

# PRODUCT INFORMATION PACKET

Model No: 056T17F15659  
Catalog No: K1438B  
1 1/2, 1800, TEFC, 56C, 3/60/460  
Totally Enclosed Fan Cooled (TEFC)



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### Nameplate Specifications

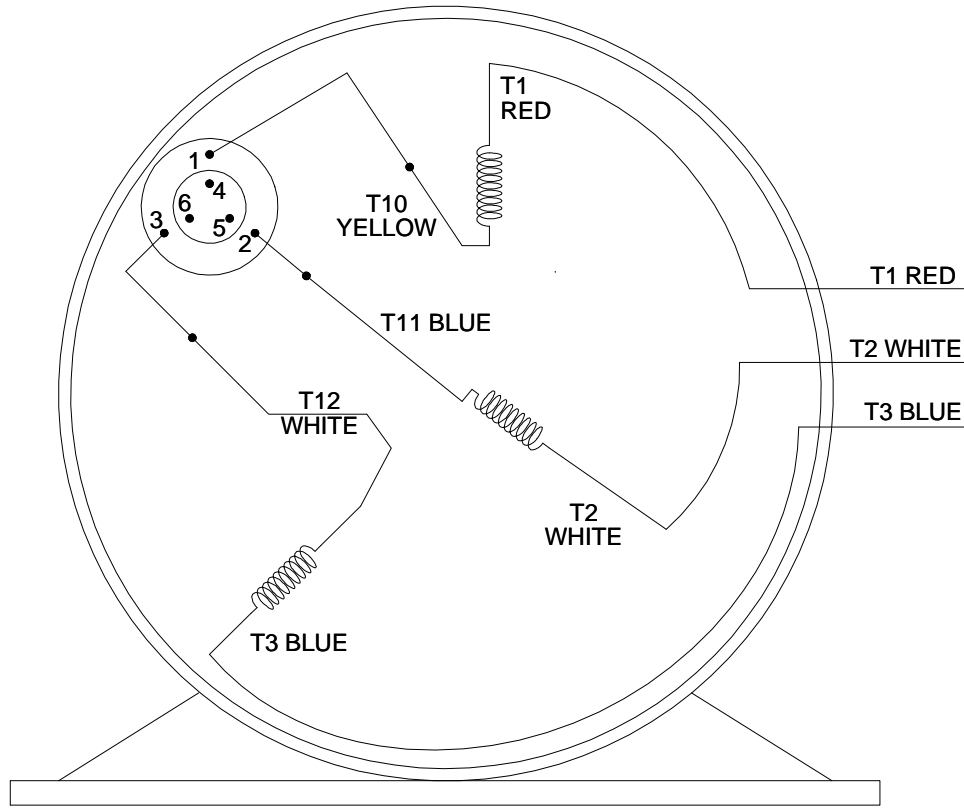
|                            |                                    |                        |                   |
|----------------------------|------------------------------------|------------------------|-------------------|
| Output HP                  | <b>1.50 Hp</b>                     | Output KW              | <b>1.1 kW</b>     |
| Frequency                  | <b>60 Hz</b>                       | Voltage                | <b>460 V</b>      |
| Current                    | <b>2.3 A</b>                       | Speed                  | <b>1725 rpm</b>   |
| Service Factor             | <b>1</b>                           | Phase                  | <b>3</b>          |
| Efficiency                 | <b>86.5 %</b>                      | Duty                   | <b>Continuous</b> |
| Insulation Class           | <b>B</b>                           | Design Code            | <b>A</b>          |
| KVA Code                   | <b>P</b>                           | Frame                  | <b>56C</b>        |
| Enclosure                  | <b>Totally Enclosed Fan Cooled</b> | Overload Protector     | <b>Automatic</b>  |
| Ambient Temperature        | <b>40 °C</b>                       | Drive End Bearing Size | <b>6205</b>       |
| Opp Drive End Bearing Size | <b>6203</b>                        | UL                     | <b>Recognized</b> |
| CSA                        | <b>Y</b>                           | CE                     | <b>Y</b>          |
| IP Code                    | <b>43</b>                          |                        |                   |

### Technical Specifications

|                       |                                    |                       |                        |
|-----------------------|------------------------------------|-----------------------|------------------------|
| Electrical Type       | <b>Squirrel Cage Induction Run</b> | Starting Method       | <b>Across The Line</b> |
| Poles                 | <b>4</b>                           | Rotation              | <b>Reversible</b>      |
| Mounting              | <b>Round</b>                       | Motor Orientation     | <b>Shaft Down</b>      |
| Drive End Bearing     | <b>Ball</b>                        | Opp Drive End Bearing | <b>Ball</b>            |
| Frame Material        | <b>Rolled Steel</b>                | Shaft Type            | <b>T</b>               |
| Overall Length        | <b>14.65 in</b>                    | Frame Length          | <b>8.65 in</b>         |
| Shaft Diameter        | <b>0.625 in</b>                    | Shaft Extension       | <b>1.88 in</b>         |
| Assembly/Box Mounting | <b>F1/F2 Capable</b>               |                       |                        |
| Outline Drawing       | <b>OL56100047-001</b>              | Connection Diagram    | <b>CDTS106</b>         |

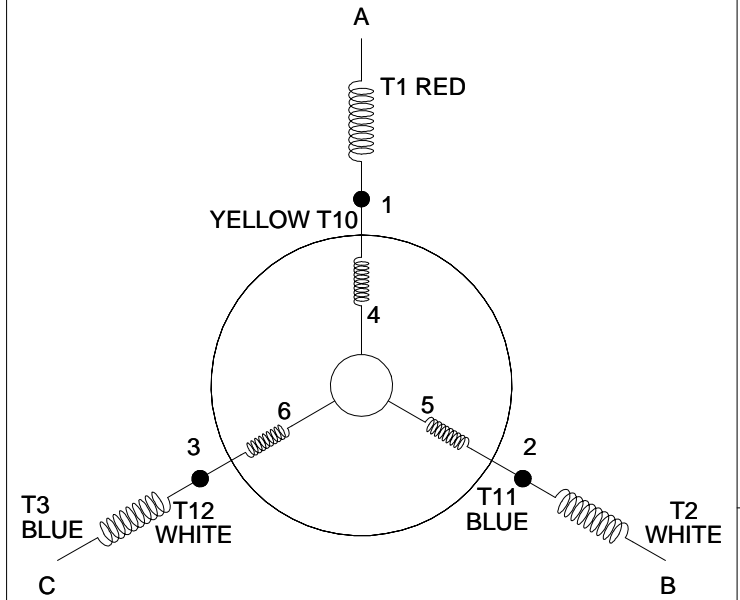
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### SINGLE VOLTAGE - THREE PHASE WITH OVERLOAD PROTECTOR



VIEW OF TERMINAL END

### CCW ROTATION



**NOTE:**

1. TO REVERSE ROTATION, INTERCHANGE ANY TWO LINE CONNECTIONS TO L1, L2, OR L3.
2. CONNECTION DIAGRAM NAMEPLATE: DD10040-001

|   |                          |                    |
|---|--------------------------|--------------------|
| DRAWING REVISION<br>C   | REVISION BY<br>A.ARREOLA | DATE<br>03-20-2018 |
| ECO<br>ECO-0141443  | APPROVED BY<br>A.ARREOLA | DATE<br>03-20-2018 |
| ECO DESCRIPTION<br>CONN DIAGRAM NAMEPLATE UPDATED   |                          |                    |
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|  |         |           |       |
|--|---------|-----------|-------|
| TOLERANCES UNLESS OTHERWISE SPECIFIED: |         |           |       |
| 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] |       |
| REMOVE BURRS & BREAK SHARP             |         |           |       |
| EDGES: .003/.015 [.076/.381]           |         |           |       |
| CORNER FILLETS: .02 [.51]              |         |           |       |
| MACHINED SURFACES: 125/3.2             |         |           |       |
| mm SHOWN IN [BRACKETS]                 |         |           |       |

|                              |                    |
|------------------------------|--------------------|
| DRAWN BY<br>G. RODRIGUEZ     | DATE<br>07-30-2015 |
| APPROVED BY<br>R. VALENZUELA | DATE<br>07-30-2015 |
| REFERENCE<br>SKT52A105383CA  |                    |
| THIRD ANGLE PROJECTION       |                    |

|                                      |                           |
|--------------------------------------|---------------------------|
| Regal Beloit America, Inc.           |                           |
| DESCRIPTION<br>CONN DIAGRAM-EXTERNAL |                           |
| MATERIAL                             | PROCESS/FINISH            |
| SIZE<br>B                            | DRAWING NUMBER<br>CDTS106 |
|                                      | SHEET<br>1 OF 1           |

CERTIFICATION DATA SHEET

Model#: 56T17F15659 A WINDING#: ZT4256 FR 5  
 CONN. DIAGRAM: CDT5106 ASSEMBLY: F1/F2 CAPABLE  
 OUTLINE: OL56100047-001

TYPICAL MOTOR PERFORMANCE DATA

| HP                       | KW          | SYNC. RPM          | F.L. RPM           | FRAME           | ENCLOSURE    | KVA CODE          | DESIGN  |              |           |
|--------------------------|-------------|--------------------|--------------------|-----------------|--------------|-------------------|---------|--------------|-----------|
| 1 1/2&1 1/2              | 1.12&1.12   | 1800               | 1725&1425          | 56C             | TEFC         | P                 | A       |              |           |
| PH                       | Hz          | VOLTS              | FL AMPS            | START TYPE      | DUTY         | INSL              | S.F     | AMB°C        | ELEVATION |
| 3                        | 60/50       | 460#380            | 2.3&2.7            | ACROSS THE LINE | CONTINUOUS   | B3                | 1.0/1.0 | 40           | 3300      |
| FULL LOAD EFF: 86.5&85.5 |             | 3/4 LOAD EFF: 85.5 | 1/2 LOAD EFF: 82.5 | GTD. EFF        |              | ELEC. TYPE        |         | NO LOAD AMPS |           |
| FULL LOAD PF: 71&75      |             | 3/4 LOAD PF: 62.5  | 1/2 LOAD PF: 49    | 84              |              | SQ CAGE IND RUN   |         | 1.5          |           |
| F.L. TORQUE              |             | LOCKED ROTOR AMPS  |                    | L.R. TORQUE     |              | B.D. TORQUE       |         | F.L. RISE°C  |           |
| 4.5 LB-FT                |             | 24                 |                    | 21.2 LB-FT 471  |              | 26 LB-FT 578      |         | 35           |           |
| SOUND PRESSURE @ 3 FT.   | SOUND POWER | ROTOR WK^2         | MAX. WK^2          | SAFE STALL TIME | STARTS /HOUR | APPROX. MOTOR WGT |         |              |           |
| 62 dBA                   | 72 dBA      | 0.14 LB-FT^2       | 10 LB-FT^2         | 20 SEC.         | 2            | 50 LBS.           |         |              |           |

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

| DE BRACKET TYPE | ODE BRACKET TYPE | MOUNT TYPE | ORIENTATION | SEVERE DUTY | HAZARDOUS LOCATION | DRIP COVER | SCREENS | PAINT         |
|-----------------|------------------|------------|-------------|-------------|--------------------|------------|---------|---------------|
| C-FACE          | STANDARD         | ROUND      | SHAFT DOWN  | FALSE       | NONE               | TRUE       | NONE    | GRAY (POWDER) |

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

| THERMO-PROTECTORS |            |          |          | THERMISTORS | CONTROL | SPACE /n HEATERS |
|-------------------|------------|----------|----------|-------------|---------|------------------|
| THERMOSTATS       | PROTECTORS | WDG RTDs | BRG RTDs |             |         |                  |
| NONE              | AUTOMATIC  | NONE     | NONE     | NONE        | FALSE   | NONE VOLTS       |

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: NONE NONE          |
| NONE P/N NONE             |
| NONE NONE                 |
| NONE FT-LB NONE V NONE Hz |

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