

PRODUCT INFORMATION PACKET

marathon®
Motors

Model No: 182TTDB6008

Catalog No: GT0512

Globetrotter® Close-Coupled Pump Motor, 5 HP, 3 Ph, 60 Hz, 575 V, 3600 RPM, 182JM Frame, DP



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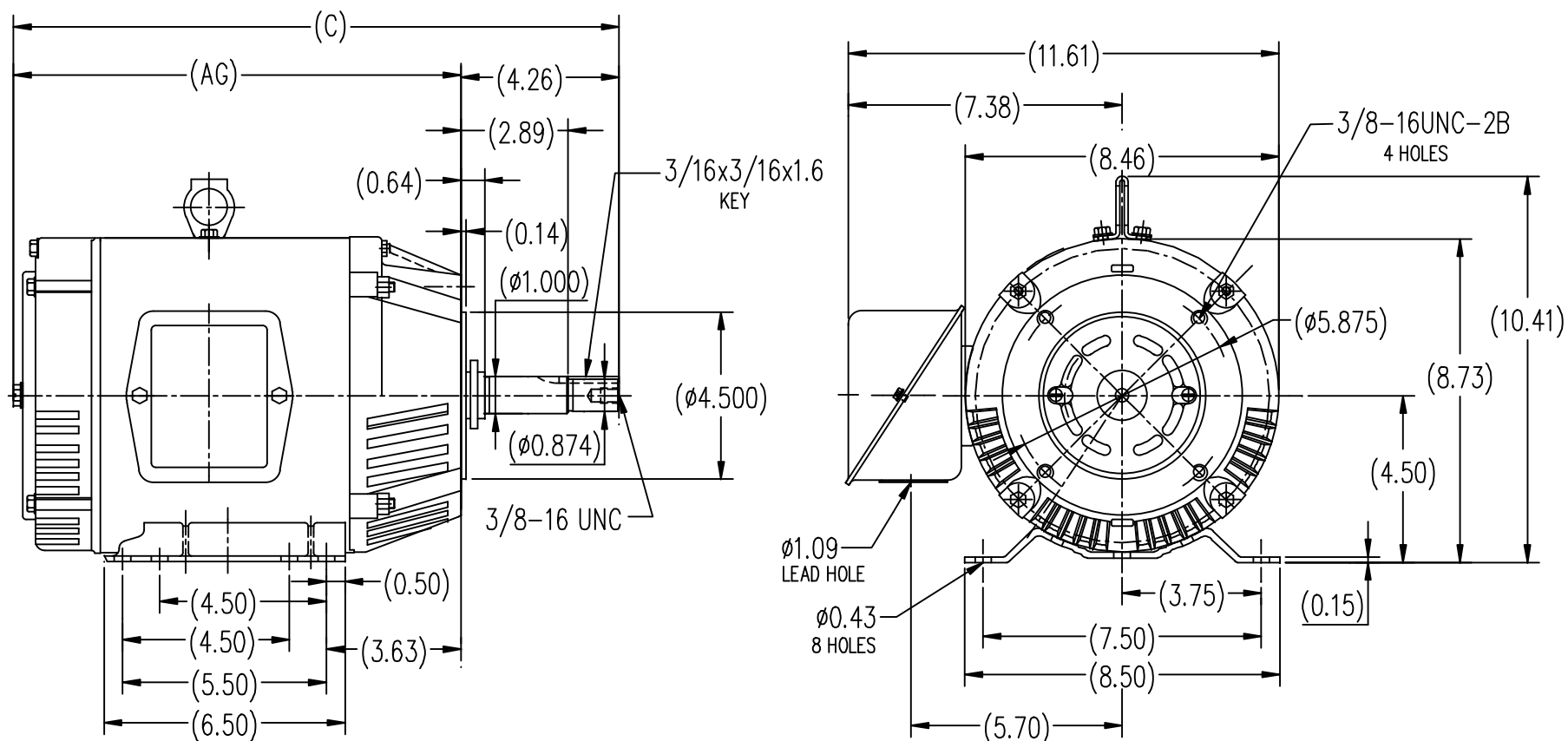
RegalRexnord

Nameplate Specifications

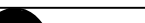
Output HP	5 Hp	Output KW	3.7 kW
Frequency	60 Hz	Voltage	575 V
Current	4.7 A	Speed	3495 rpm
Service Factor	1.15	Phase	3
Efficiency	86.5 %	Power Factor	90
Duty	Continuous	Insulation Class	F
Design Code	B	KVA Code	H
Frame	182JM	Enclosure	Drip Proof
Thermal Protection	No Protection	Ambient Temperature	40 °C
Drive End Bearing Size	6307	Opp Drive End Bearing Size	6205
UL	Recognized	CSA	Y
CE	Y	IP Code	22
Number of Speeds	1		

Technical Specifications

Electrical Type	Squirrel Cage Inverter Rated	Starting Method	Line Or Inverter
Poles	2	Rotation	Reversible
Resistance Main	3.05 Ohms	Mounting	Rigid Base
Motor Orientation	Horizontal	Drive End Bearing	Ball
Opp Drive End Bearing	Ball	Frame Material	Rolled Steel
Shaft Type	JM	Overall Length	16.34 in
Frame Length	6.73 in	Shaft Diameter	0.875 in
Shaft Extension	4.26 in	Assembly/Box Mounting	F1 ONLY
Inverter Load	VARIABLE 10:1		
Outline Drawing	SS620311-182T	Connection Drawing	A-EE7300



182T	12.09	16.34
184T	13.11	17.37
FRAME	AG	C

						 REGAL-BELOIT CORPORATION		DRAWN ZYH 6-9-2010	
					DEC.	INCHES		CHK	HZJ 6-9-2010
					.X	±.1	TITLE OUTLINE 182/184T FR-JM-ROLLED STEEL	APPD	CL 6-9-2010
					.XX	±.03		SCALE	1=4
					.XXX	±.005		REF	
1	CORRECT THE ID FOR AG & C DIM WAS B1 & B		MOD1-09-2012		.XXXX	±.0005	MAT'L	FMF	HWADA
NO.	REVISION		BY & DATE	CHK	ANG	±1/2-	FINISH	PREV	
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	SS620311
							DIST	SIZE	B
								DRAWING NO.	SS620311
								REV.	1

THREE PHASE - SINGLE VOLTAGE
MOTOR - CONDUIT BOX @ 'A'

TO REVERSE ROTATION:
INTERCHANGE ANY TWO LINE
LEAD CONNECTIONS

TERMINAL BLOCK WHEN SPECIFIED

IF MOTOR HAS 9 LEADS

T1(U1) T1(U1) T1(U1) → L1

T2(V1) T2(V1) T2(V1) → L2

T3(W1) T3(W1) T3(W1) → L3

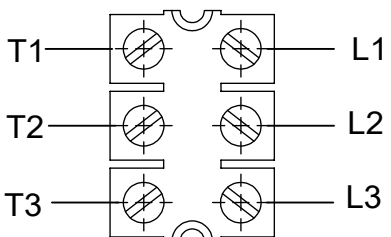
IF MOTOR HAS 6 LEADS

T1(U1) T1(U1) → L1

T2(V1) T2(V1) → L2

T3(W1) T3(W1) → L3

A-9806 DECAL




VIEW OF TERMINAL END

OPTIONAL CORD CONNECTION	
L1	WHITE
L2	RED
L3	BLACK

DRAWING REVISION AC	REVISION BY BS	REV DATE/© DATE 26/07/2022
REQUEST NUMBER CR-0010402	APPROVED BY SN	DATE 26/07/2022
REQUEST NUMBER DESCRIPTION DRAWING UPDATED		
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ARE FOR REFERENCE ONLY

DRAWN BY DA
DATE 03-26-1993
APPROVED BY TB
DATE 03-26-1993
REFERENCE
THIRD ANGLE PROJECTION

 Regal Beloit America, Inc.	
DESCRIPTION CONNECTION DIAGRAM EXTERNAL - SINGLE VOLTAGE - 3Ø MOTOR	
MATERIAL	PROCESS/FINISH
SIZE A	DRAWING NUMBER EE7300
SHEET 1 OF 1	

CERTIFICATION DATA SHEET

Model#: 182TTDB6008 AA

WINDING#: CHT18220006 NONE 3

CONN. DIAGRAM: A-EE7300

ASSEMBLY: F1/F2 CAPABLE

OUTLINE: B-SS620311

TYPICAL MOTOR PERFORMANCE DATA

HP	KW	SYNC. RPM	F.L. RPM	FRAME	ENCLOSURE	KVA CODE	DESIGN
5	3.7	3600	3460	182JM	DP	H	B

PH	Hz	VOLTS	FL AMPS	START TYPE	DUTY	INSL	S.F	AMB°C	ELEVATION
3	60	575	5	LINE OR INVERTER	CONTINUOUS	F7	1.15	40	3300

FULL LOAD EFF: 87.5	3/4 LOAD EFF: 87.5	1/2 LOAD EFF: 86.5	GTD. EFF	ELEC. TYPE	NO LOAD AMPS
FULL LOAD PF: 88	3/4 LOAD PF: 84	1/2 LOAD PF: 74	85.5	SQ CAGE INV RATED	1.9

F.L. TORQUE	LOCKED ROTOR AMPS	L.R. TORQUE	B.D. TORQUE	F.L. RISE°C
7.6 LB-FT	30.4	17 LB-FT 224	22.5 LB-FT 296	55

SOUND PRESSURE @ 3 FT.	SOUND POWER	ROTOR WK^2	MAX. WK^2	SAFE STALL TIME	STARTS /HOUR	APPROX. MOTOR WGT
55 dBA	65 dBA	0.2 LB-FT^2	10 LB-FT^2	10 SEC.	2	75 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	BLUE (ENAMEL)

BEARINGS		GREASE	SHAFT TYPE	SPECIAL DE	SPECIAL ODE	SHAFT MATERIAL	FRAME MATERIAL
DE	OPE						
BALL	BALL						
6307	6205	POLYREX EM	JM	NONE	NONE	1045 HOT ROLLED (C-204)	ROLLED 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: VARIABLE 10:1
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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DATE: 06/27/2017 01:27:43 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



182TTDB6008

Submittal

Data @ 575 V

Motor Load Data

Load	0%	25%	50%	75%	100%	115%	125%	LR	
Current (Amps)	1.92	2.08	2.88	3.8	4.7	5.4	6.0	30.4	
Torque (ft-lb)	0.00	1.80	3.7	5.6	7.6	8.8	9.6	17.0	
RPM	3600	3570	3538	3502	3495	3,475	3450	0	
Efficiency (%)		84.0	86.5	87.5	86.5	86.5	85.5		
P.F. (%)	7.0	52.0	74.0	84.0	90.0	90.0	90.0	61.0	

Motor Speed Data

	LR	Pull-Up	BD	Rated	Idle					
Speed (RPM)	0	1800	2675	3495	3600					
Current (Amps)	30.4	27.2	22.4	4.7	1.92					
Torque (ft-lb)	17.0	15.0	22.5	7.6	0.00					

Efficiency (%)

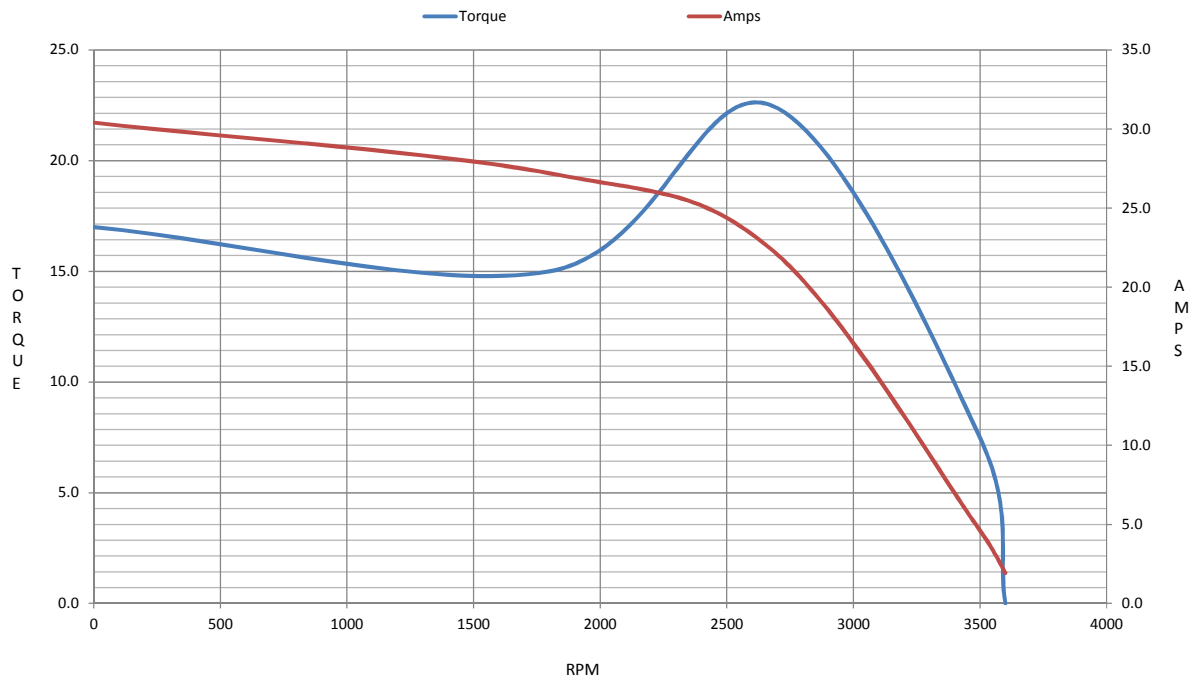
P.F. (%)

Current (Amps)

LOAD	Efficiency (%)	P.F. (%)	Current (Amps)
0%		7.0	1.92
25%	84.0	84.0	2.08
50%	86.5	88.0	2.88
75%	87.5	90.0	3.80
100%	86.5	90.5	4.70
125%	85.5	90.0	6.00

HP	5.0			
Sync. RPM	3600			
Frame	182			
Enclosure	DP			
Construction	TDB			
Voltage	575 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	0.20 Lb-Ft²			
Ref Wdg	CHT18220006 NONE			
Sound Pressure @ 1M	55 dBA			
VFD Rating	VARIABLE 10:1			
Outline Dwg	B-SS620311			
Conn. Diag	A-EE7300			
Additional Specifications:				
0				
0				
EQUIV CKT (OHMS / PHASE)				
R1	R2	X1	X2	Xm
2.8350	2.0380	6.9550	3.1010	255.5930

Speed -Torque Curve



EC Declaration of Conformity

The undersigned representing
the manufacturer:

Regal Beloit America
100 East Randolph St.
Wausau, WI 54401

and the authorized representative
established within the Community:

Marathon Electric UK
6F Thistleton Road Ind. Estate
Market Overton
Oakham, Rutland LE15 7PP UK

are committed to providing customers with products that comply with applicable regulations and international protocols to which they are subject, including the requirements of the European Parliament Directive on the Harmonization of the laws relating to electrical equipment designed for use within certain voltage limits (2014/35/EU).

Regal Beloit America declares that the following product(s), to which this declaration relates, are in conformity with the relevant sections of the EC standards listed below.

This statement supersedes any statements previously issued pertaining to the product(s) listed below and is subject to change without notice.

Model No : 182TTDB6008

(Model No. may contain prefix and/or suffix characters)

Catalog No : GT0512

Rework No : N/A

Directives :

Low Voltage Directive 2014/35/EU

Harmonized Standards Used :

EN 60034-1: 2010 (IEC 60034-1: 2010)

EN 60034-5: 2001/A1:2007 (IEC 60034-5: 2000/A1:2006)

Authorized Representative:



Michael A. Logsdon
Vice President, Technology

Authorized Representative in the Community:



Julian Clark
Marketing Engineer

Created on 09/01/2022

CE 22