

PRODUCT INFORMATION PACKET

marathon[®]
Motors

Model No: 286TTDBD6076
Catalog No: GT0063
20,1200,DP,286T,3/60/230/460
Open Drip Proof (ODP)



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REGAL[®]



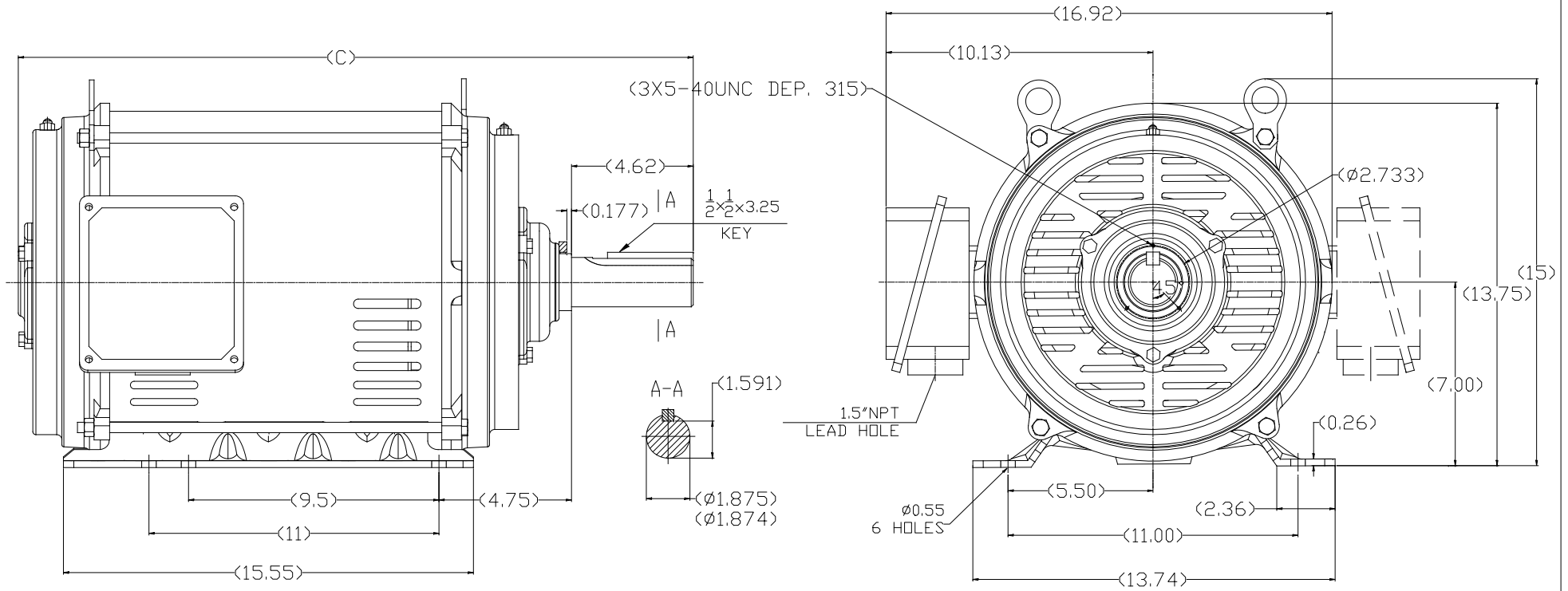
Nameplate Specifications

Output HP	20 Hp	Output KW	14.9 kW
Frequency	60 Hz	Voltage	230/460 V
Current	52.5/26.3 A	Speed	1182 rpm
Service Factor	1.15	Phase	3
Efficiency	92.4 %	Duty	Continuous
Insulation Class	F	Design Code	B
KVA Code	F	Frame	286T
Enclosure	Drip Proof	Overload Protector	No
Ambient Temperature	40 °C	Drive End Bearing Size	6311
Opp Drive End Bearing Size	6210	UL	Recognized
CSA	Y	CE	Y
IP Code	22		

Technical Specifications

Electrical Type	Squirrel Cage Inverter Rated	Starting Method	Wye Start Delta Run Or Inverter
Poles	6	Rotation	Reversible
Mounting	Rigid base	Motor Orientation	Horizontal
Drive End Bearing	Ball	Opp Drive End Bearing	Ball
Frame Material	Rolled Steel	Shaft Type	T
Frame Length	13.97 in	Shaft Diameter	1.875 in
Shaft Extension	4.79 in	Assembly/Box Mounting	F1/F2 Capable
Outline Drawing	SS620687	Connection Diagram	EE7308AA

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284T	25.71	YES
286T	27.09	YES
FRAME	C	F1/F2

TOLERANCES UNLESS SPECIFIED		REGAL REGAL-BELOIT CORPORATION		DRAWN	
DEC.	INCHES	TITLE		Xiaowei Zhu	
.X	±.1	284/286T FR.-DDP-ROLLED STEEL	APPD	CHK	
.XX	±.03		SCALE	1:1	
.XXX	±.005		REF		
.XXXX	±.0005		FINISH	PREV	
NO.	REVISION	BY & DATE	CHK	ANG	
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		DIST		B	DRAWING NO. SS620687
					PAGE 0F
					REV.



LOW VOLTAGE



HIGH VOLTAGE



DRAWING REVISION K	REVISION BY AJW	DATE 07-17-2015
ECO ECO-0081632	APPROVED BY T. VUE	DATE 07-17-2015
ECO DESCRIPTION REV'D IEC MARKINGS PER IEC 60034-8		
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DRAWN BY LZ	Regal Beloit America, Inc.	
DATE 01-12-1994		
APPROVED BY GK	DESCRIPTION CONN DIAGRAM-EXTERNAL 3Ø-2/1 DELTA-12 LEADS	
DATE 01-14-1994		
REFERENCE	MATERIAL	PROCESS/FINISH
THIRD ANGLE PROJECTION	SIZE A	DRAWING NUMBER EE7308AA
		SHEET 1 OF 1



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

CERTIFICATION DATA SHEET

CUSTOMER: CUSTOMER PO #:
ORDER #: MODEL #: 286TTTDBD6076 AA
CONN. DIAGRAM: EE7308AA CUSTOMER PART #:
OUTLINE: SS620687 MOUNTING: F1/F2 CAPABLE
WINDING #: HE31806007 2

TYPICAL MOTOR PERFORMANCE DATA

HP	KW	SYNC. RPM	F.L. RPM	FRAME	ENCLOSURE	KVA CODE	DESIGN	
20815	14.9&11.2	1200	1182&985	286T	DP	F	B	
PH	HZ	VOLTS	AMPS	START TYPE	DUTY	INSL	S.F.	AMB°C
3	60/50	230/460&190/380	52.5/26.3&48.5/24.3	Y START D RUN OR INV	CONTINUOUS	F7	1.15/1.15	40

FULL LOAD EFF:	92.4&91.7	3/4 LOAD EFF:	92.4	1/2 LOAD EFF:	91.7	GTD. EFF	91.7	ELEC. TYPE
FULL LOAD PF:	77&77.5	3/4 LOAD PF:	71	1/2 LOAD PF:	59.5	SO CAGE INV RATED		
F.L. TORQUE	LOCKED ROTOR AMPS	L.R. TORQUE	B.D. TORQUE	F.L. RISE°C				
89 LB-FT	276 / 138	150 LB-FT	169 %	217 LB-FT	244 %	50		

SOUND PRESSURE @ 3 FT.	SOUND POWER	ROTOR WK^2	MAX. WK^2	SAFE STALL TIME	STARTS / HOUR	APPROX. MOTOR WGT
65 DBA	75 DBA	6 LB-FT^2	- LB-FT^2	- SEC.	2	420 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		
BALL ODE BALL	POLYREX EM	T	NONE	NONE	1045 HOT ROLLED (C-204)	ROLLED STEEL		
6311	6210							

THERMO-PROTECTORS				THERMISTORS			SPACE HEATERS	
THERMOSTATS	PROTECTORS	WDG RTDS	BRG RTDS	NONE	FALSE	NONE	NONE	VOLTS
NONE	NOT	NONE	NONE					
INVERTER TORQUE: VARIABLE 20:1				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				

*
PREPARED BY: Anusha Muthyala
DATE: 05/03/2018 11:59:09 PM
FORM 3531 REV.3 02/07/99
 ** Subject to change without notice.

MARATHON ELECTRIC CORPORATION

TYPICAL PERFORMANCE CURVE for AC MOTOR

Customer

Curve at

460

Volts

HP 20&15

PHASE 3

Model No 286TTDBD6076

60

HZ

VOLTS 230/460&190/380

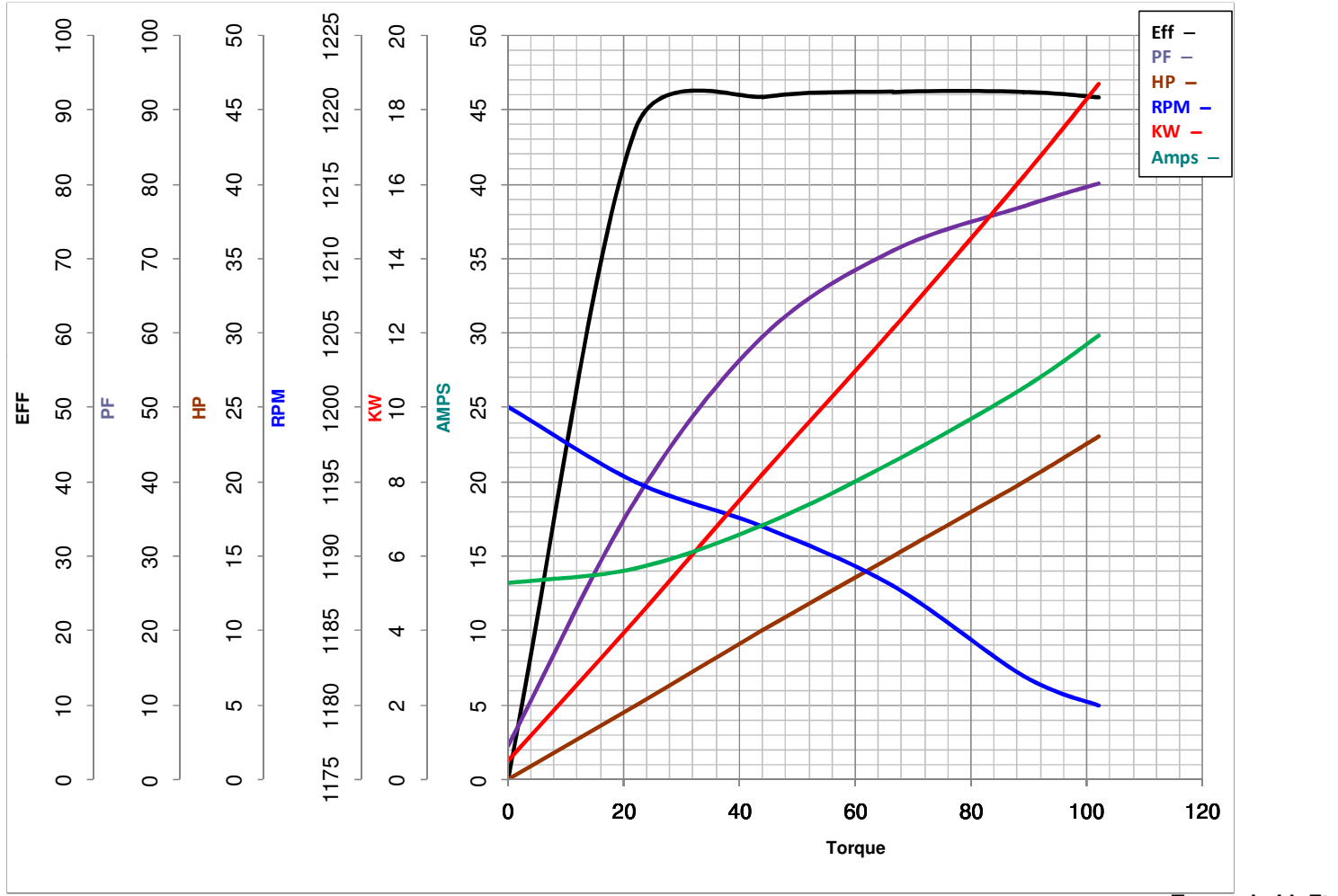
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HP

Catalog No GT0063

HZ 60&50

RPM 1182&985



Torque in Lb.Ft

FL TORQUE 89 Lb.Ft
 BD TORQUE 217.0 Lb.Ft
 LR TORQUE 150 Lb.Ft

FL AMPS 52.5/26.3
 PU TORQUE 128.0 Lb.Ft
 LR AMPS 138

WINDING HE31806007-

Prepared By ANUSHA M

Date 5/3/2018