

PRODUCT INFORMATION PACKET

marathon®
Motors

Model No: 184TTDW7612

Catalog No: Y1303

Crop Dryer Motor, 7 & 10 HP, 3 Ph, 60 & 60 Hz, 208-220/440 & 208-220/440 V, 3600 & 3600 RPM,
184TZ Frame, DPAO



Regal and Marathon are trademarks of Regal Rexnord Corporation or one of its affiliated companies.

©2023 Regal Rexnord Corporation, All Rights Reserved. MC017097E

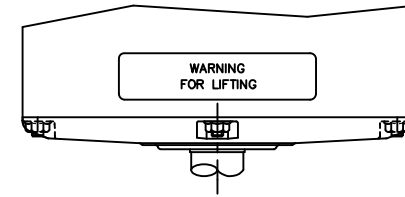
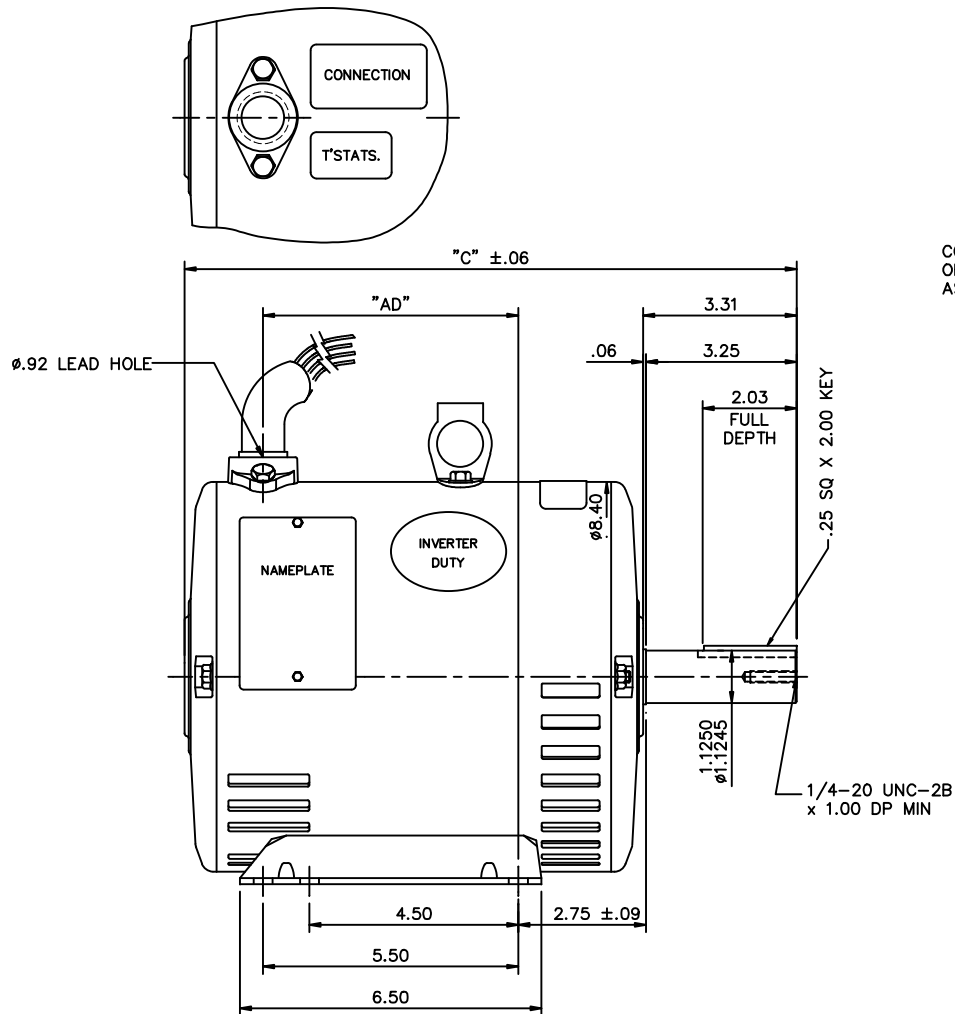
RegalRexnord

Nameplate Specifications

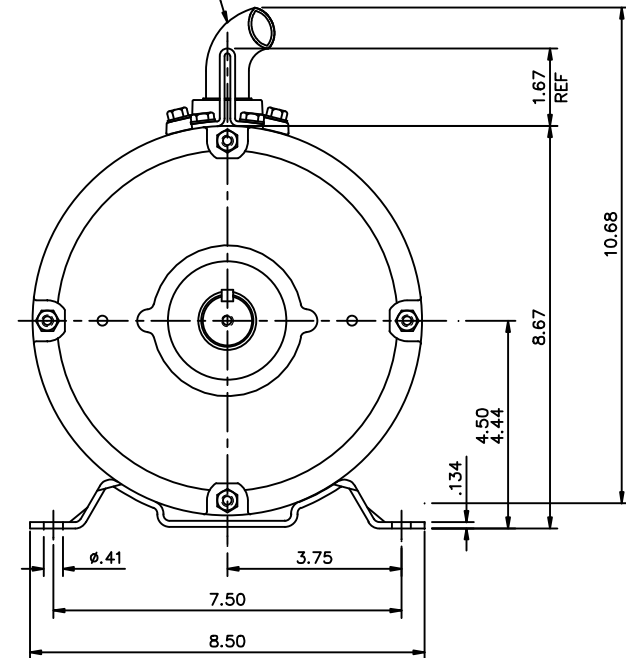
Phase	3	Output HP	7 & 10 Hp
Output KW	5.2 & 7.5 kW	Voltage	208-220/440 & 208-220/440 V
Speed	3490 & 3490 rpm	Service Factor	1.4 & 1.0
Frame	184TZ	Enclosure	Drip Proof Air Over
Thermal Protection	No Protection	Efficiency	85.5 & 85.5 %
Ambient Temperature	40 °C	Frequency	60 & 60 Hz
Current	20.1-19.2/9.6 & 27-25.2/12.6 A	Power Factor	90.5
Duty	Continuous	Insulation Class	F
Design Code	B	KVA Code	H
Drive End Bearing Size	6206	Opp Drive End Bearing Size	6205
UL	Recognized	CSA	Y
CE	N	IP Code	12
Number of Speeds	1		

Technical Specifications

Electrical Type	Squirrel Cage Induction Run	Starting Method	Across The Line
Poles	2	Rotation	Reversible
Resistance Main	0 Ohms	Mounting	Rigid Base
Motor Orientation	Horizontal	Drive End Bearing	Ball
Opp Drive End Bearing	Ball	Frame Material	Rolled Steel
Shaft Type	Single Special Extension	Overall Length	16.19 in
Frame Length	11.50 in	Shaft Diameter	1.125 in
Shaft Extension	3.31 in	Assembly/Box Mounting	F3
Outline Drawing	035639-1150	Connection Drawing	005010.20ME



CONNECTOR TO BE LOCATED 30" OFF SHAFT AXIS TOWARD SHAFT END AS SHOWN

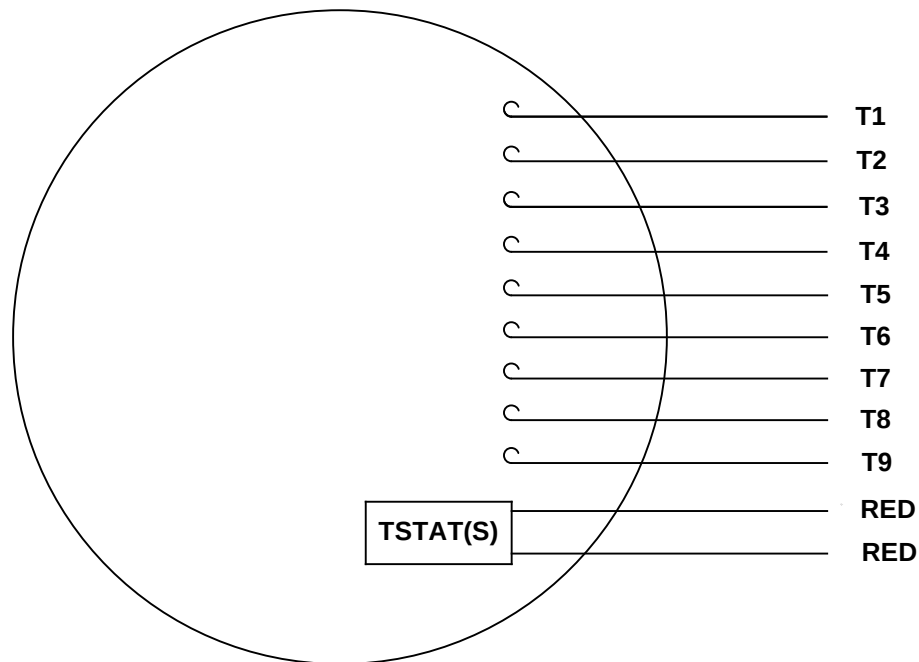


DASH NO.	"C"	"AD"
800	12.69	5.00
850	13.19	5.50
900	13.69	6.00
950	14.19	6.50
1000	14.69	7.00
1050	15.19	7.50
1100	15.69	8.00
1150	16.19	8.50

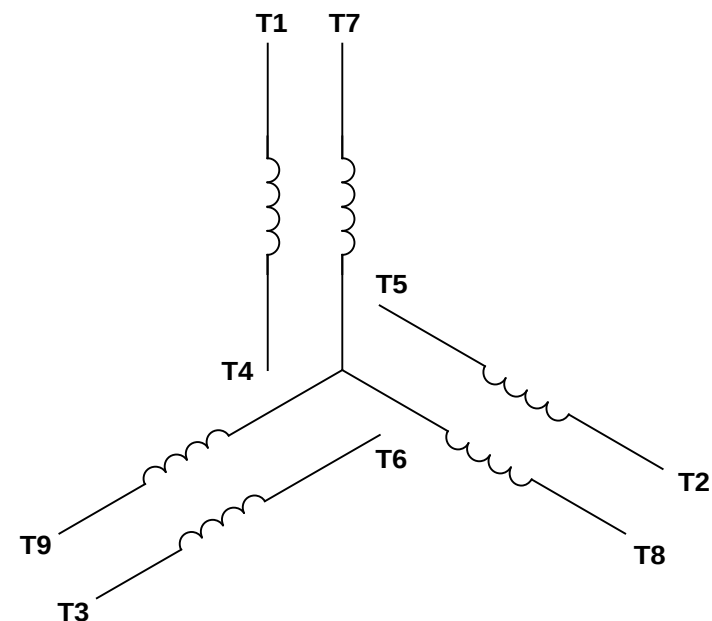
NO.		REVISION	BY & DATE	CHK	ANG	±1/2"	FINISH	SIZE		DRAWING NO.	REV.
THIS DRAWING IN DESIGN AND DETAIL IS OUR PROPERTY AND MUST NOT BE USED EXCEPT IN CONNECTION WITH OUR WORK. ALL RIGHTS OF DESIGN AND INVENTION ARE RESERVED. THIS IS AN ELECTRONICALLY GENERATED DOCUMENT - DO NOT SCALE THIS PRINT				RFP			CAD FILE	035639	B	035639	
				DIST	NLV						

TOLERANCES UNLESS SPECIFIED			DRAWN VV 21/01/08
DEC.	INCHES		CHK
.X	±.1		APPD
.XX	±.03		SCALE 3=8
.XXX	±.005		REF OL132123
.XXXX	±.0005	MAT'L	FMF 184TTDW7612

VIEW FROM OUTSIDE OF MOTOR AT SWITCH END.



LINE LEADS



VOLTAGE	L1	L2	L3	JOIN & INSULATE
HIGH	T1	T2	T3	(T4, T7) (T5, T8) (T6, T9)
LOW	T1, T7	T2, T8	T3, T9	T4, T5, T6

RBC PROPRIETARY AND CONFIDENTIAL INFORMATION
This document is the property of REGAL BELOIT CORPORATION ("RBC") including its subsidiaries and divisions and contains proprietary information of RBC. This document is loaned on the express condition that neither it nor the information contained therein shall be disclosed to others without the express written consent of RBC, and that the information shall be used by the recipient only as approved expressly by RBC. This document shall be returned to RBC upon its request. This document may be subject to certain restrictions under U.S. export control laws and regulations.

				TOLERANCES UNLESS SPECIFIED			DRAWN RDW 04/13/04	
				DEC	INCHES		CHK	
				.X	±.1		APPR	
				.XX	±.01		SCALE	1:1
				.XXX	±.005	TITLE EXTERNAL WIRING DIAGRAM 3 PHASE		REF
--	REDRAWN IN SOLIDWORKS	VJB 02/08/11		.XXXX	±.0005	MAT'L DECAL - 004014 (TSTAT) - 080582		FMF 129027
NO	REVISION	BY & DATE	CHK	ANG	±1/2°	FINISH		PAGE OF
THIRD ANGLE PROJECTION				RFP	PREV	SIZE	DRAWING NO	
				NETWORK FILE NAME 00501020ME		A	005010-20ME	
								REV
								--

CERTIFICATION DATA SHEET

Model#: 184TTDW7612 AA
 CONN. DIAGRAM: 005010.20ME
 OUTLINE: 035639-1150

WINDING#: T8267 R1 3
 ASSEMBLY: F3

TYPICAL MOTOR PERFORMANCE DATA

HP	KW	SYNC. RPM	F.L. RPM	FRAME	ENCLOSURE	KVA CODE	DESIGN
7&10	5.2&7.5	3600	3490&3490	184TZ	DPAO	H	B

PH	Hz	VOLTS	FL AMPS	START TYPE	DUTY	INSL	S.F	AMB°C	ELEVATION
3	60/60	208- 220/440#208- 220/440	20.1- 19.2/9.6&27- 25.2/12.6	ACROSS THE LINE	CONTINUOU S	F4	1.4/1.0	40	3300

FULL LOAD EFF: 85.5&85.5	3/4 LOAD EFF: 87.9	1/2 LOAD EFF: 87	GTD. EFF	ELEC. TYPE	NO LOAD AMPS
FULL LOAD PF: 90.5&90.5	3/4 LOAD PF: 89.7	1/2 LOAD PF: 84.7	0	SQ CAGE IND RUN	6.3 / 3.1

F.L. TORQUE	LOCKED ROTOR AMPS	L.R. TORQUE	B.D. TORQUE	F.L. RISE°C
11.2 LB-FT	190.3 / 95.1	47.3 LB-FT 315	49.7 LB-FT 331	0

SOUND PRESSURE @ 3 FT.	SOUND POWER	ROTOR WK^2	MAX. WK^2	SAFE STALL TIME	STARTS /HOUR	APPROX. MOTOR WGT
71 dBA	81 dBA	0.34 LB-FT^2	12 LB-FT^2	10 SEC.	2	85 LBS.

*** SUPPLEMENTAL INFORMATION ***

DE BRACKET TYPE	ODE BRACKET TYPE	MOUNT TYPE	ORIENTATION	SEVERE DUTY	HAZARDOUS LOCATION	DRIP COVER	SCREENS	PAINT
STANDARD	STANDARD	RIGID	HORIZONTAL	FALSE	NONE	FALSE	NONE	BLUE (ENAMEL)

BEARINGS		GREASE	SHAFT TYPE	SPECIAL DE	SPECIAL ODE	SHAFT MATERIAL	FRAME MATERIAL
DE	OPE						
BALL	BALL	POLYREX EM	SGL SPL EXT	1.125 x 3.25 IN SEK	NONE	1144 STRESSPROOF (C-223)	ROLLED STEEL
6206	6205						

THERMO-PROTECTORS				THERMISTORS	CONTROL	SPACE /n HEATERS
THERMOSTATS	PROTECTORS	WDG RTDs	BRG RTDs			
TSTATS (N/C)	NOT	NONE	NONE	NONE	FALSE	NONE VOLTS

If Inverter equals NONE, contact factory for further information

*
N
O
T
E
S
*

INVERTER TORQUE: NONE
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: 06/28/2017 06:50:06 AM
 FORM 3531 REV.3 02/07/99

** Subject to change without notice.

Data Sheet

Date: 6/29/2017

Customer: _____

Attention: _____

Submitted by: FAREEDA DUDEKULA



184TTDW7612

Submittal

Data @ 440 V

Motor Load Data

Load	0%	25%	50%	75%	100%	115%	125%	LR	
Current (Amps)	3.1	4.3	6.7	9.4	12.7	13.7	14.7	95.1	
Torque (ft-lb)	0.00	3.7	7.4	11.2	15.0	17.0	19.0	47.3	
RPM	3600	3574	3549	3520	3490	3,478	3461	0	
Efficiency (%)		81.7	87.0	87.9	85.5	87.3	89.1		
P.F. (%)	16.0	70.9	84.7	89.7	90.5	91.3	92.1	0.0	

Motor Speed Data

	LR	Pull-Up	BD	Rated	Idle	#VALUE!	
Speed (RPM)	0	200	2200	3490	3600	Information Block	
Current (Amps)	95.1	93.1	71.1	12.7	3.1	HP	#VALUE!
Torque (ft-lb)	47.3	44.7	49.7	15.0	0.00	Sync. RPM	#VALUE!
						Frame	180
						Enclosure	DP
						Construction	TDW
						Voltage	20/440#208-22 V
						Frequency	60 Hz
						Design	A
						LR Code letter	H
						Service Factor	#VALUE!
						Temp Rise @ FL	0 ° C
						Duty	CONT AOM
						Ambient	40 ° C
						Elevation	1,000 feet
						Rotor/Shaft wk ²	0.34 Lb-Ft ²
						Ref Wdg	T8267 R1
						Sound Pressure @ 1M	71 dBA
						VFD Rating	NONE
						Outline Dwg	035639-1150
						Conn. Diag	005010.20ME
Additional Specifications:							
0							
0							
EQUIV CKT (OHMS / PHASE)							
R1		R2		X1		X2	Xm
0.0000		0.0000		0.0000		0.0000	0.0000

Speed -Torque Curve

