

PRODUCT INFORMATION PACKET

marathon[®]
Motors

Model No: 145TTFR16040
Catalog No: E2129
1 1/2, 1800, TEFC, 143T, 3/60/575
Totally Enclosed Fan Cooled (TEFC)



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REGAL

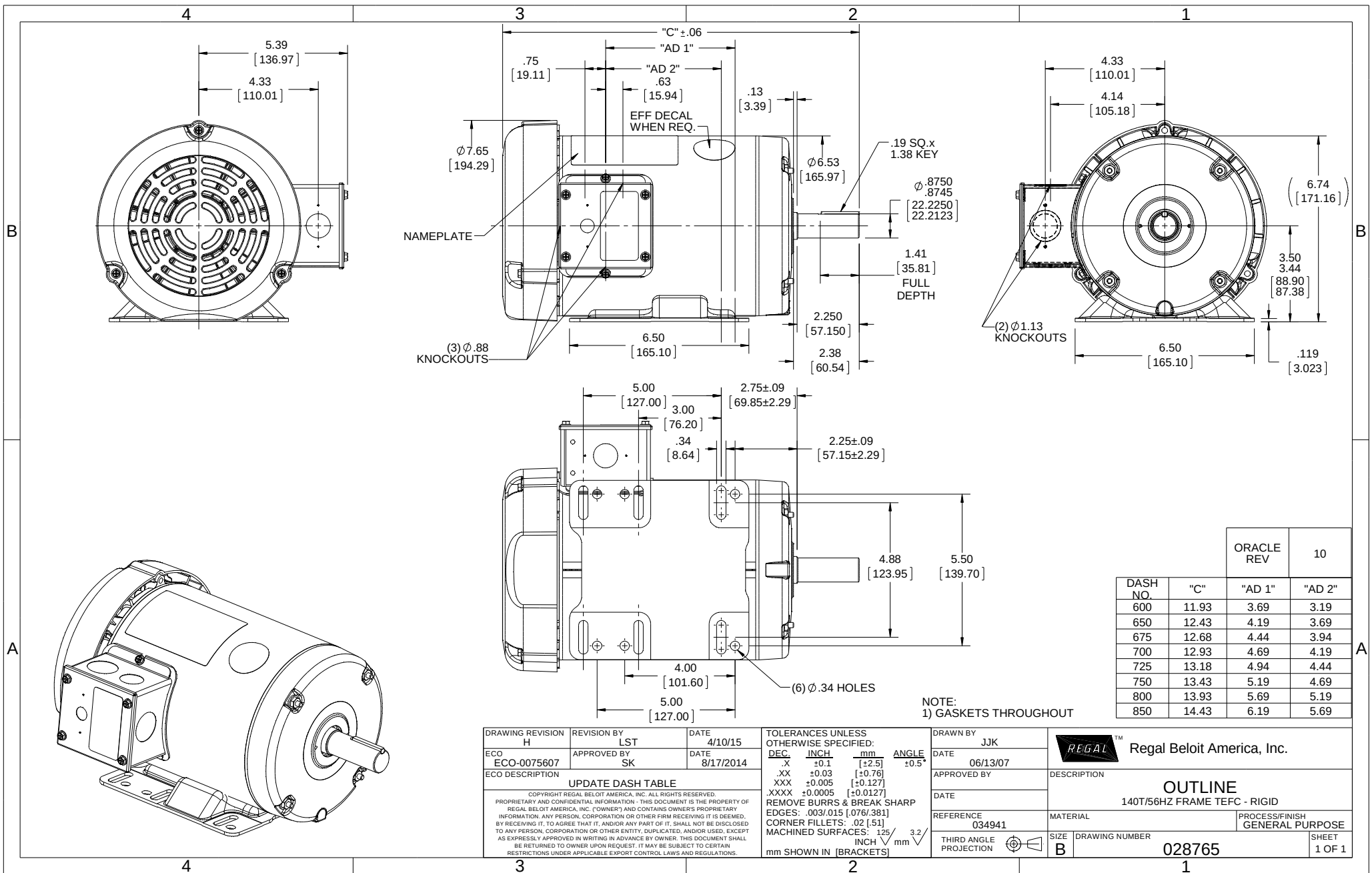


Nameplate Specifications

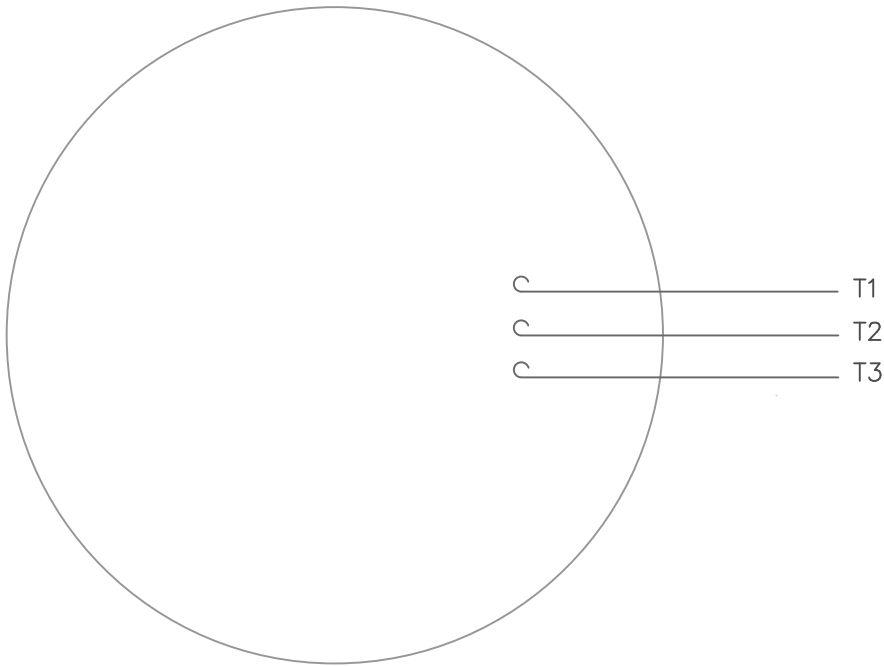
Output HP	1.5 Hp	Output KW	1.12 kW
Frequency	60 Hz	Voltage	575 V
Current	1.9 A	Speed	1750 rpm
Service Factor	1.15	Phase	3
Efficiency	86.5 %	Duty	CONTINUOUS
Insulation Class	F	Design Code	B
KVA Code	L	Frame	145T
Enclosure	TEFC	Overload Protector	NOT
Ambient Temperature	40 °C	Drive End Bearing Size	6205
Opp Drive End Bearing Size	6203	UL	Recognized
CSA	Y	CE	Y
IP Code	43		

Technical Specifications

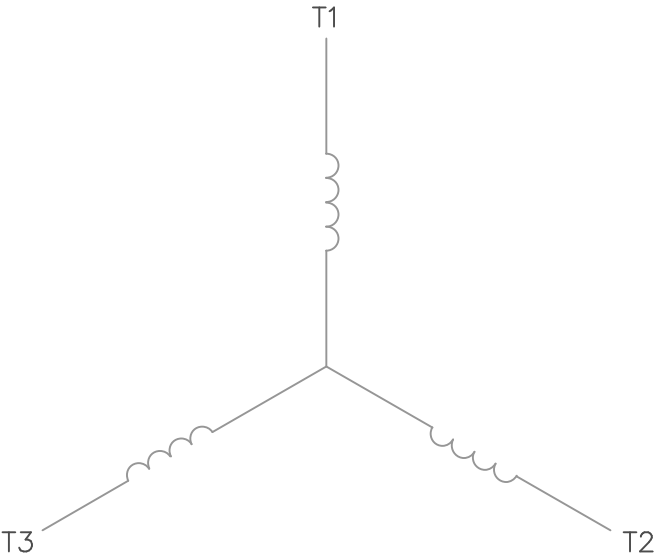
Electrical Type	SQ CAGE INV RATED	Starting Method	LINE OR INVERTER
Poles	4	Rotation	REV
Mounting	RIGID	Motor Orientation	HORIZONTAL
Drive End Bearing	BALL	Opp Drive End Bearing	BALL
Frame Material	ROLLED STEEL	Shaft Type	T
Overall Length	13.43 in	Frame Length	7.5 in
Shaft Diameter	0.88 in	Shaft Extension	2.38 in
Assembly/Box Mounting	F1 ONLY		
Outline Drawing	028765-750	Connection Diagram	005102-01ME



VIEW FROM OUTSIDE OF MOTOR AT SWITCH END.



LINE LEADS



CONNECT LEADS AS FOLLOWS
FOR FOUR CONDUCTOR CORD ()

CORD	L1 (RED)	L2 (WHITE)	L3 (BLACK)	(GREEN)
MOTOR	T1	T2	T3	GROUND

				TOLERANCES UNLESS SPECIFIED			DRAWN RDW 5/1/02		
				DEC.	INCHES		CHK		
				.X	±.1		APPD		
				.XX	±.01		SCALE 1=1		
				.XXX	±.005		REF		
				.XXXX	±.0005	MAT'L. DECAL - 004169		FMF	
NO.	REVISION	BY & DATE	CHK	ANG	±1/2°	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 5/1/02		CAD FILE 00510201ME		SIZE A	DRAWING NO. 005102-01ME	REV.
			DIST						

CERTIFICATION DATA SHEET

Model#: 145TTFR16040 AA **WINDING#:** T634341 FR 4
CONN. DIAGRAM: 005102-01ME **ASSEMBLY:** F1 ONLY
OUTLINE: 028765-750

TYPICAL MOTOR PERFORMANCE DATA

HP	KW	SYNC. RPM	F.L. RPM	FRAME	ENCLOSURE	KVA CODE	DESIGN
1 1/2	1.12	1800	1750	145T	TEFC	L	B

PH	Hz	VOLTS	FL AMPS	START TYPE	DUTY	INSL	S.F	AMB°C	ELEVATION
3	60	575	1.9	LINE OR INVERTER	CONTINUOU S	F4	1.15	40	3300

FULL LOAD EFF: 86.5	3/4 LOAD EFF: 85.7	1/2 LOAD EFF: 82.7	GTD. EFF	ELEC. TYPE	NO LOAD AMPS
FULL LOAD PF: 67.7	3/4 LOAD PF: 65.4	1/2 LOAD PF: 54.9	84	SQ CAGE INV RATED	1

F.L. TORQUE	LOCKED ROTOR AMPS	L.R. TORQUE	B.D. TORQUE	F.L. RISE°C
4.53 LB-FT	18.5	17.2 LB-FT 377	20.4 LB-FT 447	0

SOUND PRESSURE @ 3 FT.	SOUND POWER	ROTOR WK^2	MAX. WK^2	SAFE STALL TIME	STARTS /HOUR	APPROX. MOTOR WGT
68 dBA	78 dBA	0.14 LB-FT^2	0.1 LB-FT^2	20 SEC.	2	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	BLUE (ENAMEL)

BEARINGS		GREASE	SHAFT TYPE	SPECIAL DE	SPECIAL ODE	SHAFT MATERIAL	FRAME MATERIAL
DE	OPE						
BALL	BALL						
6205	6203	POLYREX EM	T	NONE	NONE	1144 STRESSPROOF (C-223)	ROLLED STEEL

THERMO-PROTECTORS				THERMISTORS	CONTROL	SPACE /in 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 10:1			
INV. HP SPEED RANGE: NONE			
ENCODER: NONE			
NONE NONE			
NONE NONE PPR			
BRAKE: NONE NONE			
NONE P/N NONE			
NONE NONE			
NONE FT-LB	NONE V	NONE Hz	

DATE: 06/23/2017 07:17:16 AM
 FORM 3531 REV.3 02/07/99
 ** Subject to change without notice.

Data Sheet

Date: 6/19/2017

145TFR16040

Customer:
Attention:

FAREEDA DUDEKULA



Submittal

Submitted by:

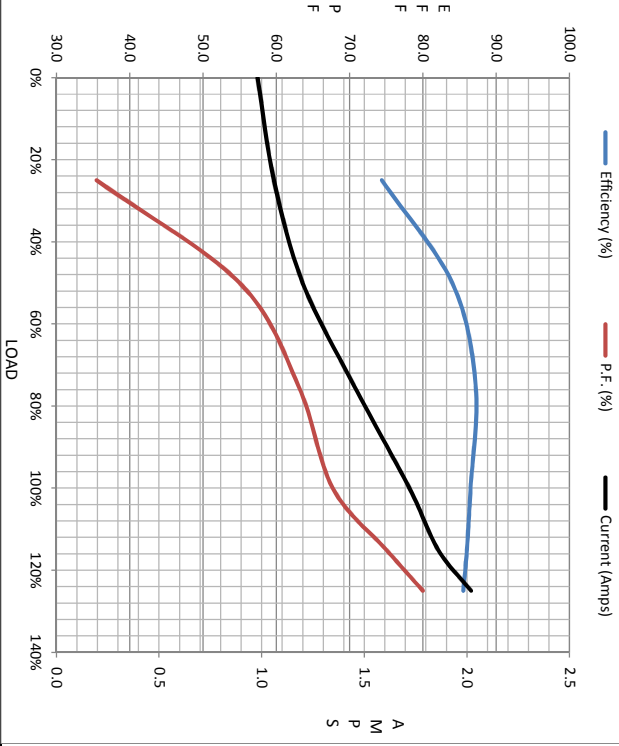
Data @ 575 V

Motor Load Data

Load	0%	25%	50%	75%	100%	115%	125%	LR
Current (Amps)	0.98	1.06	1.20	1.45	1.72	1.86	2.02	14.8
Torque (ft-lb)	0.00	1.10	2.25	3.4	4.5	5.2	5.6	17.2
RPM	1800	1785	1772	1760	1750	1,738	1732	0
Efficiency (%)		74.4	84.0	87.2	86.5	86.0	85.5	
P.F. (%)	9.9	35.5	55.0	63.0	67.7	75.0	80.0	48.0

Motor Speed Data

	LR	Pull-Up	BD	Rated	Idle	Information Block	
Speed (RPM)	0	900	1600	1750	1800		
Current (Amps)	14.8	12.9	9.7	1.72	0.98		
Torque (ft-lb)	17.2	16.0	20.4	4.5	0.00		
						HP	1.5
						Sync. RPM	1800



Efficiency (%)	P.F. (%)	Current (Amps)
85.0	0.1	1.0
90.0	0.5	1.2
95.0	1.0	1.4
100.0	1.8	1.6
	2.0	1.8
	2.5	2.0

Speed -Torque Curve

