

PRODUCT INFORMATION PACKET

marathon®
Motors

Model No: 056T17F15639

Catalog No: G583A

XRI® General Purpose General Purpose Motor, 1 HP, 3 Ph, 60 Hz, 230/460 V, 1800 RPM, 56HC Frame, TEFC



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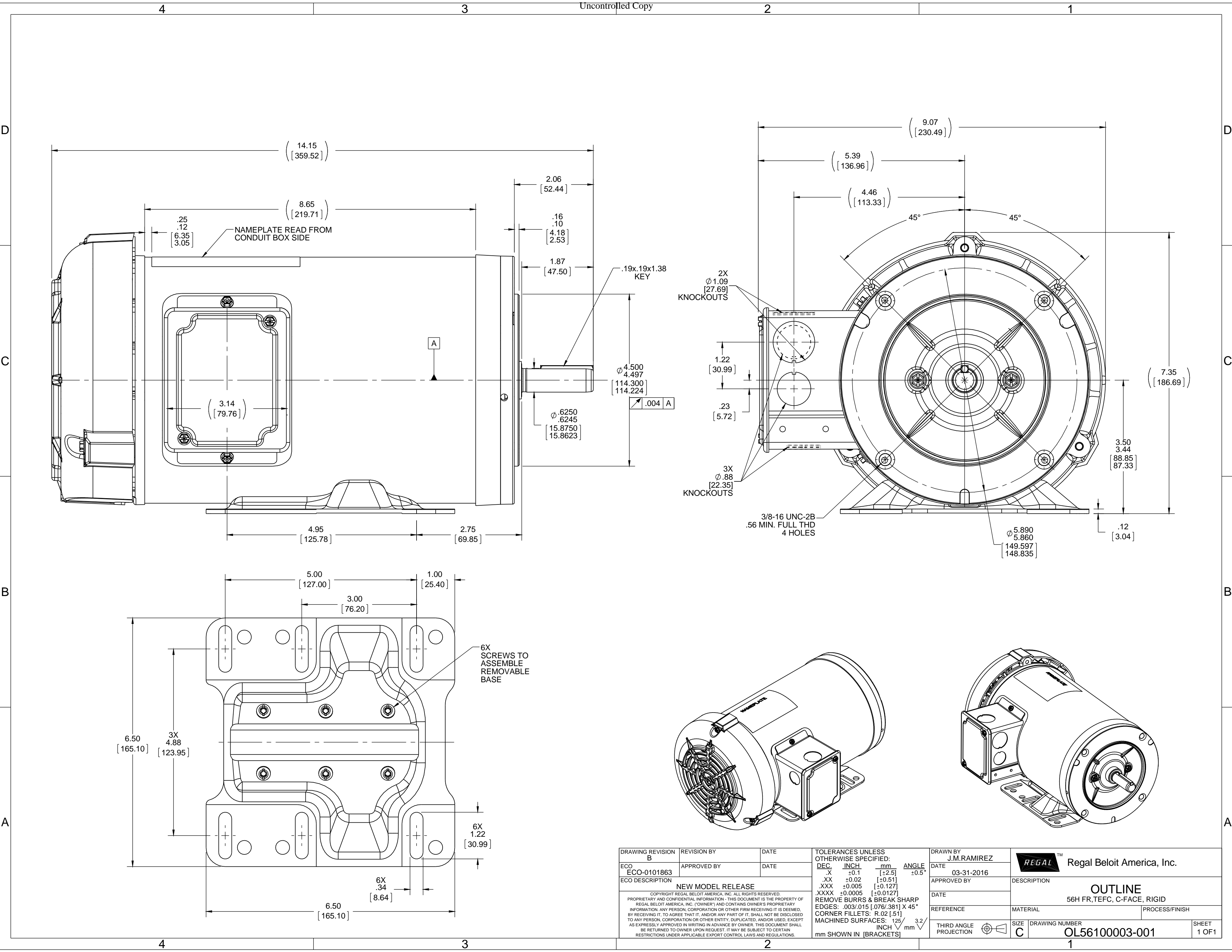
RegalRexnord

Nameplate Specifications

Output HP	1 Hp	Output KW	0.75 kW
Frequency	60 Hz	Voltage	230/460 V
Current	3.3/1.7 A	Speed	1725 rpm
Service Factor	1.15	Phase	3
Efficiency	85.5 %	Power Factor	68
Duty	Continuous	Insulation Class	F
Design Code	B	KVA Code	P
Frame	56HC	Enclosure	Totally Enclosed Fan Cooled
Thermal Protection	No Protection	Ambient Temperature	40 °C
Drive End Bearing Size	6205	Opp Drive End Bearing Size	6203
UL	Recognized	CSA	Y
CE	Y	IP Code	43
Number of Speeds	1		

Technical Specifications

Electrical Type	Squirrel Cage Induction Run	Starting Method	Across The Line
Poles	4	Rotation	Reversible
Resistance Main	11.8 Ohms	Mounting	Bolt-on Base
Motor Orientation	Horizontal Or Up Or Down	Drive End Bearing	Ball
Opp Drive End Bearing	Ball	Frame Material	Rolled Steel
Shaft Type	NEMA 56	Overall Length	14.15 in
Frame Length	8.65 in	Shaft Diameter	0.625 in
Shaft Extension	2.06 in	Assembly/Box Mounting	F1 ONLY
Connection Drawing	CDTD127	Outline Drawing	OL56100003-001



DRAWING REVISION B	REVISION BY	DATE	TOLERANCES UNLESS OTHERWISE SPECIFIED:	DRAWN BY J.M.RAMIREZ	Regal Beloit America, Inc.
ECO ECO-0101863	APPROVED BY	DATE	DEC. INCH mm ANGLE .X ±0.1 [±2.5] .XX ±0.02 [±0.51] .XXX ±0.005 [±0.127] .XXXX ±0.0005 [±0.0127]	DATE 03-31-2016	
ECO DESCRIPTION NEW MODEL RELEASE			REMOVE BURRS & BREAK SHARP EDGES: .003/.015 [.076/.381] X 45° CORNER FILLETS: R.02 [51] MACHINED SURFACES: 125 INCH/mm 3.2 mm SHOWN IN [BRACKETS]	APPROVED BY	DESCRIPTION OUTLINE 56H FR,TEFC, C-FACE, RIGID
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			THIRD ANGLE PROJECTION	SIZE C	DRAWING NUMBER OL56100003-001
					SHEET 1 OF 1

4

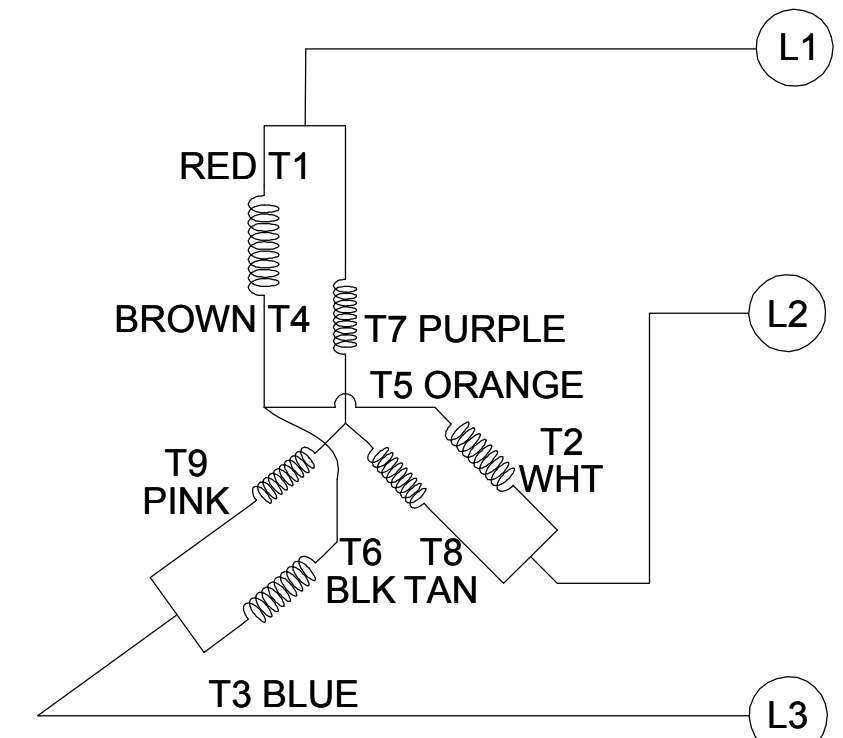
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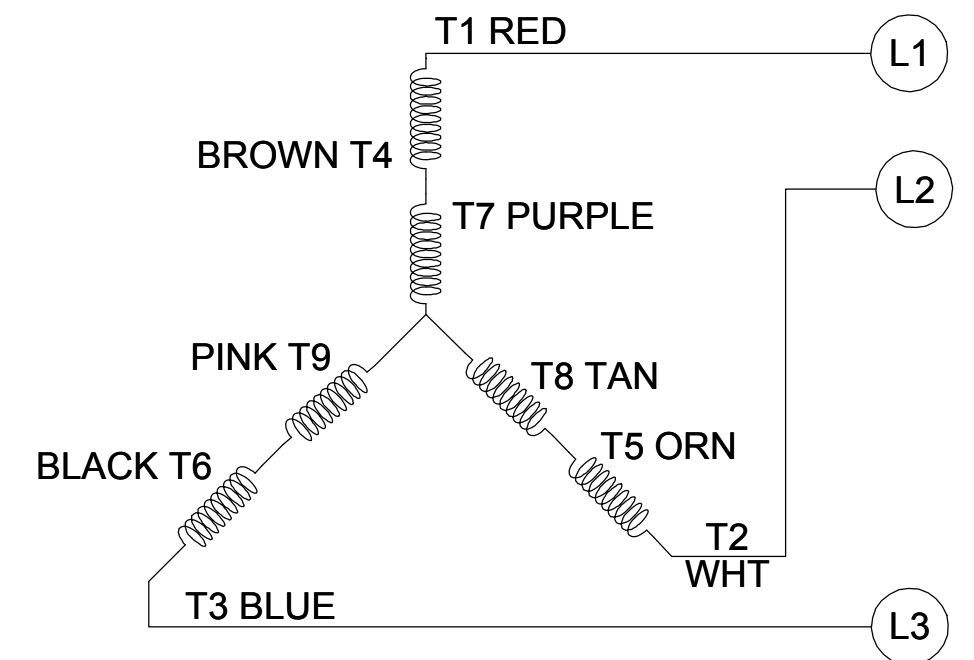
001

CCW LOW VOLTAGE



002

CCW HIGH VOLTAGE

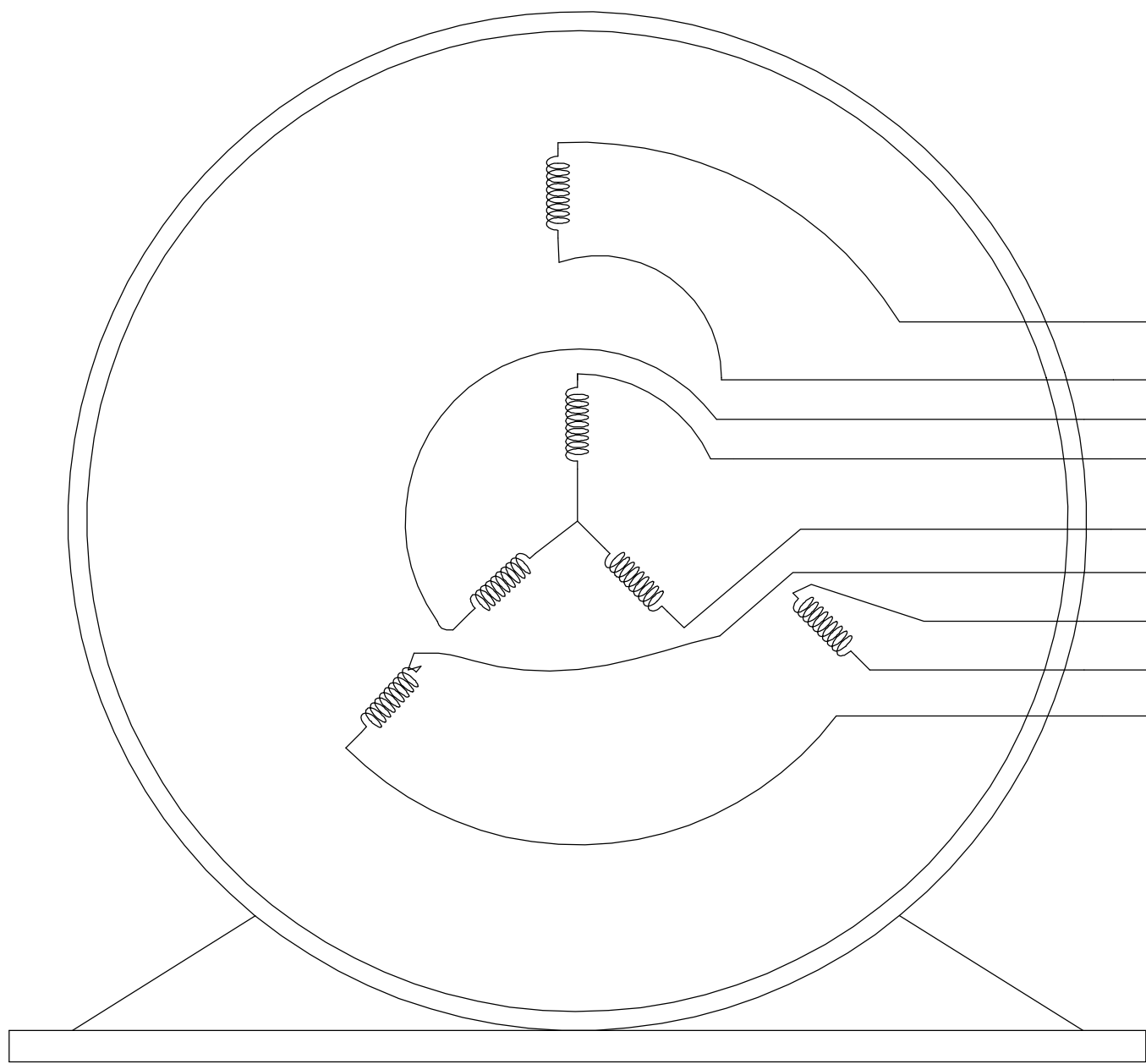


B

B

A

A



- T1 RED
- T4 BROWN
- T9 PINK
- T7 PURPLE
- T8 TAN
- T6 BLACK
- T5 ORANGE
- T2 WHITE
- T3 BLUE

VIEW OF TERMINAL END

- NOTE:
1. TO REVERSE ROTATION, INTERCHANGE ANY TWO LINE CONNECTIONS TO L1, L2, OR L3.
 2. CONNECTION DIAGRAM-NAMEPLATE DD10123-001 - CCWLE DD10199-001 - CWLE

DRAWING REVISION D	REVISION BY SHESHI	DATE 01/11/2019	TOLERANCES UNLESS OTHERWISE SPECIFIED: DEC. INCH [mm] ANGLE ±0.5° .X ±0.1 [±2.5] .XX ±0.01 [±0.25] .XXX ±0.005 [±0.127] .XXXX ±0.0005 [±0.0127]	DRAWN BY G. RODRIGUEZ	Regal Beloit America, Inc.
ECO ECO-0159881	APPROVED BY CD	DATE 01/11/2019		DATE 12-01-2017	
ECO DESCRIPTION ADDED DD10199-001			REMOVE BURRS & BREAK SHARP EDGES: .003/.015 [.076/.381] CORNER FILLETS: .02 [.51] MACHINED SURFACES: 125 INCH 3.2/mm	APPROVED BY J. A. MORENO	DESCRIPTION CONN DIAGRAM-EXTERNAL
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			SIZE B	DRAWING NUMBER CDTD127	PROCESS/FINISH
					SHEET 1 OF 1

4

3

2

1



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

CERTIFICATION DATA SHEET

CUSTOMER:

CUSTOMER PO#:

ORDER #:

MODEL #: 56T17F15639 A

CONN. DIAGRAM: CDTD127

CUSTOMER PART #:

OUTLINE: OL56100003-001

MOUNTING: F1 ONLY

WINDING #: ZT4257 FR 3

TYPICAL MOTOR PERFORMANCE DATA

HP	kW	SYNC. RPM	F.L. RPM	FRAME	ENCLOSURE	KVA CODE	DESIGN
1&3/4	0.75&0.56	1800	1725&1425	56HC	TEFC	P	B

PH	Hz	VOLTS	AMPS	START TYPE	DUTY	INSL	S.F.	AMB°C
3	60/50	230/460&190/380	3.3/1.65&3.1/1.55	ACROSS THE LINE	CONTINUOUS	F3	1.15/1.15	40

FULL LOAD EFF:	85.5&84	3/4 LOAD EFF:	84	1/2 LOAD EFF:	81.5	GTD. EFF	ELEC. TYPE
FULL LOAD PF:	68&66	3/4 LOAD PF:	59.5	1/2 LOAD PF:	46.5	82.5	SQ CAGE IND RUN

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
C-FACE	BRAKE	BOLT-ON	HORIZONTAL OR UP OR DOWN	FALSE	NONE	PROVISIONS ONLY	NONE	GRAY (POWDER)

BEARINGS		GREASE	SHAFT TYPE	SPECIAL DE	SPECIAL ODE	SHAFT MATERIAL	FRAME MATERIAL
DE	ODE						
BALL	BALL	POLYREX EM	STANDARD 56	NONE	NONE	AISI 1215 (MS1000)	ROLLED STEEL
6205	6203						

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

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INVERTER TORQUE: NONE
INV. HP SPEED RANGE: NONE
ENCODER: NONE
NONE NONE
NONE NONE PPR
BRAKE: PROVISIONS FOR KIT NONE
NONE P/N NONE
NONE NONE
NONE FT-LB NONE V NONE Hz

PREPARED BY: Dinesh
Suddula **DATE:**
02/08/2019 04:38:10 AM
FORM 3531 REV.3 02/07/99
** Subject to change without notice.

Data Sheet

Date: 12/13/2018
 Customer: _____
 Attention: _____
 Submitted by: FAREEDA DUDEKULA



56T17F15639

Submittal

Data @ 460 V

Motor Load Data

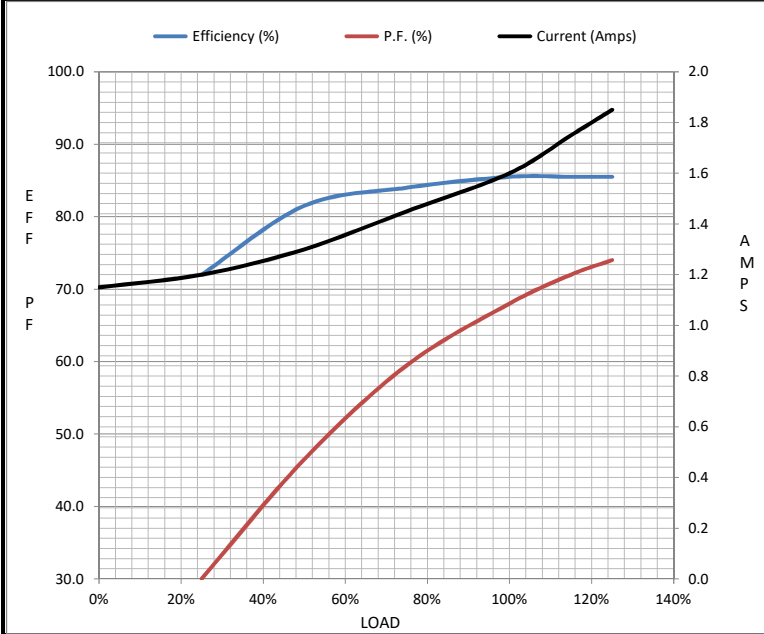
Load	0%	25%	50%	75%	100%	115%	125%	LR
Current (Amps)	1.15	1.20	1.30	1.45	1.60	1.75	1.85	17.0
Torque (ft-lb)	0.00	0.75	1.50	2.25	3.0	3.5	3.8	13.7
RPM	1800	1790	1785	1775	1765	1,760	1755	0
Efficiency (%)		72.0	81.5	84.0	85.5	85.5	85.5	
P.F. (%)	7.5	30.0	46.5	59.5	68.0	72.0	74.0	69.5

Motor Speed Data

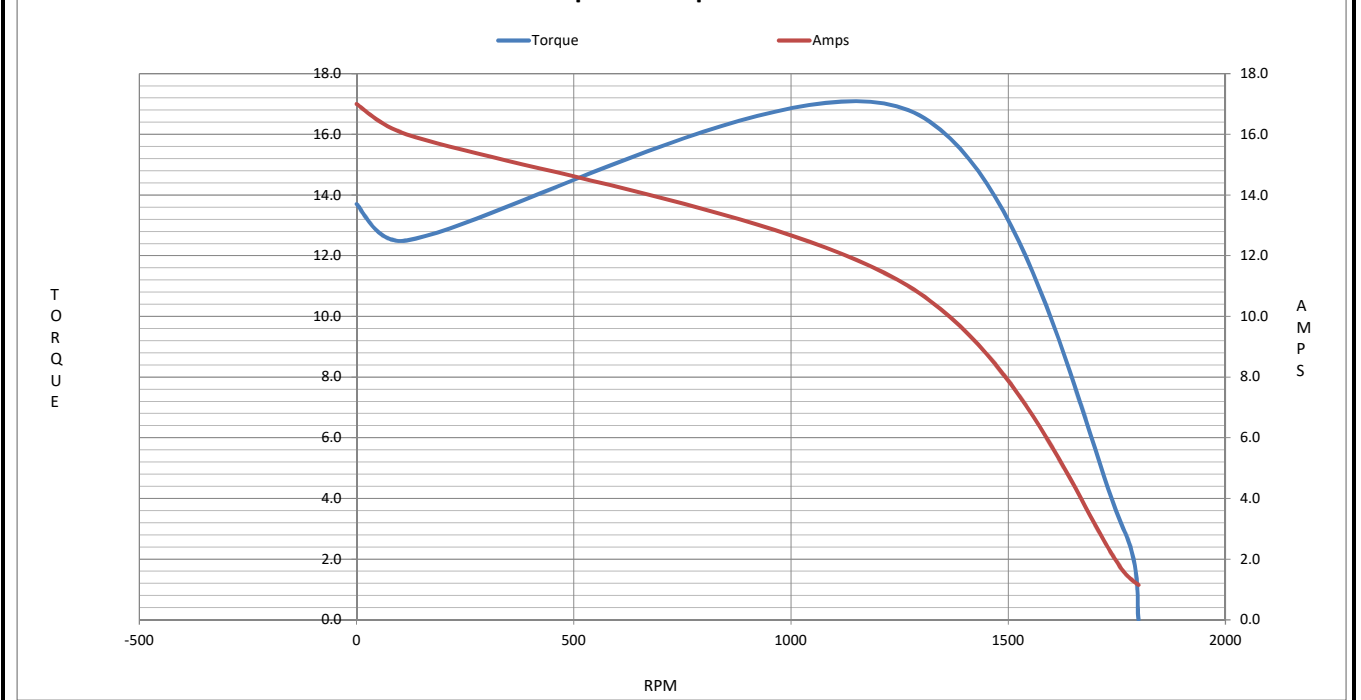
	LR	Pull-Up	BD	Rated	Idle
Speed (RPM)	0	115	1270	1765	1800
Current (Amps)	17.0	16.0	11.0	1.60	1.15
Torque (ft-lb)	13.7	12.5	16.8	3.0	0.00

Information Block

HP	1.0			
Sync. RPM	1800			
Frame	56			
Enclosure	TEFC			
Construction	TS			
Voltage	230/460#190/380 V			
Frequency	60 Hz			
Design	A			
LR Code letter	P			
Service Factor	1.15			
Temp Rise @ FL	30 °C			
Duty	CONT			
Ambient	40 °C			
Elevation	1,000 feet			
Rotor/Shaft wk ²	0.12 Lb-Ft ²			
Ref Wdg	ZT4257 FR			
Sound Pressure @ 1M	62 dBA			
VFD Rating	NONE			
Outline Dwg	OL56100003-001			
Conn. Diag	CTD103			
Additional Specifications:				
0				
0				
EQUIV CKT (OHMS / PHASE)				
R1	R2	X1	X2	Xm
2.4250	1.6020	3.1050	2.7720	75.8630



Speed -Torque Curve



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 : 056T17F15639

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

Catalog No : G583A

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

Created on 09/01/2022

CE 22