

PRODUCT INFORMATION PACKET

marathon®
Motors

Model No: 056T17F15666
Catalog No: G347A
1,1800,TEFC,56,3/60/230/460
Totally Enclosed Fan Cooled (TEFC)



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REGAL



Nameplate Specifications

Output HP	1 Hp	Output KW	0.75 kW
Frequency	60 Hz	Voltage	230/460 V
Current	3.3/1.65 A	Speed	1725 rpm
Service Factor	1.15	Phase	3
Efficiency	85.5 %	Duty	CONTINUOUS
Insulation Class	B	Design Code	A
KVA Code	P	Frame	56
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 IND RUN	Starting Method	ACROSS THE LINE
Poles	4	Rotation	REV
Mounting	RIGID	Motor Orientation	HORIZONTAL
Drive End Bearing	BALL	Opp Drive End Bearing	BALL
Frame Material	ROLLED STEEL	Shaft Type	STANDARD 56
Overall Length	14.62 in	Frame Length	8.65 in
Shaft Diameter	0.63 in	Shaft Extension	1.88 in
Assembly/Box Mounting	F1 ONLY		
Outline Drawing	OL56100114-001	Connection Diagram	CDTD103

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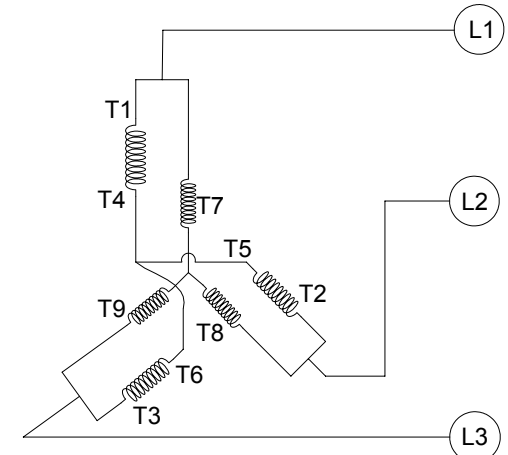
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001

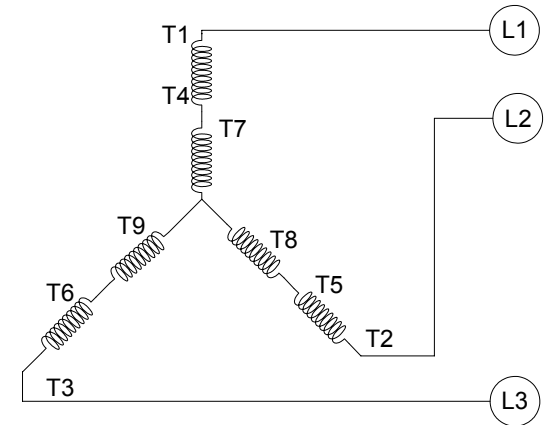
CCW LOW VOLTAGE



B

002

CCW HIGH VOLTAGE



A

VIEW OF TERMINAL END

NOTE:

1. TO REVERSE ROTATION, INTERCHANGE ANY TWO LINE CONNECTIONS TO L1, L2, OR L3.
2. CONNECTION DIAGRAM-NAMEPLATE DD10038

DRAWING REVISION A	REVISION BY G. RODRIGUEZ	DATE 07-06-2016
ECO	APPROVED BY R. VALENZUELA	DATE 07-06-2016
ECO DESCRIPTION		
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TOLERANCES UNLESS OTHERWISE SPECIFIED:		
DEC.	INCH	mm
.X	±0.1	[±2.5]
.XX	±0.01	[±0.25]
.XXX	±0.005	[±0.127]
.XXXX	±0.0005	[±0.0127]
REMOVE BURRS & BREAK SHARP		
EDGES: .003/.015 [.076/.381]		
CORNER FILLETS: .02 [.51]		
MACHINED SURFACES: 125 INCH 3.2 mm		
mm SHOWN IN [BRACKETS]		

DRAWN BY G. RODRIGUEZ	DATE 07-06-2016
APPROVED BY R. VALENZUELA	DATE 07-06-2016
REFERENCE SKT52A105383CA	THIRD ANGLE PROJECTION

REGAL™ Regal Beloit America, Inc.	
DESCRIPTION CONN DIAGRAM-EXTERNAL	
MATERIAL	PROCESS/FINISH
SIZE B	DRAWING NUMBER CDTD103
SHEET 1 OF 1	

4

3

2

1

CERTIFICATION DATA SHEET

Model#: 56T17F15666 A **WINDING#:** ZT4257 FR 3
CONN. DIAGRAM: CDTD103 **ASSEMBLY:** F1 ONLY
OUTLINE: OL56100114-001

TYPICAL MOTOR PERFORMANCE DATA

HP	KW	SYNC. RPM	F.L. RPM	FRAME	ENCLOSURE	KVA CODE	DESIGN
1&3/4	.75&.56	1800	1725&1425	56	TEFC	P	A

PH	Hz	VOLTS	FL AMPS	START TYPE	DUTY	INSL	S.F	AMB°C	ELEVATION
3	60/50	230/460#190/ 380	3.3/1.65&3.1/1 .55	ACROSS THE LINE	CONTINUOU S	B3	1.15/1.15	40	3300

FULL LOAD EFF: 85.5&84	3/4 LOAD EFF: 84	1/2 LOAD EFF: 81.5	GTD. EFF	ELEC. TYPE	NO LOAD AMPS
FULL LOAD PF: 68&66	3/4 LOAD PF: 59.5	1/2 LOAD PF: 46.5	82.5	SQ CAGE IND RUN	2.3 / 1.2

F.L. TORQUE	LOCKED ROTOR AMPS	L.R. TORQUE	B.D. TORQUE	F.L. RISE°C
3 LB-FT	34 / 17	13.7 LB-FT 457	16.8 LB-FT 560	30

SOUND PRESSURE @ 3 FT.	SOUND POWER	ROTOR WK^2	MAX. WK^2	SAFE STALL TIME	STARTS /HOUR	APPROX. MOTOR WGT
62 dBA	72 dBA	0.12 LB-FT^2	0 LB-FT^2	15 SEC.	2	48 LBS.

*** SUPPLEMENTAL INFORMATION ***

DE BRACKET TYPE	ODE BRACKET TYPE	MOUNT TYPE	ORIENTATION	SEVERE DUTY	HAZARDOUS LOCATION	DRIP COVER	SCREENS	PAINT
STANDARD	BRAKE	RIGID	HORIZONTAL	FALSE	NONE	FALSE	NONE	GRAY (POWDER)

BEARINGS		GREASE	SHAFT TYPE	SPECIAL DE	SPECIAL ODE	SHAFT MATERIAL	FRAME MATERIAL
DE	OPE	POLYREX EM	STANDARD 56	NONE	NONE	1144 STRESSPROOF (C-223)	ROLLED STEEL
BALL	BALL						
6205	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: NONE	
INV. HP SPEED RANGE: NONE	
ENCODER: NONE	
NONE	NONE
NONE	NONE PPR
BRAKE:	PROVISIONS FOR KIT
NONE	P/N NONE
NONE	NONE
NONE FT-LB	NONE V
	NONE Hz

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DATE: 06/28/2017 07:22:47 AM
 FORM 3531 REV.3 02/07/99
 ** Subject to change without notice.

Data Sheet

56117F15666

Date: 8/30/2017

Customer:

Attention:

Submitted by:

VINAYAK VERARTE



Submital

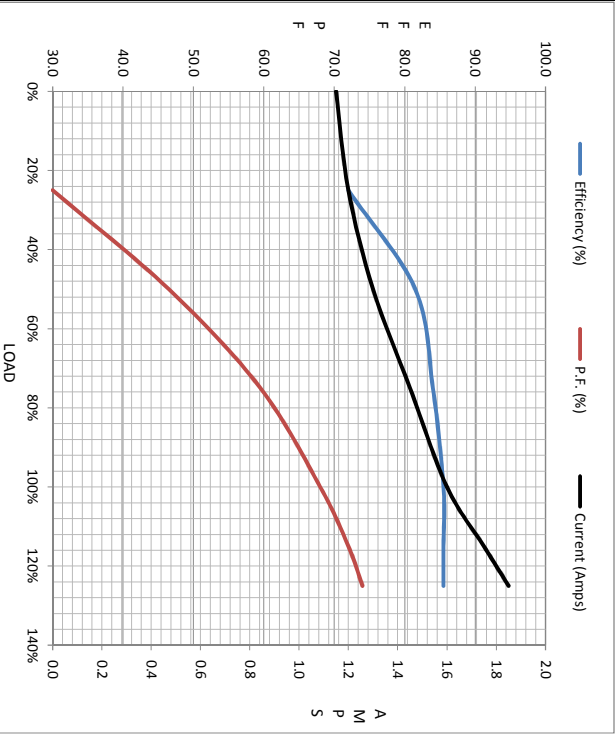
Data @ 460 V

Motor Load Data

Load	0%	25%	50%	75%	100%	115%	125%	LR
Current (Amps)	1.15	1.20	1.30	1.45	1.60	1.75	1.85	17.0
Torque (ft-lb)	0.00	0.75	1.50	2.25	3.0	3.5	3.8	13.7
RPM	1800	1790	1785	1775	1765	1,760	1,755	0
Efficiency (%)		72.0	81.5	84.0	85.5	85.5	85.5	
P.F. (%)	7.5	30.0	46.5	59.5	68.0	72.0	74.0	69.5

Motor Speed Data

	LR	Pull-Up	BD	Rated	Idle	Information Block	
Speed (RPM)	0	115	1270	1765	1800	HP	1.0
Current (Amps)	17.0	16.0	11.0	1.60	1.15	Sync. RPM	1800
Torque (ft-lb)	13.7	12.5	16.8	3.0	0.00		



EQUIV CKT (OHMS / PHASE)				
R1	R2	X1	X2	Xm
2.4250	1.6020	3.1050	2.7720	75.8630

Speed - Torque Curve

