

# PRODUCT INFORMATION PACKET



Model No: 119565.00

Catalog No: 119565.00

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

Operational at 208-230/460 V @60HZ



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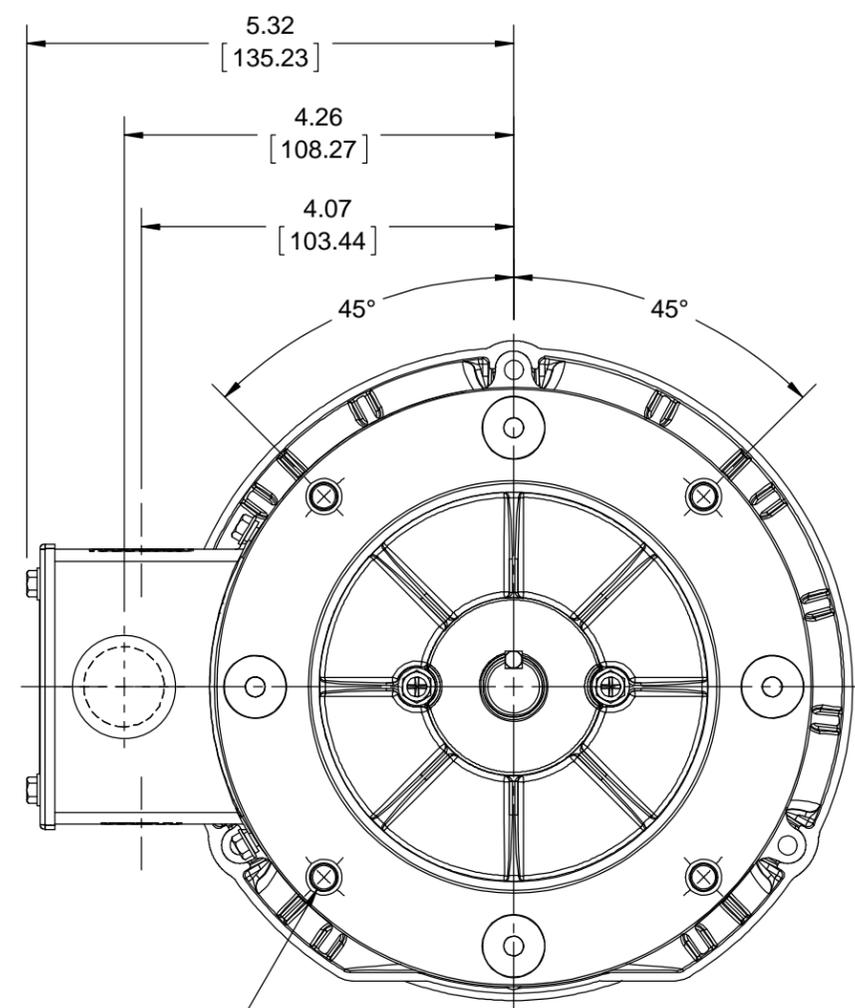
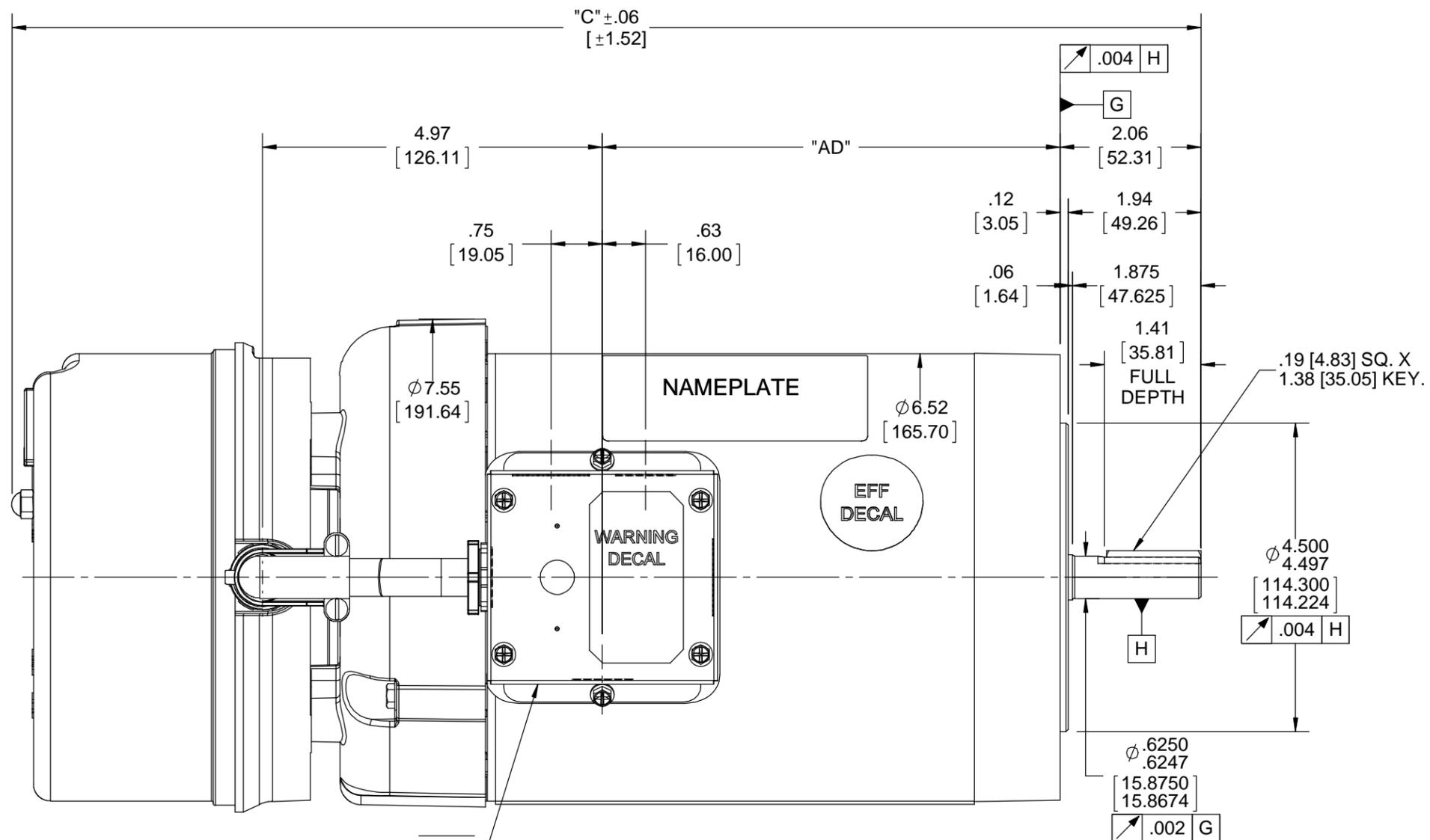


### Nameplate Specifications

|                        |                                |                            |                                    |
|------------------------|--------------------------------|----------------------------|------------------------------------|
| Phase                  | <b>3</b>                       | Output HP                  | <b>1.50 &amp; 1 Hp</b>             |
| Output KW              | <b>1.1 &amp; 0.75 kW</b>       | Voltage                    | <b>230/460 &amp; 190/380 V</b>     |
| Speed                  | <b>1750 &amp; 1450 rpm</b>     | Service Factor             | <b>1.15 &amp; 1.15</b>             |
| Frame                  | <b>56C</b>                     | Enclosure                  | <b>Totally Enclosed Fan Cooled</b> |
| Thermal Protection     | <b>Thermostat</b>              | Efficiency                 | <b>86.5 &amp; 82.5 %</b>           |
| Ambient Temperature    | <b>40 °C</b>                   | Frequency                  | <b>60 &amp; 50 Hz</b>              |
| Current                | <b>4.8/2.4 &amp; 3.6/1.8 A</b> | Power Factor               | <b>67.7</b>                        |
| Duty                   | <b>Continuous</b>              | Insulation Class           | <b>F</b>                           |
| Design Code            | <b>C</b>                       | KVA Code                   | <b>L</b>                           |
| Drive End Bearing Size | <b>6203</b>                    | Opp Drive End Bearing Size | <b>6203</b>                        |
| UL                     | <b>Recognized</b>              | CSA                        | <b>Y</b>                           |
| CE                     | <b>N</b>                       | IP Code                    | <b>43</b>                          |
| Number of Speeds       | <b>1</b>                       |                            |                                    |

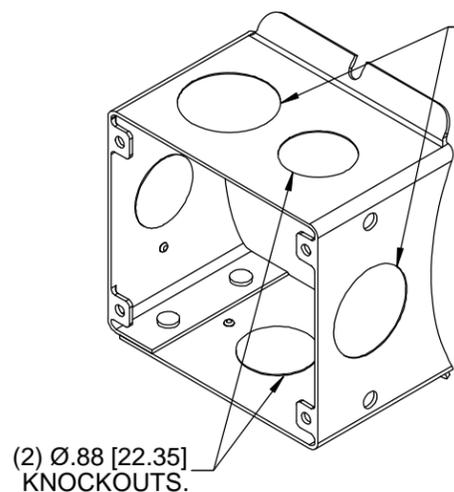
### Technical Specifications

|                       |                                    |                       |                        |
|-----------------------|------------------------------------|-----------------------|------------------------|
| Electrical Type       | <b>Squirrel Cage Induction Run</b> | Starting Method       | <b>Across The Line</b> |
| Poles                 | <b>4</b>                           | Rotation              | <b>Reversible</b>      |
| Resistance Main       | <b>9.12 Ohms</b>                   | Mounting              | <b>Round</b>           |
| Motor Orientation     | <b>Horizontal</b>                  | Drive End Bearing     | <b>Ball</b>            |
| Opp Drive End Bearing | <b>Ball</b>                        | Frame Material        | <b>Rolled Steel</b>    |
| Shaft Type            | <b>NEMA 56</b>                     | Overall Length        | <b>17.81 in</b>        |
| Frame Length          | <b>7.50 in</b>                     | Shaft Diameter        | <b>0.625 in</b>        |
| Shaft Extension       | <b>1.88 in</b>                     | Assembly/Box Mounting | <b>F1 ONLY</b>         |
| Connection Drawing    | <b>005010.28</b>                   | Outline Drawing       | <b>029084-750</b>      |



CONNECTION DECAL UNDER COVER WHEN REQUIRED.

(2) Ø1.13 [28.70] KNOCKOUTS.



KNOCKOUT LOCATION DETAIL VIEW.

NOTE:-  
1) GASKET THROUGHOUT.

| DASH NO. | "C"            | "AD"          |
|----------|----------------|---------------|
| 700      | 17.37 [441.19] | 6.69 [169.93] |
| 750      | 17.69 [449.33] | 7.19 [182.63] |

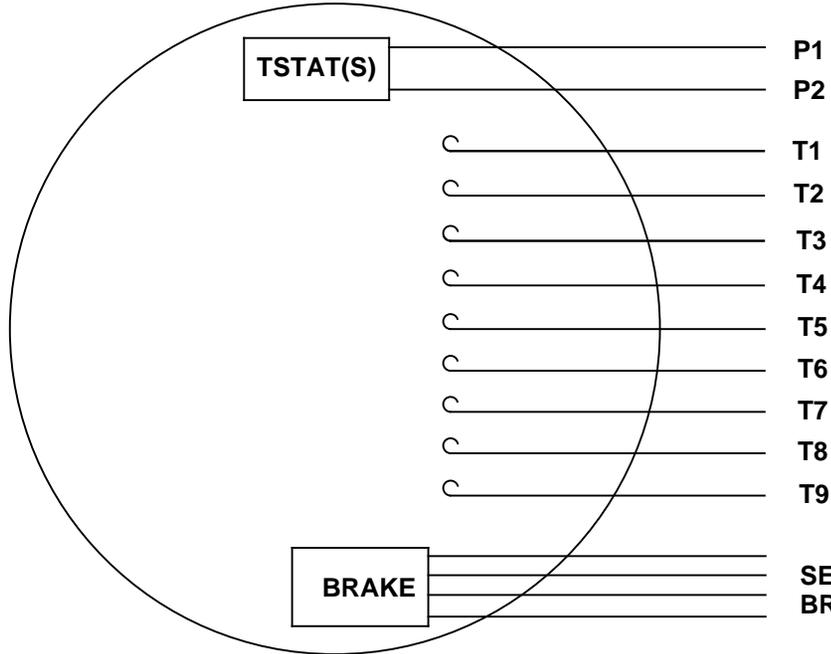
| DRAWING REVISION  | REVISION BY | DATE |
|---|-------------|------|
| A   |             |      |
| ECO   | APPROVED BY | DATE |
| ECO-0140840   |             |      |
| ECO DESCRIPTION   |             |      |
| OUTLINE CONVERSION PROJECT  |             |      |
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| 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 [0.076/.381] X 45° CORNER FILLETS: R.02 [0.51] |         |           |       |
| MACHINED SURFACES: 125 INCH 3.2 mm   |         |           |       |
| mm SHOWN IN [BRACKETS]   |         |           |       |

|                        |              |
|------------------------|--------------|
| DRAWN BY               | A SUPPANAVAR |
| DATE                   | 01/16/2018   |
| APPROVED BY            | PK           |
| DATE                   | 03/08/2018   |
| REFERENCE              | 028822       |
| THIRD ANGLE PROJECTION |              |

|                           |                |                            |        |
|---------------------------|----------------|----------------------------|--------|
|                           |                | Regal Beloit America, Inc. |        |
| DESCRIPTION               |                |                            |        |
| OUTLINE                   |                |                            |        |
| TEFC-'C' FACE- BRAKEMOTOR |                |                            |        |
| MATERIAL                  |                | PROCESS/FINISH             |        |
| SIZE                      | DRAWING NUMBER |                            | SHEET  |
| B                         | 029084         |                            | 1 OF 1 |

VIEW FROM OUTSIDE OF MOTOR AT SWITCH END.

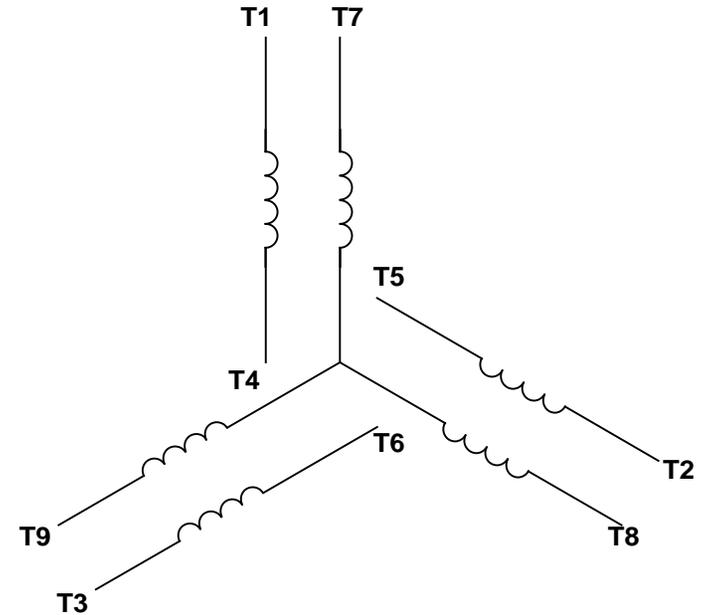


P1  
P2  
T1  
T2  
T3  
T4  
T5  
T6  
T7  
T8  
T9

**BRAKE**

**SEE TABLE FOR  
BRAKE CONNECTIONS**

**LINE LEADS**



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| BRAKE CONNECTION |                    |                    |                      |                      |                        |                       |
|------------------|--------------------|--------------------|----------------------|----------------------|------------------------|-----------------------|
| VOLTAGE          | STERNS BRAKE       |                    |                      | DINGS BRAKE          |                        |                       |
|                  | L1                 | L2                 | Join                 | L1                   | L2                     | Join                  |
| HIGH             | 1(RED)             | 2(RED)             | 3(BLACK)<br>4(BLACK) | 2(BLACK)             | 4(YELLOW)              | 1(YELLOW)<br>3(BLACK) |
| LOW              | 1(RED)<br>3(BLACK) | 2(RED)<br>4(BLACK) | -----                | 2(BLACK)<br>3(BLACK) | 1(YELLOW)<br>4(YELLOW) | -----                 |

| VOLTAGE | L1     | L2     | L3     | JOIN & INSULATE                  |
|---------|--------|--------|--------|----------------------------------|
| HIGH    | T1     | T2     | T3     | (T4, T7)<br>(T5, T8)<br>(T6, T9) |
| LOW     | T1, T7 | T2, T8 | T3, T9 | T4, T5, T6                       |

|                        |                       |              |                            |                             |        |  |                    |           |
|------------------------|-----------------------|--------------|----------------------------|-----------------------------|--------|--|--------------------|-----------|
|                        |                       |              |                            | TOLERANCES UNLESS SPECIFIED |        | ELECTRIC MOTORS<br>GEARMOTORS<br>AND DRIVES            | DRAWN RDW 09/14/99 |           |
|                        |                       |              |                            | DEC                         | INCHES |  | CHK                |           |
|                        |                       |              |                            | .X                          | ±.1    |  | APPR               |           |
|                        |                       |              |                            | .XX                         | ±.01   |  | SCALE              | 1:1       |
|                        |                       |              |                            | .XXX                        | ±.005  |  | REF                | 005010-15 |
| --                     | REDRAWN IN SOLIDWORKS | VJB 02/08/11 |                            | .XXXX                       | ±.0005 | TITLE EXTERNAL WIRING DIAGRAM<br>3 PHASE W/O PROTECTOR |                    | FMF       |
| NO                     | REVISION              | BY & DATE    | CHK                        | ANG                         | ±1/2°  | FINISH CAMFAB INC.                                     |                    | PAGE OF   |
| THIRD ANGLE PROJECTION |                       |              | RFP                        | PREV                        | SIZE   | DRAWING NO   |                    | REV       |
|                        |                       |              | NETWORK FILE NAME 00501028 |                             |        | A  | 005010-28          | --        |

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



DATA VOLTS: 460

**CERTIFICATION DATA SHEET**

CONN. DIAGRAM: 005010.28  
 OUTLINE: 028822-750  
 WINDING: T634341

CAT #: 119565.00

FR 3

**TYPICAL MOTOR PERFORMANCE DATA**

| HP  | KW  | SYNC RPM | FL RPM | FRAME | ENCLOSURE | TYPE | KVA CODE | DESIGN |
|-----|-----|----------|--------|-------|-----------|------|----------|--------|
| 1.5 | 1.1 | 1800     | 1750   | 56C   | TEFC      | TFR  | L        | B      |

| PH | HZ    | VOLTS               | AMPS                 | START TYPE      | DUTY | INSL | S.F. | AMB | ELEV. |
|----|-------|---------------------|----------------------|-----------------|------|------|------|-----|-------|
| 3  | 60/50 | 208-230/460#190/380 | 4.4-4.3/2.15&3.6/1.8 | ACROSS THE LINE | CONT | F    | 1.15 | 40  | 3300  |

| F.L. EFF | 86.5 | 3/4 LD EFF | 87.2 | 1/2 LD EFF | 84.0 | GTD EFF | ELECT. TYPE     |
|----------|------|------------|------|------------|------|---------|-----------------|
| F.L. PF  | 67.7 | 3/4 LD PF  | 63.0 | 1/2 LD PF  | 55.0 | 0.0     | SQ CAGE IND RUN |

| F.L. TORQUE | LR AMPS @ 460 V | L.R. TORQUE     | B.D. TORQUE     | F.L. RISE (°C) |
|-------------|-----------------|-----------------|-----------------|----------------|
| 4.5 LB-FT   | 18.5            | 17.2 LB-FT 382% | 20.4 LB-FT 453% | 45             |

| PRESSURE @ 3 | POWER  | ROTOR WK²   | MAX. LOAD WK² | SAFE STALL TIME | STARTS/HOUR | MOTOR WGT |
|--------------|--------|-------------|---------------|-----------------|-------------|-----------|
| 65 dBA       | 74 dBA | 0.14 LB-FT² | 0.1 LB-FT²    | 10 SEC.         | 3           | 0 LB.     |

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

| DE BRACKET TYPE | ODE BRACKET TYPE | MOUNT TYPE | MOTOR ORIENTATION | SEVERE DUTY | HAZARDOUS LOCATION | DRIP COVER | SCREENS | PAINT             |
|-----------------|------------------|------------|-------------------|-------------|--------------------|------------|---------|-------------------|
| C-FACE          | BRAKE            | ROUND      | HORIZONTAL        | NO          | NONE               | NO         | NONE    | IN - LEESON WATTS |

| BEARINGS |      | GREASE     | SHAFT TYPE  | SPECIAL DE | SPECIAL ODE | SHAFT MATERIAL           | FRAME MATERIAL |
|----------|------|------------|-------------|------------|-------------|--------------------------|----------------|
| DE       | ODE  | POLYREX EM | STANDARD 56 | NONE       | NONE        | 1144 STRESSPROOF (C-223) | ROLLED STEEL   |
| BALL     | BALL |            |             |            |             |                          |                |
| 6203     | 6203 |            |             |            |             |                          |                |

| THERMOSTATS  | PROTECTORS | WDG RTD's | BRG RTD's | THERMISTORS | CONTROL | SPACE HEATERS |
|--------------|------------|-----------|-----------|-------------|---------|---------------|
| TSTATS (N/C) | NOT        | NONE      | NONE      | NONE        | FALSE   | NA            |

| R1 (ohms/ph) | R2 (ohms/ph) | X1 (ohms/ph) | X2 (ohms/ph) | Xm (ohms/ph) | VIBRATION (in/sec) | FLOAT |
|--------------|--------------|--------------|--------------|--------------|--------------------|-------|
| 0            | 0            | 0            | 0            | 0            | 0.150              | ODE   |

|                                 |                           |  |
|---------------------------------|---------------------------|--|
| *<br>N<br>O<br>T<br>E<br>S<br>* | INVERTER TORQUE: NONE     |  |
|                                 | INV. HP SPEED RANGE: NONE |  |
|                                 | ENCODER: NONE             |  |
|                                 | NONE                      |  |
|                                 | NONE                      |  |

|                 |                              |        |
|-----------------|------------------------------|--------|
| DATE: 1/29/2018 | BRAKE: STEARNS               |        |
|                 | 56,000                       | NEMA 2 |
|                 | FT-LB: 10                    |        |
|                 | VOLTAGE: 208-230/460-190/380 | HZ:    |

UL: Y-(LEESON UL REC)

Data Sheet

Date: 1/29/2018

119565.00



Data @ 460 V

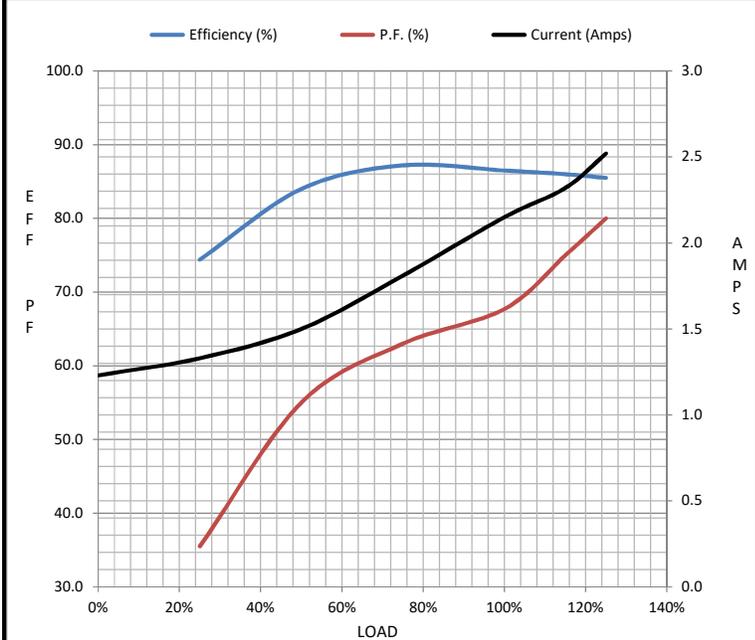
Motor Load Data

| Load           | 0%   | 25%  | 50%  | 75%  | 100% | 115%  | 125% | LR   |
|----------------|------|------|------|------|------|-------|------|------|
| Current (Amps) | 1.23 | 1.33 | 1.50 | 1.81 | 2.15 | 2.32  | 2.52 | 18.5 |
| 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 |
|----------------|------|---------|------|-------|------|
| Speed (RPM)    | 0    | 900     | 1600 | 1750  | 1800 |
| Current (Amps) | 18.5 | 16.1    | 12.1 | 2.15  | 1.23 |
| Torque (ft-lb) | 17.2 | 16.0    | 20.4 | 4.5   | 0.00 |

| Information Block           |                         |        |        |        |
|-----------------------------|-------------------------|--------|--------|--------|
| HP                          | 1.5                     |        |        |        |
| Sync. RPM                   | 1800                    |        |        |        |
| Frame                       | 140                     |        |        |        |
| Enclosure                   | TEFC                    |        |        |        |
| Construction                | TFR                     |        |        |        |
| Voltage                     | 208-230/460#190/380 V   |        |        |        |
| Frequency                   | 60 Hz                   |        |        |        |
| Design                      | B                       |        |        |        |
| LR Code letter              | L                       |        |        |        |
| Service Factor              | 1.15                    |        |        |        |
| Temp Rise @ FL              | 45 °C                   |        |        |        |
| Duty                        | CONT                    |        |        |        |
| Ambient                     | 40 °C                   |        |        |        |
| Elevation                   | 1,000 feet              |        |        |        |
| Rotor/Shaft wk <sup>2</sup> | 0.14 Lb-Ft <sup>2</sup> |        |        |        |
| Ref Wdg                     | T634341 FR              |        |        |        |
| Sound Pressure @ 1M         | 65 dBA                  |        |        |        |
| VFD Rating                  | NONE                    |        |        |        |
| Outline Dwg                 | 028822-750              |        |        |        |
| Conn. Diag                  | 005010.28               |        |        |        |
| Additional Specifications:  |                         |        |        |        |
| 0                           |                         |        |        |        |
| 0                           |                         |        |        |        |
| EQUIV CKT (OHMS / PHASE)    |                         |        |        |        |
| R1                          | R2                      | X1     | X2     | Xm     |
| 0.0000                      | 0.0000                  | 0.0000 | 0.0000 | 0.0000 |



Speed - Torque Curve

