

PRODUCT INFORMATION PACKET

marathon[®]
Motors

Model No: 324TTDBD6008
Catalog No: GT0576
50,3600,DP,324JM,3/60/575
JM



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REGAL[®]



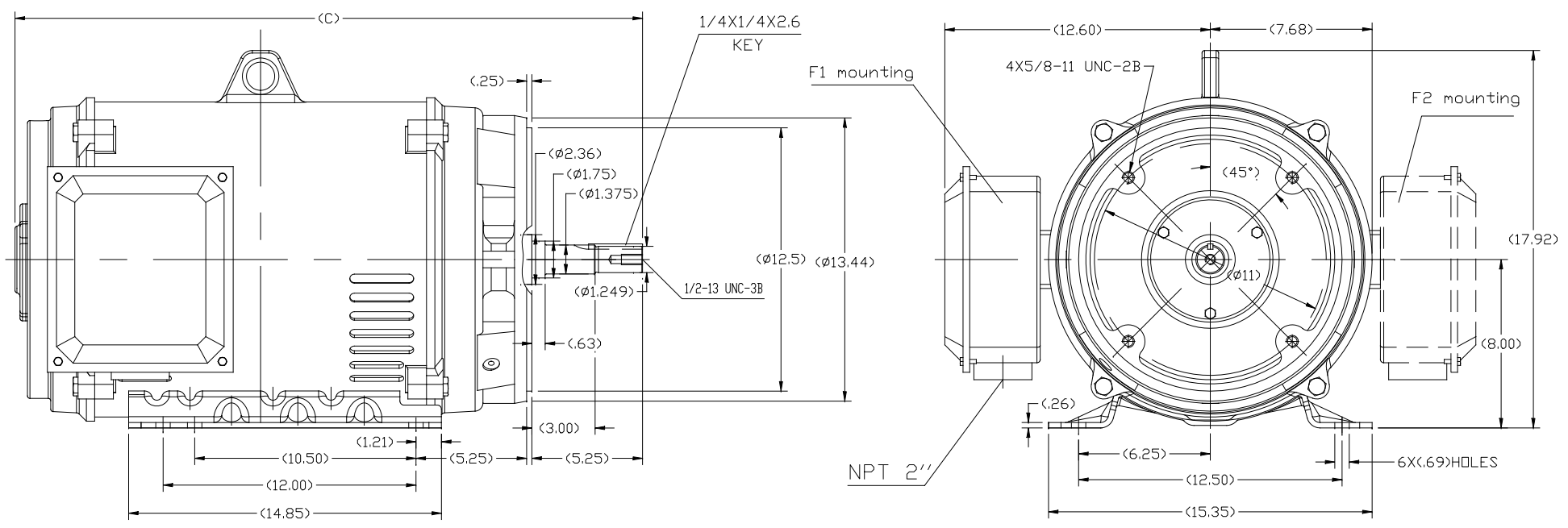
Nameplate Specifications

Output HP	50 Hp	Output KW	37.0 kW
Frequency	60 Hz	Voltage	575 V
Current	46.0 A	Speed	3565 rpm
Service Factor	1.15	Phase	3
Efficiency	93 %	Duty	Continuous
Insulation Class	F	Design Code	B
KVA Code	F	Frame	324JM
Enclosure	Drip Proof	Overload Protector	No
Ambient Temperature	40 °C	Drive End Bearing Size	6212
Opp Drive End Bearing Size	6212	UL	Recognized
CSA	Y	CE	Y
IP Code	22		

Technical Specifications

Electrical Type	Squirrel Cage Inverter Rated	Starting Method	Line Or Inverter
Poles	2	Rotation	Reversible
Mounting	Rigid base	Motor Orientation	Horizontal
Drive End Bearing	Ball	Opp Drive End Bearing	Ball
Frame Material	Rolled Steel	Shaft Type	JM
Frame Length	14.56 in	Shaft Diameter	1.249 in
Shaft Extension	5.5 in	Assembly/Box Mounting	F1/F2 Capable
Outline Drawing	SS620798-324T	Connection Diagram	EE7300

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324T	28.94
326T	30.12
FRAME	C

TOLERANCES UNLESS SPECIFIED		REGAL REGAL-BELOIT CORPORATION		DRAWN Xlaowei Zhu	
DEC.	INCHES			CHK	Yan Wang
X	±.1			APPD	Yunhai Zou
.XX	±.03	TITLE	OUTLINE	SCALE	1:1
.XXX	±.005		324/326T-ODP-JM-ROLLED STEEL	REF	
.XXXX	±.0005	MAT'L.		FMF	REGAL-WUXI
NO.	REVISION	BY & DATE		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		CHK	ANG ±1/2"	FINISH	
		RFP	CAD FILE SS620798	SIZE	DRAWING NO.
		DIST		B	SS620798
					REV.

**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**

- L1 WHITE
- L2 RED
- L3 BLACK

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: CUSTOMER PO #: **MODEL #:** 324TTDDBD6008 **AA**
ORDER #: **CONN. DIAGRAM:** EE7300 **CUSTOMER PART #:**
OUTLINE: SS620798-324T **MOUNTING:** F1/F2 CAPABLE
WINDING #: HE32002009 **3**

TYPICAL MOTOR PERFORMANCE DATA

HP	KW	SYNC. RPM	F.L. RPM	FRAME	ENCLOSURE	KVA CODE	DESIGN	
50	37.0	3600	3565	324JM	DP	F	B	
PH	HZ	VOLTS	AMPS	START TYPE	DUTY	INSL	S.F.	AMB°C
3	60	575	46	LINE OR INVERTER	CONTINUOUS	F4	1.15	40

FULL LOAD EFF:	93	3/4 LOAD EFF:	93.6	1/2 LOAD EFF:	92.4	GTD. EFF		ELEC. TYPE
FULL LOAD PF:	87.5	3/4 LOAD PF:	85	1/2 LOAD PF:	78	SQ CAGE INV RATED		
F.L. TORQUE	LOCKED ROTOR AMPS	L.R. TORQUE	B.D. TORQUE	F.L. RISE°C				
73.8 LB-FT	272	126 LB-FT	170 %	178 LB-FT	240 %			35

SOUND PRESSURE @ 3 FT.	SOUND POWER	ROTOR WK^2	MAX. WK^2	SAFE STALL TIME	STARTS / HOUR	APPROX. MOTOR WGT
78 DBA	88 DBA	4.8 LB-FT^2	- LB-FT^2	15 SEC.	2	450 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	POLYREX EM	JM	NONE	NONE	1045 HOT ROLLED (C-204)	ROLLED STEEL
6212	6212						

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

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

PREPARED BY: Anusha Muthyala
DATE: 05/04/2018 02:02:57 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 50.00

PHASE 3

Model No 324TTDBD6008

60

HZ

VOLTS 575

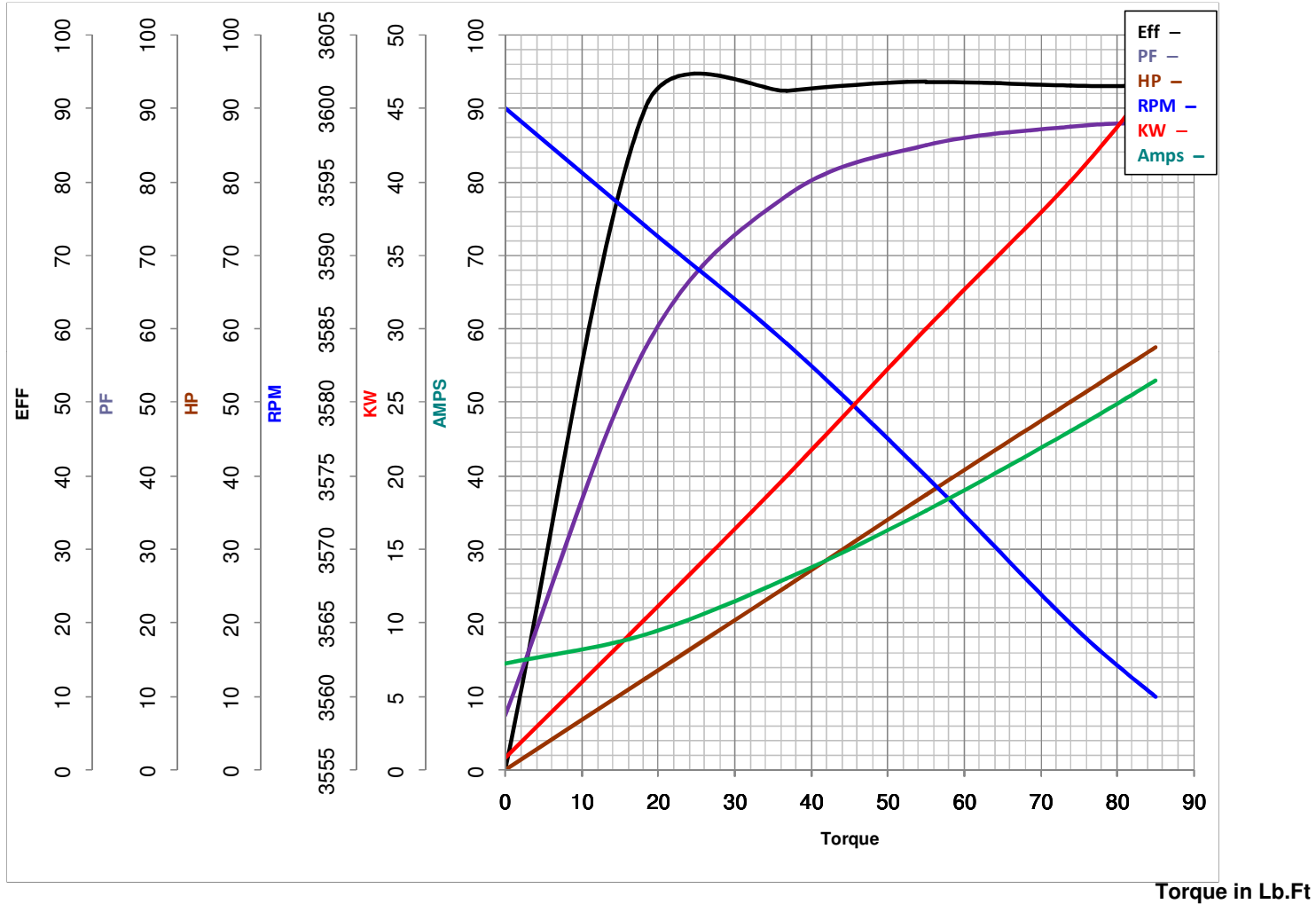
50

HP

Catalog No GT0576

HZ 60

RPM 3565



FL TORQUE	<u>73.8</u>	Lb.Ft	FL AMPS	<u>46</u>	
BD TORQUE	<u>178.0</u>	Lb.Ft	PU TORQUE	<u>106.0</u>	Lb.Ft
LR TORQUE	<u>126</u>	Lb.Ft	LR AMPS	<u>272</u>	
WINDING	HE32002009-3	Prepared By	ANUSHA M	Date	5/4/2018