

PRODUCT INFORMATION PACKET

marathon®
Motors

Model No: 404TTDC6060

Catalog No: GT0046

Globetrotter® General Purpose Motor, 100 & 75 HP, 3 Ph, 60 & 50 Hz, 230/460 & 190/380 V,
1800 & 1500 RPM, 404T Frame, DP



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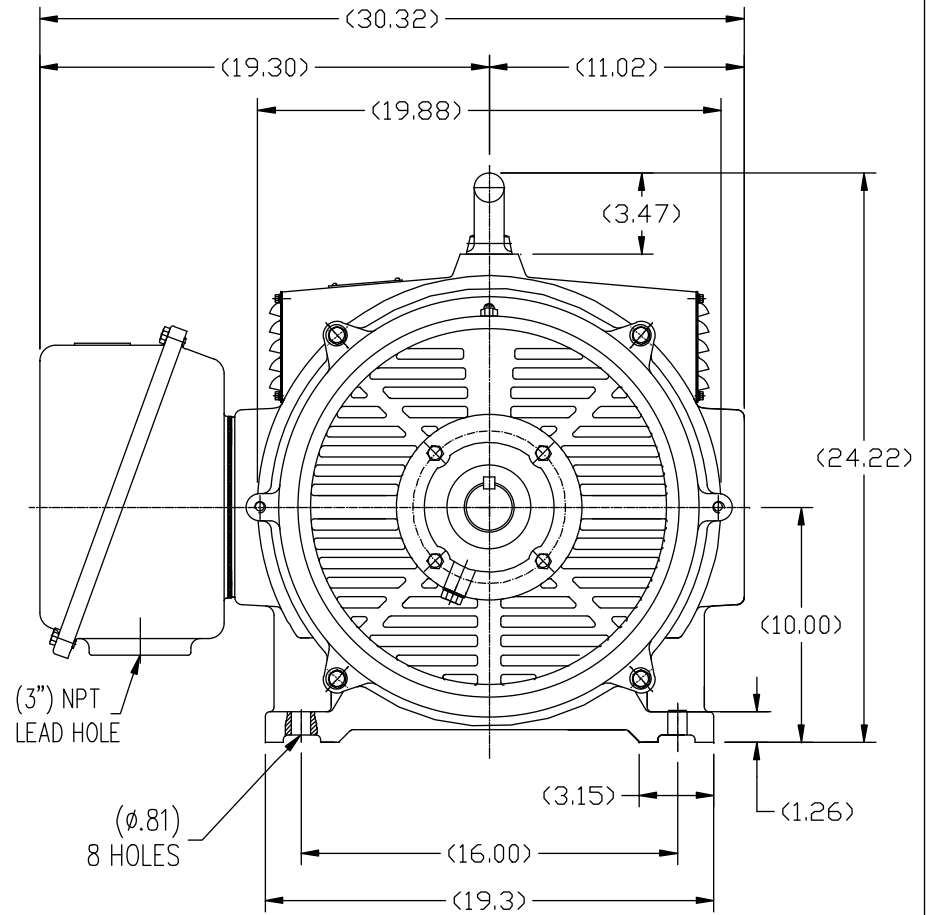
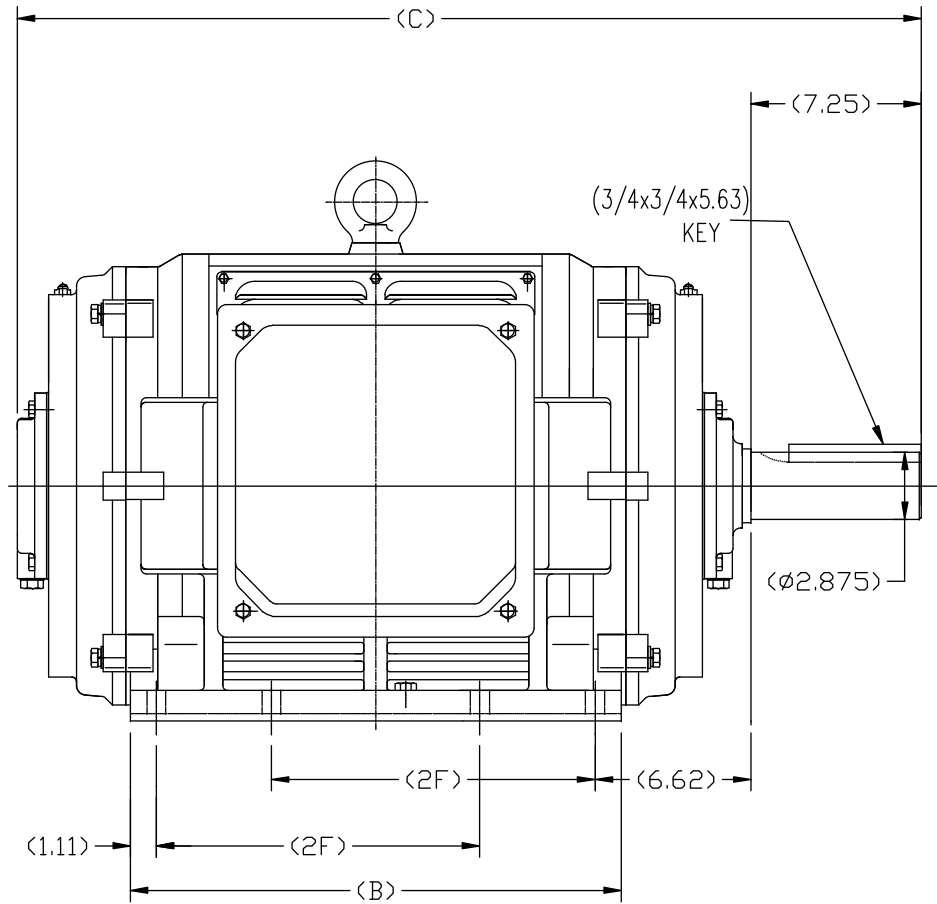
RegalRexnord

Nameplate Specifications

Phase	3	Output HP	100 & 75 Hp
Output KW	75.0 & 56.0 kW	Voltage	230/460 & 190/380 V
Speed	1788 & 1488 rpm	Service Factor	1.15 & 1.15
Frame	404T	Enclosure	Drip Proof
Thermal Protection	No Protection	Efficiency	95.4 & 95 %
Ambient Temperature	40 °C	Frequency	60 & 50 Hz
Current	226/113 & 204/102 A	Power Factor	88
Duty	Continuous	Insulation Class	F
Design Code	B	KVA Code	G
Drive End Bearing Size	6316	Opp Drive End Bearing Size	6315
UL	Recognized	CSA	Y
CE	Y	IP Code	12
Number of Speeds	1		

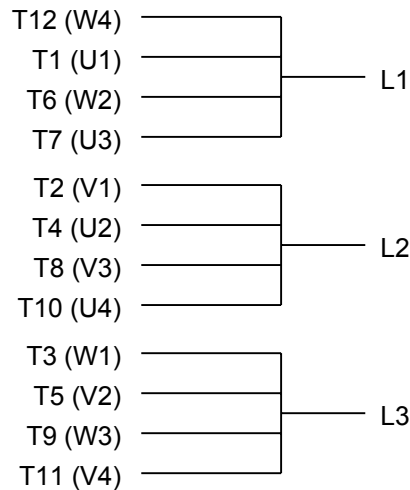
Technical Specifications

Electrical Type	Squirrel Cage Inverter Rated	Starting Method	Part Wdg Start & Wye Start Delta Run Or Inverter
Poles	4	Rotation	Reversible
Resistance Main	.052 Ohms	Mounting	Rigid Base
Motor Orientation	Horizontal	Drive End Bearing	Ball
Opp Drive End Bearing	Ball	Frame Material	Cast Iron
Shaft Type	T	Overall Length	37.20 in
Shaft Diameter	2.875 in	Shaft Extension	7.25 in
Assembly/Box Mounting	F1/F2 Capable		
Outline Drawing	SS620253-404T	Connection Drawing	A-EE7308AA

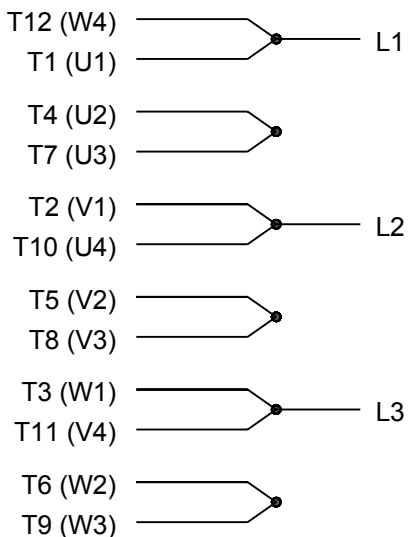


404T	37.20	19.29	12.25
405T	38.78	20.87	13.75
FRAME	C	B	2F

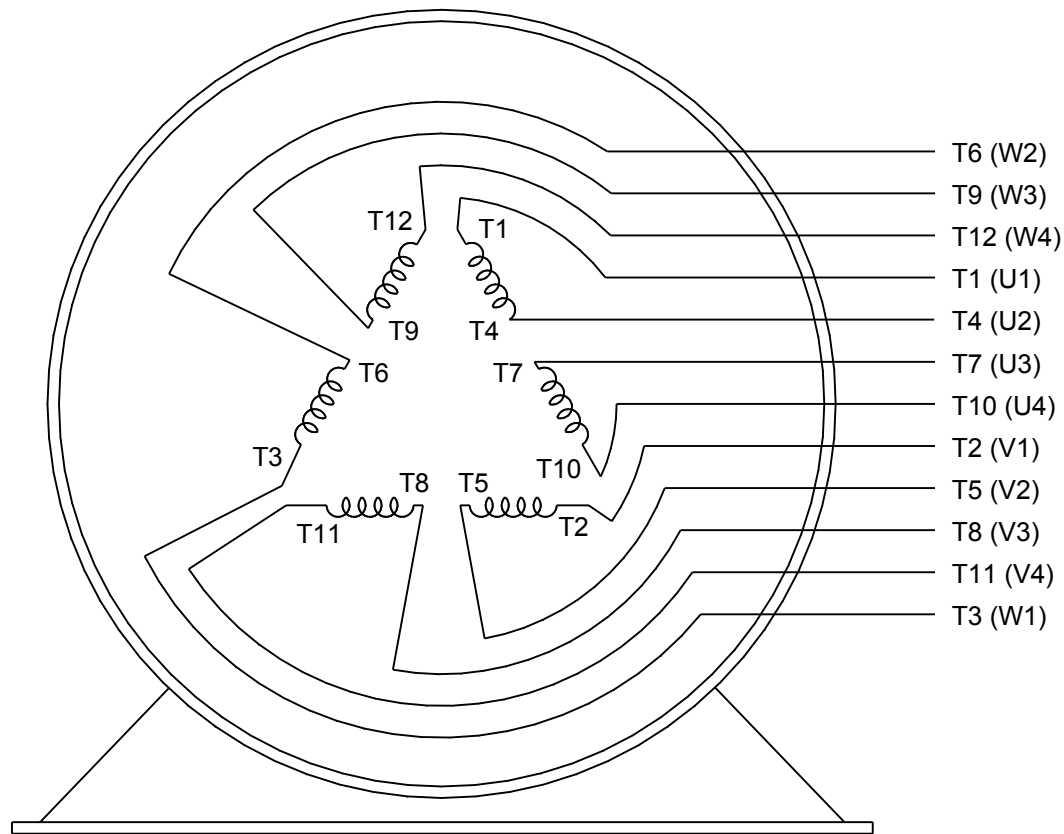
TOLERANCES UNLESS SPECIFIED				REGAL REGAL-BELOIT CORPORATION		DRAWN HZJ 03-04-2010	
DEC.	INCHES					CHK	ZYH 03-04-2010
.X	±.1			TITLE OUTLINE 404/405T FR-ODP-CAST IRON		APPD	CL 03-04-2010
.XX	±.03					SCALE	1=75
.XXX	±.005					REF	
.XXXX	±.0005			MAT'L.		FMF	HWADA
NO.	REVISION	BY & DATE	CHK	ANG	±1/21	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	SS620253	SIZE
				DIST			DRAWING NO.
							B
							SS620253
							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#: 404TTDC6060 AD

WINDING#: CHT40440001 NONE 1

CONN. DIAGRAM: A-EE7308AA

ASSEMBLY: F1/F2 CAPABLE

OUTLINE: B-SS620253

TYPICAL MOTOR PERFORMANCE DATA

HP	KW	SYNC. RPM	F.L. RPM	FRAME	ENCLOSURE	KVA CODE	DESIGN
100&75	75&56	1800	1788&1488	404T	DP	G	B

PH	Hz	VOLTS	FL AMPS	START TYPE	DUTY	INSL	S.F	AMB°C	ELEVATION
3	60/50	230/460#190/ 380	226/113&204/ 102	PWS & YDRUN OR INV	CONTINUOU S	F7	1.15/1.15	40	3300

FULL LOAD EFF: 95.4&95	3/4 LOAD EFF: 95.4	1/2 LOAD EFF: 94.5	GTD. EFF	ELEC. TYPE	NO LOAD AMPS
FULL LOAD PF: 87.5&87	3/4 LOAD PF: 86	1/2 LOAD PF: 80	95	SQ CAGE INV RATED	63 / 31.5

F.L. TORQUE	LOCKED ROTOR AMPS	L.R. TORQUE	B.D. TORQUE	F.L. RISE°C
294 LB-FT	1450 / 725	600 LB-FT 204	700 LB-FT 238	50

SOUND PRESSURE @ 3 FT.	SOUND POWER	ROTOR WK^2	MAX. WK^2	SAFE STALL TIME	STARTS /HOUR	APPROX. MOTOR WGT
78 dBA	88 dBA	31 LB-FT^2	550 LB-FT^2	20 SEC.	2	1250 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	T	NONE	NONE	1045 HOT ROLLED (C-204)	CAST IRON
6316	6315						

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

* N O T E S *	INVERTER TORQUE: VARIABLE 10:1
	INV. HP SPEED RANGE: NONE
	ENCODER: NONE
	NONE NONE NONE NONE PPR
* N O T E S *	BRAKE: NONE NONE
	NONE P/N NONE
	NONE NONE
	NONE FT-LB NONE V NONE Hz

DATE: 06/21/2017 07:54:15 AM
FORM 3531 REV.3 02/07/99

** Subject to change without notice.

Data Sheet

Date: 6/19/2017

Customer: _____

Attention: _____

Submitted by: FAREEDA DUDEKULA



404TTDC6060

Submittal

Data @ 460 V

Motor Load Data

Load	0%	25%	50%	75%	100%	115%	125%	LR	
Current (Amps)	31.5	42.0	62.0	86.0	113	130	142	725	
Torque (ft-lb)	0.00	73.0	147	220	294	338	369	600	
RPM	1800	1796	1794	1790	1788	1,785	1782	0	
Efficiency (%)		91.7	94.5	95.4	95.4	95.4	95.0		
P.F. (%)	5.5	61.0	80.0	86.0	88.0	88.0	88.0	35.0	

Motor Speed Data

	LR	Pull-Up	BD	Rated	Idle																													
Speed (RPM)	0	900	1725	1788	1800	Information Block																												
Current (Amps)	725	650	425	113	31.5	HP		100.0																										
Torque (ft-lb)	600	500	700	294	0.00	Sync. RPM		1800																										
— Efficiency (%) — P.F. (%) — Current (Amps) <table border="1"><caption>Graph Data Points (Estimated)</caption><thead><tr><th>Load (%)</th><th>Efficiency (%)</th><th>P.F. (%)</th><th>Current (Amps)</th></tr></thead><tbody><tr><td>25</td><td>92</td><td>61</td><td>44</td></tr><tr><td>50</td><td>94</td><td>82</td><td>55</td></tr><tr><td>75</td><td>95</td><td>87</td><td>70</td></tr><tr><td>100</td><td>96</td><td>88</td><td>84</td></tr><tr><td>125</td><td>96</td><td>88</td><td>92</td></tr></tbody></table>						Load (%)	Efficiency (%)	P.F. (%)	Current (Amps)	25	92	61	44	50	94	82	55	75	95	87	70	100	96	88	84	125	96	88	92	Frame		404		
						Load (%)	Efficiency (%)	P.F. (%)	Current (Amps)																									
						25	92	61	44																									
						50	94	82	55																									
						75	95	87	70																									
						100	96	88	84																									
						125	96	88	92																									
						Enclosure		DP																										
						Construction		TDC																										
						Voltage		230/460#190/381V																										
						Frequency		60 Hz																										
						Design		A																										
						LR Code letter		G																										
						Service Factor		1.15																										
						Temp Rise @ FL		50 °C																										
						Duty		CONT																										
						Ambient		40 °C																										
Elevation		1,000 feet																																
Rotor/Shaft wk²		31.0 Lb-Ft²																																
Ref Wdg		CHT40440001 NONE																																
Sound Pressure @ 1M		78 dBA																																
VFD Rating		VARIABLE 10:1																																
Outline Dwg		B-SS620253																																
Conn. Diag		A-EE7308AA																																
Additional Specifications:																																		
0																																		
0																																		
EQUIV CKT (OHMS / PHASE)																																		
R1		R2		X1		X2		Xm																										
0.0340		0.0180		0.1870		0.3270		8.3780																										

Speed -Torque Curve

