

PRODUCT INFORMATION PACKET

marathon®
Motors

Model No: 324TTFCA6031

Catalog No: GT3134

Globetrotter® Close-Coupled Pump Motor, 40 & 30 HP, 3 Ph, 60 & 50 Hz, 230/460 & 190/380 V,
1800 & 1500 RPM, 324JM Frame, TEFC



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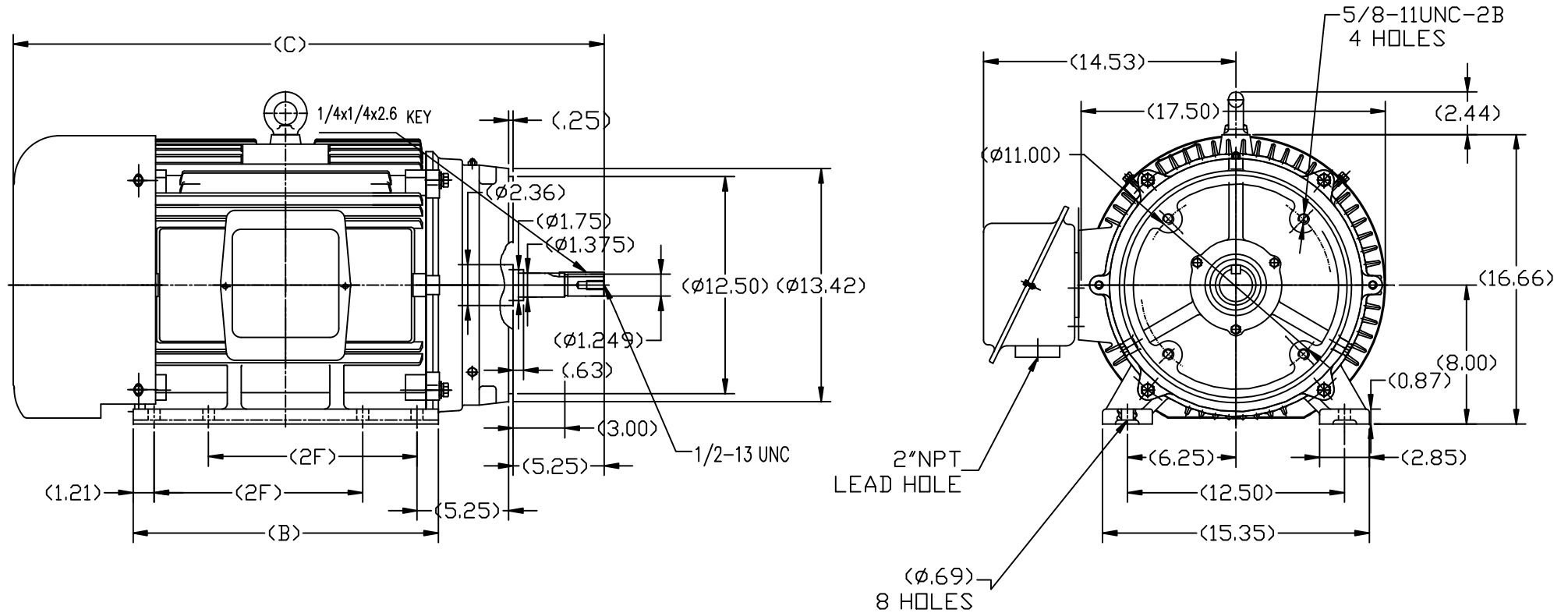
RegalRexnord

Nameplate Specifications

Phase	3	Output HP	40 & 30 Hp
Output KW	30.0 & 22.4 kW	Voltage	230/460 & 190/380 V
Speed	1780 & 1485 rpm	Service Factor	1.15 & 1.0
Frame	324JM	Enclosure	Totally Enclosed Fan Cooled
Thermal Protection	No Protection	Efficiency	94.5 & 94.1 %
Ambient Temperature	40 °C	Frequency	60 & 50 Hz
Current	95/47.5 & 87/43.5 A	Power Factor	83
Duty	Continuous	Insulation Class	F
Design Code	B	KVA Code	F
Drive End Bearing Size	6312	Opp Drive End Bearing Size	6311
UL	Recognized	CSA	Y
CE	Y	IP Code	55
Number of Speeds	1		

Technical Specifications

Electrical Type	Squirrel Cage Inverter Rated	Starting Method	Wye Start Delta Run Or Inverter
Poles	4	Rotation	Reversible
Resistance Main	.1817 Ohms	Mounting	Rigid Base
Motor Orientation	Horizontal	Drive End Bearing	Ball
Opp Drive End Bearing	Ball	Frame Material	Cast Iron
Shaft Type	JM	Overall Length	32.93 in
Shaft Diameter	1.250 in	Shaft Extension	5.25 in
Assembly/Box Mounting	F1/F2 CAPABLE		
Outline Drawing	SS620566-324T	Connection Drawing	EE7308AA



324T	32.93	16.38	10.50
326T	34.11	17.56	12.00
FRAME	C	B	2F

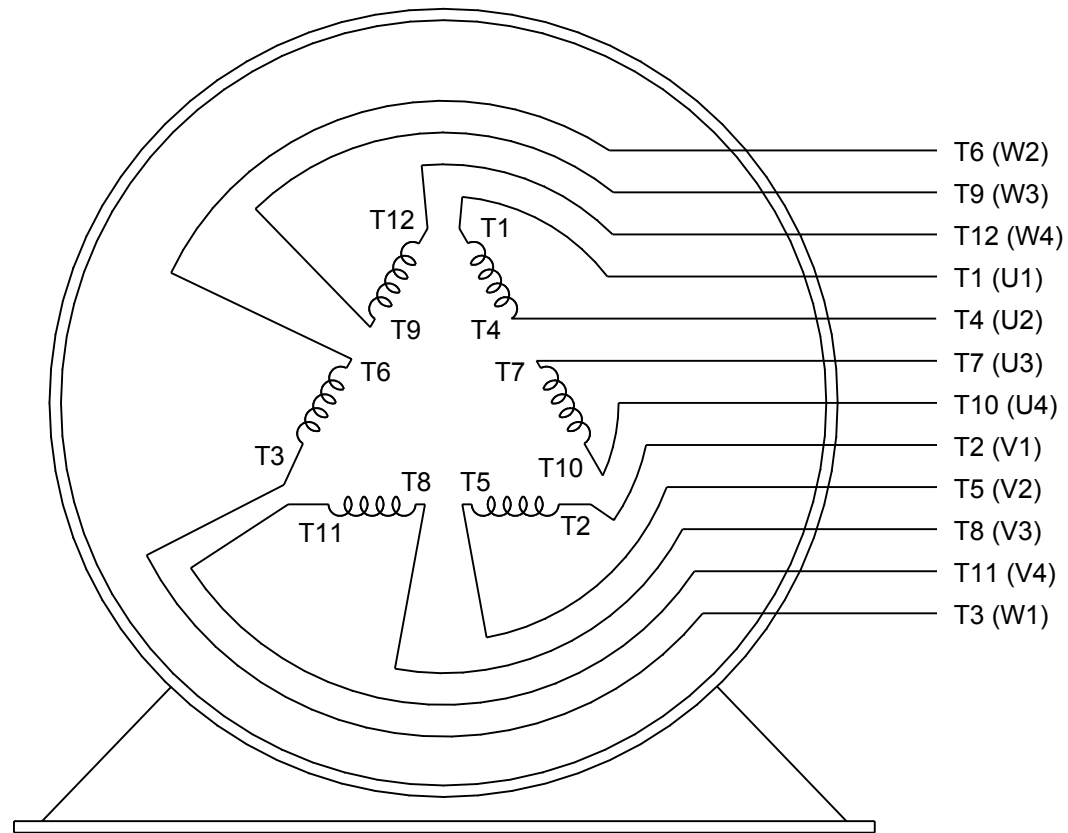
TOLERANCES UNLESS SPECIFIED		DEC. INCHES		REGAL-BELOIT CORPORATION		DRAWN VY 05-23-2012	
.X	±.1					CHK	ZYH 05-23-2012
.XX	±.03					APPD	WGH 05-23-2012
.XXX	±.005					SCALE	1=7
.XXXX	±.0005					REF	
						FMF	HWADA
						PREV	
NO.	REVISION	BY & DATE	CHK	ANG	±1/2	FINISH	
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				DIST			B
							DRAWING NO.
							SS620566
							REV.



LOW VOLTAGE



HIGH VOLTAGE



VIEW OF TERMINAL END

DRAWING REVISION K	REVISION BY AJW	DATE 07-17-2015
ECO ECO-0081632	APPROVED BY T. VUE	DATE 07-17-2015
ECO DESCRIPTION REV'D IEC MARKINGS PER IEC 60034-8		
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DRAWN BY LZ
DATE 01-12-1994
APPROVED BY GK
DATE 01-14-1994
REFERENCE
THIRD ANGLE PROJECTION

 Regal Beloit America, Inc.		
DESCRIPTION CONN DIAGRAM-EXTERNAL 3Ø-2/1 DELTA-12 LEADS		
MATERIAL	PROCESS/FINISH	
SIZE A	DRAWING NUMBER EE7308AA	SHEET 1 OF 1

CERTIFICATION DATA SHEET

Model#: 324TTFCA6031 AA

WINDING#: CHT32440002 NONE 1

CONN. DIAGRAM: EE7308AA

ASSEMBLY: F1/F2 CAPABLE

OUTLINE: SS620566

TYPICAL MOTOR PERFORMANCE DATA

HP	KW	SYNC. RPM	F.L. RPM	FRAME	ENCLOSURE	KVA CODE	DESIGN
40&30	30&22.4	1800	1780&1485	324JM	TEFC	F	B

PH	Hz	VOLTS	FL AMPS	START TYPE	DUTY	INSL	S.F	AMB°C	ELEVATION
3	60/50	230/460#190/ 380	95/47.5&87/43 .5	Y START D RUN OR INV	CONTINUOU S	F7	1.15/1.0	40	3300

FULL LOAD EFF: 94.5&94.1	3/4 LOAD EFF: 94.1	1/2 LOAD EFF: 93.6	GTD. EFF	ELEC. TYPE	NO LOAD AMPS
FULL LOAD PF: 83&83	3/4 LOAD PF: 80.5	1/2 LOAD PF: 72	93.6	SQ CAGE INV RATED	33 / 16.5

F.L. TORQUE	LOCKED ROTOR AMPS	L.R. TORQUE	B.D. TORQUE	F.L. RISE°C
118 LB-FT	504 / 252	189 LB-FT 161	289 LB-FT 245	30

SOUND PRESSURE @ 3 FT.	SOUND POWER	ROTOR WK^2	MAX. WK^2	SAFE STALL TIME	STARTS /HOUR	APPROX. MOTOR WGT
60 dBA	70 dBA	9.5 LB-FT^2	- LB-FT^2	20 SEC.	2	575 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	POLYREX EM	JM	NONE	NONE	1045 HOT ROLLED (C-204)	CAST IRON
6312	6311						

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: 06/21/2017 04:41:27 AM
FORM 3531 REV.3 02/07/99
** Subject to change without notice.

Data Sheet

Date: 20-06-2017

Customer:

Attention:

Submitted by: FAREEDA DUDEKULA



324TTFCA6031

Submittal

Data @ 460 V

Motor Load Data

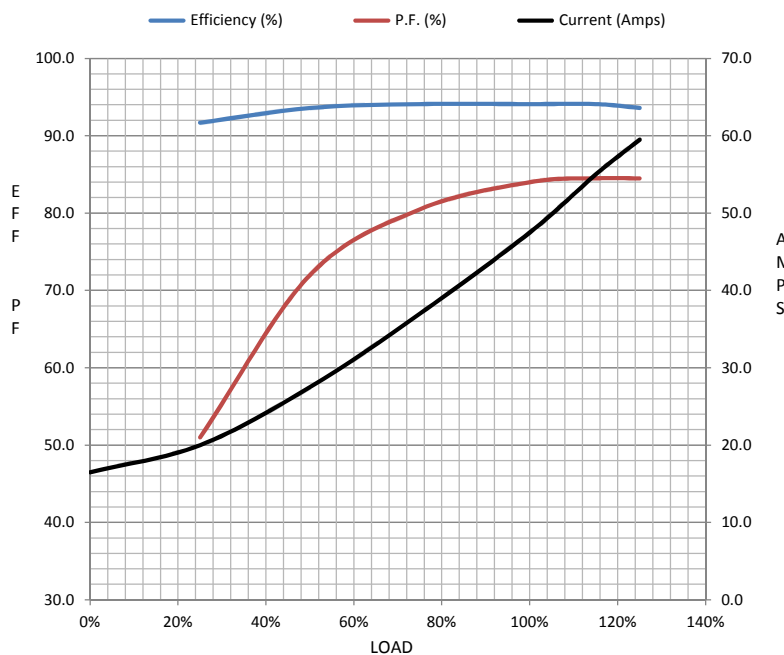
Load	0%	25%	50%	75%	100%	115%	125%	LR	
Current (Amps)	16.5	20.0	27.5	37.0	47.5	55.0	59.5	252	
Torque (ft-lb)	0.00	29.0	58.5	88.0	118	136	148	189	
RPM	1800	1795	1790	1785	1780	1,778	1775	0	
Efficiency (%)		91.7	93.6	94.1	94.1	94.1	93.6		
P.F. (%)	4.5	51.0	72.0	80.5	84.0	84.5	84.5	35.5	

Motor Speed Data

	LR	Pull-Up	BD	Rated	Idle
Speed (RPM)	0	900	1685	1780	1800
Current (Amps)	252	227	155	47.5	16.5
Torque (ft-lb)	189	171	289	118	0.00

Information Block

HP	40.0			
Sync. RPM	1800			
Frame	324			
Enclosure	DP			
Construction	TDC			
Voltage	230/460#190/38(V			
Frequency	60 Hz			
Design	B			
LR Code letter	F			
Service Factor	1.15			
Temp Rise @ FL	30 ° C			
Duty	CONT			
Ambient	40 ° C			
Elevation	1,000 feet			
Rotor/Shaft wk ²	9.5 Lb-Ft ²			
Ref Wdg	CHT32440002 NONE			
Sound Pressure @ 1M	75 dBA			
VFD Rating	VARIABLE 10:1			
Outline Dwg	SS620566			
Conn. Diag	EE7308AA			
Additional Specifications:				
0				
365THFS8036				
EQUIV CKT (OHMS / PHASE)				
R1	R2	X1	X2	Xm
0.1260	0.0600	0.5370	0.8510	16.4420



Speed -Torque Curve

