

PRODUCT INFORMATION PACKET

marathon®
Motors

Model No: 145TTFR16068

Catalog No: GT3307

2 HP Close-Coupled Pump Motor, 3 phase, 1800 RPM, 200 V, 145JPV Frame, TEFC
JP Motors



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REGAL

Nameplate Specifications


Output HP	2 Hp	Output KW	1.5 kW
Frequency	60 Hz	Voltage	200 V
Current	6.9 A	Speed	1760 rpm
Service Factor	1.15	Phase	3
Efficiency	86.5 %	Power Factor	71
Duty	Continuous	Insulation Class	F
Design Code	A	KVA Code	N
Frame	145JPV	Enclosure	Totally Enclosed Fan Cooled
Thermal Protection	No	Ambient Temperature	40 °C
Drive End Bearing Size	6206	Opp Drive End Bearing Size	6203
UL	Recognized	CSA	Y
CE	Y	IP Code	43

Technical Specifications

Electrical Type	Squirrel Cage Inverter Rated	Starting Method	Line Or Inverter
Poles	4	Rotation	Reversible
Resistance Main	6.58 Ohms	Mounting	Rigid Base
Motor Orientation	Horizontal Or Shaft Down	Drive End Bearing	Ball
Opp Drive End Bearing	Ball	Frame Material	Rolled Steel
Shaft Type	JP	Overall Length	20.13 in
Frame Length	9.56 in	Shaft Diameter	0.875 in
Shaft Extension	7.31 in	Assembly/Box Mounting	F1 ONLY
Connection Drawing	A-EE7300	Outline Drawing	A-108618-956

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DRAWING REVISION B		REVISION BY S.MUDDA		DATE 6/11/2019		TOLERANCES UNLESS OTHERWISE SPECIFIED:		DRAWN BY A SUPPANAVAR		 Regal Beloit America, Inc.	
ECO ECO-0168624		APPROVED BY PVR		DATE 6/11/2019		DEC. INCH mm X ±0.1 ±2.5 .XX ±0.02 ±0.5 .XXX ±0.005 ±0.127 .XXXX ±0.0005 ±0.0127 REMOVE BURRS & BREAK SHARP EDGES. (03) (15) (07) (38) X 45° CORNER FILLETS: R (2) [5] MACHINED SURFACES: 200 / 5/1 mm SHOWN IN PRA INCH/ mm		DATE 02/05/2018 APPROVED BY PST DATE 05/18/2018 REFERENCE 100134		DESCRIPTION OUTLINE TEFC 140 FR-39-BB-C FACE-JP EXT.	
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THREE PHASE - SINGLE VOLTAGE MOTOR - CONDUIT BOX @ 'A'

TO REVERSE ROTATION:
INTERCHANGE ANY TWO
LINE LEAD CONNECTIONS.

TERMINAL BLOCK WHEN SPECIFIED



IF MOTOR HAS 6 LEADS



A-9806 DECAL

OPTIONAL CORD CONNECTION



VIEW OF TERMINAL END

DRAWING REVISION AB	REVISION BY JJB	DATE 06-27-2017
ECO ECO-0125361	APPROVED BY TB	DATE 06-27-2017
ECO DESCRIPTION UPDATED TO CURRENT STANDARDS		
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DRAWN BY DA
DATE 03-26-1993
APPROVED BY TB
DATE 03-26-1993
REFERENCE
THIRD ANGLE PROJECTION



Regal Beloit America, Inc.

DESCRIPTION
CONNECTION DIAGRAM
EXTERNAL - SINGLE VOLTAGE - 3Ø MOTOR

MATERIAL PROCESS/FINISH

SIZE A	DRAWING NUMBER EE7300	SHEET 1 OF 1
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CERTIFICATION DATA SHEET

Model#: 145TTFR16068 AA **WINDING#:** ZT4255 FR 5
CONN. DIAGRAM: A-EE7300 **ASSEMBLY:** F1 ONLY
OUTLINE: A-100134-956

TYPICAL MOTOR PERFORMANCE DATA

HP	KW	SYNC. RPM	F.L. RPM	FRAME	ENCLOSURE	KVA CODE	DESIGN
2	1.49	1800	1760	145JPV	TEFC	N	A

PH	Hz	VOLTS	FL AMPS	START TYPE	DUTY	INSL	S.F	AMB°C	ELEVATION
3	60	200	6.9	LINE OR INVERTER	CONTINUOU S	F3	1.15	40	3300

FULL LOAD EFF: 86.5	3/4 LOAD EFF: 86.5	1/2 LOAD EFF: 85.5	GTD. EFF	ELEC. TYPE	NO LOAD AMPS
FULL LOAD PF: 71	3/4 LOAD PF: 62	1/2 LOAD PF: 49	84	SQ CAGE INV RATED	4.4

F.L. TORQUE	LOCKED ROTOR AMPS	L.R. TORQUE	B.D. TORQUE	F.L. RISE°C
6 LB-FT	70.2	24.5 LB-FT 408	33.2 LB-FT 553	45

SOUND PRESSURE @ 3 FT.	SOUND POWER	ROTOR WK^2	MAX. WK^2	SAFE STALL TIME	STARTS /HOUR	APPROX. MOTOR WGT
62 dBA	72 dBA	0.14 LB-FT^2	12 LB-FT^2	15 SEC.	2	65 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 OR SHAFT DOWN	FALSE	NONE	PROVISIONS ONLY	NONE	BLUE (POWDER)

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

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

If Inverter equals NONE, contact factory for further information

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

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DATE: 06/23/2017 07:29:08 AM
 FORM 3531 REV.3 02/07/99
 ** Subject to change without notice.

Data Sheet

Date: 6/29/2017

Customer:

Attention:

Submitted by:

FAREEDA DUDEKULA



145TFR16068

Submital

Data @ 200 V

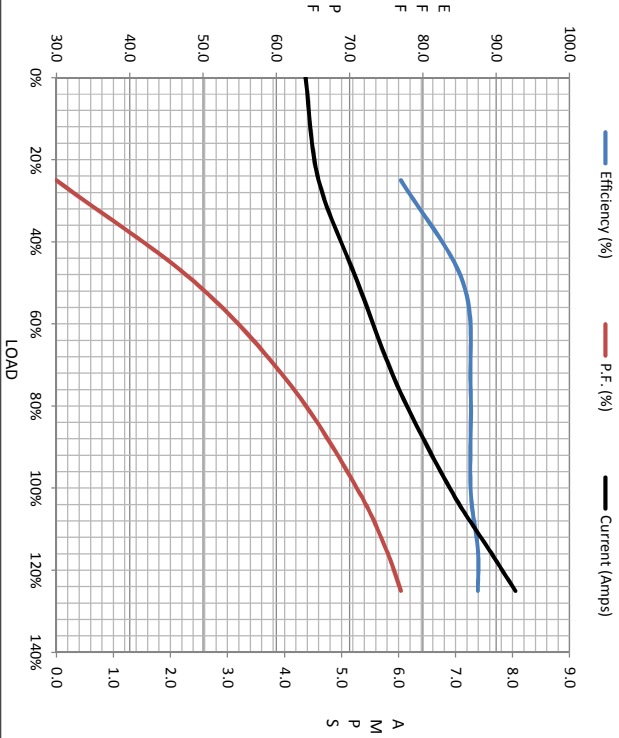
Motor Load Data

Load	0%	25%	50%	75%	100%	115%	125%	LR
Current (Amps)	4.4	4.6	5.3	6.0	6.9	7.6	8.1	70.2
Torque (ft-lb)	0.00	1.50	3.0	4.5	6.0	6.9	7.5	24.5
RPM	1800	1790	1780	1770	1760	1,755	1750	0
Efficiency (%)		77.0	85.5	86.5	86.5	87.5	87.5	
P.F. (%)	7.0	30.0	49.0	62.0	71.0	75.0	77.0	71.0

Motor Speed Data

	LR	Pull-Up	BD	Rated	Idle
Speed (RPM)	0	115	1200	1760	1800
Current (Amps)	70.2	67.9	44.9	6.9	4.4
Torque (ft-lb)	24.5	23.7	33.2	6.0	0.00

Information Block	
HP	2.0
Sync. RPM	1800



Information Block				
HP	2.0			
Sync. RPM	1800			
Frame	145			
Enclosure	TEFC			
Construction	TFR			
Voltage	200 V			
Frequency	60 Hz			
Design	A			
LR Code letter	N			
Service Factor	1.15			
Temp Rise @ FL	45 ° C			
Duty	CONT			
Ambient	40 ° C			
Elevation	1,000 feet			
Rotor/Shaft wkt	0.14 Lb-Fe ²			
Ref Wdg	Z14255 FR			
Sound Pressure @ 1M	62 dBA			
VFD Rating	CONSTANT 2:1			
Outline Dwg	A-100134-956			
Conn. Diag	A-EE7300			
Additional Specifications:				
0				
0				
EQUIV CKT (OHMS / PHASE)				
R1	R2	X1	X2	Xm
0.7490	0.5690	1.0870	1.1220	30.3110

Speed -Torque Curve

