

# PRODUCT INFORMATION PACKET

Model No: 145TTDR6029

Catalog No: U760

General Purpose Motor, 2 HP, 3 Ph, 60 Hz, 230/460 V, 1800 RPM, 145T Frame, DP



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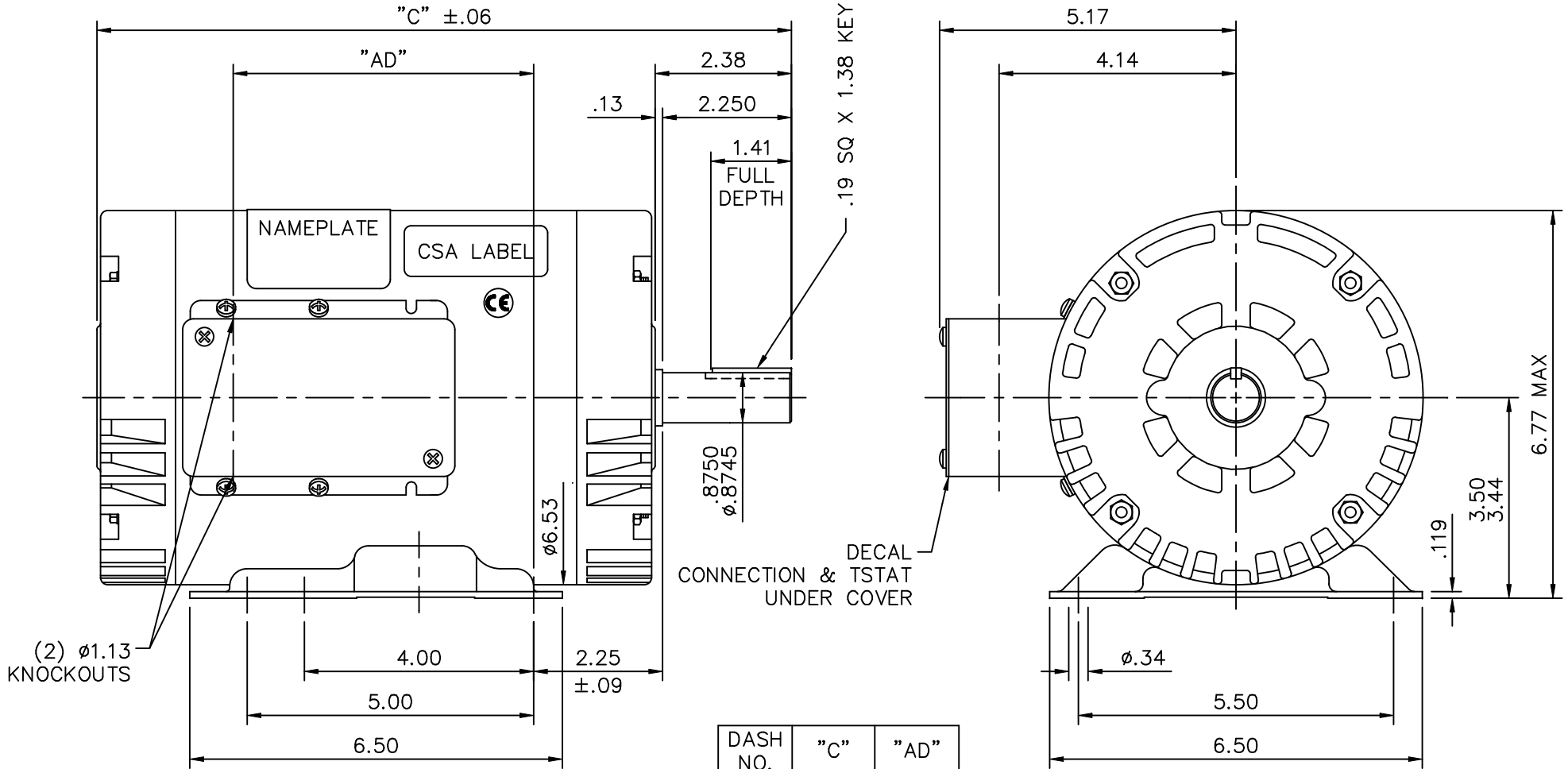
### Nameplate Specifications

Output HP	<b>2 Hp</b>	Output KW	<b>1.5 kW</b>
Frequency	<b>60 Hz</b>	Voltage	<b>230/460 V</b>
Current	<b>5.8/2.9 A</b>	Speed	<b>1745 rpm</b>
Service Factor	<b>1.15</b>	Phase	<b>3</b>
Efficiency	<b>86.5 %</b>	Power Factor	<b>75.6</b>
Duty	<b>Continuous</b>	Insulation Class	<b>F</b>
Design Code	<b>B</b>	KVA Code	<b>L</b>
Frame	<b>145T</b>	Enclosure	<b>Drip Proof</b>
Thermal Protection	<b>Thermostat</b>	Ambient Temperature	<b>40 °C</b>
Drive End Bearing Size	<b>6205</b>	Opp Drive End Bearing Size	<b>6203</b>
UL	<b>Recognized</b>	CSA	<b>Y</b>
CE	<b>Y</b>	IP Code	<b>22</b>
Number of Speeds	<b>1</b>		

### Technical Specifications

Electrical Type	<b>Squirrel Cage Inverter Rated</b>	Starting Method	<b>Line Or Inverter</b>
Poles	<b>4</b>	Rotation	<b>Reversible</b>
Resistance Main	<b>1.5 Ohms</b>	Mounting	<b>Rigid Base</b>
Motor Orientation	<b>Horizontal</b>	Drive End Bearing	<b>Ball</b>
Opp Drive End Bearing	<b>Ball</b>	Frame Material	<b>Rolled Steel</b>
Shaft Type	<b>T</b>	Overall Length	<b>13.62 in</b>
Frame Length	<b>8.50 in</b>	Shaft Diameter	<b>0.875 in</b>
Shaft Extension	<b>2.37 in</b>	Assembly/Box Mounting	<b>F1 ONLY</b>
Inverter Load	<b>CONSTANT 10:1</b>		
Connection Drawing	<b>005010-20ME</b>	Outline Drawing	<b>034908-850</b>





DASH NO.	"C"	"AD"
650	11.62	4.75
700	12.12	5.25
750	12.62	5.75
800	13.12	6.25
850	13.62	6.75

TOLERANCES UNLESS SPECIFIED

DEC. INCHES

.X ±.1

.XX ±.03

.XXX ±.005

.XXXX ±.0005

ANG ±1/2°



TITLE OUTLINE - 143T/145T FRAME  
DRIP PROOF - RIGID

DRAWN RDW 12/13/01

CHK

APPD KMM 12/13/01

SCALE 3=8

REF 121003

FMF

PREV

01 ADDED CE LABEL

ARV 8/8/05

NO. REVISION

BY & DATE

CHK

ANG ±1/2°

MAT'L.

FINISH

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RFP 12/13/01

CAD FILE 034908

SIZE DRAWING NO.

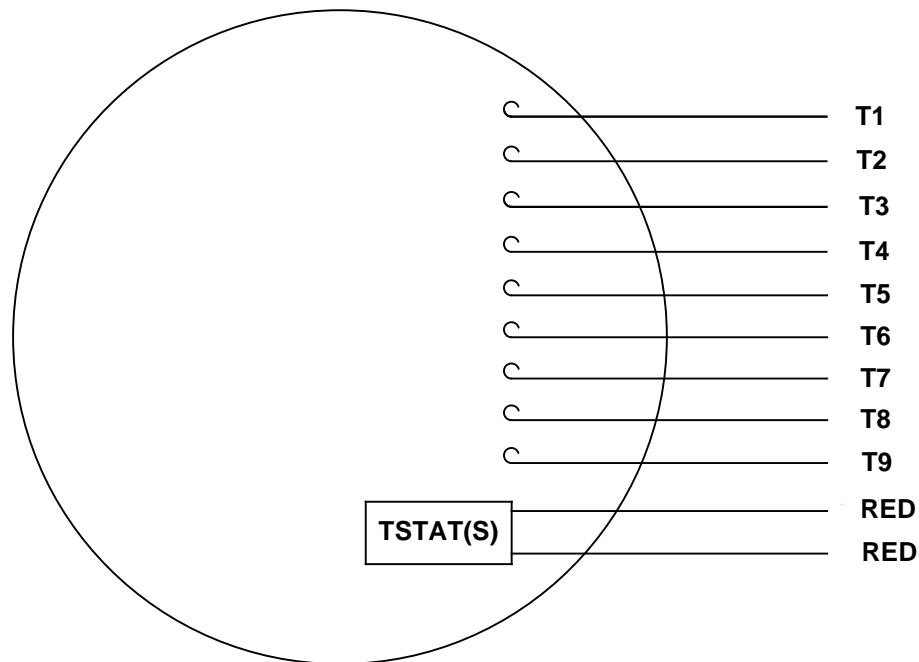
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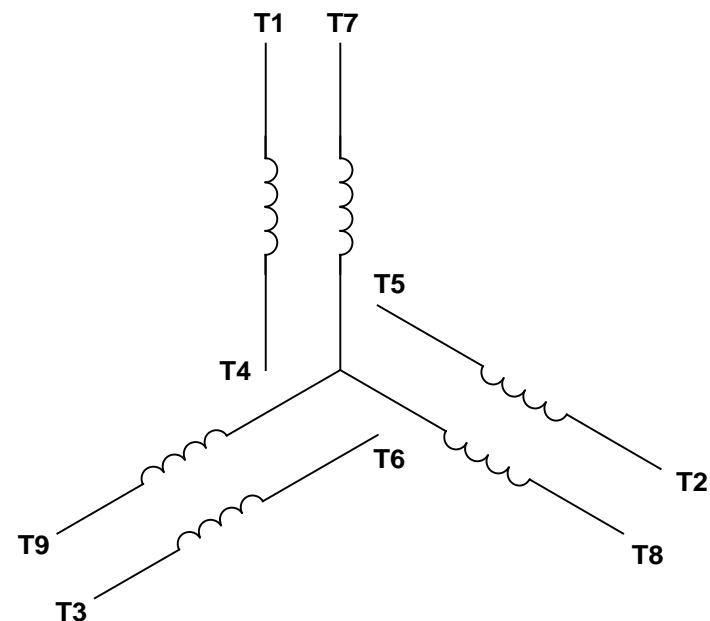
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VIEW FROM OUTSIDE OF MOTOR AT SWITCH END.



LINE LEADS



VOLTAGE	L1	L2	L3	JOIN & INSULATE
HIGH	T1	T2	T3	(T4, T7) (T5, T8) (T6, T9)
LOW	T1, T7	T2, T8	T3, T9	T4, T5, T6

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				TOLERANCES UNLESS SPECIFIED				DRAWN RDW 04/13/04		
				DEC	INCHES			CHK		
				.X	±.1			APPR		
				.XX	±.01			SCALE 1:1		
				.XXX	±.005	TITLE EXTERNAL WIRING DIAGRAM		REF		
				.XXX	±.0005	3 PHASE		FMF 129027		
--	REDRAWN IN SOLIDWORKS	VJB 02/08/11		.XXXX	±.0005	MAT'L DECAL - 004014 (TSTAT) - 080582		PAGE OF		
NO	REVISION	BY & DATE	CHK	ANG	±1/2°	FINISH		DRAWING NO		
			RFP	PREV			SIZE	DRAWING NO		
			NETWORK FILE NAME			00501020ME		A	005010-20ME	
THIRD ANGLE PROJECTION						REV			--	

**CERTIFICATION DATA SHEET**

**Model#:** 145TTDR6029 AA      **WINDING#:** T634340 DR 3  
**CONN. DIAGRAM:** 005010-20ME      **ASSEMBLY:** F1 ONLY  
**OUTLINE:** 034908-850

**TYPICAL MOTOR PERFORMANCE DATA**

HP	KW	SYNC. RPM	F.L. RPM	FRAME	ENCLOSURE	KVA CODE	DESIGN
2&1 1/2	1.49&1.12	1800	1745&1440	145T	DP	L	B

PH	Hz	VOLTS	FL AMPS	START TYPE	DUTY	INSL	S.F	AMB°C	ELEVATION
3	60/50	230/460#190/ 380	5.8/2.9&6/3	LINE OR INVERTER	CONTINUOU S	F4	1.15/1.15	40	3300

FULL LOAD EFF: 86.5&86.5	3/4 LOAD EFF: 85.6	1/2 LOAD EFF: 83.4	GTD. EFF	ELEC. TYPE	NO LOAD AMPS
FULL LOAD PF: 75.6&68	3/4 LOAD PF: 64	1/2 LOAD PF: 51.9	0	SQ CAGE INV RATED	3.4 / 1.7

F.L. TORQUE	LOCKED ROTOR AMPS	L.R. TORQUE	B.D. TORQUE	F.L. RISE°C
6 LB-FT	53.2 / 26.6	25.3 LB-FT 422	28.8 LB-FT 480	0

SOUND PRESSURE @ 3 FT.	SOUND POWER	ROTOR WK^2	MAX. WK^2	SAFE STALL TIME	STARTS /HOUR	APPROX. MOTOR WGT
0 dBA	10 dBA	0.162 LB-FT^2	0.2 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	GREEN (ENAMEL)

BEARINGS		GREASE	SHAFT TYPE	SPECIAL DE	SPECIAL ODE	SHAFT MATERIAL	FRAME MATERIAL
DE	OPE						
BALL	BALL	POLYREX EM	T	NONE	NONE	1144 STRESSPROOF (C-223)	ROLLED STEEL
6205	6203						

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

INVERTER TORQUE: CONSTANT 10:1		
INV. HP SPEED RANGE: 1.5 X BASE SPEED		
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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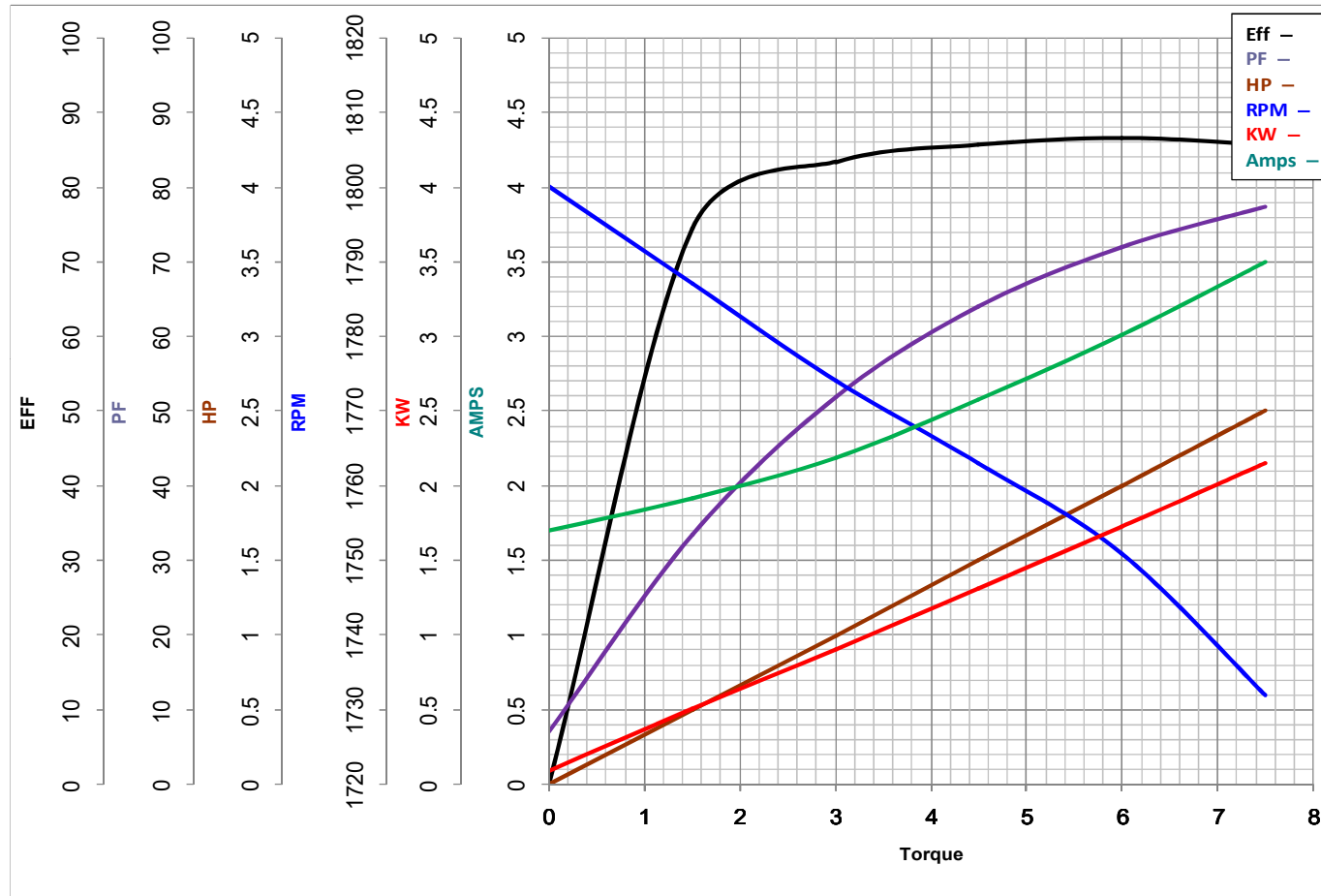
\*\* Subject to change without notice.





**MARATHON ELECTRIC CORPORATION**  
TYPICAL PERFORMANCE CURVE for AC MOTOR

Customer \_\_\_\_\_ Curve at 460 Volts HP 2&1.5 PHASE 3  
 Model No 145TTDR6029 60 HZ  
2 HP VOLTS 230/460&190/380  
 Catalog No U760 HZ 60&50 RPM 1745&1440



		Torque in Lb.Ft		
FL TORQUE	<u>6</u>	Lb.Ft	FL AMPS	<u>5.8/2.9</u>
BD TORQUE	<u>28.8</u>	Lb.Ft	PU TORQUE	<u>24.6</u>
LR TORQUE	<u>25.3</u>	Lb.Ft	LR AMPS	<u>26.58</u>
WINDING	T634340-3		Date	1/9/2019



## EC Declaration of Conformity

The undersigned representing  
the manufacturer:

Regal Beloit America  
100 East Randolph St.  
Wausau, WI 54401

and the authorized representative  
established within the Community:

Marathon Electric UK  
6F Thistleton Road Ind. Estate  
Market Overton  
Oakham, Rutland LE15 7PP UK

are committed to providing customers with products that comply with applicable regulations and international protocols to which they are subject, including the requirements of the European Parliament Directive on the Harmonization of the laws relating to electrical equipment designed for use within certain voltage limits (2014/35/EU).

Regal Beloit America declares that the following product(s), to which this declaration relates, are in conformity with the relevant sections of the EC standards listed below.

This statement supersedes any statements previously issued pertaining to the product(s) listed below and is subject to change without notice.

Model No : 145TTDR6029

(Model No. may contain prefix and/or suffix characters)

Catalog No : U760

Rework No : N/A

Directives :

Low Voltage Directive 2014/35/EU

Harmonized Standards Used :

EN 60034-1: 2010 (IEC 60034-1: 2010)

EN 60034-5: 2001/A1:2007 (IEC 60034-5: 2000/A1:2006)

Authorized Representative:



Michael A. Logsdon  
Vice President, Technology

Authorized Representative in the Community:



Julian Clark  
Marketing Engineer

Created on 09/01/2022

**CE 22**