

PRODUCT INFORMATION PACKET

marathon[®]
Motors

Model No: 324TTDBD6038
Catalog No: GT2573
40,1800,DP,324JP,3/60/575
JP



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REGAL[®]



Nameplate Specifications

Output HP	40 Hp	Output KW	30.0 kW
Frequency	60 Hz	Voltage	575 V
Current	38.5 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	324JP
Enclosure	Drip Proof	Overload Protector	No
Ambient Temperature	40 °C	Drive End Bearing Size	6312
Opp Drive End Bearing Size	6311	UL	Recognized
CSA	Y	CE	Y
IP Code	22		

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	Rolled Steel	Shaft Type	JP
Frame Length	14.56 in	Shaft Diameter	1.249 in
Shaft Extension	8.37 in	Assembly/Box Mounting	F1/F2 Capable
Outline Drawing	SS620812-324T	Connection Diagram	EE7300

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**THREE PHASE - SINGLE VOLTAGE
MOTOR - CONDUIT BOX @ 'A'**

**TO REVERSE ROTATION:
INTERCHANGE ANY TWO
LINE LEAD CONNECTIONS.**

TERMINAL BLOCK WHEN SPECIFIED



VIEW OF TERMINAL END

**IF MOTOR HAS
6 LEADS**



A-9806 DECAL

**OPTIONAL CORD
CONNECTION**



DRAWING REVISION AB	REVISION BY JJB	DATE 06-27-2017
ECO ECO-0125361	APPROVED BY TB	DATE 06-27-2017
ECO DESCRIPTION UPDATED TO CURRENT STANDARDS		
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DRAWN BY DA
DATE 03-26-1993
APPROVED BY TB
DATE 03-26-1993
REFERENCE
THIRD ANGLE PROJECTION

		Regal Beloit America, Inc.	
DESCRIPTION CONNECTION DIAGRAM EXTERNAL - SINGLE VOLTAGE - 3Ø MOTOR			
MATERIAL		PROCESS/FINISH	
SIZE A	DRAWING NUMBER EE7300		SHEET 1 OF 1



**P.O. BOX 8003
WAUSAU, WI 54401-8003
PH. 715-675-3311**

CERTIFICATION DATA SHEET

CUSTOMER:
ORDER #: EE7300
CONN. DIAGRAM: EE7300
OUTLINE: SS620812-324T
WINDING #: HE32004011 3
CUSTOMER PO #:
MODEL #: 324TTDDBD6038 AA
CUSTOMER PART #:
MOUNTING: F1/F2 CAPABLE

TYPICAL MOTOR PERFORMANCE DATA

HP	KW	SYNC. RPM	F.L. RPM	FRAME	ENCLOSURE	KVA CODE	DESIGN	
40	30.0	1800	1780	324JP	DP	G	B	
PH	HZ	VOLTS	AMPS	START TYPE	DUTY	INSL	S.F.	AMB°C
3	60	575	38.5	LINE OR INVERTER	CONTINUOUS	F4	1.15	40

FULL LOAD EFF:	94.1	3/4 LOAD EFF:	94.1	1/2 LOAD EFF:	94.1	GTD. EFF		ELEC. TYPE
FULL LOAD PF:	83	3/4 LOAD PF:	78.5	1/2 LOAD PF:	68	93.6		SQ CAGE INV RATED
F.L. TORQUE	LOCKED ROTOR AMPS	L.R. TORQUE	B.D. TORQUE	F.L. RISE°C				
118 LB-FT	228	207 LB-FT	175 %	289 LB-FT	245 %			30

SOUND PRESSURE @ 3 FT.	SOUND POWER	ROTOR WK^2	MAX. WK^2	SAFE STALL TIME	STARTS / HOUR	APPROX. MOTOR WGT
75 DBA	85 DBA	9.5 LB-FT^2	- LB-FT^2	20 SEC.	2	575 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 DE ODE	GREASE	SHAFT TYPE	SPECIAL DE	SPECIAL ODE	SHAFT MATERIAL	FRAME MATERIAL		
BALL BALL 6312 6311	POLYREX EM	JP	NONE	NONE	1045 HOT ROLLED (C-204)	ROLLED STEEL		

THERMO-PROTECTORS				THERMISTORS			SPACE HEATERS	
THERMOSTATS	PROTECTORS	WDG RTDS	BRG RTDS	NONE	FALSE	NONE	NONE	VOLTS
NONE	NOT	NONE	NONE	NONE	FALSE	NONE	NONE	

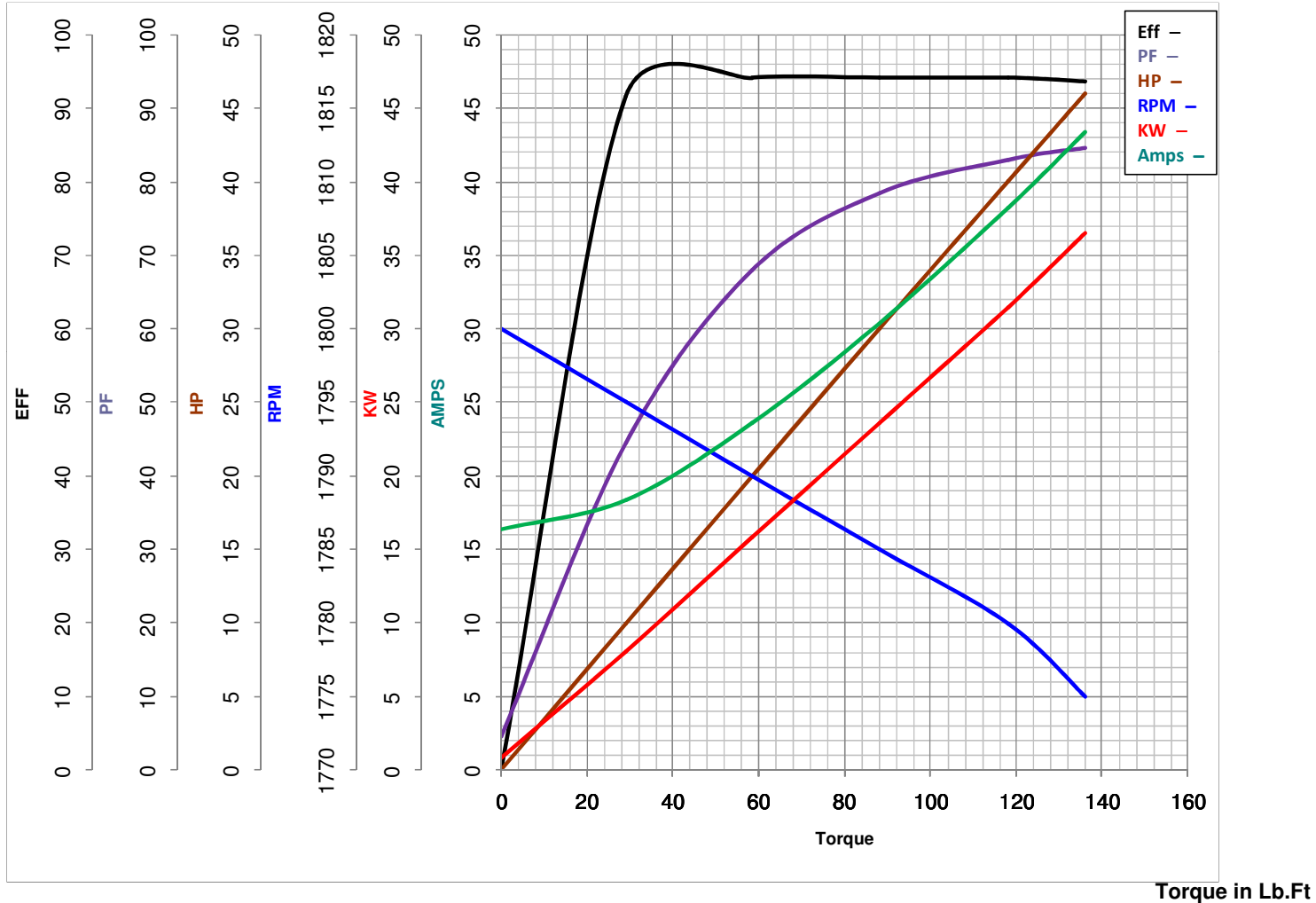
INVERTER	TORQUE: CONSTANT 4:1/VARIABLE 20:1
INV. HP SPEED RANGE:	NONE
ENCODER:	NONE
BRAKE:	NONE
P/N	NONE
FT-LB	NONE
V	NONE
Hz	

PREPARED BY: Anusha Muthyala
DATE: 05/04/2018 12:01:09 AM
FORM 3531 REV.3 02/07/99
** Subject to change without notice.

MARATHON ELECTRIC CORPORATION

TYPICAL PERFORMANCE CURVE for AC MOTOR

Customer _____ Curve at 575 Volts HP 40.00 PHASE 3
 Model No 324TTDBD6038 60 HZ
40 HP VOLTS 575
 Catalog No GT2573 HZ 60 RPM 1780



FL TORQUE	<u>118</u>	Lb.Ft	FL AMPS	<u>38.5</u>	
BD TORQUE	<u>289.0</u>	Lb.Ft	PU TORQUE	<u>175.0</u>	Lb.Ft
LR TORQUE	<u>207</u>	Lb.Ft	LR AMPS	<u>228</u>	
WINDING	HE32004011-3	Prepared By	ANUSHA M	Date	5/4/2018