

PRODUCT INFORMATION PACKET

marathon[®]
Motors

Model No: 324TTGS6529
Catalog No: E567
40,1800,EPFC,324T,3/60/230/460
Explosion Proof



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REGAL[®]



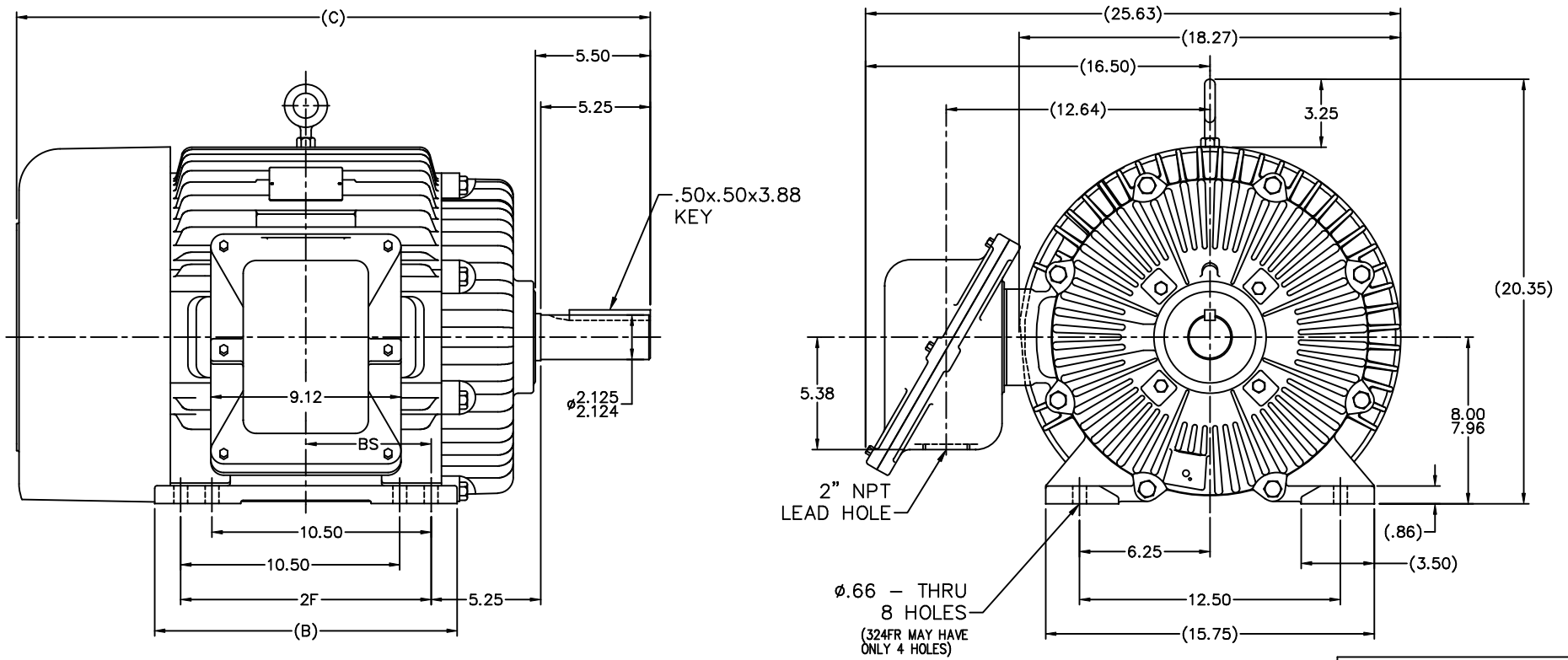
Nameplate Specifications

Output HP	40 Hp	Output KW	30.0 kW
Frequency	60 Hz	Voltage	230/460 V
Current	95.0/47.5 A	Speed	1780 rpm
Service Factor	1.15	Phase	3
Efficiency	94.1 %	Duty	Continuous
Insulation Class	F	Design Code	B
KVA Code	G	Frame	324T
Enclosure	Explosion Proof Fan cooled	Overload Protector	No
Ambient Temperature	40 °C	Drive End Bearing Size	6312
Opp Drive End Bearing Size	6311	UL	No
CSA	N	CE	N
IP Code	54		

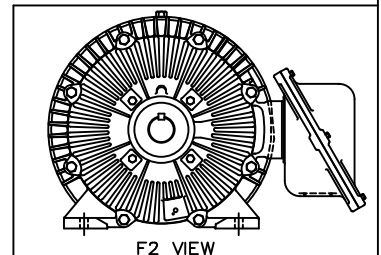
Technical Specifications

Electrical Type	Squirrel Cage Inverter Rated	Starting Method	Line Or Inverter
Poles	4	Rotation	Reversible
Mounting	Rigid base	Motor Orientation	Horizontal
Drive End Bearing	Ball	Opp Drive End Bearing	Ball
Frame Material	Cast Iron	Shaft Type	T
Overall Length	30.37 in	Frame Length	13.00 in
Shaft Diameter	2.125 in	Shaft Extension	5.53 in
Assembly/Box Mounting	F1 Only		
Outline Drawing	B-SS28022-1300	Connection Diagram	A-EE7308T

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- NOTES:
 1. BOX CAN BE ROTATED IN 90° STEPS
 2. BOX CAN BE MOUNTED ON OPPOSITE SIDE BY REMOVING BRACKETS AND TURNING FRAME 180°
 3. NAMEPLATE TO BE READ FROM CONDUIT BOX PAD SIDE OF MOTOR



DASH	FR.	C	B	BS	2F
1150	324T	28.87	13.00	5.25	10.50
1300	324/326T	30.37	14.50	6.00	12.00

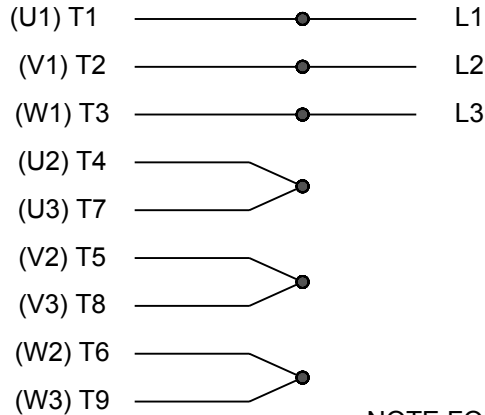
		TOLERANCES UNLESS SPECIFIED		MARATHON ELECTRIC		DRAWN DJK 04-30-1993						
		DEC.	INCHES			CHK	ML 05-03-1993					
10	CORRECTED MANY DIMENSIONAL ERRORS CN 32772	DRS	07-27-2004	ML	.X	±.1	APPD GK 05-04-1993					
9	ADDED 324 TO 1300 DASH MU36551	CAV	11-06-2001	.XX	±.03	TITLE OUTLINE	SCALE 1=5					
8	ADDED F2 VIEW & UPDATED NOTES MU36551	DAH	03-28-2001	.XXX	±.005	320T FR. - BB - TS - EXP. PR.	REF					
7	ADDED DUAL DRILLING TO FEET CN 26835	CAE	04-01-1999	.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 ss28022	SIZE	DRAWING NO.	PAGE	OF	REV.
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STACK:
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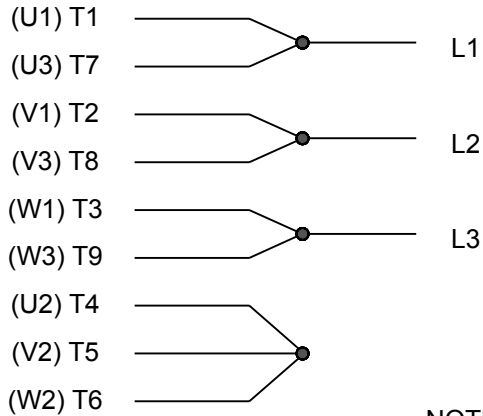
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HIGH VOLTAGE



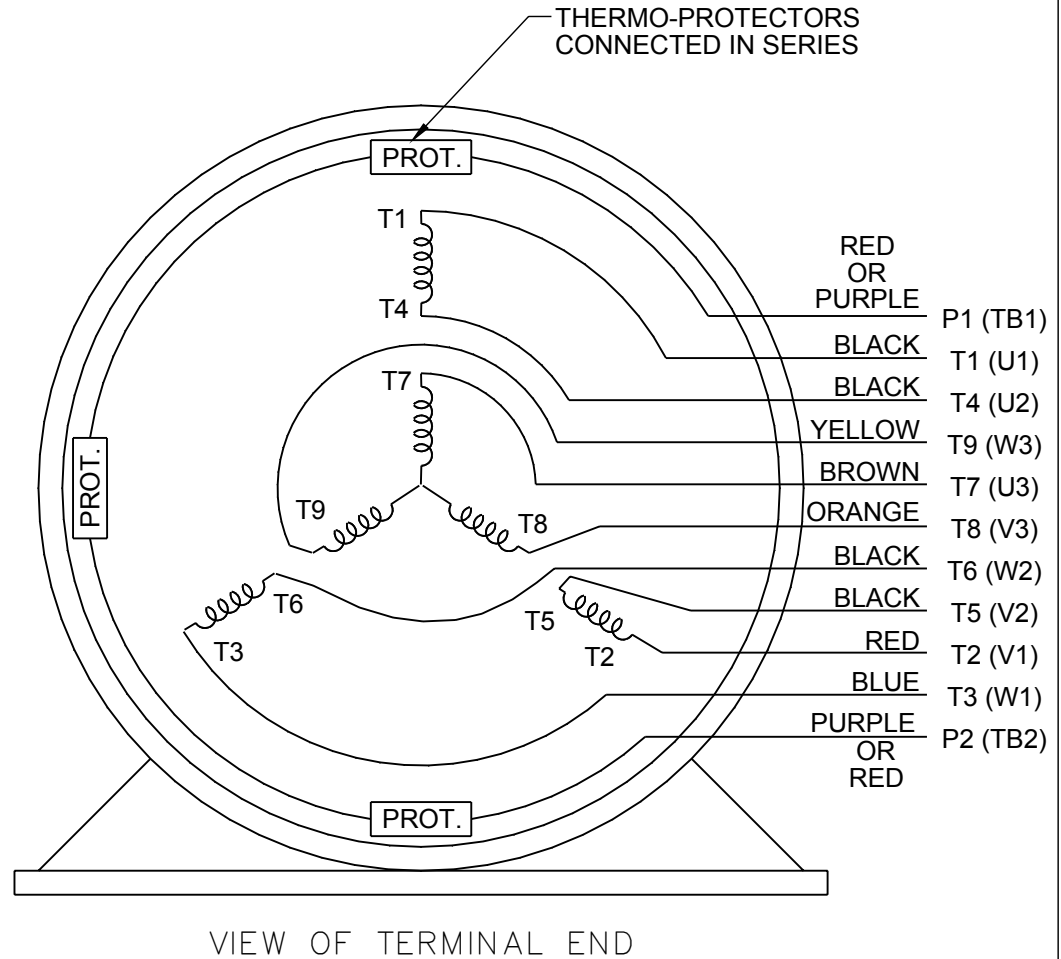
**NOTE FOR FACTORY USE ONLY:
 TO SURGE TEST FOR COMMON CONNECT:
 HIGH VOLT: CONNECT P1 TO T1
 THEN P2 TO L1
 LOW VOLT: CONNECT P1 TO T1 & T7,
 THEN P2 TO L1**

LOW VOLTAGE



NOTE: LEAD'S COLOR CAN BE YELLOW OR WHITE FOR MT2 PLANT

THREE PHASE DUAL VOLTAGE MOTOR



DRAWING REVISION R	REVISION BY AJW	DATE 07-17-2015		DRAWN BY SMC	Regal Beloit America, Inc.
ECO ECO-0081632	APPROVED BY T. VUE	DATE 07-17-2015		DATE 05-13-1992	
ECO DESCRIPTION REV'D IEC NOTATIONS PER IEC 60034-8				APPROVED BY TB	DESCRIPTION CONN DIAGRAM-INTERNAL
<small>COPYRIGHT REGAL BELOIT AMERICA, INC. ALL RIGHTS RESERVED. PROPRIETARY AND CONFIDENTIAL INFORMATION - THIS DOCUMENT IS THE PROPERTY OF REGAL BELOIT AMERICA, INC. ("OWNER") AND CONTAINS OWNER'S PROPRIETARY INFORMATION. ANY PERSON, CORPORATION OR OTHER FIRM RECEIVING IT IS DEEMED, BY RECEIVING IT, TO AGREE THAT IT, AND/OR ANY PART OF IT, SHALL NOT BE DISCLOSED TO ANY PERSON, CORPORATION OR OTHER ENTITY, DUPLICATED, AND/OR USED, EXCEPT AS EXPRESSLY APPROVED IN WRITING IN ADVANCE BY OWNER. THIS DOCUMENT SHALL BE RETURNED TO OWNER UPON REQUEST. IT MAY BE SUBJECT TO CERTAIN RESTRICTIONS UNDER APPLICABLE EXPORT CONTROL LAWS AND REGULATIONS.</small>				DATE 05-13-1992	3 PHASE - DUAL VOLTAGE MOTOR
			REFERENCE EE7308/EE7300	MATERIAL	PROCESS/FINISH
			THIRD ANGLE PROJECTION	SIZE A	DRAWING NUMBER EE7308T

CERTIFICATION DATA SHEET

Model#: 324TTGS6529 DT WINDING#: K3244127 NONE 1
CONN. DIAGRAM: A-EE7308T ASSEMBLY: F1 ONLY
OUTLINE: B-SS28022-1300

TYPICAL MOTOR PERFORMANCE DATA

Table with 8 columns: HP, KW, SYNC. RPM, F.L. RPM, FRAME, ENCLOSURE, KVA CODE, DESIGN. Values include 40&30, 30&22.4, 1800, 1780&1480, 324T, EPFC, G, B.

Table with 10 columns: PH, Hz, VOLTS, FL AMPS, START TYPE, DUTY, INSL, S.F, AMB°C, ELEVATION. Values include 3, 60/50, 230/460#190/380, 95/47.5&87/43.5, LINE OR INVERTER, CONTINUOUS, F3, 1.15/1.15, 40, 3300.

Table with 6 columns: FULL LOAD EFF, 3/4 LOAD EFF, 1/2 LOAD EFF, GTD. EFF, ELEC. TYPE, NO LOAD AMPS. Values include 94.1&94.1, 94.5, 94.5, 93.6, SQ CAGE INV RATED, 35 / 17.5.

Table with 5 columns: F.L. TORQUE, LOCKED ROTOR AMPS, L.R. TORQUE, B.D. TORQUE, F.L. RISE°C. Values include 118 LB-FT, 580 / 290, 218 LB-FT 185, 305 LB-FT 258, 65.

Table with 7 columns: SOUND PRESSURE @ 3 FT., SOUND POWER, ROTOR WK^2, MAX. WK^2, SAFE STALL TIME, STARTS /HOUR, APPROX. MOTOR WGT. Values include 65 dBA, 75 dBA, 8.8 LB-FT^2, 275 LB-FT^2, 25 SEC., 2, 700 LBS.

*** SUPPLEMENTAL INFORMATION ***

Table with 9 columns: DE BRACKET TYPE, ODE BRACKET TYPE, MOUNT TYPE, ORIENTATION, SEVERE DUTY, HAZARDOUS LOCATION, DRIP COVER, SCREENS, PAINT. Values include STANDARD, RIGID, HORIZONTAL, PREMIUM SEVERE DUTY, EXP PROOF CL I GR C&D CL II GR F&G T3B, FALSE, NONE, BLUE (EPOXY).

Table with 8 columns: BEARINGS (DE, OPE), GREASE, SHAFT TYPE, SPECIAL DE, SPECIAL ODE, SHAFT MATERIAL, FRAME MATERIAL. Values include BALL, 6312, 6311, POLYREX EM, T, NONE, NONE, 1045 HOT ROLLED (C-204), CAST IRON.

Table with 7 columns: THERMO-PROTECTORS (THERMOSTATS, PROTECTORS, WDG RTDs, BRG RTDs), THERMISTORS, CONTROL, SPACE /n HEATERS. Values include TSTATS (N/C), NOT, NONE, NONE, NONE, FALSE, NONE VOLTS.

If Inverter equals NONE, contact factory for further information

*
N
O
T
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S
*

Table with 3 columns: INVERTER TORQUE: CONSTANT 10:1, INV. HP SPEED RANGE: NONE, ENCODER: NONE, NONE NONE, NONE NONE PPR, BRAKE: NONE NONE, NONE P/N NONE, NONE NONE, - FT-LB NONE V NONE Hz.

DATE: 06/21/2017 05:46:32 AM
FORM 3531 REV.3 02/07/99
** Subject to change without notice.

Data Sheet

Date: 19-06-2017
 Customer: _____
 Attention: _____
 Submitted by: FAREEDA DUDEKULA



324TTGS6529

Submittal

Data @ 460 V

Motor Load Data

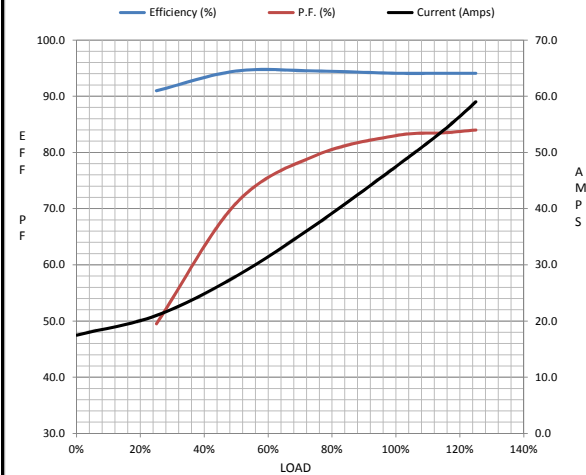
Load	0%	25%	50%	75%	100%	115%	125%	LR
Current (Amps)	17.5	21.0	28.0	37.2	47.5	54.0	59.0	290
Torque (ft-lb)	0.00	29.5	58.5	88.5	118	136	148	218
RPM	1800	1795	1790	1785	1780	1,775	1772	0
Efficiency (%)		91.0	94.5	94.5	94.1	94.1	94.1	
P.F. (%)	4.5	49.5	71.0	79.5	83.0	83.5	84.0	34.0

Motor Speed Data

	LR	Pull-Up	BD	Rated	Idle
Speed (RPM)	0	900	1685	1780	1800
Current (Amps)	290	255	165	47.5	17.5
Torque (ft-lb)	218	190	305	118	0.00

Information Block

HP	40.0			
Sync. RPM	1800			
Frame	324			
Enclosure	TEFC			
Construction	TFN			
Voltage	30/460#190/38V			
Frequency	60 Hz			
Design	B			
LR Code letter	G			
Service Factor	1.15			
Temp Rise @ FL	65 ° C			
Duty	CONT			
Ambient	40 ° C			
Elevation	1,000 feet			
Rotor/Shaft wk ²	8.8 Lb-Ft ²			
Ref Wdg	K3244127 NONE			
Sound Pressure @ 1M	65 dBA			
VFD Rating	CONSTANT 10:1			
Outline Dwg	B-SS28022-1300			
Conn. Diag	A-EE7308T			
Additional Specifications:				
0				
365THFS8036				
EQUIV CKT (OHMS / PHASE)				
R1	R2	X1	X2	Xm
0.0820	0.0660	0.5790	0.7980	13.5140



Speed -Torque Curve

