

PRODUCT INFORMATION PACKET

marathon®
Motors

Model No: 449TTDC16076

Catalog No: GT0056

Globetrotter® General Purpose Motor, 200 & 150 HP, 3 Ph, 60 & 50 Hz, 460 & 380 V, 1200 & 1000 RPM,
449T Frame, DP



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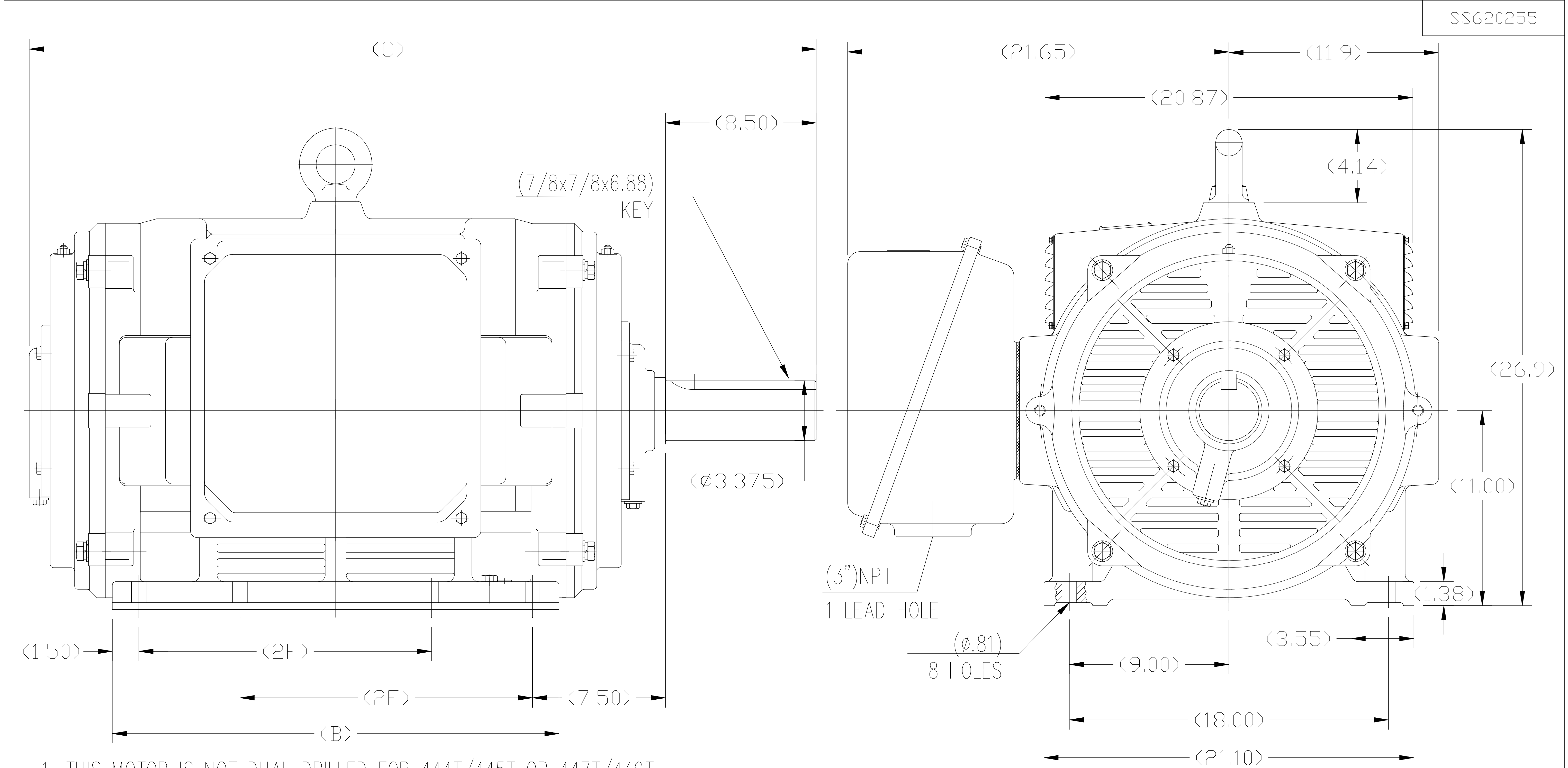
RegalRexnord

Nameplate Specifications

Phase	3	Output HP	200 & 150 Hp
Output KW	149.0 & 112.0 kW	Voltage	460 & 380 V
Speed	1188 & 990 rpm	Service Factor	1.15 & 1.15
Frame	449T	Enclosure	Drip Proof
Thermal Protection	No Protection	Efficiency	95.4 & 95.4 %
Ambient Temperature	40 °C	Frequency	60 & 50 Hz
Current	228 & 206 A	Power Factor	86.5
Duty	Continuous	Insulation Class	F
Design Code	B	KVA Code	G
Drive End Bearing Size	6319	Opp Drive End Bearing Size	6317
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 Or Inverter
Poles	6	Rotation	Reversible
Resistance Main	.024 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	49.69 in
Shaft Diameter	3.375 in	Shaft Extension	8.5 in
Assembly/Box Mounting	F1/F2 CAPABLE	Inverter Load	VARIABLE 10:1
Outline Drawing	SS620255-449T	Connection Drawing	A-EE7341C



444T	44.57	25.20	14.50
445T	44.57	25.20	16.50
447T	49.69	30.32	20.00
449T	49.69	30.32	25.00
Frame	C	B	2F

				TOLERANCES UNLESS SPECIFIED		 REGAL-BELOIT CORPORATION	DRAWN ZYH 02-21-2010		
				DEC.	INCHES		CHK HZJ 02-21-2010		
				.X	±.1		APPD CL 02-21-2010		
				.XX	±.03		SCALE 6=32		
G	UPDATED DRAWING PER MARK-UP ECD-0108274	WGJ 10-7-16	EMH	.XXX	±.005	TITLE OUTLINE 444/445/447/449T FR-ODP-CAST IRON		REF	
A	2 leads hole change to 1	CL 2010-9-8		.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 SS620255		SIZE	DRAWING NO.	REV.
			DIST				B	SS620255	G

THREE PHASE – PART WINDING START DELTA – 6 LEADS

START

CONNECT T1 TO LINE 1
CONNECT T2 TO LINE 2
CONNECT T3 TO LINE 3
T7–T8–T9 OPEN

RUN

CONNECT T1&T7 TO LINE 1
CONNECT T2&T8 TO LINE 2
CONNECT T3&T9 TO LINE 3

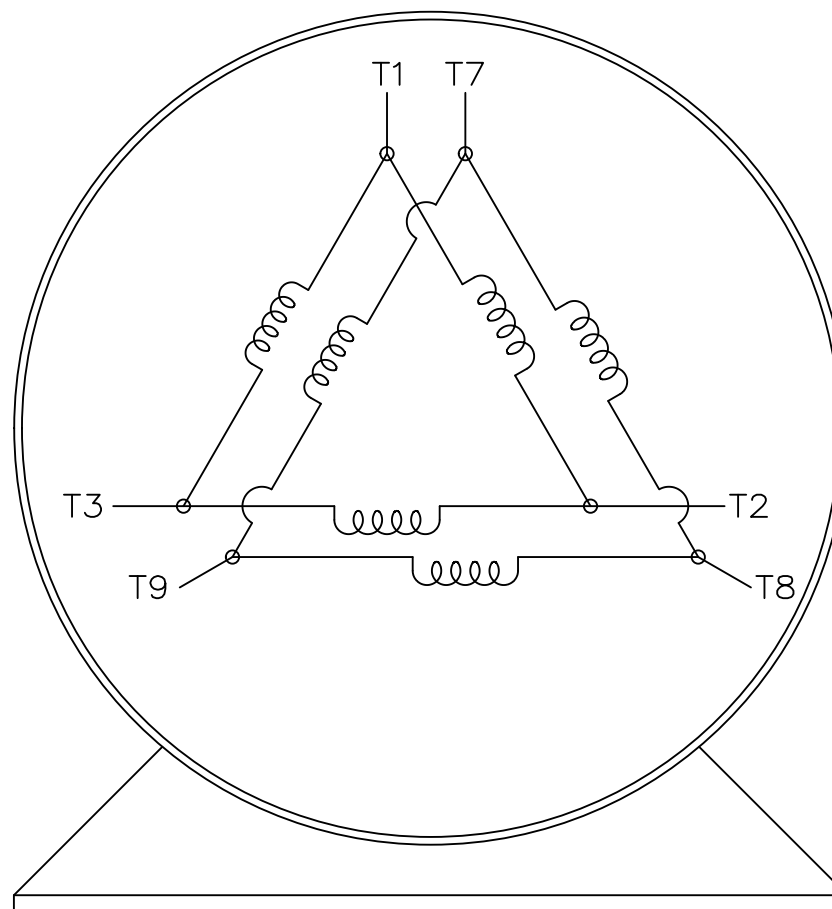
IF MOTOR HAS 2 T'S

START

CONNECT T1,T1 TO LINE 1
CONNECT T2,T2 TO LINE 2
CONNECT T3,T3 TO LINE 3
T7,T7–T8,T8–T9,T9 OPEN

RUN

CONNECT T1,T1&T7,T7 TO LINE 1
CONNECT T2,T2&T8,T8 TO LINE 2
CONNECT T3,T3&T9,T9 TO LINE 3



VIEW OF TERMINAL END

			TOLERANCES UNLESS SPECIFIED		 REGAL-BELOIT CORPORATION	DRAWN BLR 03-09-1998		
			DEC.	INCHES		CHK	ML	03-23-1998
			.X	± -		APPD	GK	03-23-1998
			.XX	± -	TITLE CONNECTION DIAGRAM 3ø - 6 LEADS		SCALE	1=1
E	NOTE ADDED FOR 2 T'S	NAR 17-12-2020	RC	.XXX	± -		REF	
D	RE-DRAWN WITH REGAL LOGO ECO-0110493	WGJ 09-30-2016	EMH	.XXXX	± -		FMF	
NO.	REVISION	BY & DATE	CHK	ANG	± -		PREV	
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			DIST			A	EE7341C	REV. E

CERTIFICATION DATA SHEET

Model#: 449TTDC16076 AA
 CONN. DIAGRAM: A-EE7341C
 OUTLINE: B-SS620255

WINDING#: CHT44960002 NONE 1
 ASSEMBLY: F1/F2 CAPABLE

TYPICAL MOTOR PERFORMANCE DATA

HP	KW	SYNC. RPM	F.L. RPM	FRAME	ENCLOSURE	KVA CODE	DESIGN
200&150	149&112	1200	1188&990	449T	DP	G	B

PH	Hz	VOLTS	FL AMPS	START TYPE	DUTY	INSL	S.F	AMB°C	ELEVATION
3	60/50	460#380	228&206	PWS OR INVERTER	CONTINUOU S	F7	1.15/1.15	40	3300

FULL LOAD EFF: 95.4&95.4	3/4 LOAD EFF: 95.8	1/2 LOAD EFF: 95.4	GTD. EFF	ELEC. TYPE	NO LOAD AMPS
FULL LOAD PF: 86.5&86.5	3/4 LOAD PF: 85	1/2 LOAD PF: 80	65	SQ CAGE INV RATED	59.5

F.L. TORQUE	LOCKED ROTOR AMPS	L.R. TORQUE	B.D. TORQUE	F.L. RISE°C
884 LB-FT	1450	1650 LB-FT 186	1950 LB-FT 220	65

SOUND PRESSURE @ 3 FT.	SOUND POWER	ROTOR WK^2	MAX. WK^2	SAFE STALL TIME	STARTS /HOUR	APPROX. MOTOR WGT
78 dBA	88 dBA	122 LB-FT^2	2600 LB-FT^2	20 SEC.	2	2650 LBS.

*** SUPPLEMENTAL INFORMATION ***

DE BRACKET TYPE	ODE BRACKET TYPE	MOUNT TYPE	ORIENTATION	SEVERE DUTY	HAZARDOUS LOCATION	D RIP 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
6319	6317						

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
	BRAKE: NONE NONE NONE P/N NONE NONE NONE NONE FT-LB NONE V NONE Hz

DATE: 06/21/2017 06:56:44 AM
 FORM 3531 REV.3 02/07/99
 ** Subject to change without notice.

Data Sheet

Date: 16-06-2017

Customer:

Attention:

Submitted by: FAREEDA DUDEKULA



449TTDC16076

Submittal

Data @ 460 V

Motor Load Data

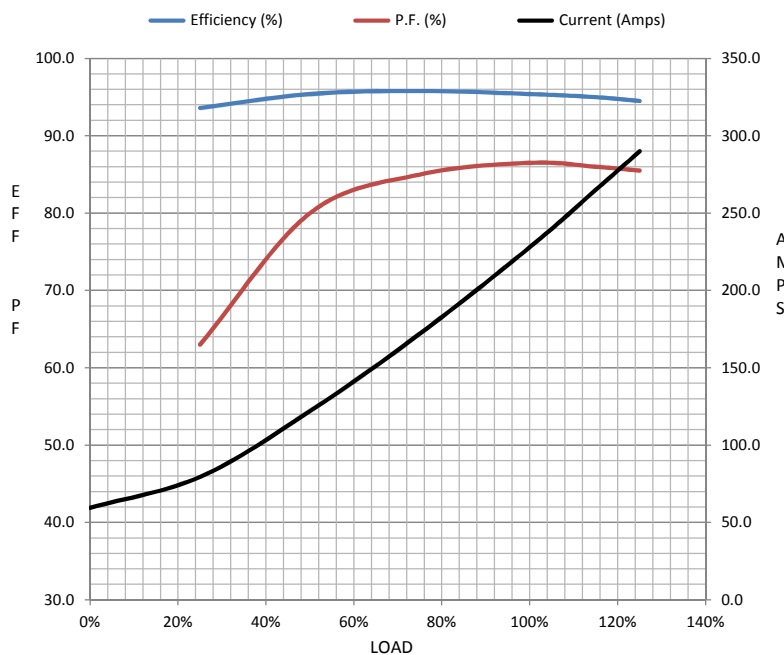
Load	0%	25%	50%	75%	100%	115%	125%	LR	
Current (Amps)	59.5	79.5	122	172	228	265	290	1,450	
Torque (ft-lb)	0.00	220	440	662	884	1,020	1,110	1,650	
RPM	1200	1196	1194	1190	1188	1,185	1182	0	
Efficiency (%)		93.6	95.4	95.8	95.4	95.0	94.5		
P.F. (%)	4.0	63.0	80.0	85.0	86.5	86.0	85.5	36.0	

Motor Speed Data

	LR	Pull-Up	BD	Rated	Idle
Speed (RPM)	0	600	1150	1188	1200
Current (Amps)	1,450	1,300	750	228	59.5
Torque (ft-lb)	1,650	1,450	1,950	884	0.00

Information Block

HP	200.0			
Sync. RPM	1200			
Frame	447			
Enclosure	DP			
Construction	TDC			
Voltage	460#380 V			
Frequency	60 Hz			
Design	A			
LR Code letter	G			
Service Factor	1.15			
Temp Rise @ FL	65 ° C			
Duty	CONT			
Ambient	40 ° C			
Elevation	1,000 feet			
Rotor/Shaft wk²	122 Lb-Ft²			
Ref Wdg	CHT44960002 NONE			
Sound Pressure @ 1M	78 dBA			
VFD Rating	VARIABLE 10:1			
Outline Dwg	B-SS620255			
Conn. Diag	A-EE7341C			
Additional Specifications:				
0				
365THFS8036				
EQUIV CKT (OHMS / PHASE)				
R1	R2	X1	X2	Xm
0.0180	0.0120	0.1160	0.2100	4.4520



Speed - Torque Curve

