

# PRODUCT INFORMATION PACKET



Model No: 056T17F15641

Catalog No: G584A

General Purpose Motor, 1.50 & 1 HP, 3 Ph, 60 & 50 Hz, 230/460 & 190/380 V, 1800 & 1500 RPM,  
56HC Frame, TEFC



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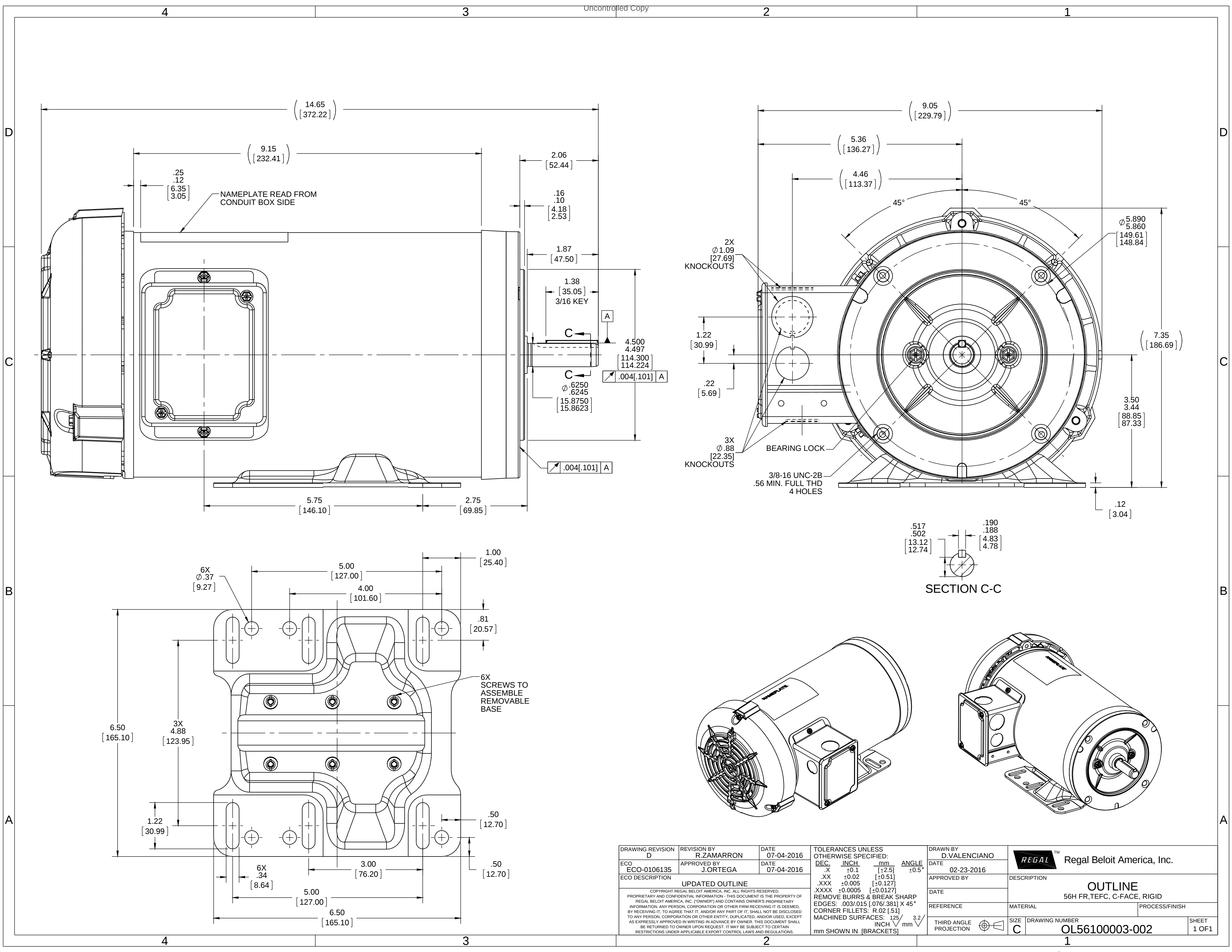


### Nameplate Specifications

|                        |                     |                            |                             |
|------------------------|---------------------|----------------------------|-----------------------------|
| Phase                  | 3                   | Output HP                  | 1.50 & 1 Hp                 |
| Output KW              | 1.1 & 0.75 kW       | Voltage                    | 230/460 & 190/380 V         |
| Speed                  | 1725 & 1425 rpm     | Service Factor             | 1.15 & 1.15                 |
| Frame                  | 56HC                | Enclosure                  | Totally Enclosed Fan Cooled |
| Thermal Protection     | No Protection       | Efficiency                 | 86.5 & 85 %                 |
| Ambient Temperature    | 40 °C               | Frequency                  | 60 & 50 Hz                  |
| Current                | 4.6/2.3 & 4.2/2.1 A | Power Factor               | 71                          |
| Duty                   | Continuous          | Insulation Class           | F                           |
| Design Code            | B                   | KVA Code                   | P                           |
| 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       | 7.9 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          | 9.15 in                     | Shaft Diameter        | 0.625 in        |
| Shaft Extension       | 1.88 in                     | Assembly/Box Mounting | F1 ONLY         |
| Connection Drawing    | CDTD127                     | Outline Drawing       | OL56100003-002  |



|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                           |                    |                                                               |         |           |       |                          |                                                                                                                  |  |  |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------|--------------------|---------------------------------------------------------------|---------|-----------|-------|--------------------------|------------------------------------------------------------------------------------------------------------------|--|--|
| DRAWING REVISION<br>D                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | REVISION BY<br>R.ZAMARRON | DATE<br>07-04-2016 | TOLERANCES UNLESS OTHERWISE SPECIFIED:                        |         |           |       | DRAWN BY<br>D.VALENCIANO |  Regal Beloit America, Inc. |  |  |
| ECO<br>ECO-0106135                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | APPROVED BY<br>J.ORTEGA   | DATE<br>07-04-2016 | DEC.                                                          | INCH    | mm        | ANGLE | DATE<br>02-23-2016       |                                                                                                                  |  |  |
| ECO DESCRIPTION                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                           |                    | .X                                                            | ±0.1    | [±2.5]    | ±0.5° | APPROVED BY              | DESCRIPTION                                                                                                      |  |  |
| UPDATED OUTLINE                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                           |                    | .XX                                                           | ±0.02   | [±0.51]   |       | DATE                     | OUTLINE                                                                                                          |  |  |
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|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                           |                    | .XXXX                                                         | ±0.0005 | [±0.0127] |       |                          | MATERIAL                                                                                                         |  |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                           |                    | REMOVE BURRS & BREAK SHARP EDGES: .003/.015 [.076/.381] X 45° |         |           |       |                          | PROCESS/FINISH                                                                                                   |  |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                           |                    | MACHINED SURFACES: 125 INCH 3.2 mm                            |         |           |       |                          | SIZE                                                                                                             |  |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                           |                    | mm SHOWN IN [BRACKETS]                                        |         |           |       | THIRD ANGLE PROJECTION   | DRAWING NUMBER                                                                                                   |  |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                           |                    |                                                               |         |           |       |                          | C                                                                                                                |  |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                           |                    |                                                               |         |           |       |                          | OL56100003-002                                                                                                   |  |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                           |                    |                                                               |         |           |       |                          | SHEET                                                                                                            |  |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                           |                    |                                                               |         |           |       |                          | 1 OF 1                                                                                                           |  |  |

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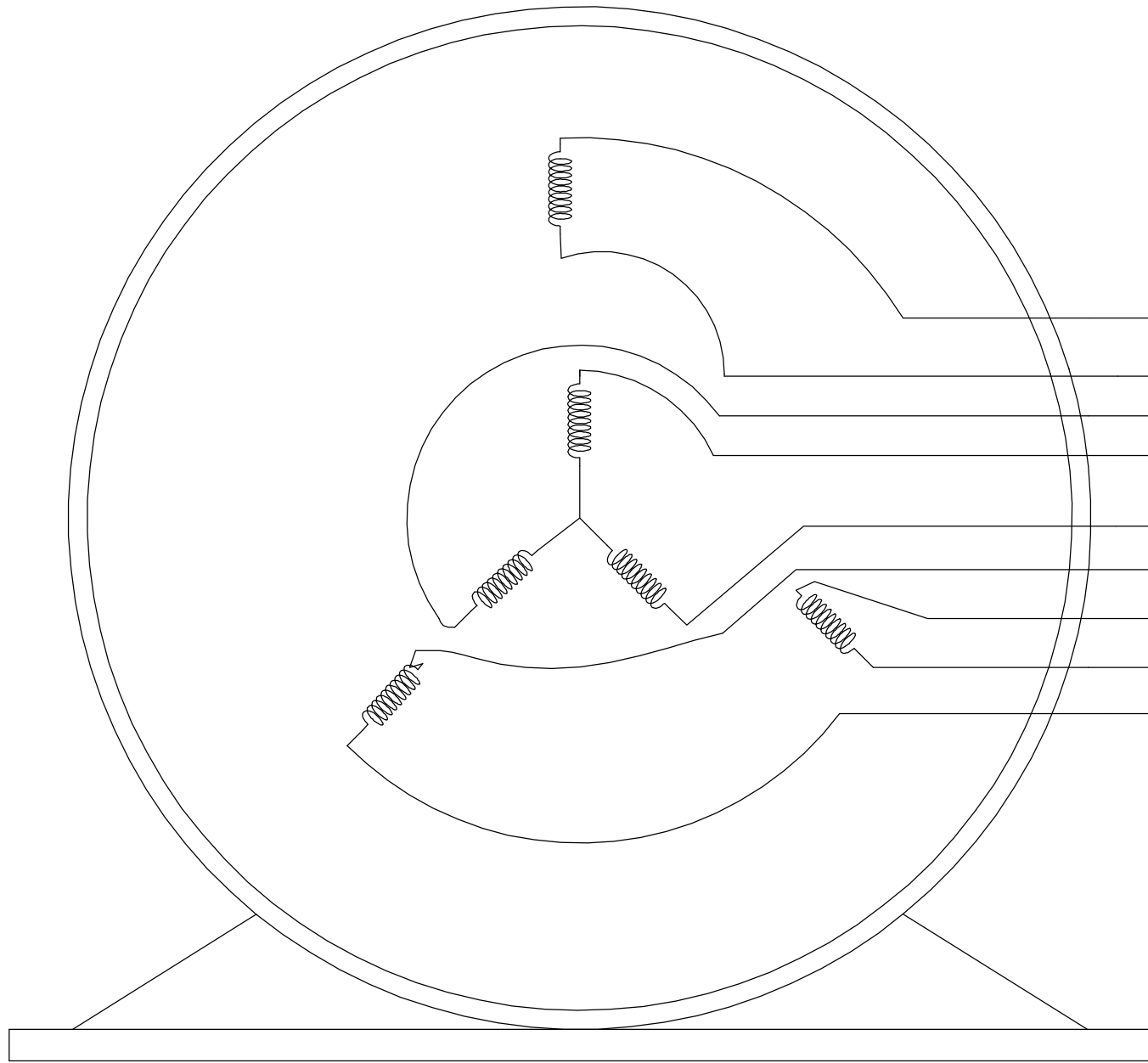
3

2

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B

B



VIEW OF TERMINAL END

A

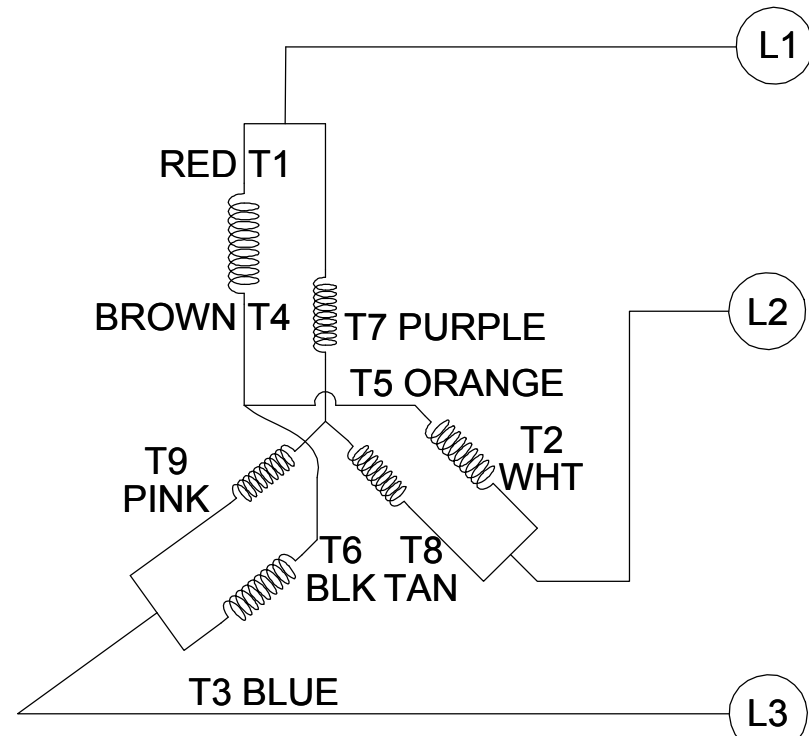
A

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

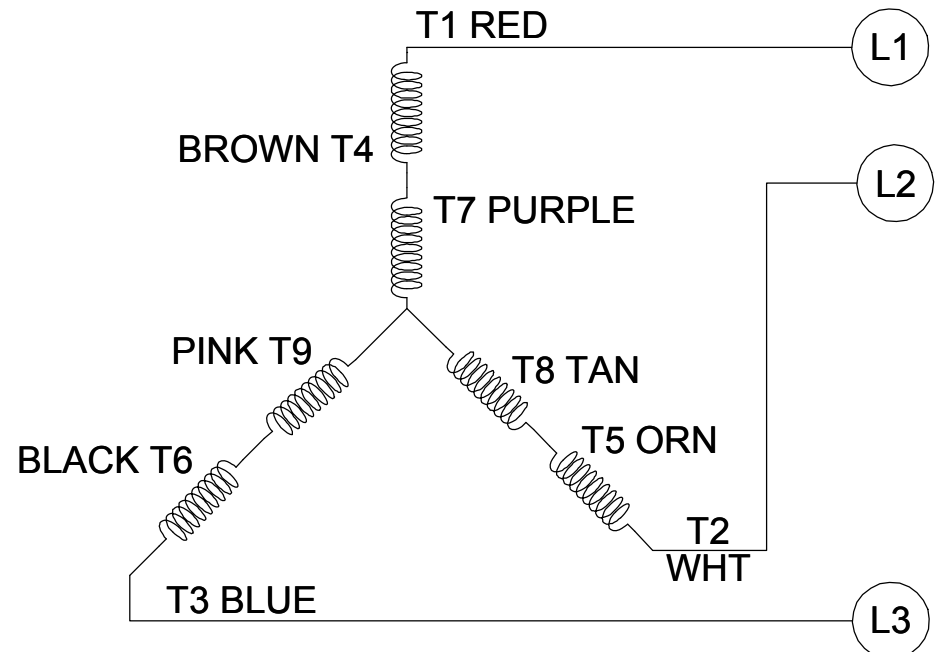
CCW LOW VOLTAGE

001



CCW HIGH VOLTAGE

002



|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |         |                       |       |                             |  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |  |                      |  |                                                                                       |      |                |       |                           |      |                 |       |     |       |         |  |      |        |          |  |       |         |           |  |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------|-----------------------|-------|-----------------------------|--|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|----------------------|--|---------------------------------------------------------------------------------------|------|----------------|-------|---------------------------|------|-----------------|-------|-----|-------|---------|--|------|--------|----------|--|-------|---------|-----------|--|
| DRAWING REVISION<br>D                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |         | REVISION BY<br>SHESHI |       | DATE<br>01/11/2019          |  | TOLERANCES UNLESS<br>OTHERWISE SPECIFIED:<br><table><tr><td>DEC.</td><td>INCH</td><td>mm</td><td>ANGLE</td></tr><tr><td>.X</td><td>±0.1</td><td>[±2.5]</td><td>±0.5°</td></tr><tr><td>.XX</td><td>±0.01</td><td>[±0.25]</td><td></td></tr><tr><td>.XXX</td><td>±0.005</td><td>[±0.127]</td><td></td></tr><tr><td>.XXXX</td><td>±0.0005</td><td>[±0.0127]</td><td></td></tr></table><br>REMOVE BURRS & BREAK SHARP<br>EDGES: .003/.015 [.076/.381]<br>CORNER FILLETS: .02 [.51]<br>MACHINED SURFACES: 125 INCH 3.2 mm<br>mm SHOWN IN [BRACKETS] |  |                      |  | DEC.                                                                                  | INCH | mm             | ANGLE | .X                        | ±0.1 | [±2.5]          | ±0.5° | .XX | ±0.01 | [±0.25] |  | .XXX | ±0.005 | [±0.127] |  | .XXXX | ±0.0005 | [±0.0127] |  |
| DEC.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | INCH    | mm                    | ANGLE |                             |  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |  |                      |  |                                                                                       |      |                |       |                           |      |                 |       |     |       |         |  |      |        |          |  |       |         |           |  |
| .X                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | ±0.1    | [±2.5]                | ±0.5° |                             |  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |  |                      |  |                                                                                       |      |                |       |                           |      |                 |       |     |       |         |  |      |        |          |  |       |         |           |  |
| .XX                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | ±0.01   | [±0.25]               |       |                             |  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |  |                      |  |                                                                                       |      |                |       |                           |      |                 |       |     |       |         |  |      |        |          |  |       |         |           |  |
| .XXX                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | ±0.005  | [±0.127]              |       |                             |  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |  |                      |  |                                                                                       |      |                |       |                           |      |                 |       |     |       |         |  |      |        |          |  |       |         |           |  |
| .XXXX                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | ±0.0005 | [±0.0127]             |       |                             |  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |  |                      |  |                                                                                       |      |                |       |                           |      |                 |       |     |       |         |  |      |        |          |  |       |         |           |  |
| ECO<br>ECO-0159881                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |         | APPROVED BY<br>CD     |       | DATE<br>01/11/2019          |  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |  |                      |  |                                                                                       |      |                |       |                           |      |                 |       |     |       |         |  |      |        |          |  |       |         |           |  |
| ECO DESCRIPTION<br>ADDED DD10199-001                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |         |                       |       |                             |  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |  |                      |  |                                                                                       |      |                |       |                           |      |                 |       |     |       |         |  |      |        |          |  |       |         |           |  |
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| DRAWN BY<br>G. RODRIGUEZ                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |         | DATE<br>12-01-2017    |       | APPROVED BY<br>J. A. MORENO |  | DATE<br>12-01-2017                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |  | REFERENCE<br>CDTD103 |  | THIRD ANGLE<br>PROJECTION                                                             |      | SIZE<br>B      |       | DRAWING NUMBER<br>CDTD127 |      | SHEET<br>1 OF 1 |       |     |       |         |  |      |        |          |  |       |         |           |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |         |                       |       |                             |  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |  |                      |  |  |      |                |       |                           |      |                 |       |     |       |         |  |      |        |          |  |       |         |           |  |
|  Regal Beloit America, Inc.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |         |                       |       |                             |  | DESCRIPTION<br>CONN DIAGRAM-EXTERNAL                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |  |                      |  |                                                                                       |      |                |       |                           |      |                 |       |     |       |         |  |      |        |          |  |       |         |           |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |         |                       |       |                             |  | MATERIAL                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |  |                      |  |                                                                                       |      | PROCESS/FINISH |       |                           |      |                 |       |     |       |         |  |      |        |          |  |       |         |           |  |

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## CERTIFICATION DATA SHEET

Model#: 56T17F15641 A  
 CONN. DIAGRAM: CDTD103  
 OUTLINE: OL56100003-002

WINDING#: ZT4256 FR 3  
 ASSEMBLY: F1 ONLY

## TYPICAL MOTOR PERFORMANCE DATA

| HP      | KW       | SYNC. RPM | F.L. RPM  | FRAME | ENCLOSURE | KVA CODE | DESIGN |
|---------|----------|-----------|-----------|-------|-----------|----------|--------|
| 1 1/2&1 | 1.12&.75 | 1800      | 1725&1425 | 56HC  | TEFC      | P        | B      |

| PH | Hz    | VOLTS               | FL AMPS             | START TYPE         | DUTY           | INSL | S.F       | AMB°C | ELEVATION |
|----|-------|---------------------|---------------------|--------------------|----------------|------|-----------|-------|-----------|
| 3  | 60/50 | 230/460#190/<br>380 | 4.6/2.3&4.2/2.<br>1 | ACROSS THE<br>LINE | CONTINUOU<br>S | F3   | 1.15/1.15 | 40    | 3300      |

| FULL LOAD EFF:<br>86.5&85 | 3/4 LOAD EFF: 85.5 | 1/2 LOAD EFF: 82.5 | GTD. EFF | ELEC. TYPE      | NO LOAD AMPS |
|---------------------------|--------------------|--------------------|----------|-----------------|--------------|
| FULL LOAD PF: 71&64       | 3/4 LOAD PF: 62.5  | 1/2 LOAD PF: 49    | 84       | SQ CAGE IND RUN | 3 / 1.5      |

| F.L. TORQUE | LOCKED ROTOR AMPS | L.R. TORQUE    | B.D. TORQUE  | F.L. RISE°C |
|-------------|-------------------|----------------|--------------|-------------|
| 4.5 LB-FT   | 48 / 24           | 21.2 LB-FT 471 | 26 LB-FT 578 | 35          |

| SOUND PRESSURE<br>@ 3 FT. | SOUND POWER | ROTOR WK^2   | MAX. WK^2  | SAFE STALL TIME | STARTS<br>/HOUR | APPROX. MOTOR<br>WGT |
|---------------------------|-------------|--------------|------------|-----------------|-----------------|----------------------|
| 62 dBA                    | 72 dBA      | 0.14 LB-FT^2 | 10 LB-FT^2 | 20 SEC.         | 2               | 50 LBS.              |

## \*\*\* SUPPLEMENTAL INFORMATION \*\*\*

| DE BRACKET<br>TYPE | ODE BRACKET<br>TYPE | MOUNT<br>TYPE | ORIENTATION                    | SEVERE<br>DUTY | HAZARDOUS<br>LOCATION | DRIP<br>COVER      | SCREENS | PAINT            |
|--------------------|---------------------|---------------|--------------------------------|----------------|-----------------------|--------------------|---------|------------------|
| C-FACE             | BRAKE               | BOLT-ON       | HORIZONTAL<br>OR UP OR<br>DOWN | FALSE          | NONE                  | PROVISIONS<br>ONLY | NONE    | GRAY<br>(POWDER) |

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

| THERMO-PROTECTORS |            |          |          | THERMISTORS | CONTROL | SPACE /n 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: 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      |  |  |  |

DATE: 06/28/2017 07:09:00 AM  
 FORM 3531 REV.3 02/07/99  
 \*\* Subject to change without notice.

## Data Sheet

Date: 8/23/2017

Customer:

Attention:

Submitted by: VINAYAK YERATE



56T17F15641

Submittal

Data @ 460 V

## Motor Load Data

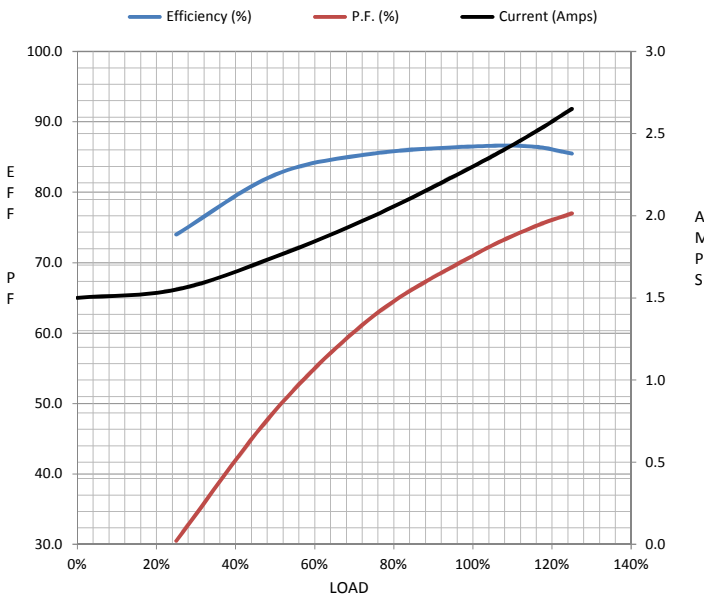
| Load           | 0%   | 25%  | 50%  | 75%  | 100% | 115%  | 125% | LR   |  |
|----------------|------|------|------|------|------|-------|------|------|--|
| Current (Amps) | 1.50 | 1.55 | 1.75 | 2.00 | 2.30 | 2.50  | 2.65 | 24.0 |  |
| Torque (ft-lb) | 0.00 | 1.10 | 2.20 | 3.5  | 4.5  | 5.2   | 5.7  | 21.2 |  |
| RPM            | 1800 | 1790 | 1780 | 1765 | 1755 | 1,750 | 1745 | 0    |  |
| Efficiency (%) |      | 74.0 | 82.5 | 85.5 | 86.5 | 86.5  | 85.5 |      |  |
| P.F. (%)       | 7.5  | 30.5 | 49.0 | 62.5 | 71.0 | 75.0  | 77.0 | 69.5 |  |

## Motor Speed Data

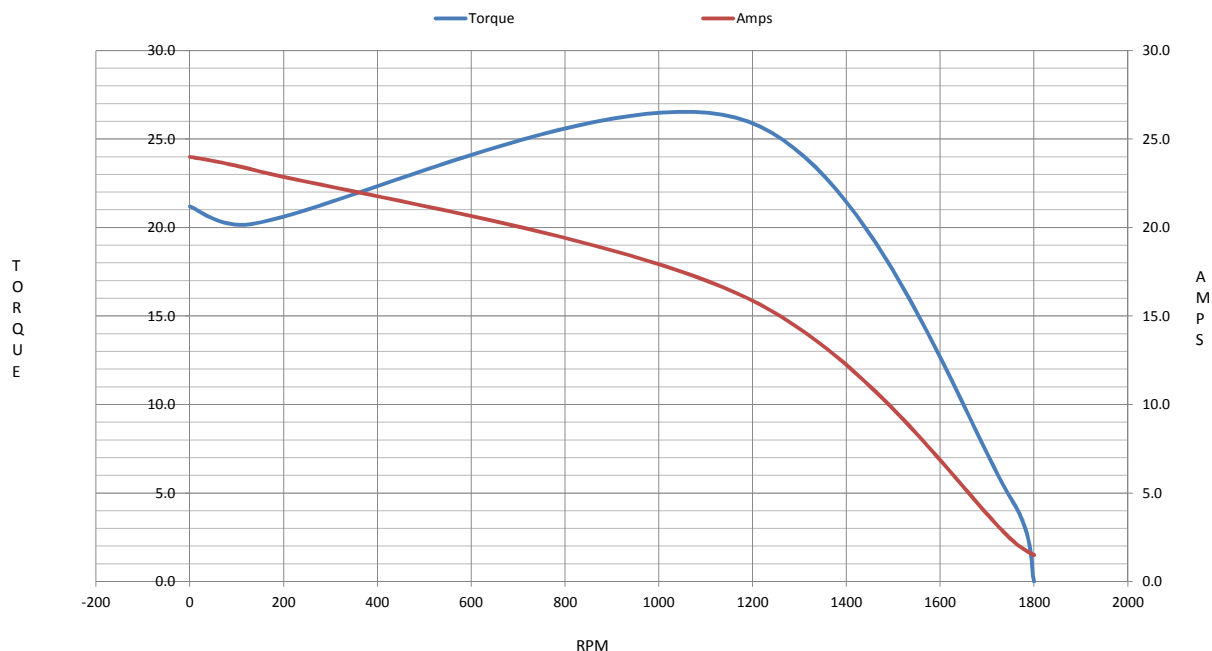
|                | LR   | Pull-Up | BD   | Rated | Idle |
|----------------|------|---------|------|-------|------|
| Speed (RPM)    | 0    | 130     | 1190 | 1755  | 1800 |
| Current (Amps) | 24.0 | 23.3    | 16.0 | 2.30  | 1.50 |
| Torque (ft-lb) | 21.2 | 20.2    | 26.0 | 4.5   | 0.00 |

## Information Block

|                            |                 |        |        |          |
|----------------------------|-----------------|--------|--------|----------|
| HP                         | 1.5             |        |        |          |
| Sync. RPM                  | 1800            |        |        |          |
| Frame                      | 145             |        |        |          |
| Enclosure                  | TEFC            |        |        |          |
| Construction               | TFR             |        |        |          |
| Voltage                    | 230/460#190/380 | V      |        |          |
| Frequency                  | 60              | Hz     |        |          |
| Design                     | A               |        |        |          |
| LR Code letter             | P               |        |        |          |
| Service Factor             | 1.15            |        |        |          |
| Temp Rise @ FL             | 35              | ° C    |        |          |
| Duty                       | CONT            |        |        |          |
| Ambient                    | 40              | ° C    |        |          |
| Elevation                  | 1,000           | feet   |        |          |
| Rotor/Shaft wk²            | 0.14            | Lb-Ft² |        |          |
| Ref Wdg                    | ZT4256          | FR     |        |          |
|                            |                 |        |        |          |
| Sound Pressure @ 1M        | 62              | dBA    |        |          |
| VFD Rating                 | NONE            |        |        |          |
| Outline Dwg                | OL56100003-002  |        |        |          |
| Conn. Diag                 | CDTD103         |        |        |          |
| Additional Specifications: |                 |        |        |          |
| 0                          |                 |        |        |          |
| 0                          |                 |        |        |          |
| EQUIV CKT (OHMS / PHASE)   |                 |        |        |          |
| R1                         | R2              | X1     | X2     | Xm       |
| 4.8380                     | 3.7800          | 7.1250 | 7.1630 | 189.6050 |



## 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 : 056T17F15641

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

Catalog No : G584A

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**