

PRODUCT INFORMATION PACKET

marathon®
Motors

Model No: 182TTFB6031

Catalog No: GT3110

Globetrotter® Close-Coupled Pump Motor, 3 & 2 HP, 3 Ph, 60 & 50 Hz, 230/460 & 190/380 V,
1800 & 1500 RPM, 182JM Frame, TEFC



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RegalRexnord

Nameplate Specifications

Phase	3	Output HP	3 & 2 Hp
Output KW	2.2 & 1.5 kW	Voltage	230/460 & 190/380 V
Speed	1750 & 1460 rpm	Service Factor	1.15 & 1.15
Frame	182JM	Enclosure	Totally Enclosed Fan Cooled
Thermal Protection	No Protection	Efficiency	89.5 & 88.5 %
Ambient Temperature	40 °C	Frequency	60 & 50 Hz
Current	7.8/3.9 & 6.6/3.3 A	Power Factor	82
Duty	Continuous	Insulation Class	F
Design Code	B	KVA Code	K
Drive End Bearing Size	6307	Opp Drive End Bearing Size	6205
UL	Recognized	CSA	Y
CE	Y	IP Code	43
Number of Speeds	1		

Technical Specifications

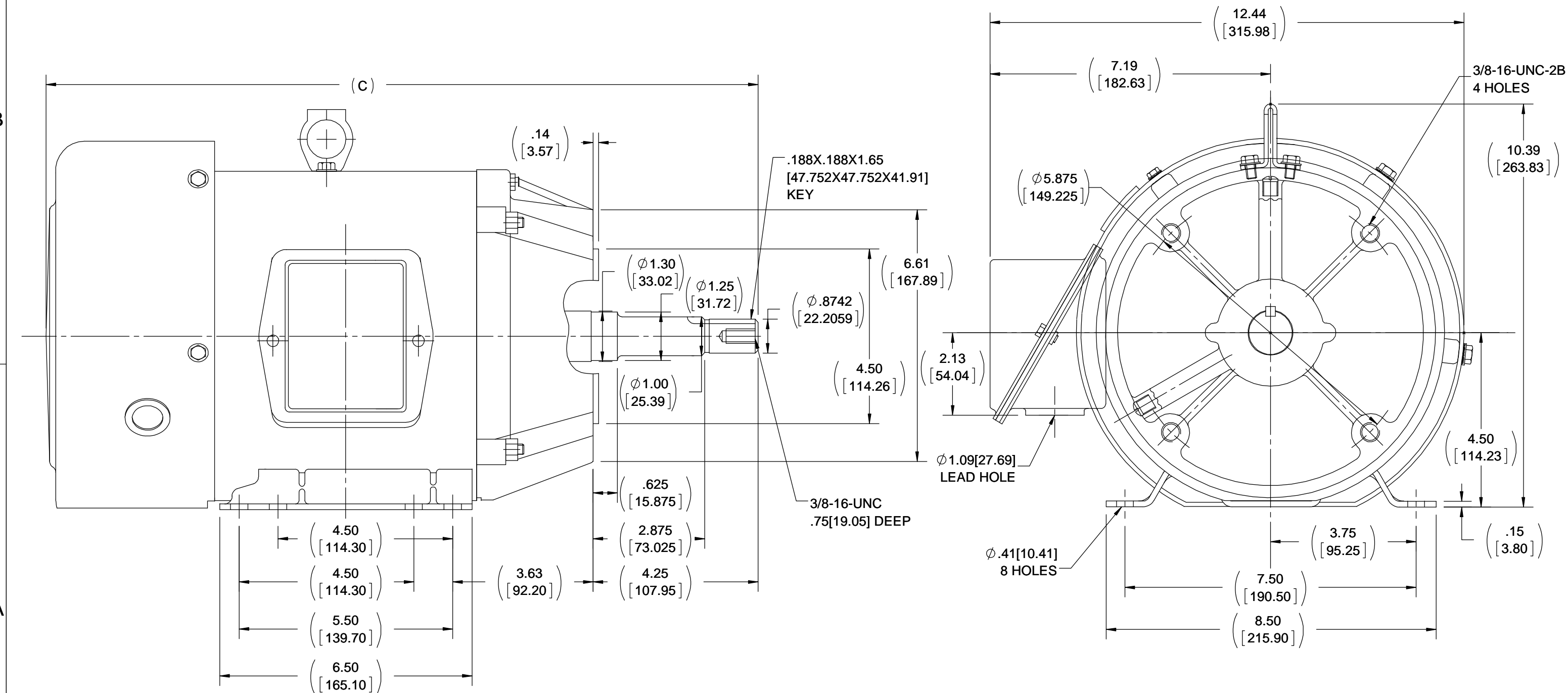
Electrical Type	Squirrel Cage Inverter Rated	Starting Method	Line Or Inverter
Poles	4	Rotation	Reversible
Resistance Main	3.76 Ohms	Mounting	Rigid Base
Motor Orientation	Horizontal	Drive End Bearing	Ball
Opp Drive End Bearing	Ball	Frame Material	Rolled Steel
Shaft Type	JM	Overall Length	17.51 in
Shaft Diameter	0.875 in	Shaft Extension	4.25 in
Assembly/Box Mounting	F1/F2 CAPABLE	Inverter Load	VARIABLE 10:1
Outline Drawing	SS620560-182JM	Connection Drawing	EE7308

B

A

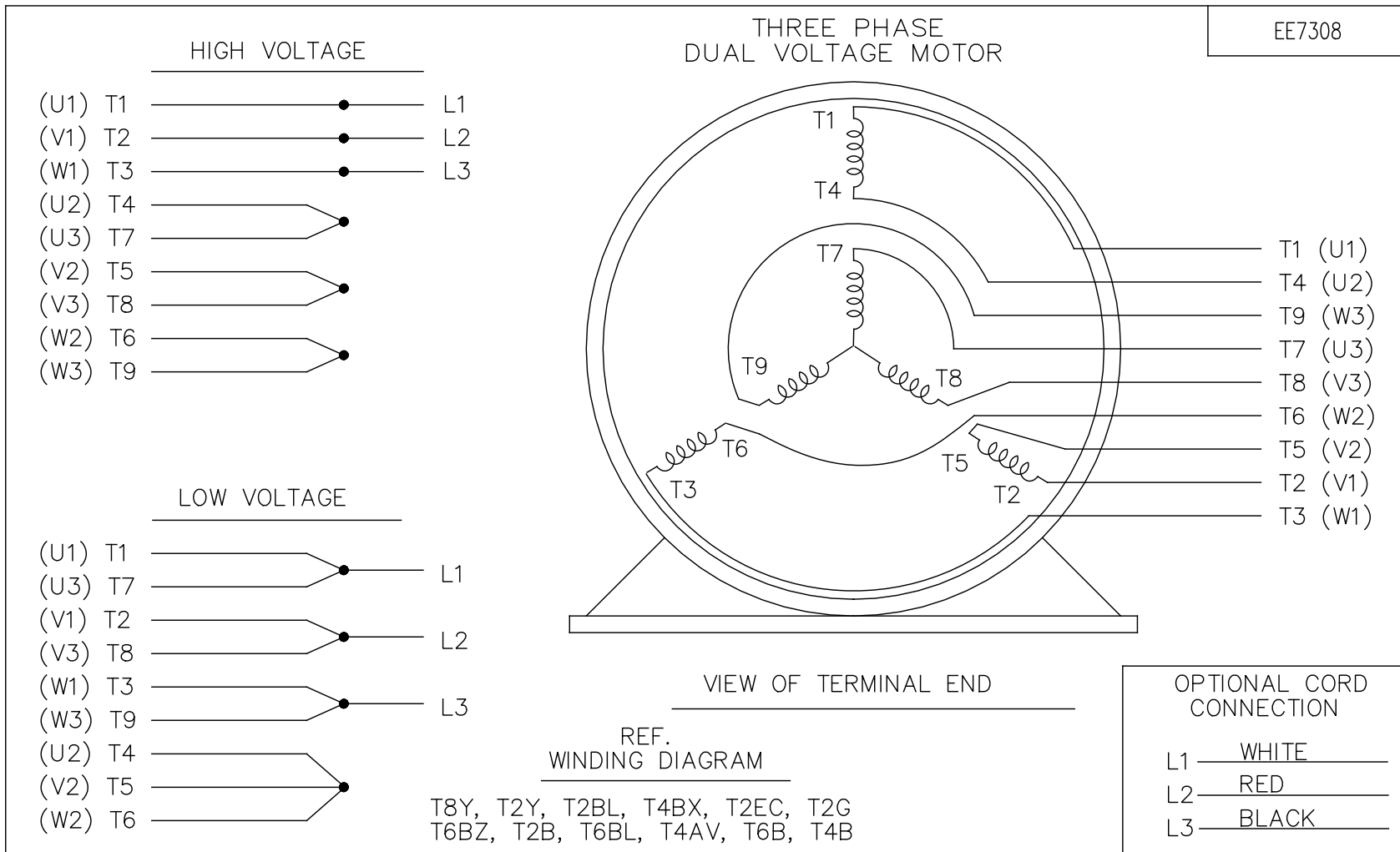
B

A



FRAME	C
TTFB 184JM	17.51 [444.75]
TTFB 182JM	18.36 [466.34]

DRAWING REVISION D		REVISION BY TRK		DATE 10-31-2017		TOLERANCES UNLESS OTHERWISE SPECIFIED: <div><div>DEC.</div><div>INCH</div><div>mm</div><div>ANGLE</div></div> <div>.X ±0.1 [±2.5] .XX ±0.03 [±0.76] .XXX ±0.005 [±0.127] .XXXX ±0.0005 [±0.0127] REMOVE BURRS & BREAK SHARP EDGES: .003/.015 [0.076/.381] X 45° CORNER FILLETS: R.02 [51] MACHINED SURFACES: 200 INCH/mm 5.1 mm SHOWN IN [BRACKETS]</div>				DRAWN BY ZYH		<div><div>REGAL™</div><div>Regal Beloit America, Inc.</div></div>			
ECO ECO-0112254		APPROVED BY EMH		DATE 10-31-2017						DATE 01-30-2015					
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						DATE		OUTLINE 182-184JM - TEFC - FR-ROLLED STEEL							
						REFERENCE		MATERIAL		PROCESS/FINISH					
						THIRD ANGLE PROJECTION		SIZE B		DRAWING NUMBER SS620560		SHEET 1 OF 1			



				TOLERANCES UNLESS SPECIFIED		 Regal Beloit America, Inc.	DRAWN RM	11/20/1990
5	CHG TO REGAL LOGO	SL 09/10/2015	AB	DEC.	INCHES		CHK ML	11/21/1990
4	REVISED IEC NOTATIONS	MSG 11/15/2011	CMN	.X	±.1		APPD SAS	04/24/2003
3	ADDED IEC NOTATIONS... (U1), (V1) ETC. MU95194	MSG 5/10/2010	MJS	.XX	±.02		SCALE	1=1
2	ADDED THE OPTIONAL CORD CONNECTION MU46318	RDH 04/24/2003	DRS	.XXX	±.005	TITLE CONNECTION DIAGRAM 3ø – DUAL VOLTAGE MOTOR		REF
1	REDRAWN	RM 11/20/1990		.XXXX	±.0005	MAT'L.		FMF
NO.	REVISION	BY & DATE	CHK	ANG	±7"30"	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 ee7308		SIZE	DRAWING NO. PAGE OF REV.
			DIST WP				A	EE7308

CERTIFICATION DATA SHEET

Model#: 182TTFB6031 AA

WINDING#: CHT18240007 NONE 1

CONN. DIAGRAM: EE7308

ASSEMBLY: F1/F2 CAPABLE

OUTLINE: SS620560

TYPICAL MOTOR PERFORMANCE DATA

HP	KW	SYNC. RPM	F.L. RPM	FRAME	ENCLOSURE	KVA CODE	DESIGN
3&2	2.24&1.49	1800	1750&1460	182JM	TEFC	K	B

PH	Hz	VOLTS	FL AMPS	START TYPE	DUTY	INSL	S.F	AMB°C	ELEVATION
3	60/50	230/460#190/ 380	7.8/3.9&6.6/3. 3	LINE OR INVERTER	CONTINUOU S	F3	1.15/1.15	40	3300

FULL LOAD EFF: 89.5&88.5	3/4 LOAD EFF: 88.5	1/2 LOAD EFF: 87.5	GTD. EFF	ELEC. TYPE	NO LOAD AMPS
FULL LOAD PF: 82&78	3/4 LOAD PF: 78	1/2 LOAD PF: 68	88.5	SQ CAGE INV RATED	3.2 / 1.6

F.L. TORQUE	LOCKED ROTOR AMPS	L.R. TORQUE	B.D. TORQUE	F.L. RISE°C
9 LB-FT	64 / 32	21 LB-FT 233	29 LB-FT 322	80

SOUND PRESSURE @ 3 FT.	SOUND POWER	ROTOR WK^2	MAX. WK^2	SAFE STALL TIME	STARTS /HOUR	APPROX. MOTOR WGT
62 dBA	72 dBA	0.4 LB-FT^2	40 LB-FT^2	25 SEC.	2	95 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 02:09:00 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

182TTFB6031



Submittal

Data @ 460 V

Motor Load Data

Load	0%	25%	50%	75%	100%	115%	125%	LR	
Current (Amps)	1.60	1.85	2.40	3.0	3.9	4.2	4.6	32.0	
Torque (ft-lb)	0.00	2.20	4.4	6.7	9.0	10.3	11.3	21.0	
RPM	1800	1790	1780	1770	1760	1,755	1750	0	
Efficiency (%)		81.5	87.5	88.5	89.5	88.5	87.5		
P.F. (%)	8.0	47.0	68.0	78.0	82.0	85.0	86.0	47.0	

Motor Speed Data

	LR	Pull-Up	BD	Rated	Idle					
Speed (RPM)	0	900	1710	1760	1800					
Current (Amps)	32.0	28.0	17.5	3.9	1.60					
Torque (ft-lb)	21.0	18.0	29.0	9.0	0.00					
<div><div>— Efficiency (%)</div><div>— P.F. (%)</div><div>— Current (Amps)</div><div>EFFICIENCY (%)</div><div>P.F. (%)</div><div>CURRENT (AMPS)</div><div>LOAD</div></div>						Information Block				
						HP		3.0		
						Sync. RPM		1800		
						Frame		182		
						Enclosure		TEFC		
						Construction		TFC		
						Voltage		30/460#190/3Ø V		
						Frequency		60 Hz		
						Design		B		
						LR Code letter		K		
						Service Factor		1.15		
						Temp Rise @ FL		80 ° C		
						Duty		CONT		
						Ambient		40 ° C		
						Elevation		1,000 feet		
						Rotor/Shaft wk²		0.40 Lb-Ft²		
						Ref Wdg		CHT18240007 NONE		
Sound Pressure @ 1M		62 dBA								
VFD Rating		VARIABLE 10:1								
Outline Dwg		SS620560								
Conn. Diag		EE7308								
Additional Specifications:										
0										
0										
EQUIV CKT (OHMS / PHASE)										
R1	R2	X1	X2	Xm						
2.3530	1.6160	5.0840	7.9000	130.4100						

Speed -Torque Curve

