

PRODUCT INFORMATION PACKET

marathon®
Motors

Model No: 145TTFC6027

Catalog No: GT1007

2 HP General Purpose Motor, 3 phase, 1800 RPM, 208-230/460 V, 145T Frame, TEFC
Three Phase TEFC Motors



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REGAL

Nameplate Specifications

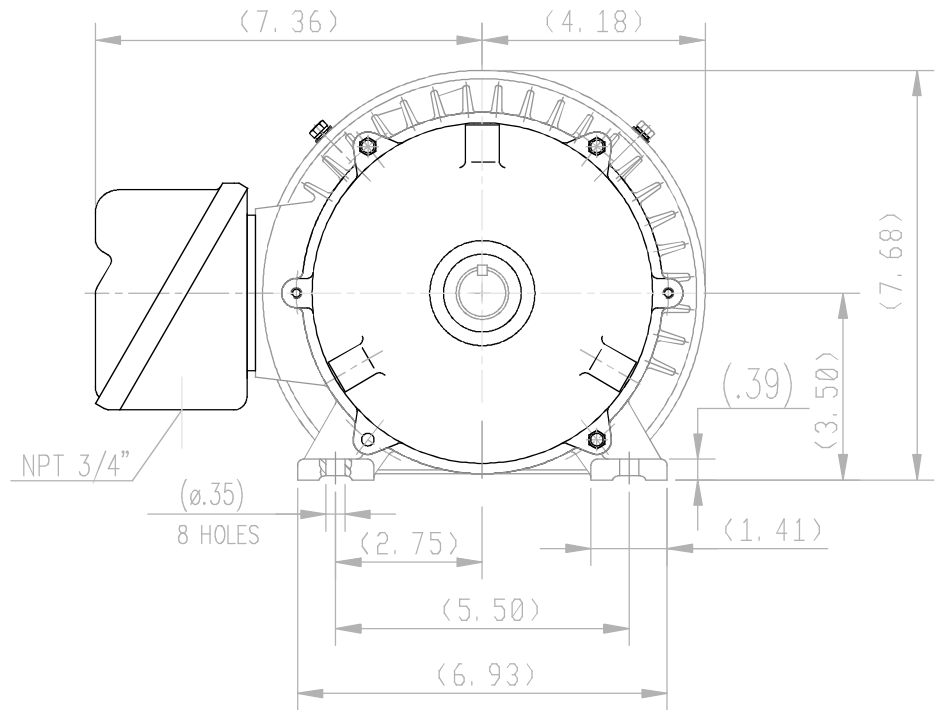
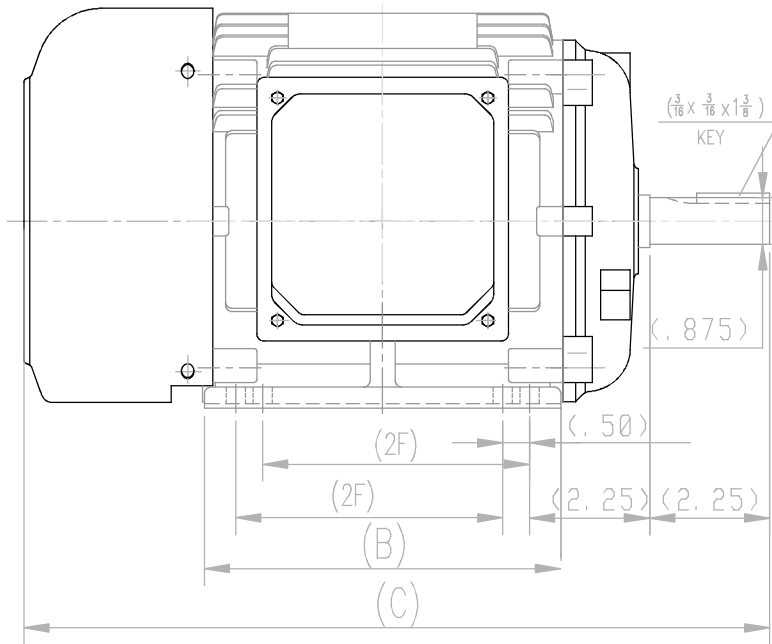
Output HP	2 Hp	Output KW	1.5 kW
Frequency	60 Hz	Voltage	208-230/460 V
Current	5.5-5.0/2.5 A	Speed	1730 rpm
Service Factor	1.15	Phase	3
Efficiency	86.5 %	Power Factor	85
Duty	Continuous	Insulation Class	F
Design Code	B	KVA Code	K
Frame	145T	Enclosure	Totally Enclosed Fan Cooled
Thermal Protection	No	Ambient Temperature	40 °C
Drive End Bearing Size	6205	Opp Drive End Bearing Size	6203
UL	Recognized	CSA	Y
CE	Y	IP Code	43

Technical Specifications

Electrical Type	Squirrel Cage Induction Run	Starting Method	Across The Line
Poles	4	Rotation	Reversible
Mounting	Rigid Base	Motor Orientation	Horizontal
Drive End Bearing	Ball	Opp Drive End Bearing	Ball
Frame Material	Cast Iron	Shaft Type	T
Overall Length	14.20 in	Shaft Diameter	0.875 in
Shaft Extension	2.25 in	Assembly/Box Mounting	F1/F2 CAPABLE
Connection Drawing	A-EE7308	Outline Drawing	SS620599-145T

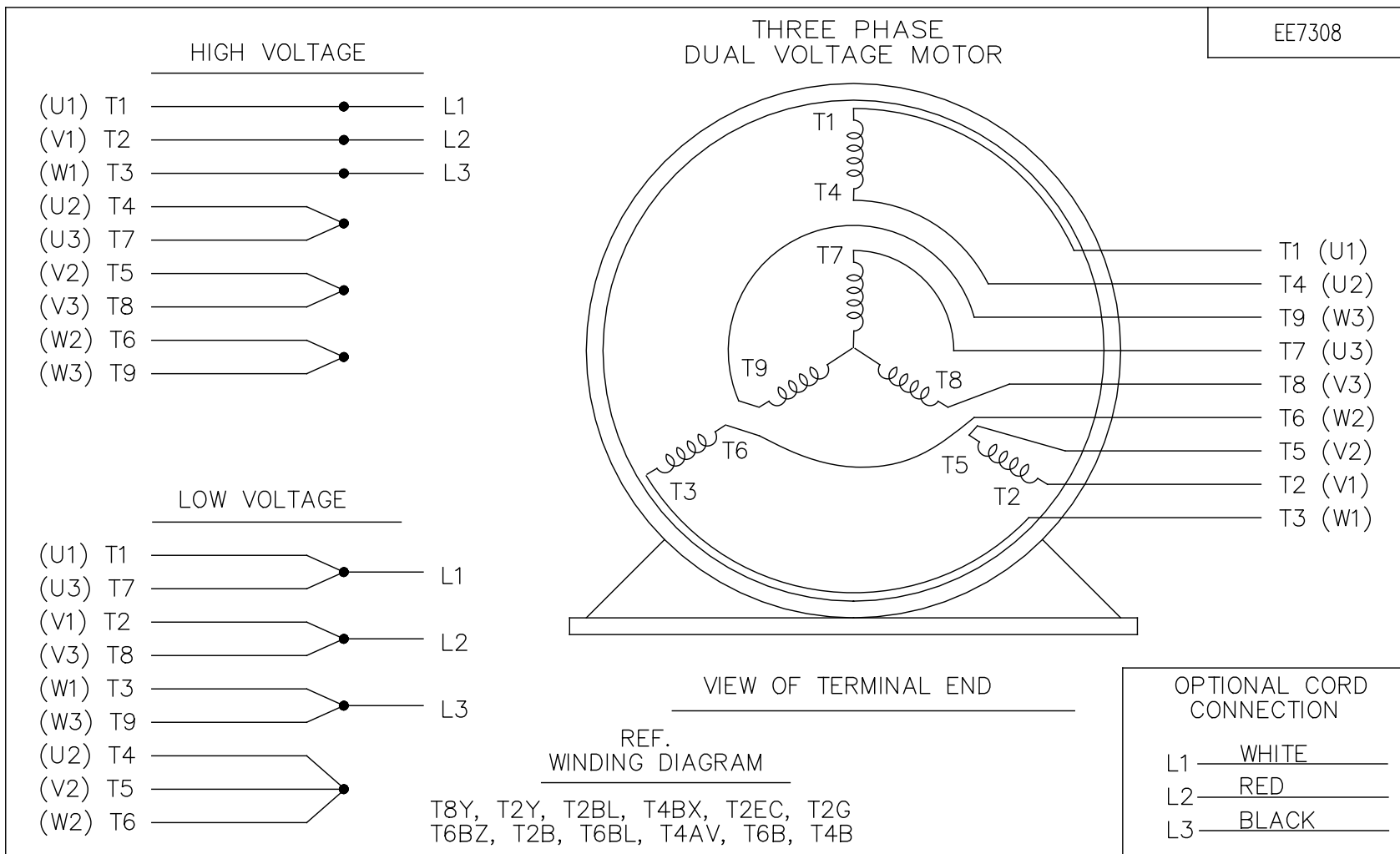
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SS620599



143T	13.2	5.71	4.0
145T	14.2	6.70	5.0
FRAME	C	B	2F

					TOLERANCES UNLESS SPECIFIED		 Regal-Beloit Corporation		DRAWN	ZYH 7.5.2012	
					DEC.	INCHES			CHK	HZJ 7.5.2012	
					.X	±.1			APPD	WGH 7.5.2012	
					.XX	±.03	TITLE	OUTLINE	SCALE		
					.XXX	±.005	143/145T FR TEFC-SEVERE DUTY		REF		
					.XXXX	±.0005	MAT'L.		FMF		
NO.	REVISION			BY & DATE	CHK	ANG	±1/2	FINISH	PREV		
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NO.	REVISION	BY & DATE	CHK	ANG	TOLERANCES UNLESS SPECIFIED		DRAWN RM	11/20/1990
					DEC.	INCHES		
5	CHG TO REGAL LOGO	SL 09/10/2015	AB				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		REF	
1	REDRAWN	RM 11/20/1990		.XXXX	±.0005		FMF	
					±7'30"		PREV	
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				DIST WP			A	EE7308 5



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

CERTIFICATION DATA SHEET

DATA VOLTS: 460

CUSTOMER:
ORDER #: _____
CONN. DIAGRAM: A/E/7308
OUTLINE: SS620598-145T
WINDING: CHT1450/4002
SPEED: _____

CUSTOMER P.O. #: _____
REFERENCE MODEL #: 145TFC6027
CAT # : GT1007
CUSTOMER PART #: _____
MOUNTING: F1/F2 CAPABLE

TYPICAL MOTOR PERFORMANCE DATA

HP	KW	SYNC RPM	FL RPM	FRAME	ENCLOSURE	TYPE	KVA CODE	DESIGN
2	1.5	1800	1730	145T	TEFC	TFC	K	B
PH	HZ	VOLTS	AMPS	START TYPE	DUTY	INSL	S.F.	AMB
3	60/50	208/230/460V/190/380	5.5/52.58/4.8/2.4	ACROSS THE LINE	CONT	F	1.15	40
	FL EFF 86.5		3/4 LD EFF 87.5		1/2 LD EFF 88.5		1/2 LD EFF 85.5	ELECT. TYPE
	FL PF 95.0		3/4 LD PF 79.0		1/2 LD PF 68.0			SO CAGE IND RUN
FL TORQUE		LR AMPS @ 460 V 20.5		LR TORQUE 16.3		B.D. TORQUE 21.5		FL RISE (°C)
6.1 LB-FT						LB-FT 35.2%		60
SOUND PRESSURE @ 3 FT.		SOUND 52 DBA	ROTOR WK 0.00	LB-FT² 0	MAX. LOAD WK 0	SAFE STALL TIME 20 SEC.	STARTS/HOUR 2	APPROX. 0 LB.
43 DBA								MOTOR WGT

*** SUPPLEMENTAL INFORMATION ***

DE BRACKET TYPE	ODE BRACKET TYPE	MOUNT TYPE	MOTOR ORIENTATION	SEVERE DUTY	HAZARDOUS LOCATION	DRIIP COVER	SCREENS	PAINT
STANDARD	STANDARD	RIGID	HORIZONTAL	NO	NONE	NO	NONE	BLUE (ENAMEL)
BEARINGS	GREASE	SHAFT TYPE	SPECIAL DE		SPECIAL ODE	SHAFT	MATERIAL	FRAME MATERIAL
DE CODE BALL 6203	POLYREX EM 6203	T	NONE		NONE		ALSI 1045 (C-240)	CAST IRON
THERMOSTATS	PROTECTORS	WDG RTD's	BRG RTD's	THERMISTORS	CONTROL	SPACE	HEATERS	
NONE	NOT	NONE	NONE	NONE	FALSE	NA		
R1 (ohms/ph) 0	R2 (ohms/ph) 0	X1 (ohms/ph) 0	X2 (ohms/ph) 0	Xm (ohms/ph) 0	VIBRATION (in/sec) 0.150	FLOAT ODE		

INVERTER TORQUE: NONE	INVT. HP SPEED RANGE: NONE	ENCODER: NONE	BRAKE: NONE	FT.LB: NONE	VOLTAGE: NONE	UL: VARS. CONSTITUL REC	NONE PPR
OT							
ES							
NS							

PREPARED BY: VINAYAK VERATE
DATE: 9/22/2020
FORM 3351 REV 4 227/06

Data Sheet

145TFC6027

Date: 9/20/2020
Customer:
Attention:
Submitted by: VINAYAK VERATE



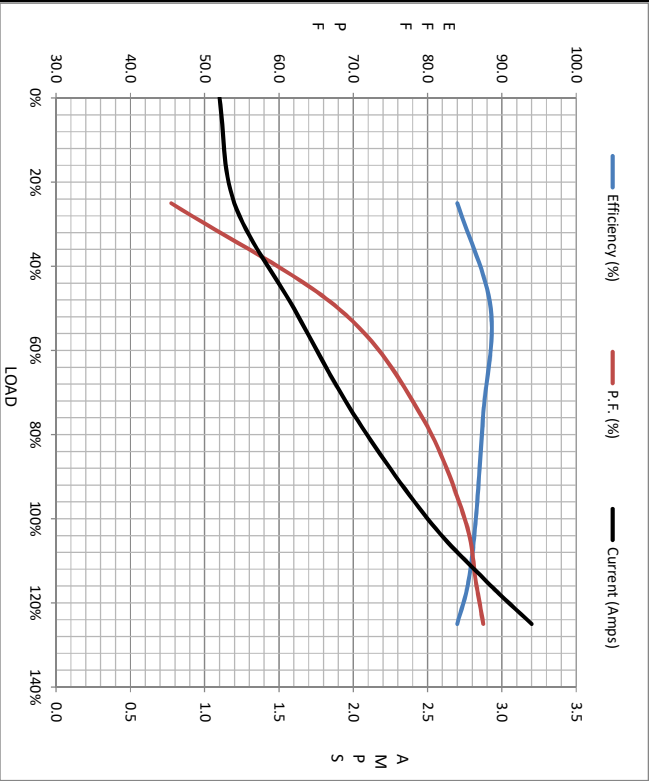
Submital
Data @ 460 V

Motor Load Data

Load	0%	25%	50%	75%	100%	115%	125%	LR
Current (Amps)	1.10	1.20	1.60	2.00	2.50	2.90	3.2	20.5
Torque (ft-lb)	0.00	1.50	3.0	4.5	6.1	7.0	7.7	16.3
RPM	1800	1784	1767	1748	1730	1,719	1704	0
Efficiency (%)		84.0	88.5	87.5	86.5	85.5	84.0	
P.F. (%)	6.5	45.5	68.0	79.0	85.0	86.5	87.5	62.5

Motor Speed Data

	LR	Pull-Up	BD	Rated	Idle	Information Block	
Speed (RPM)	0	900	1650	1730	1800		
Current (Amps)	20.5	17.6	12.7	2.50	1.10	HP	2.0
Torque (ft-lb)	16.3	15.5	21.5	6.1	0.00	Sync. RPM	1800



Efficiency (%)		P.F. (%)		Current (Amps)	
30.0		20.0		10.0	
40.0		30.0		20.0	
50.0		40.0		30.0	
60.0		50.0		40.0	
70.0		60.0		50.0	
80.0		70.0		60.0	
90.0		80.0		70.0	
100.0		90.0		80.0	
0%		0%		0%	
20%		20%		20%	
40%		40%		40%	
60%		60%		60%	
80%		80%		80%	
100%		100%		100%	
120%		120%		120%	
140%		140%		140%	
0.0		0.0		0.0	
0.5		0.5		0.5	
1.0		1.0		1.0	
1.5		1.5		1.5	
2.0		2.0		2.0	
2.5		2.5		2.5	
3.0		3.0		3.0	
3.5		3.5		3.5	
A		A		A	
M		M		M	
P		P		P	
S		S		S	

Speed -Torque Curve

