

PRODUCT INFORMATION PACKET

marathon®
Motors

Model No: 184TBDW7009

Catalog No: Z307A

Crop Dryer Motor, 7.50 & 10 HP, 1 Ph, 60 & 60 Hz, 230 & 230 V, 3600 & 3600 RPM, 184TZ Frame, DPAO



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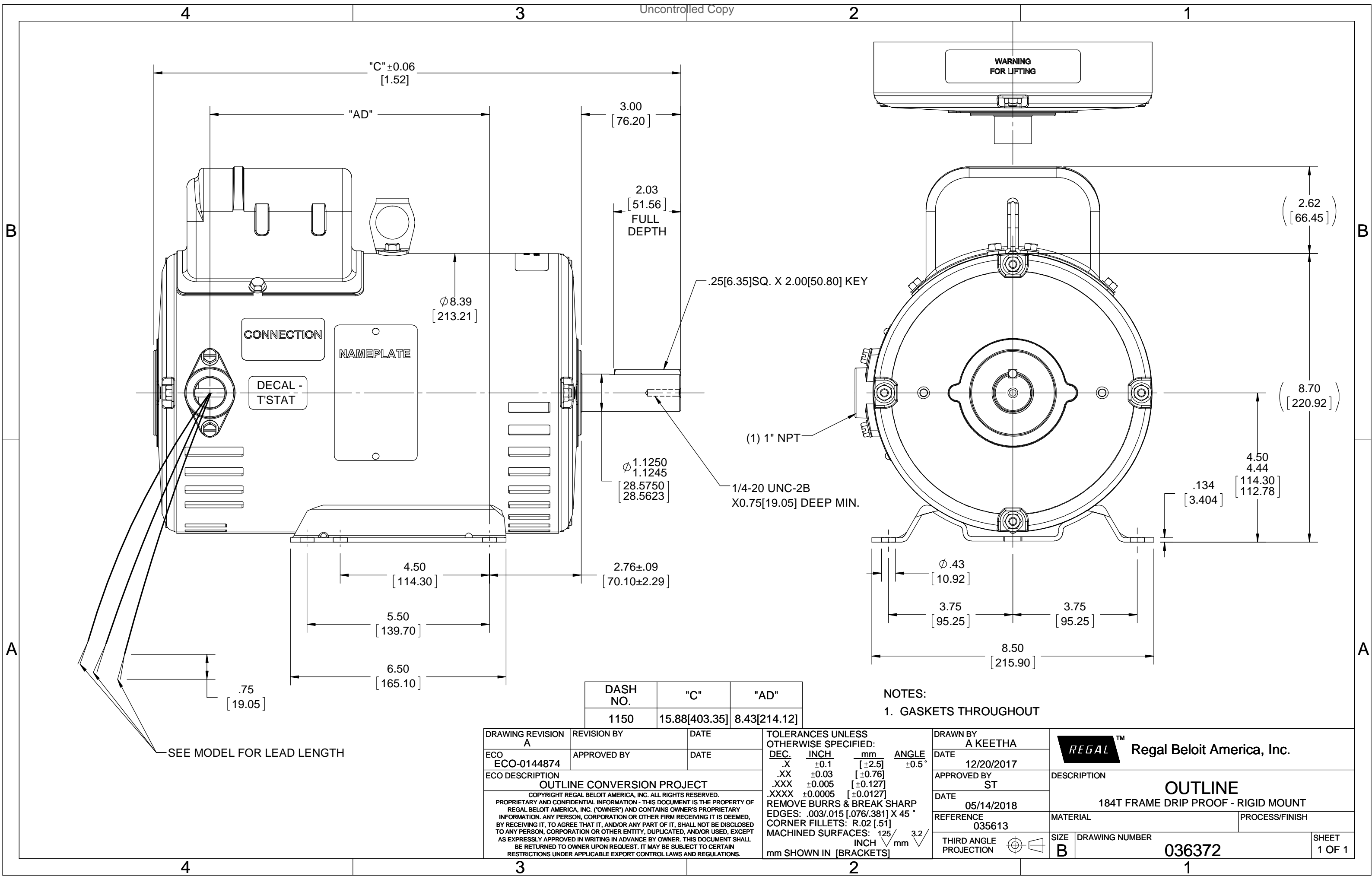
RegalRexnord

Nameplate Specifications

Phase	1	Output HP	7.50 & 10 Hp
Output KW	5.6 & 7.5 kW	Voltage	230 & 230 V
Speed	3525 & 3495 rpm	Service Factor	1.3 & 1.0
Frame	184TZ	Enclosure	Drip Proof Air Over
Thermal Protection	No Protection	Efficiency	82.5 & 82.5 %
Ambient Temperature	40 °C	Frequency	60 & 60 Hz
Current	31 & 42 A	Power Factor	95.5
Duty	Continuous	Insulation Class	F
Design Code	NO DESIGN CODE	KVA Code	F
Drive End Bearing Size	6206	Opp Drive End Bearing Size	6205
UL	Recognized	CSA	Y
CE	N	IP Code	12
Number of Speeds	1		

Technical Specifications

Electrical Type	Capacitor Start Capacitor Run	Starting Method	Across The Line
Poles	2	Rotation	Selective Counterclockwise
Resistance Main	0 Ohms	Mounting	Rigid Base
Motor Orientation	Horizontal	Drive End Bearing	Ball
Opp Drive End Bearing	Ball	Frame Material	Rolled Steel
Shaft Type	Single Special Extension	Overall Length	15.88 in
Frame Length	11.50 in	Shaft Diameter	1.125 in
Shaft Extension	3 in	Assembly/Box Mounting	F1 ONLY
Outline Drawing	036372-1150	Connection Drawing	005018.30ME



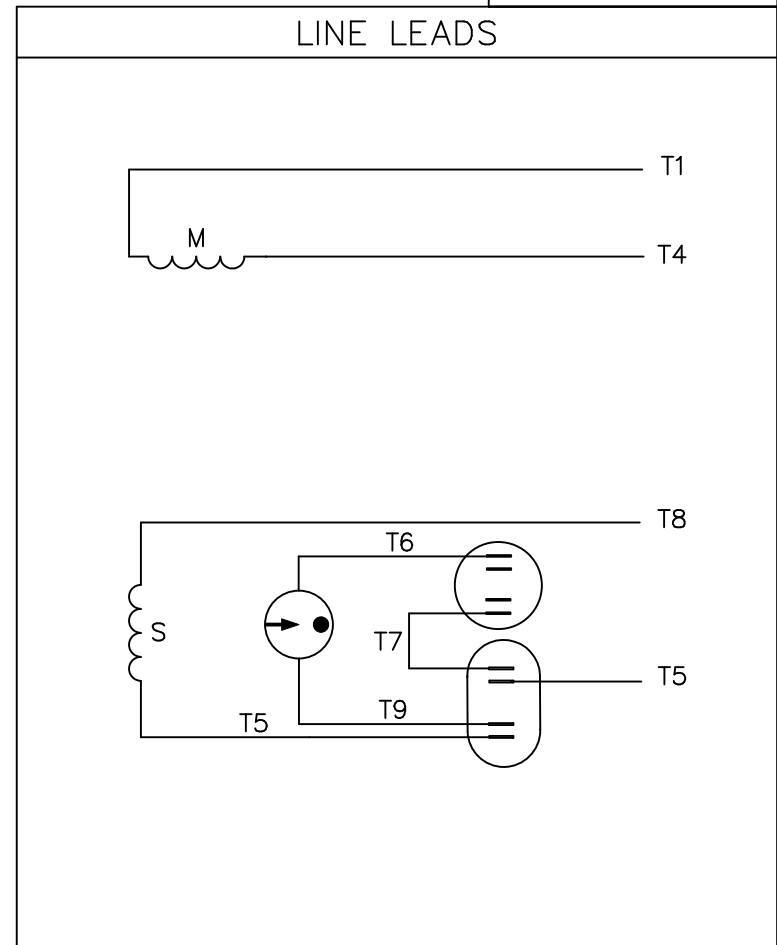
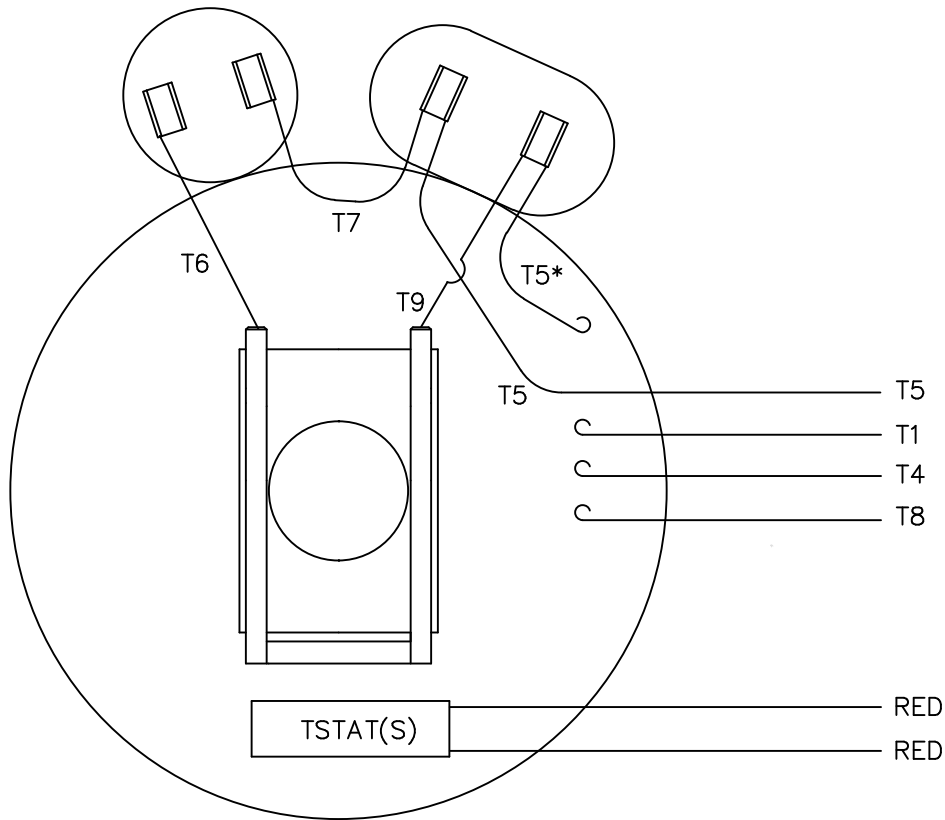
DASH NO.	"C"	"AD"
1150	15.88[403.35]	8.43[214.12]

NOTES:
1. GASKETS THROUGHOUT

SEE MODEL FOR LEAD LENGTH

DRAWING REVISION A		REVISION BY	DATE	TOLERANCES UNLESS OTHERWISE SPECIFIED: DEC. INCH mm ANGLE ±0.5° .X ±0.1 [±2.5] .XX ±0.03 [±0.76] .XXX ±0.005 [±0.127] .XXXX ±0.0005 [±0.0127] REMOVE BURRS & BREAK SHARP EDGES: .003/.015 [0.076/.381] X 45° CORNER FILLETS: R.02 [0.51] MACHINED SURFACES: 125 3.2 INCH mm	DRAWN BY A KEETHA	Regal Beloit America, Inc.
ECO ECO-0144874		APPROVED BY	DATE		DATE 12/20/2017	
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				DATE 05/14/2018	REFERENCE 035613	MATERIAL PROCESS/FINISH
				THIRD ANGLE PROJECTION	SIZE B	DRAWING NUMBER 036372
						SHEET 1 OF 1

VIEW FROM OUTSIDE OF MOTOR AT SWITCH END.



ROTATION FACING LEAD END	L1	L2
C.C.W.	T1,T8	T4,T5
C.W.	T1,T5	T4,T8

* THIS LEAD MAY BE WHITE

		TOLERANCES UNLESS SPECIFIED	
		DEC.	INCHES
		.X	±.1
		.XX	±.01
		.XXX	±.005
		.XXXX	±.0005
NO.	REVISION	BY & DATE	CHK ANG ±1/2'

MARATHON ELECTRIC

TITLE: EXTERNAL WIRING DIAGRAM TYPE "K" W/O PROTECTOR

MAT'L: DECAL-004018 TSTAT-080582

FINISH:

DRAWN	LST 8/31/06
CHK	RW 8/31/06
APPD	KH 8/31/06
SCALE	1=1
REF	
FMF	
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	00501830ME	SIZE	DRAWING NO.	REV.
		DIST			A	005018-30ME	

CERTIFICATION DATA SHEET

Model#: 184TBDW7009 AA
CONN. DIAGRAM: 005018.30ME
OUTLINE: 035613-1150

WINDING#: K8228 R1 2
ASSEMBLY: F1 ONLY

TYPICAL MOTOR PERFORMANCE DATA

HP	KW	SYNC. RPM	F.L. RPM	FRAME	ENCLOSURE	KVA CODE	DESIGN
7 1/2&10	5.60&7.50	3600	3525&3495	184TZ	DPAO	F	NO DESIGN CODE

PH	Hz	VOLTS	FL AMPS	START TYPE	DUTY	INSL	S.F	AMB°C	ELEVATION
1	60/60	230#230	31&42	ACROSS THE LINE	CONTINUOUS	F4	1.3/1.0	40	3300

FULL LOAD EFF: 82.5&82.5	3/4 LOAD EFF: 82.5	1/2 LOAD EFF: 82.7	GTD. EFF	ELEC. TYPE	NO LOAD AMPS
FULL LOAD PF: 95.5&93.5	3/4 LOAD PF: 95.5	1/2 LOAD PF: 94.1	0	CAP START CAP RUN	7.2

F.L. TORQUE	LOCKED ROTOR AMPS	L.R. TORQUE	B.D. TORQUE	F.L. RISE°C
11.2 LB-FT	235	26 LB-FT 173	30 LB-FT 200	0

SOUND PRESSURE @ 3 FT.	SOUND POWER	ROTOR WK^2	MAX. WK^2	SAFE STALL TIME	STARTS /HOUR	APPROX. MOTOR WGT
71 dBA	81 dBA	0 LB-FT^2	0 LB-FT^2	10 SEC.	0	0 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	POLYREX EM	SGL SPL EXT	1.125 x 3.00 IN SEK	NONE	AISI 1045 (C-240)	ROLLED STEEL
6206	6205						

THERMO-PROTECTORS				THERMISTORS	CONTROL	SPACE /n HEATERS
THERMOSTATS	PROTECTORS	WDG RTDs	BRG RTDs			
TSTATS (N/C)	NOT	NONE	NONE	NONE	FALSE	NONE VOLTS

If Inverter equals NONE, contact factory for further information

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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

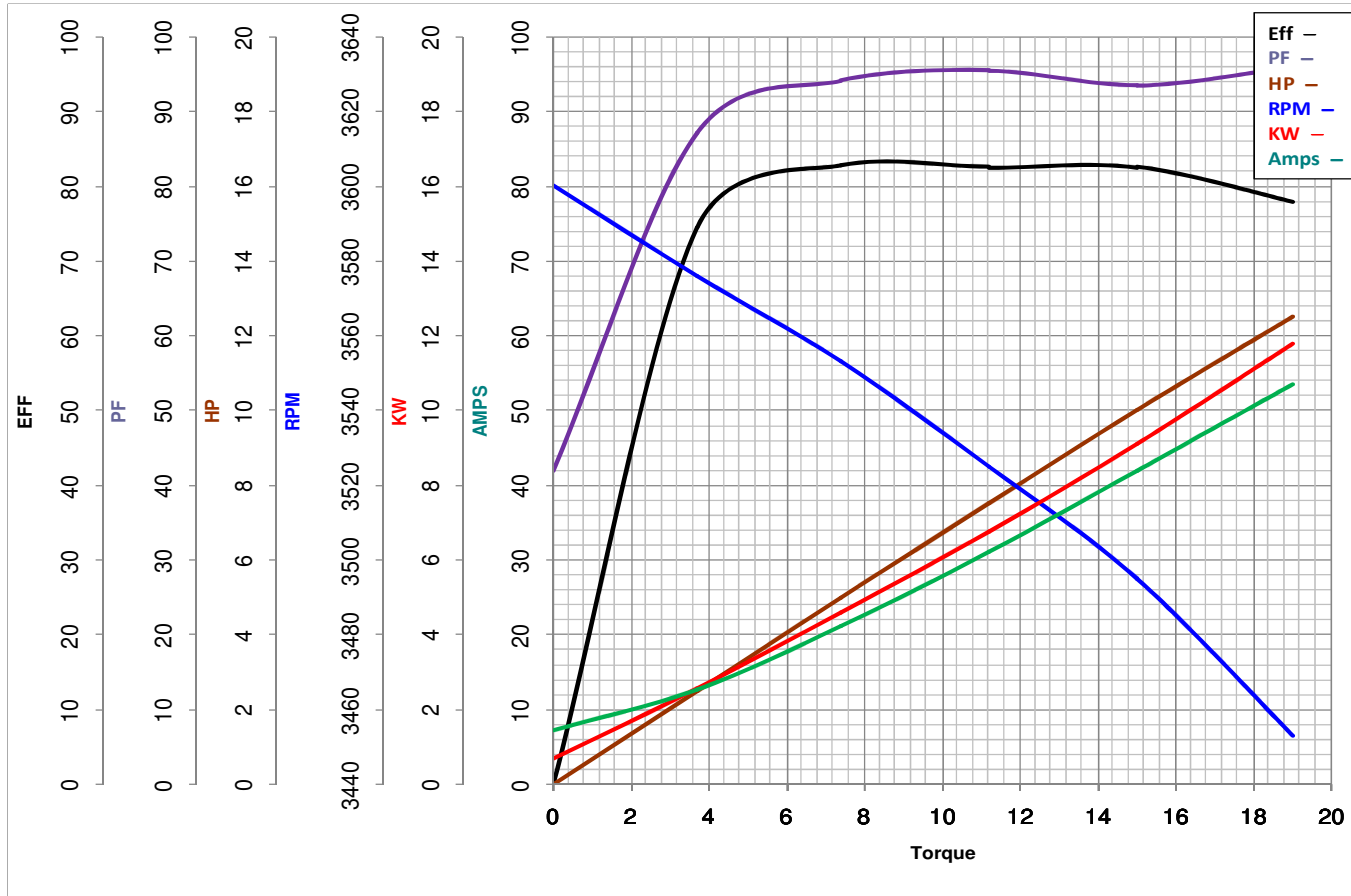
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** Subject to change without notice.



MARATHON ELECTRIC CORPORATION
TYPICAL PERFORMANCE CURVE for AC MOTOR

Customer _____ Curve at 230 Volts HP 7.5&10 PHASE 1
60 HZ
 Model No 184TBDW7009 10 HP VOLTS 230&230
 Catalog No Z307A HZ 60&60 RPM 3525&3495



		Torque in Lb.Ft			
FL TORQUE	<u>15</u>	Lb.Ft	FL AMPS	<u>31</u>	
BD TORQUE	<u>30.0</u>	Lb.Ft	PU TORQUE	<u>24.2</u>	Lb.Ft
LR TORQUE	<u>26</u>	Lb.Ft	LR AMPS	<u>235</u>	
WINDING	K8228-2		Date	1/25/2019	