspan="3">60 Hz</td></tr><tr><td colspan="2">Design</td><td colspan="3">B</td></tr><tr><td colspan="2">LR Code letter</td><td colspan="3">J</td></tr><tr><td colspan="2">Service Factor</td><td colspan="3">1.15</td></tr><tr><td colspan="2">Temp Rise @ FL</td><td colspan="3">65 ° C</td></tr><tr><td colspan="2">Duty</td><td colspan="3">CONT</td></tr><tr><td colspan="2">Ambient</td><td colspan="3">40 ° C</td></tr><tr><td colspan="2">Elevation</td><td colspan="3">1,000 feet</td></tr><tr><td colspan="2">Rotor/Shaft wk²</td><td colspan="3">0.49 Lb-Ft²</td></tr><tr><td colspan="2">Ref Wdg</td><td colspan="3">T84170 FR</td></tr><tr><td colspan="2">Sound Pressure @ 1M</td><td colspan="3">55 dBA</td></tr><tr><td colspan="2">VFD Rating</td><td colspan="3">CONSTANT 3:1</td></tr><tr><td colspan="2">Outline Dwg</td><td colspan="3">035437ME-1000</td></tr><tr><td colspan="2">Conn. Diag</td><td colspan="3">005010.01ME</td></tr><tr><td colspan="5">Additional Specifications:</td></tr><tr><td colspan="5">0</td></tr><tr><td colspan="5">0</td></tr><tr><td colspan="5">EQUIV CKT (OHMS / PHASE)</td></tr><tr><td>R1</td><td>R2</td><td>X1</td><td>X2</td><td>Xm</td></tr><tr><td>0.0000</td><td>0.0000</td><td>0.0000</td><td>0.0000</td><td>0.0000</td></tr></table>						HP		5.0			Sync. RPM		1800			Frame		184			Enclosure		TEFC			Construction		TFW			Voltage		230/460 V			Frequency		60 Hz			Design		B			LR Code letter		J			Service Factor		1.15			Temp Rise @ FL		65 ° C			Duty		CONT			Ambient		40 ° C			Elevation		1,000 feet			Rotor/Shaft wk²		0.49 Lb-Ft²			Ref Wdg		T84170 FR			Sound Pressure @ 1M		55 dBA			VFD Rating		CONSTANT 3:1			Outline Dwg		035437ME-1000			Conn. Diag		005010.01ME			Additional Specifications:					0					0					EQUIV CKT (OHMS / PHASE)					R1	R2	X1	X2	Xm	0.0000	0.0000	0.0000	0.0000	0.0000	Information Block				
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Frame		184		
Enclosure		TEFC		
Construction		TFW		
Voltage		230/460 V		
Frequency		60 Hz		
Design		B		
LR Code letter		J		
Service Factor		1.15		
Temp Rise @ FL		65 ° C		
Duty		CONT		
Ambient		40 ° C		
Elevation		1,000 feet		
Rotor/Shaft wk²		0.49 Lb-Ft²		
Ref Wdg		T84170 FR		
Sound Pressure @ 1M		55 dBA		
VFD Rating		CONSTANT 3:1		
Outline Dwg		035437ME-1000		
Conn. Diag		005010.01ME		
Additional Specifications:				
0				
0				
EQUIV CKT (OHMS / PHASE)				
R1	R2	X1	X2	Xm
0.0000	0.0000	0.0000	0.0000	0.0000
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0.0000	0.0000	0.0000	0.0000	0.0000
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R1	R2	X1	X2	Xm
0.0000	0.0000	0.0000	0.0000	0.0000
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0.0000	0.0000	0.0000	0.0000	0.0000
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Rotor/Shaft wk²		0.49 Lb-Ft²		
Ref Wdg		T84170 FR		
Sound Pressure @ 1M		55 dBA		
VFD Rating		CONSTANT 3:1		
Outline Dwg		035437ME-1000		
Conn. Diag		005010.01ME		
Additional Specifications:				
0				
0				
EQUIV CKT (OHMS / PHASE)				
R1	R2	X1	X2	Xm
0.0000	0.0000	0.0000	0.0000	0.0000
Information Block				
Sync. RPM		1800		
Frame		184		
Enclosure		TEFC		
Construction		TFW		
Voltage		230/460 V		
Frequency		60 Hz		
Design		B		
LR Code letter		J		
Service Factor		1.15		
Temp Rise @ FL		65 ° C		
Duty		CONT		
Ambient		40 ° C		
Elevation		1,000 feet		
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Speed -Torque Curve



CERTIFICATION DATA SHEET

Model#: 184TTWD6031 AA
 CONN. DIAGRAM: 005010.01ME
 OUTLINE: 035437ME-1000

WINDING#: T84170 FR 3
 ASSEMBLY: F1/F2 CAPABLE

TYPICAL MOTOR PERFORMANCE DATA

HP	KW	SYNC. RPM	F.L. RPM	FRAME	ENCLOSURE	KVA CODE	DESIGN
5	3.70	1800	1760	184TC	TEFC	J	B

PH	Hz	VOLTS	FL AMPS	START TYPE	DUTY	INSL	S.F	AMB°C	ELEVATION
3	60	230/460	12.6/6.3	LINE OR INVERTER	CONTINUOU S	F4	1.15	40	3300

FULL LOAD EFF: 89.5	3/4 LOAD EFF: 90.2	1/2 LOAD EFF: 88.9	GTD. EFF	ELEC. TYPE	NO LOAD AMPS
FULL LOAD PF: 83.1	3/4 LOAD PF: 79.4	1/2 LOAD PF: 70.9	0	SQ CAGE INV RATED	4.8 / 2.4

F.L. TORQUE	LOCKED ROTOR AMPS	L.R. TORQUE	B.D. TORQUE	F.L. RISE°C
14.96 LB-FT	98 / 49	30.1 LB-FT 201	50.2 LB-FT 336	-

SOUND PRESSURE @ 3 FT.	SOUND POWER	ROTOR WK^2	MAX. WK^2	SAFE STALL TIME	STARTS /HOUR	APPROX. MOTOR WGT
0 dBA	10 dBA	0.485 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	PAIN
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						
6207	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

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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: 06/21/2017 11:44:33 AM
 FORM 3531 REV.3 02/07/99
 ** Subject to change without notice.