

PRODUCT INFORMATION PACKET

marathon®
Motors

Model No: 324TTFC6031

Catalog No: E815A

40 HP General Purpose Motor, 3 phase, 1800 RPM, 575 V, 324T Frame, TEFC
General Purpose Motors



Regal and Marathon are trademarks of Regal Rexnord Corporation or one of its affiliated companies.
©2021 Regal Rexnord Corporation, All Rights Reserved. MC017097E

RegalRexnord

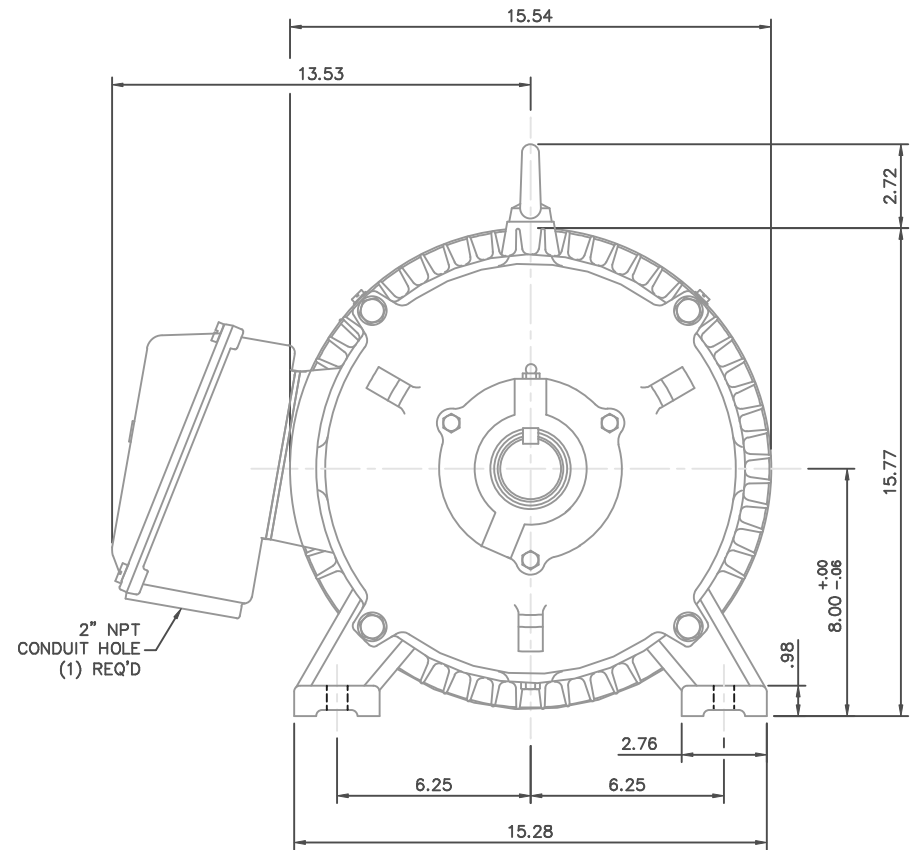
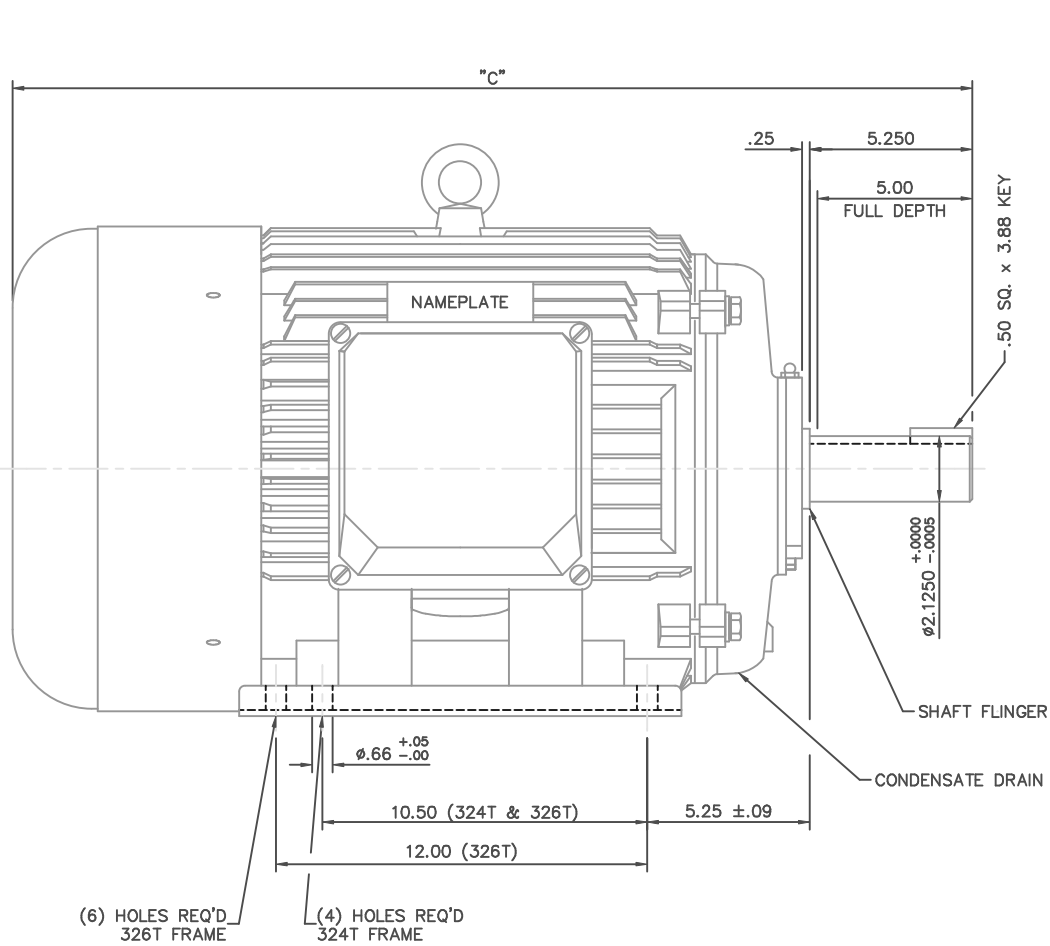
Nameplate Specifications

Output HP	40 Hp	Output KW	30.0 kW
Frequency	60 Hz	Voltage	575 V
Current	38.0 A	Speed	1780 rpm
Service Factor	1.15	Phase	3
Efficiency	94.1 %	Power Factor	86
Duty	Continuous	Insulation Class	F
Design Code	B	KVA Code	G
Frame	324T	Enclosure	Totally Enclosed Fan Cooled
Thermal Protection	No	Ambient Temperature	40 °C
Drive End Bearing Size	6312	Opp Drive End Bearing Size	6312
UL	Recognized	CSA	Y
CE	Y	IP Code	43
Number of Speeds	1		

Technical Specifications

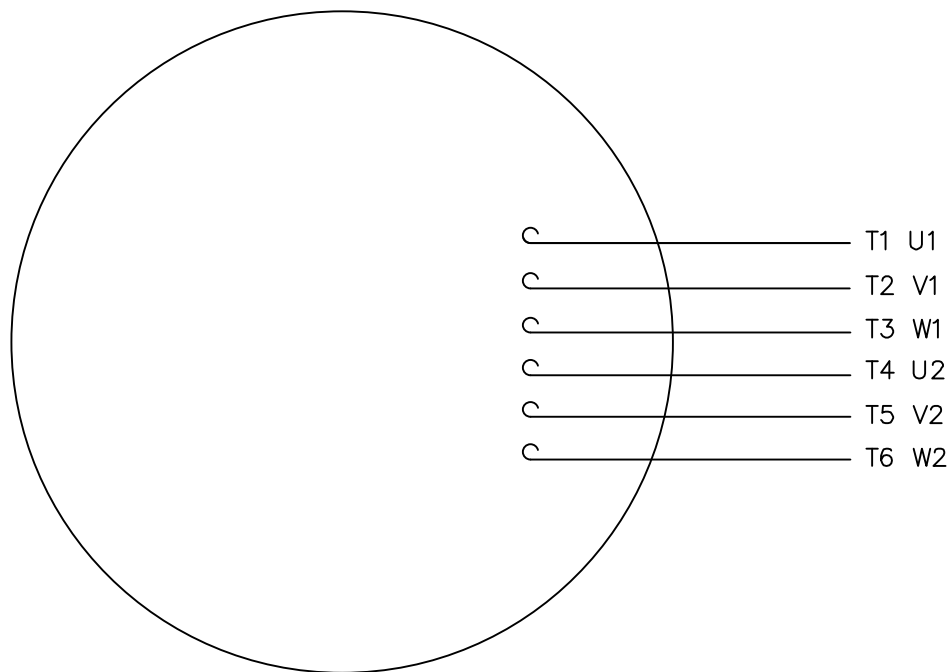
Electrical Type	Squirrel Cage Induction Run	Starting Method	Across The Line
Poles	4	Rotation	Reversible
Mounting	Rigid Base	Motor Orientation	Horizontal
Drive End Bearing	Ball	Opp Drive End Bearing	Ball
Frame Material	Cast Iron	Shaft Type	T
Overall Length	29.53 in	Shaft Diameter	2.130 in
Shaft Extension	5.25 in	Assembly/Box Mounting	F1/F2 CAPABLE
Outline Drawing	169541.60ME	Connection Drawing	005190.01ME

This is an uncontrolled document once printed or downloaded and is subject to change without notice. Date Created:10/12/2021

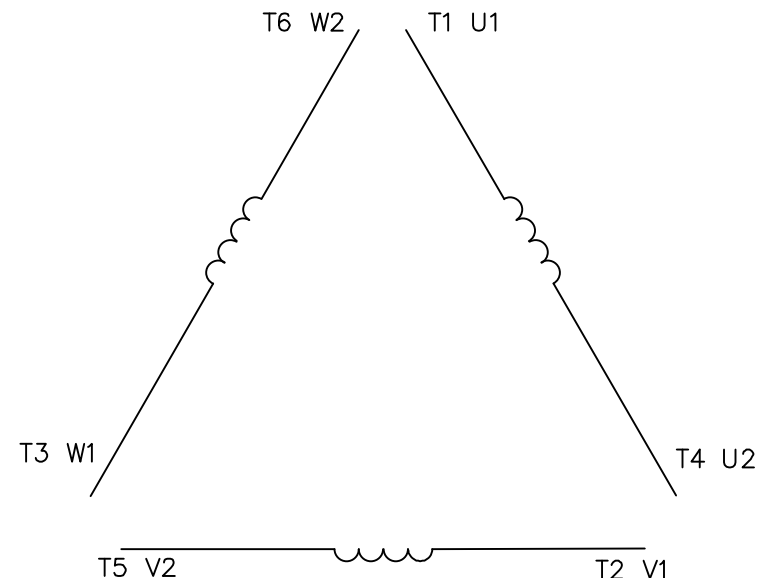


FRAME DESIGN	"C"
324T	29.53
326T	31.02


		TOLERANCES UNLESS SPECIFIED			DRAWN JJK 03/29/99	
		DEC.	INCHES		CHK	
		.X	$\pm .1$		APPD PG 03/31/99	
		.XX	$\pm .03$		SCALE 1=4	
		.XXX	$\pm .005$		REF 169504	
01	ADDED HOLE FOR 326T BASE	JJK	07/13/99	.XXXX	$\pm .0005$	FMF
NO.	REVISION	BY & DATE	CHK	ANG	$\pm 1/2^{\circ}$	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 16954160ME	SIZE B
				DIST	DRAWING NO. 169541-60ME	REV. 01



LINE LEADS



	L1	L2	L3	JOIN
START (WYE)	T1 U1	T2 V1	T3 U2	(T4,T5,T6) (U2,V2,W2)
RUN (DELTA)	(T1,T6) (U1,W2)	(T2,T4) (V1,U2)	(T3,T5) (W1,V2)	

				TOLERANCES UNLESS SPECIFIED		 MARATHON ELECTRIC	DRAWN PG 05/07/82		
				DEC.	INCHES		CHK		
				.X	±.1		APPD TEM 05/07/82		
03	ADDED IEC DESIGNATIONS	MOL 04/27/12	.XX	±.01	TITLE EXTERNAL WIRING DIAGRAM STAR START – DELTA RUN		SCALE 1=1		
02	REMOVED OBSOLETE STATUS	KJH 06/28/99	.XXX	±.005			REF		
01	REDRAWN ON CAD	DBT 05/30/97	.XXXX	±.0005	MAT'L. Y–CONNECTED START – DELTA CONNECTED RUN		FMF		
NO.	REVISION	BY & DATE	CHK	ANG	±1/2"	FINISH SINGLE VOLTAGE		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 00519001ME		SIZE	DRAWING NO.	REV.
			DIST				A	005190–01ME	03

CERTIFICATION DATA SHEET

Model#: 324TTFC6031 AA
 CONN. DIAGRAM: 005190.01ME
 OUTLINE: 169541.60ME

WINDING#: T16104005 FR 4
 ASSEMBLY: F1/F2 CAPABLE

TYPICAL MOTOR PERFORMANCE DATA

HP	KW	SYNC. RPM	F.L. RPM	FRAME	ENCLOSURE	KVA CODE	DESIGN
40	30	1800	1780	324T	TEFC	G	B

PH	Hz	VOLTS	FL AMPS	START TYPE	DUTY	INSL	S.F	AMB°C	ELEVATION
3	60	575	38	ACROSS THE LINE	CONTINUOUS	F2	1.15	40	3300

FULL LOAD EFF: 94.1	3/4 LOAD EFF: 94.5	1/2 LOAD EFF: 94.5	GTD. EFF	ELEC. TYPE	NO LOAD AMPS
FULL LOAD PF: 86	3/4 LOAD PF: 80.5	1/2 LOAD PF: 72	-	SQ CAGE IND RUN	13

F.L. TORQUE	LOCKED ROTOR AMPS	L.R. TORQUE	B.D. TORQUE	F.L. RISE°C
118.5 LB-FT	223	220 LB-FT 185	318.5 LB-FT 269	58.3

SOUND PRESSURE @ 3 FT.	SOUND POWER	ROTOR WK^2	MAX. WK^2	SAFE STALL TIME	STARTS /HOUR	APPROX. MOTOR WGT
- dBA	- dBA	6.32 LB-FT^2	- LB-FT^2	20 SEC.	2	534 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						
6312	6312	POLYREX EM	T	NONE	NONE	1045 HOT ROLLED (C-204)	CAST IRON

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: NONE
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 04:31:35 AM
 FORM 3531 REV.3 02/07/99
 ** Subject to change without notice.

Data Sheet

Date: 12/13/2018

Customer: _____

Attention: _____

Submitted by: FAREEDA DUDEKULA



324TTFC6031

Submittal

Data @ 575 V

Motor Load Data

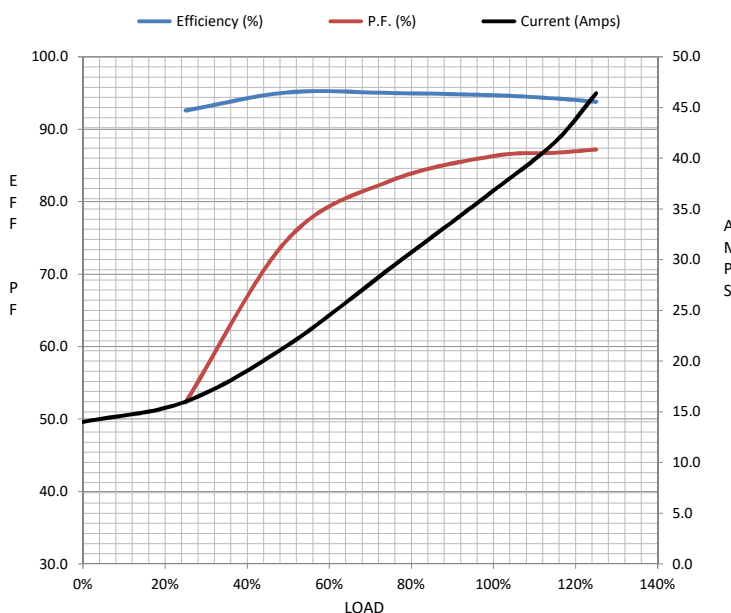
Load	0%	25%	50%	75%	100%	115%	125%	LR	
Current (Amps)	14.0	16.0	21.6	29.2	36.8	41.6	46.4	232	
Torque (ft-lb)	0.00	30.3	60.3	90.3	119	134	150	224	
RPM	1800	1795	1790	1784	1778	1,776	1772	0	
Efficiency (%)		92.6	95.1	95.0	94.7	94.3	93.8		
P.F. (%)	4.8	52.3	74.9	82.9	86.3	86.8	87.2	0.0	

Motor Speed Data

	LR	Pull-Up	BD	Rated	Idle
Speed (RPM)	0	900	1656	1778	1800
Current (Amps)	232	213	139	36.8	14.0
Torque (ft-lb)	224	195	348	119	0.00

Information Block

HP	40.0			
Sync. RPM	1800			
Frame	324			
Enclosure	TEFC			
Construction	TFS			
Voltage	575	V		
Frequency	60	Hz		
Design	A			
LR Code letter	G			
Service Factor	1.15			
Temp Rise @ FL	58	° C		
Duty	CONT			
Ambient	40	° C		
Elevation	1,000	feet		
Rotor/Shaft wk²	6.3	Lb-Ft²		
Ref Wdg	T16104005 FR			
Sound Pressure @ 1M	999	dBA		
VFD Rating	NONE			
Outline Dwg	169541.60ME			
Conn. Diag	005190.01ME			
Additional Specifications:				
0				
0				
EQUIV CKT (OHMS / PHASE)				
R1	R2	X1	X2	Xm
0.0000	0.0000	0.0000	0.0000	0.0000



Speed -Torque Curve

