marathon®

General Purpose Motors

Model No: 324TTFCA6028
Catalog No: GT1234

General Purpose Motor, 40 & 30 HP, 3 Ph, 60 & 50 Hz, 230/460 & 190/380 V, 1800 RPM, 324TC Frame, TEFC

©2026 Marathon, All Rights Reserved.

marathon®

Product Information Packet: Model No: 324TTFCA6028, Catalog No: GT1234 General Purpose Motor, 40 & 30 HP, 3 Ph, 60 & 50 Hz, 230/460 & 190/380 V, 1800 RPM, 324TC Frame, TEFC

Nameplate Specifications

Phase	**3**	Output HP	**40 & 30 Hp**
Output KW	**30.0 & 22.4 kW**	Voltage	**230/460 & 190/380 V**
Speed	**1780 & 1480 r/min**	Synchronous RPM	**1800 & 1500 r/min**
Service Factor	**1.15 & 1.0**	Frame	**324TC**
Enclosure	**Totally Enclosed Fan Cooled**	Thermal Protection	**No Protection**
Efficiency	**94.1 & 94.1 %**	Ambient Temperature	**40 °C**
Frequency	**60 & 50 Hz**	Current	**94/47 & 87/43.5 A**
Power Factor	**83**	Duty	**Continuous**
Insulation Class	**F**	Design Code	**B**
KVA Code	**G**	Drive End Bearing Size	**6312**
Opp Drive End Bearing Size	**6311**	UL	**Recognized**
CSA	**Y**	CE	**Y**
IP Code	**43**	Number of Speeds	**1**

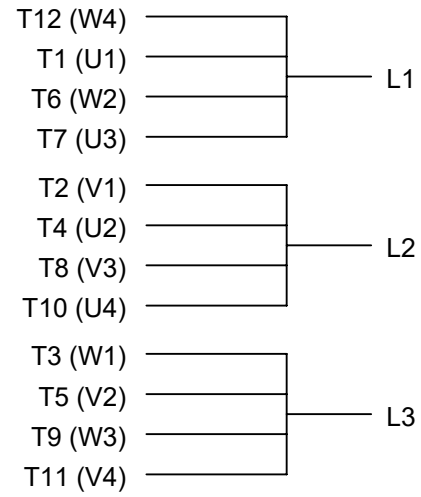
Technical Specifications

Electrical Type	**Squirrel Cage Induction Run**	Starting Method	**Across The Line**
Poles	**4**	Rotation	**Reversible**
Resistance Main	**.1368 O**	Mounting	**Rigid Base**
Motor Orientation	**Horizontal**	Drive End Bearing	**Ball**
Opp Drive End Bearing	**Ball**	Frame Material	**Cast Iron**
Shaft Type	**T**	Overall Length	**32.68 in**
Shaft Diameter	**2 1/8 in**	Shaft Extension	**5.25 in**
Assembly/Box Mounting	**F1/F2 Capable**		

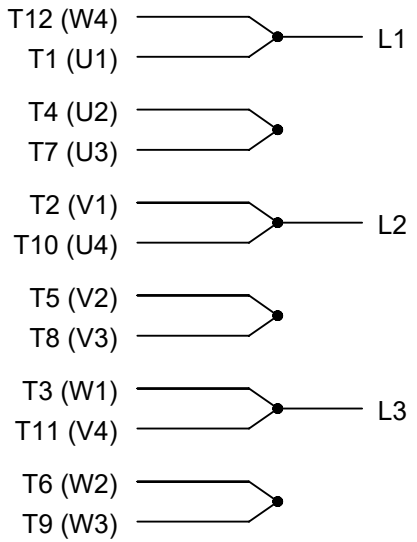
Drawings

Connection Drawing	**A-EE7308AA**	Outline Drawing	**SS620300-324TC**

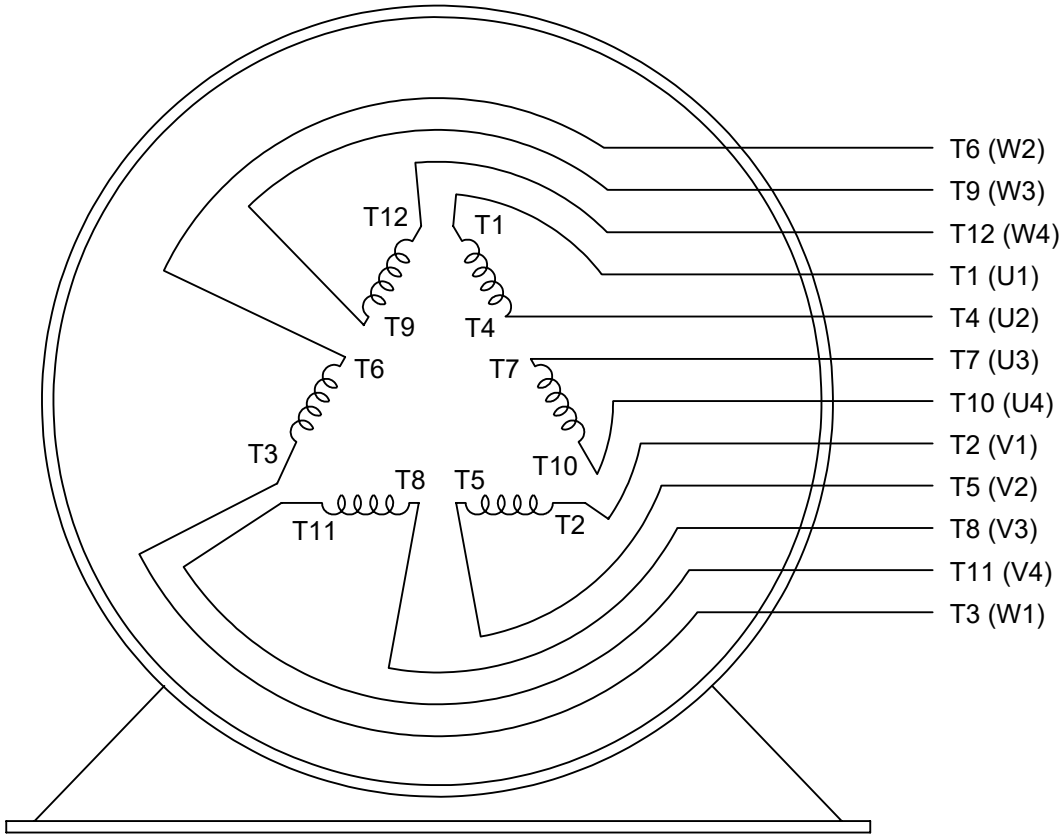
This is an uncontrolled document once printed or downloaded and is subject to change without notice. Date Created: 16/10/2026



LOW VOLTAGE



HIGH VOLTAGE



VIEW OF TERMINAL END

DRAWING REVISION: L	REVISION BY: SB	REV DATE/© DATE: 08/01/2025
REQUEST NUMBER: CR-0023654	APPROVED BY: SBD	DATE: 08/01/2025

REQUEST NUMBER DESCRIPTION: DRAWING TITLE BLOCK UPDATED

COPYRIGHT (PER REVISION DATE) MARATHON ELECTRIC, LLC. ALL RIGHTS RESERVED. PROPRIETARY AND CONFIDENTIAL INFORMATION - THIS DOCUMENT IS THE PROPERTY OF MARATHON ELECTRIC, LLC. ("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.

PRIMARY DIMENSIONS ARE INCH
mm DIMENSIONS IN [BRACKETS]
ARE FOR REFERENCE ONLY

DRAWN BY: LZ	
DATE: 01-12-1994	
APPROVED BY: GK	
DATE: 01-14-1994	
REFERENCE	
THIRD ANGLE PROJECTION	

marathon™

DESCRIPTION: CONN DIAGRAM-EXTERNAL
3Ø-2/1 DELTA-12 LEADS

MATERIAL	PROCESS/FINISH

SIZE	DRAWING NUMBER	SHEET
A	EE7308AA	1 OF 1

Uncontrolled Copy

Data Sheet

Date: 15-06-2017
Customer:
Attention:
Submitted by: FAREEDA DUDEKULA

marathon® electric

324TTFCA6028

Submittal

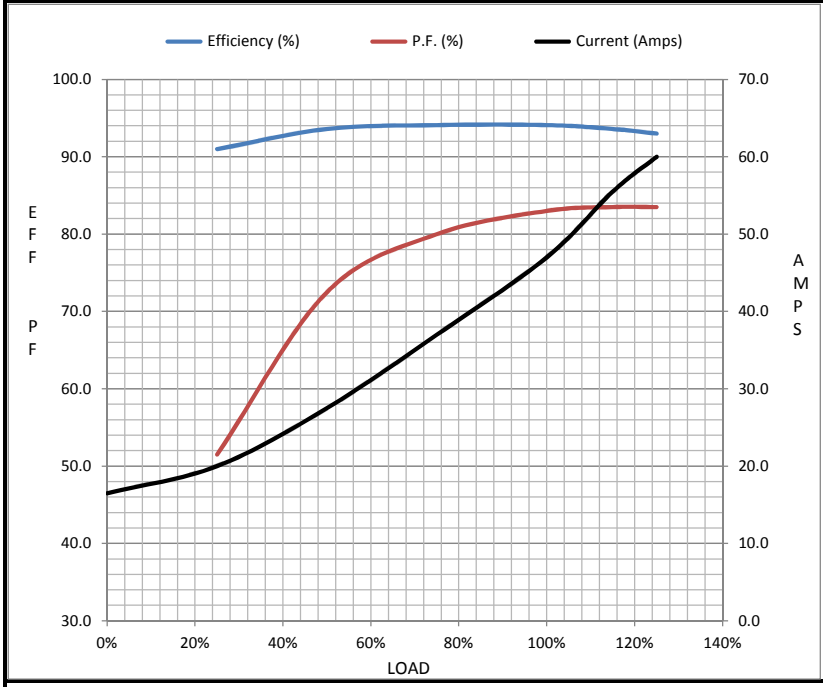
Data @ 460 V

Motor Load Data

Load	0%	25%	50%	75%	100%	115%	125%	LR	
Current (Amps)	16.5	20.0	27.5	37.0	47.0	55.5	60.0	275	
Torque (ft-lb)	0.00	29.3	58.5	88.3	118	136	149	195	
RPM	1800	1795	1790	1785	1780	1,775	1770	0	
Efficiency (%)		91.0	93.6	94.1	94.1	93.6	93.0		
P.F. (%)	5.0	51.5	72.5	80.0	83.0	83.5	83.5	33.0	

Motor Speed Data

	LR	Pull-Up	BD	Rated	Idle
Speed (RPM)	0	750	1705	1780	1800
Current (Amps)	275	250	160	47.0	16.5
Torque (ft-lb)	195	200	318	118	0.00



Information Block

HP	40.0
Sync. RPM	1800
Frame	324
Enclosure	TEFC
Construction	TFC
Voltage	230/460#190/38(V
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 wk²	11.2 Lb-Ft²
Ref Wdg	CHT32440001 NONE
Sound Pressure @ 1M	60 dBA
VFD Rating	NONE
Outline Dwg	B-SS620300
Conn. Diag	A-EE7308AA

Additional Specifications:

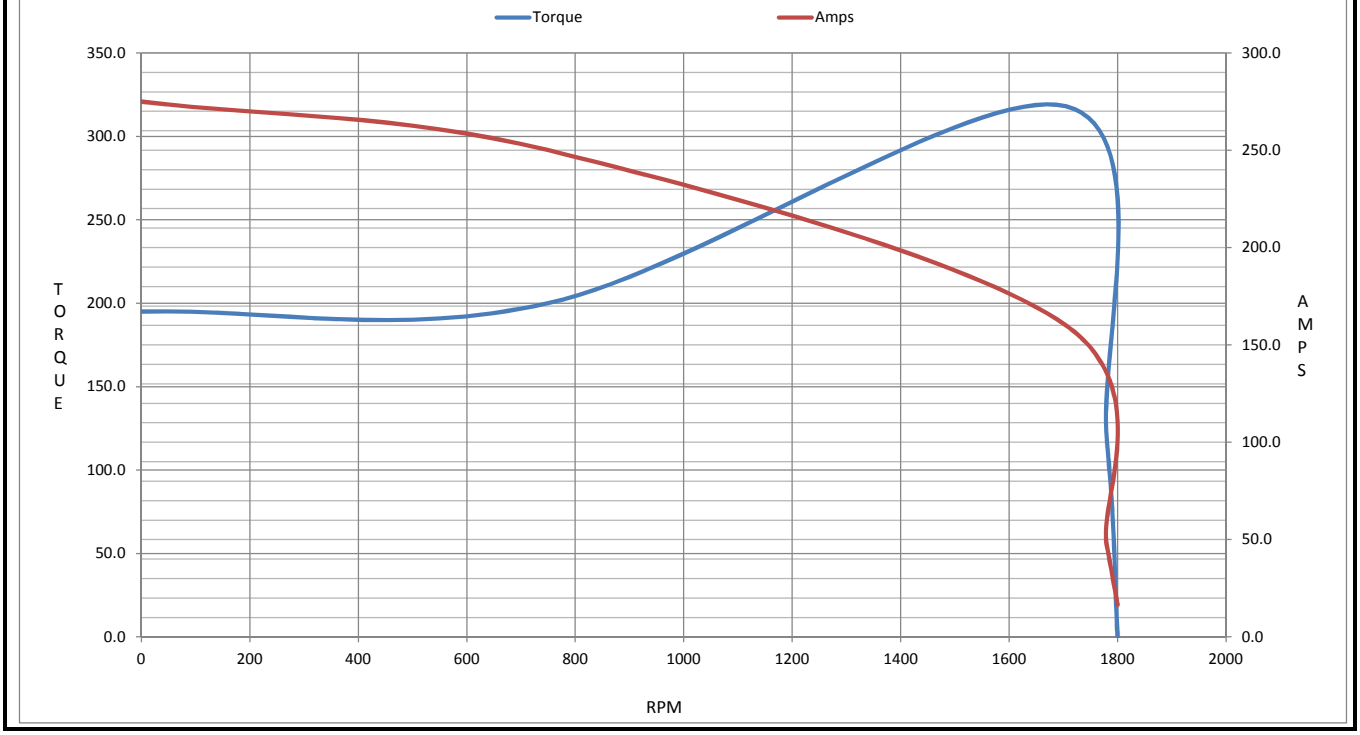
0

365THFS8036

EQUIV CKT (OHMS / PHASE)

R1	R2	X1	X2	Xm
0.0000	0.0000	0.0000	0.0000	0.0000

Speed -Torque Curve



Uncontrolled Copy

CERTIFICATION DATA SHEET

Model#:	324TTFCA6028 AA	**WINDING#:**	CHT32440001 NONE 1
CONN. DIAGRAM:	A-EE7308AA	**ASSEMBLY:**	F1/F2 CAPABLE
OUTLINE:	B-SS620300		

TYPICAL MOTOR PERFORMANCE DATA

HP	KW	SYNC. RPM	F.L. RPM	FRAME	ENCLOSURE	KVA CODE	DESIGN
40&30	30&22.4	1800	1780&1480	324TC	TEFC	G	B

PH	Hz	VOLTS	FL AMPS	START TYPE	DUTY	INSL	S.F	AMB°C	ELEVATION
3	60/50	230/460#190/380	94/47&87/43.5	ACROSS THE LINE	CONTINUOUS	F7	1.15/1.0	40	3300

FULL LOAD EFF: 94.1&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&82.5	3/4 LOAD PF: 80	1/2 LOAD PF: 72.5	93.6	SQ CAGE IND RUN	33 / 16.5

F.L. TORQUE	LOCKED ROTOR AMPS	L.R. TORQUE	B.D. TORQUE	F.L. RISE°C
118 LB-FT	550 / 275	195 LB-FT 165	318 LB-FT 270	65

SOUND PRESSURE @ 3 FT.	SOUND POWER	ROTOR WK^2	MAX. WK^2	SAFE STALL TIME	STARTS /HOUR	APPROX. MOTOR WGT
60 dBA	70 dBA	11.2 LB-FT^2	- LB-FT^2	20 SEC.	2	695 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 6312	BALL 6311	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

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

*
N
O
T
E
S
*

DATE: 06/21/2017 04:40:00 AM
FORM 3531 REV.3 02/07/99
** Subject to change without notice.