

PRODUCT INFORMATION PACKET

marathon®
Motors

Model No: 145TTDR16333
Catalog No: GT2407
2,1800,DP,145JPV,3/60/230/460
JP



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REGAL

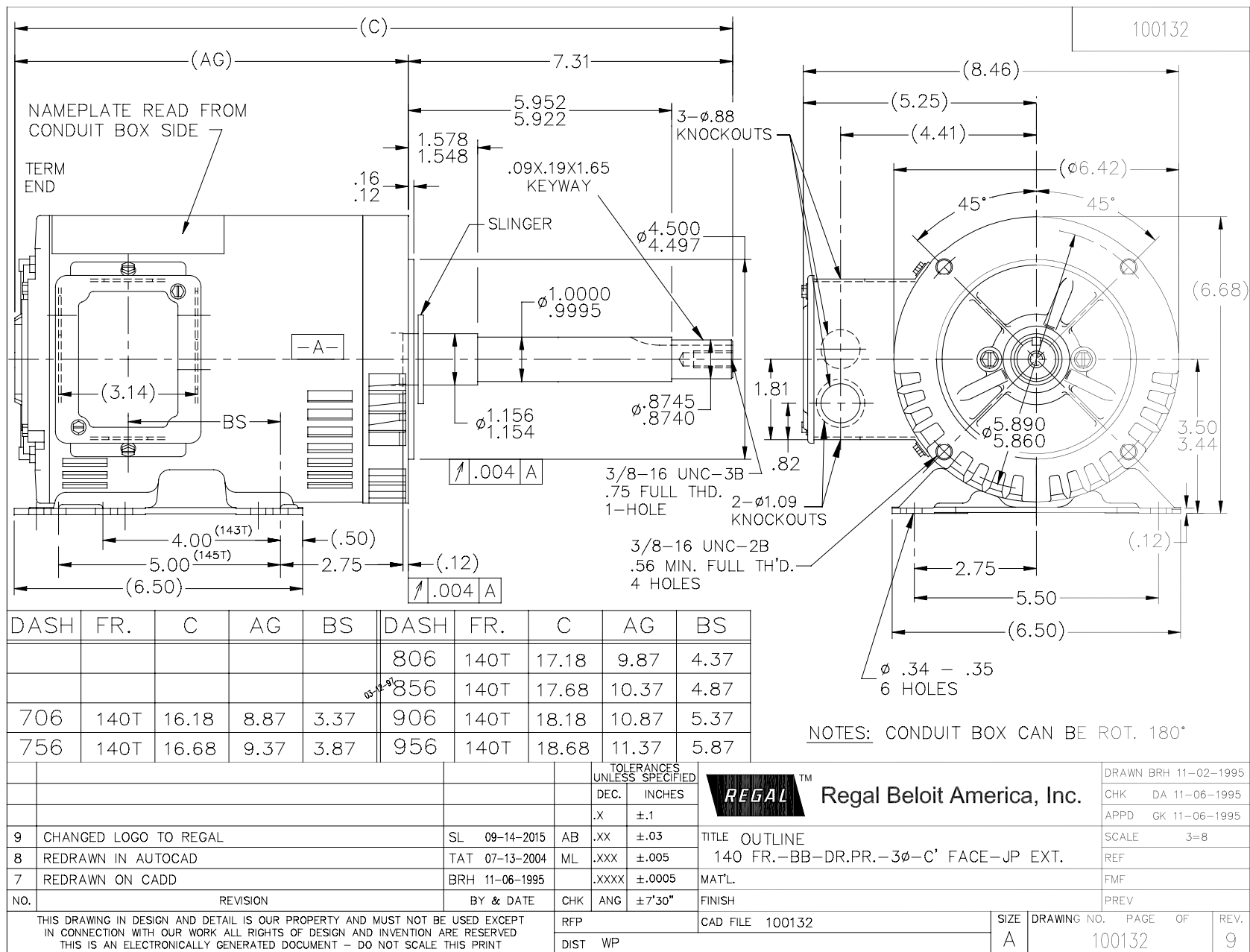


Nameplate Specifications

Output HP	2 Hp	Output KW	1.5 kW
Frequency	60 Hz	Voltage	230/460 V
Current	6.0/3.0 A	Speed	1750 rpm
Service Factor	1.15	Phase	3
Efficiency	86.5 %	Duty	Continuous
Insulation Class	F	Design Code	B
KVA Code	N	Frame	145JP
Enclosure	Drip Proof	Overload Protector	No
Ambient Temperature	40 °C	Drive End Bearing Size	6206
Opp Drive End Bearing Size	6203	UL	Recognized
CSA	Y	CE	Y
IP Code	22		

Technical Specifications

Electrical Type	Squirrel Cage Inverter Rated	Starting Method	Line Or Inverter
Poles	4	Rotation	Reversible
Mounting	Rigid base	Motor Orientation	Horizontal
Drive End Bearing	Ball	Opp Drive End Bearing	Ball
Frame Material	Rolled Steel	Shaft Type	JP
Overall Length	18.68 in	Frame Length	9.56 in
Shaft Diameter	0.875 in	Shaft Extension	7.31 in
Assembly/Box Mounting	F1 Only		
Outline Drawing	A-100132-956	Connection Diagram	A-EE7308





5	CHG TO REGAL LOGO	SL 09/10/2015	AB	DEC.	INCHES	 Regal Beloit America, Inc.	DRAWN RM 11/20/1990
4	REVISED IEC NOTATIONS	MSG 11/15/2011	CMN	.X	±.1		CHK ML 11/21/1990
3	ADDED IEC NOTATIONS... (U1), (V1) ETC. MU95194	MSG 5/10/2010	MJS	.XX	±.02	TITLE CONNECTION DIAGRAM 3Ø — DUAL VOLTAGE MOTOR	APPD SAS 04/24/2003
2	ADDED THE OPTIONAL CORD CONNECTION MU46318	RDH 04/24/2003	DRS	.XXX	±.005		SCALE 1=1
1	REDRAWN	RM 11/20/1990		.XXXX	±.0005	MAT'L. FINISH	REF
NO.	REVISION	BY & DATE	CHK	ANG	±7'30"		FMF
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 ee7308	SIZE A	DRAWING NO. EE7308
				DIST WP			PAGE 5

CERTIFICATION DATA SHEET

Model#: 145TTDR16333 AA **WINDING#:** ZT4260 NONE 1
CONN. DIAGRAM: A-EE7308 **ASSEMBLY:** F1 ONLY
OUTLINE: A-100132-956

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	1750&1460	145JP	DP	N	B

PH	Hz	VOLTS	FL AMPS	START TYPE	DUTY	INSL	S.F	AMB°C	ELEVATION
3	60/50	230/460#190/ 380	6/3&5.6/2.8	LINE OR INVERTER	CONTINUOU S	F3	1.15/1.0	40	3300

FULL LOAD EFF: 86.5&85.5	3/4 LOAD EFF: 85.8	1/2 LOAD EFF: 82.8	GTD. EFF	ELEC. TYPE	NO LOAD AMPS
FULL LOAD PF: 74.5&72	3/4 LOAD PF: 65.3	1/2 LOAD PF: 53.8	84	SQ CAGE INV RATED	3.5 / 1.8

F.L. TORQUE	LOCKED ROTOR AMPS	L.R. TORQUE	B.D. TORQUE	F.L. RISE°C
6 LB-FT	56.8 / 28.4	24.1 LB-FT 402	30.7 LB-FT 512	38

SOUND PRESSURE @ 3 FT.	SOUND POWER	ROTOR WK^2	MAX. WK^2	SAFE STALL TIME	STARTS /HOUR	APPROX. MOTOR WGT
56 dBA	66 dBA	0.09 LB-FT^2	12 LB-FT^2	15 SEC.	2	45.4 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	PROVISIONS ONLY	NONE	BLUE (POWDER)

BEARINGS		GREASE	SHAFT TYPE	SPECIAL DE	SPECIAL ODE	SHAFT MATERIAL	FRAME MATERIAL
DE	OPE						
BALL	BALL						
6206	6203	POLYREX EM	JP	NONE	NONE	1144 STRESSPROOF (C-223)	ROLLED STEEL

THERMO-PROTECTORS				THERMISTORS	CONTROL	SPACE /n HEATERS
THERMOSTATS	PROTECTORS	WDG RTDs	BRG RTDs			
NONE	NOT	NONE	NONE	NONE	FALSE	NONE VOLTS

If Inverter equals NONE, contact factory for further information

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INVERTER TORQUE: CONSTANT 2:1 INV. HP SPEED RANGE: NONE
ENCODER: NONE NONE NONE NONE NONE PPR
BRAKE: NONE NONE NONE P/N NONE NONE NONE - FT-LB NONE V NONE Hz

DATE: 06/23/2017 04:56:05 AM
 FORM 3531 REV.3 02/07/99
 ** Subject to change without notice.

Data Sheet

Date: 6/20/2017

Customer:

Attention:

Submitted by: FAREEDA DUDEKULA



145TTDR16333

Submital

Data @ 460 V

Motor Load Data

Load	0%	25%	50%	75%	100%	115%	125%	LR
Current (Amps)	1.75	1.85	2.10	2.50	3.0	3.2	3.4	28.4
Torque (ft-lb)	0.00	1.50	2.95	4.5	6.0	7.0	7.6	24.1
RPM	1800	1789	1778	1765	1750	1,745	1740	0
Efficiency (%)		76.2	82.8	85.8	86.5	86.8	87.0	
P.F. (%)	7.9	33.9	53.8	65.3	74.5	78.4	79.7	71.5

Motor Speed Data

	LR	Pull-Up	BD	Rated	Idle
Speed (RPM)	0	125	1220	1750	1800
Current (Amps)	28.4	25.5	17.6	3.0	1.75
Torque (ft-lb)	24.1	22.0	30.7	6.0	0.00

Information Block

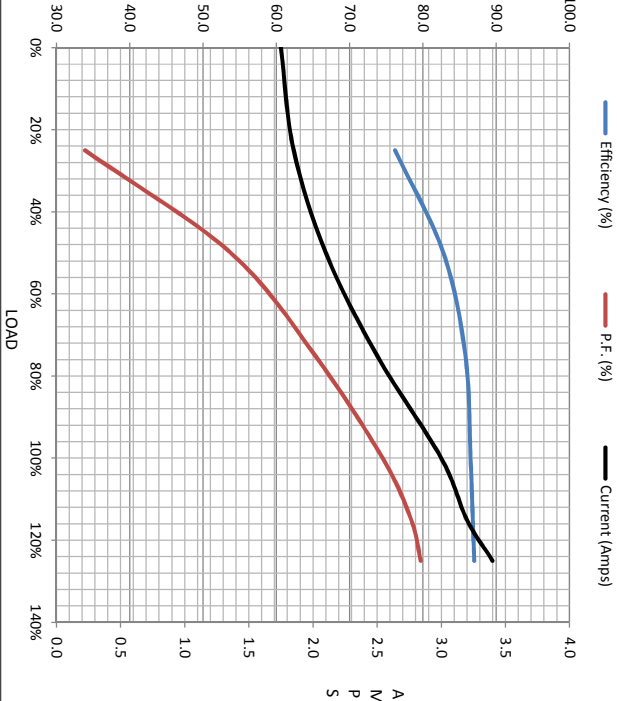
Current (Amps)		28.4	25.5	17.6	3.0	1.75
Torque (ft-lb)		24.1	22.0	30.7	6.0	0.00

HP	2.0
Sync. RPM	1800
Frame	56
Enclosure	DP
Construction	TDR
Voltage	30/460#190/38 V
Frequency	60 Hz
Design	A
LR Code letter	N
Service Factor	1.15
Temp Rise @ FL	38 ° C
Duty	CONT
Ambient	40 ° C
Elevation	1,000 feet
Rotor/Shaft wkt	0.09 Lb-Fe
Ref Wdg	Z14260 NONE
Sound Pressure @ 1M	56 dBA
VFD Rating	CONSTANT 2:1
Outline Dwg	A-100132-956
Conn. Diag	A-EE7308
Additional Specifications:	
0	
0	

EQUIV CKT (OHMS / PHASE)			
R1	R2	X1	X2
4.1180	3.2660	6.2480	5.6600

Efficiency (%)		P.F. (%)		Current (Amps)	
100.0	90.0	80.0	70.0	60.0	50.0
0%	20%	40%	60%	80%	100%
LOAD	0.0	1.0	2.0	3.0	4.0

A	M	P	S
3.5	3.0	2.5	2.0
120%	100%	80%	60%
0.0	0.5	1.0	1.5



Speed -Torque Curve

