

PRODUCT INFORMATION PACKET

marathon®
Motors

Model No: 145TTFBD16028

Catalog No: GT1207A

Globetrotter® General Purpose Motor, 2 & 1.50 HP, 3 Ph, 60 & 50 Hz, 208-230/460 & 190/380 V,
1800 & 1500 RPM, 145TC Frame, TEFC



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RegalRexnord

Nameplate Specifications

Phase	3	Output HP	2 & 1.50 Hp
Output KW	1.5 & 1.1 kW	Voltage	208-230/460 & 190/380 V
Speed	1745 & 1445 rpm	Service Factor	1.15 & 1.15
Frame	145TC	Enclosure	Totally Enclosed Fan Cooled
Thermal Protection	No Protection	Efficiency	86.5 & 84.5 %
Ambient Temperature	40 °C	Frequency	60 & 50 Hz
Current	5.8-5.4/2.7 & 5.2/2.6 A	Power Factor	80
Duty	Continuous	Insulation Class	F
Design Code	B	KVA Code	L
Drive End Bearing Size	6205	Opp Drive End Bearing Size	6205
UL	Listed	CSA	Y
CE	Y	IP Code	43
Number of Speeds	1	Hazardous Location	DIVISION 2 T2B

Technical Specifications

Electrical Type	Squirrel Cage Inverter Rated	Starting Method	Line Or Inverter
Poles	4	Rotation	Reversible
Resistance Main	9.55 Ohms	Mounting	Bolt-on Base
Motor Orientation	Horizontal	Drive End Bearing	Ball
Opp Drive End Bearing	Ball	Frame Material	Rolled Steel
Shaft Type	T	Shaft Diameter	0.875 in
Assembly/Box Mounting	F1/F2 CAPABLE	Inverter Load	CONSTANT 4:1/VARIABLE 10:1
Outline Drawing	SS621052-850	Connection Drawing	EE7308

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		Regal Beloit America, Inc.	
DESCRIPTION			
<div style="text-align: center;"> <h1>OUTLINE</h1> <h2>143/145TC FR-TEFC-RS</h2> </div>			
MATERIAL		PROCESS/FINISH	
SIZE B	DRAWING NUMBER SS621052		SHEET 1 OF 1



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



P.O. BOX 8003
WAUSAU, WI 54401-8003
PH. 715-675-3311

DATA VOLTS: 460

CERTIFICATION DATA SHEET

CUSTOMER:
ORDER #:
CONN. DIAGRAM: A-EE7308
OUTLINE: A-SS621052-850
WINDING: HAT4009 NONE 1
SPEED:

CUSTOMER P.O. #:
REFERENCE MODEL #: 145TTFBD16028
CAT #: GT1207A
CUSTOMER PART #:
MOUNTING: F1/F2 CAPABLE
FAN: 504205B

TYPICAL MOTOR PERFORMANCE DATA

TYPICAL MOTOR PERFORMANCE DATA													
HP	KW	SYNC RPM		FL RPM		FRAME		ENCLOSURE		TYPE	KVA CODE	DESIGN	
2	1.5	1800		1745		145TC		TEFC		TFR	M	B	
PH	HZ	VOLTS		AMPS		START TYPE		DUTY		INSL	S.F.	AMB	ELEV.
3	60/50	208-230/460#190/380		5.8-5.4/2.7&5.2/2.6		LINE OR INVERTER		CONT		F	1.15	40	3300
F.L. EFF		86.5	3/4 LD EFF		86.2	1/2 LD EFF		84.2	GTD EFF	ELECT. TYPE			
F.L. PF		80.0	3/4 LD PF		72.0	1/2 LD PF		58.0	85.5	SQ CAGE INV RATED			
F.L. TORQUE		LR AMPS @ 460 V			L.R. TORQUE			B.D. TORQUE			F.L. RISE (° C)		
6.0	LB-FT	24.0			21.3	LB-FT	355%	25.0	LB-FT	417%	70		
SOUND PRESSURE		SOUND		ROTOR WK²		MAX. LOAD WK²		SAFE STALL TIME		STARTS/HOUR		APROX.	MOTOR
62	dBA	71	dBA	0.12	LB-FT²	10	LB-FT²	10	SEC.	2		48	LB.
*** SUPPLEMENTAL INFORMATION ***													
DE BRACKET TYPE		ODE BRACKET TYPE		MOUNT TYPE	MOTOR ORIENTATION		SEVERE DUTY		HAZARDOUS LOCATION		DRIP COVER	SCREENS	PAINT
C-FACE		BRAKE		BOLT-ON	HORIZONTAL		NO		NONE		NO	NONE	BLACK (ENAMEL)
BEARINGS		GREASE		SHAFT TYPE		SPECIAL DE		SPECIAL ODE		SHAFT	MATERIAL		FRAME MATERIAL
DE	ODE												
BALL	BALL	POLYREX EM		T		NONE		NONE		1045 HOT ROLLED (C-204)		ROLLED STEEL	
6205	6205												
THERMOSTATS		PROTECTORS		WDG RTD's		BRG RTD's		THERMISTORS		CONTROL		SPACE	HEATERS
NONE		NOT		NONE		NONE		NONE		FALSE		NA	
R1 (ohms/ph)		R2 (ohms/ph)		X1 (ohms/ph)		X2 (ohms/ph)		Xm (ohms/ph)		VIBRATION (in/sec)		FLOAT	
6.332		4.574		7.749		7.182		193.725		0.150		ODE	

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 : 145TTFBD16028

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

Catalog No : GT1207A

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

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