

PRODUCT INFORMATION PACKET

Model No: 145TTDR6028

Catalog No: U759

General Purpose Motor, 1.50 HP, 3 Ph, 60 Hz, 230/460 V, 1800 RPM, 145T Frame, DP



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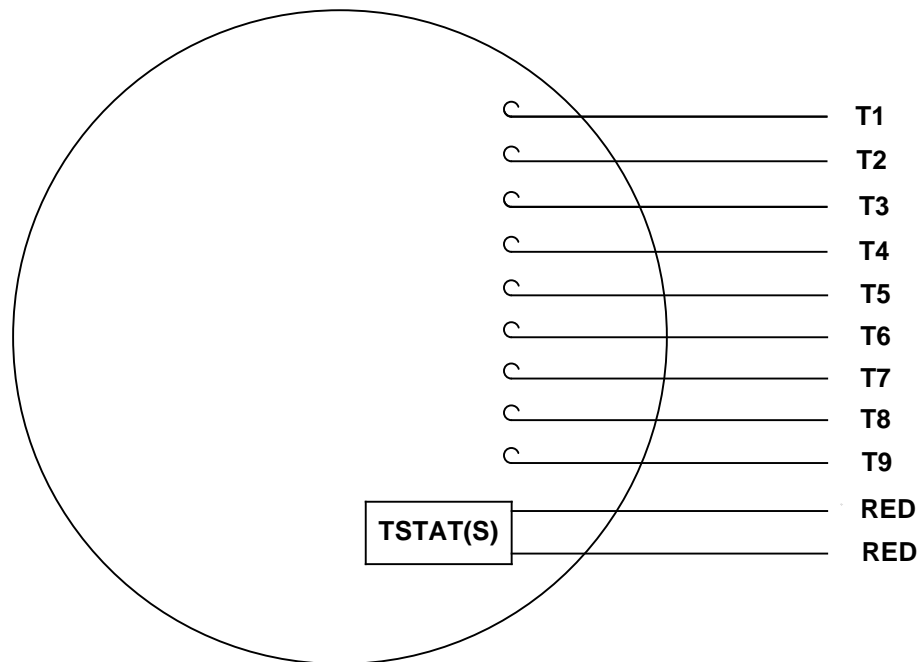
Nameplate Specifications

Output HP	1.50 Hp	Output KW	1.1 kW
Frequency	60 Hz	Voltage	230/460 V
Current	4.8/2.4 A	Speed	1750 rpm
Service Factor	1.15	Phase	3
Efficiency	86.5 %	Power Factor	67.7
Duty	Continuous	Insulation Class	F
Design Code	B	KVA Code	L
Frame	145T	Enclosure	Drip Proof
Thermal Protection	Thermostat	Ambient Temperature	40 °C
Drive End Bearing Size	6205	Opp Drive End Bearing Size	6203
UL	Recognized	CSA	Y
CE	Y	IP Code	22
Number of Speeds	1		

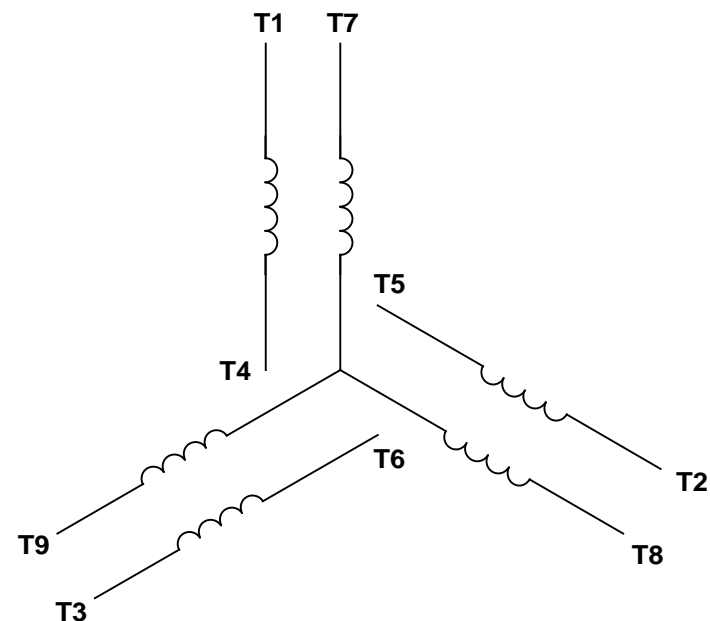
Technical Specifications

Electrical Type	Squirrel Cage Inverter Rated	Starting Method	Line Or Inverter
Poles	4	Rotation	Reversible
Resistance Main	2.27 Ohms	Mounting	Rigid Base
Motor Orientation	Horizontal	Drive End Bearing	Ball
Opp Drive End Bearing	Ball	Frame Material	Rolled Steel
Shaft Type	T	Overall Length	12.62 in
Frame Length	7.50 in	Shaft Diameter	0.875 in
Shaft Extension	2.37 in	Assembly/Box Mounting	F1 ONLY
Inverter Load	CONSTANT 10:1		
Outline Drawing	034908-750	Connection Drawing	005010-20ME

VIEW FROM OUTSIDE OF MOTOR AT SWITCH END.



LINE LEADS



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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

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

CERTIFICATION DATA SHEET

Model#: 145TTDR6028 AA **WINDING#:** T634341 DR 3
CONN. DIAGRAM: 005010-20ME **ASSEMBLY:** F1 ONLY
OUTLINE: 034908-750

TYPICAL MOTOR PERFORMANCE DATA

HP	KW	SYNC. RPM	F.L. RPM	FRAME	ENCLOSURE	KVA CODE	DESIGN
1 1/2&1	1.12&0.75	1800	1750&1450	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	4.8/2.4&3.6/1. 8	LINE OR INVERTER	CONTINUOU S	F4	1.15/1.15	40	3300

FULL LOAD EFF: 86.5&86.5	3/4 LOAD EFF: 87	1/2 LOAD EFF: 84.2	GTD. EFF	ELEC. TYPE	NO LOAD AMPS
FULL LOAD PF: 67.7&67.5	3/4 LOAD PF: 67.2	1/2 LOAD PF: 55.1	0	SQ CAGE INV RATED	2.5 / 1.2

F.L. TORQUE	LOCKED ROTOR AMPS	L.R. TORQUE	B.D. TORQUE	F.L. RISE°C
4.5 LB-FT	36.1 / 18	14.75 LB-FT 328	19.8 LB-FT 440	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	0.144 LB-FT^2	0.1 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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FORM 3531 REV.3 02/07/99

** Subject to change without notice.

Data Sheet

Date: 19-06-2017
Customer: _____
Attention: _____
Submitted by: FAREEDA DUDEKULA



145TTDR6028

Submittal

Data @ **460 V**

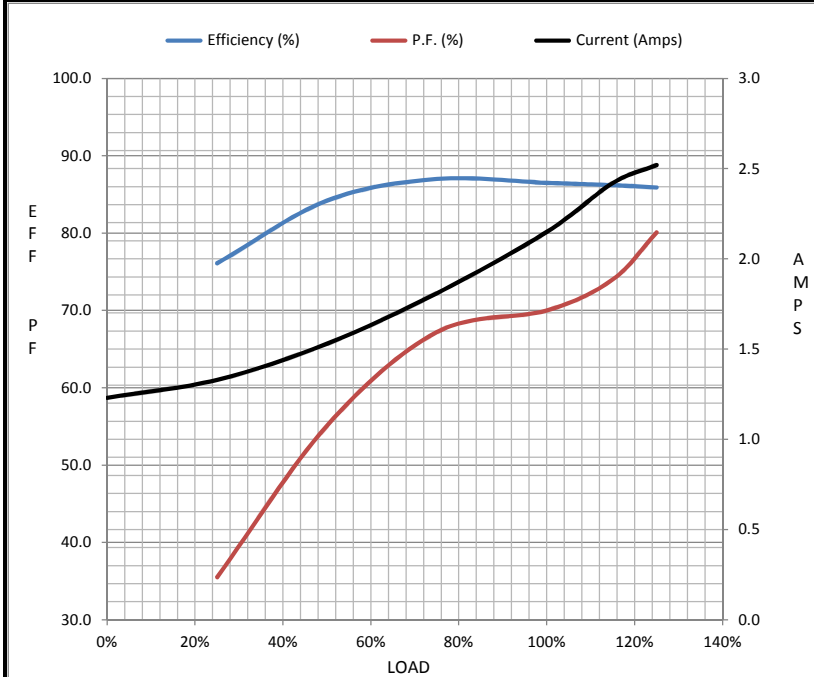
Motor Load Data

Load	0%	25%	50%	75%	100%	115%	125%	LR
Current (Amps)	1.23	1.33	1.53	1.81	2.15	2.42	2.52	18.1
Torque (ft-lb)	0.00	1.13	2.25	3.4	4.5	5.2	5.6	14.8
RPM	1800	1786	1773	1761	1746	1,740	1732	0
Efficiency (%)		76.1	84.2	87.0	86.5	86.2	85.9	
P.F. (%)	9.9	35.5	55.1	67.2	70.0	74.0	80.1	0.0

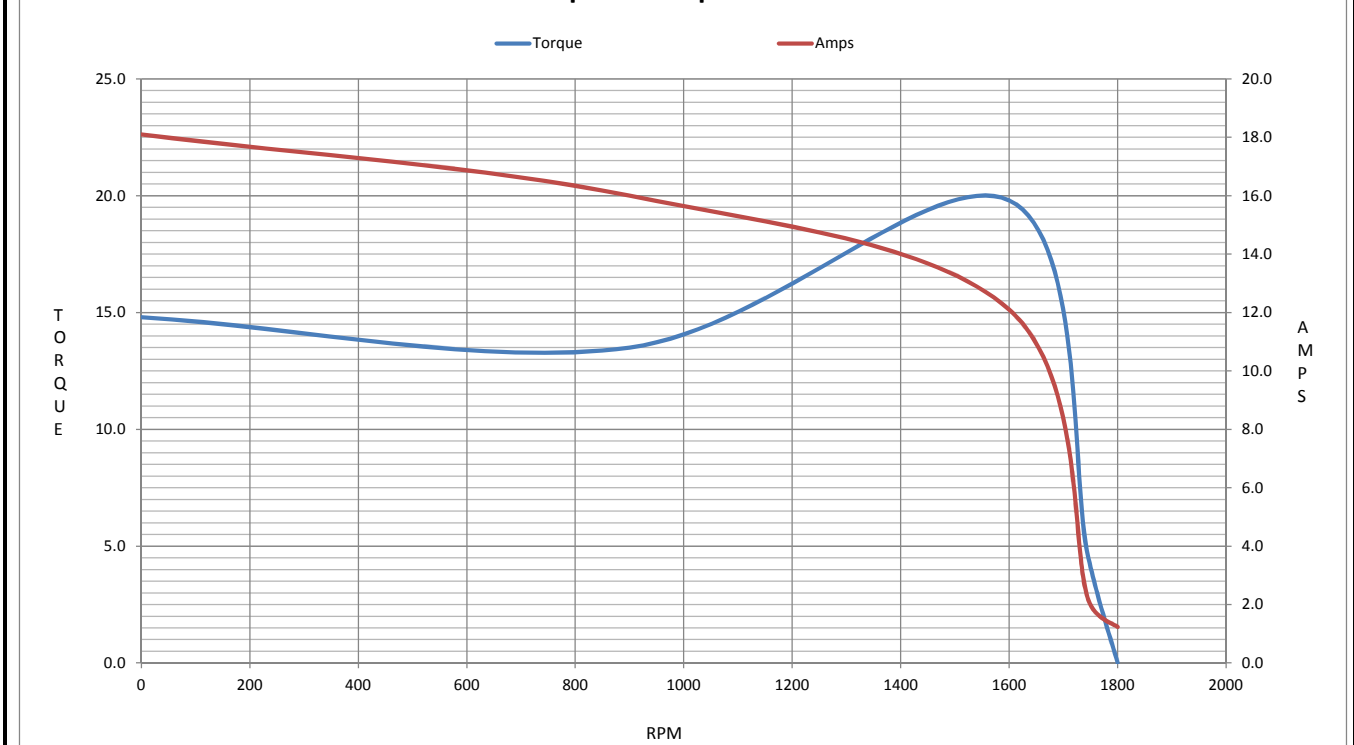
Motor Speed Data

	LR	Pull-Up	BD	Rated	Idle
Speed (RPM)	0	900	1600	1746	1800
Current (Amps)	18.1	16.0	12.1	2.15	1.23
Torque (ft-lb)	14.8	13.5	19.8	4.5	0.00

Information Block				
HP	1.5			
Sync. RPM	1800			
Frame	140			
Enclosure	DP			
Construction	TDR			
Voltage	230/460#190/38(V)			
Frequency	60 Hz			
Design	B			
LR Code letter	L			
Service Factor	1.15			
Temp Rise @ FL	28 ° C			
Duty	CONT			
Ambient	40 ° C			
Elevation	1,000 feet			
Rotor/Shaft wk ²	0.14 Lb-Ft ²			
Ref Wdg	T634341 DR			
Sound Pressure @ 1M	0 dBA			
VFD Rating	CONSTANT 10:1			
Outline Dwg	034908-750			
Conn. Diag	005010-20ME			
Additional Specifications:				
0				
365THFS8036				
EQUIV CKT (OHMS / PHASE)				
R1	R2	X1	X2	Xm
0.0000	0.0000	0.0000	0.0000	0.0000



Speed - Torque Curve



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 : 145TTDR6028

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

Catalog No : U759

Rework No : N/A

Directives :

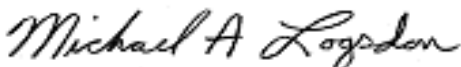
Low Voltage Directive 2014/35/EU

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

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