

# PRODUCT INFORMATION PACKET



Model No: 119553.00  
Catalog No: 119553.00  
1 HP Unit Handling Motor, 3 phase, 1800 RPM, 230/460 V, 56HC Frame, TEFC  
Unit Handling Motors



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### Nameplate Specifications

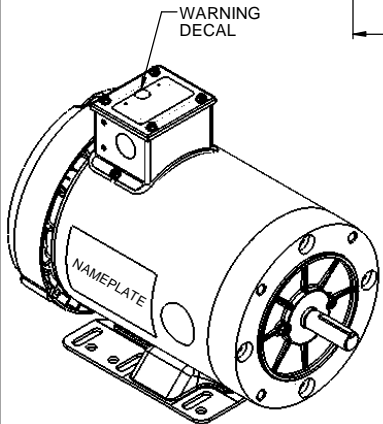
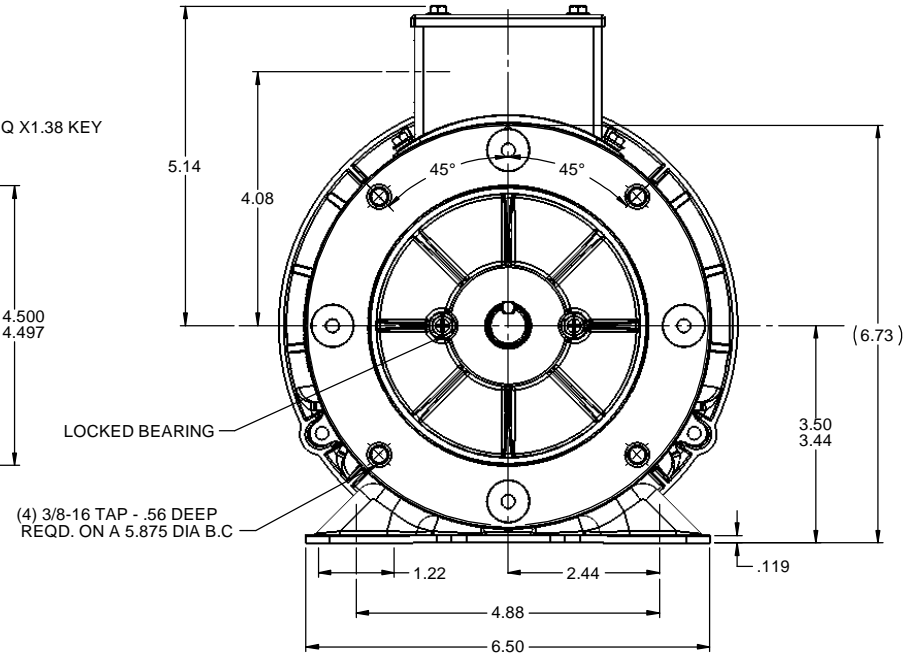
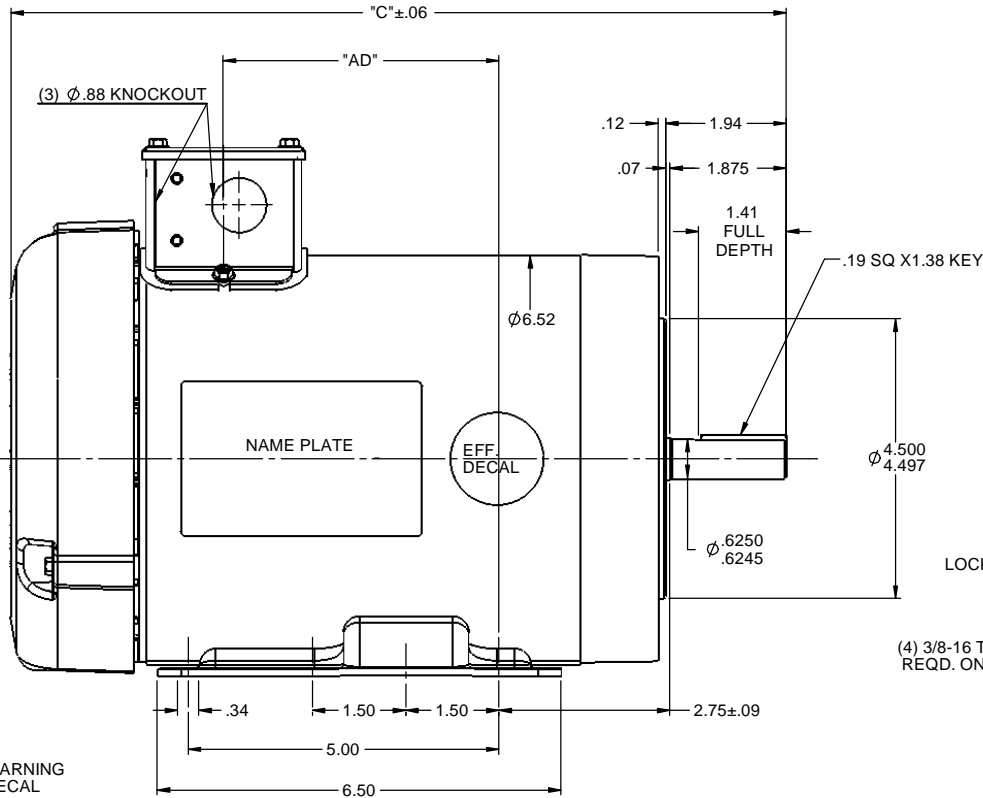
|                        |                   |                            |                                    |
|------------------------|-------------------|----------------------------|------------------------------------|
| Output HP              | <b>1 Hp</b>       | Output KW                  | <b>0.75 kW</b>                     |
| Frequency              | <b>60 Hz</b>      | Voltage                    | <b>230/460 V</b>                   |
| Current                | <b>3.2/1.6 A</b>  | Speed                      | <b>1760 rpm</b>                    |
| Service Factor         | <b>1.15</b>       | Phase                      | <b>3</b>                           |
| Efficiency             | <b>85.5 %</b>     | Power Factor               | <b>68.5</b>                        |
| Duty                   | <b>Continuous</b> | Insulation Class           | <b>F</b>                           |
| Design Code            | <b>B</b>          | KVA Code                   | <b>N</b>                           |
| Frame                  | <b>56HC</b>       | Enclosure                  | <b>Totally Enclosed Fan Cooled</b> |
| Thermal Protection     | <b>No</b>         | Ambient Temperature        | <b>40 °C</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>                          |

### 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>12.96 Ohms</b>                  | Mounting              | <b>Rigid base</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>12.48 in</b>        |
| Frame Length          | <b>7.00 in</b>                     | Shaft Diameter        | <b>0.625 in</b>        |
| Shaft Extension       | <b>1.94 in</b>                     | Assembly/Box Mounting | <b>F3</b>              |
| Outline Drawing       | <b>607-0029-700</b>                | Connection Drawing    | <b>005010.01</b>       |

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MAXIMUM FACE RUNOUT TO BE .004 T.I.R  
 MAXIMUM PILOT ECCENTRICITY .004 T.I.R  
 PERMISSIBLE SHAFT RUNOUT .002 T.I.R

| DASH NO. | "C"   | "AD" |
|----------|-------|------|
| 700      | 12.48 | 4.44 |
| 750      | 12.98 | 4.94 |
| 800      | 13.48 | 5.44 |
| 850      | 13.98 | 5.94 |
| 900      | 14.48 | 6.44 |

NOTE:  
 1) GASKETS THROUGHOUT

| TOLERANCES UNLESS SPECIFIED |                        | LEESON    | ELECTRIC MOTORS<br>GEARMOTORS<br>AND DRIVES | DRAWN JD 11/05/2011 |
|-----------------------------|------------------------|-----------|---|---------------------|
| DEC                         | INCHES                 |           |   |                     |
| X                           | ±.1                    |           |   | APPR                |
| XX                          | ±.03                   |           | TITLE OUTLINE - 56H FRAME                   | SCALE 1:2           |
| XXX                         | ±.005                  |           | C-FACE T.E.F.C                              | REF 607-0027        |
| XXXX                        | ±.0005                 |           | MATL GENERAL PURPOSE                        | FMF 117707.00       |
| NO                          | REVISION               | BY & DATE | FINISH                                      | PAGE OF             |
|                             | THIRD ANGLE PROJECTION |           | PREV  | SIZE DRAWING NO     |
|                             |                        |           | NETWORK FILE NAME                           | REV                 |

005010-01

VIEW FROM OUTSIDE OF MOTOR AT SWITCH END.



| 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<br>UNLESS SPECIFIED |          | <b>REGAL</b> ™ <b>Regal Beloit America, Inc.</b> |       | DRAWN RDW 04/12/02    |           |             |      |
|  |                       |  |  | DEC.                           | INCHES   |  |       | CHK                   |           |             |      |
|  |                       |  |  | .X                             | ±.1      |  |       | APPD                  |           |             |      |
|  |                       |  |  | .XX                            | ±.01     |  |       | SCALE 1=1             |           |             |      |
|  |                       |  |  | .XXX                           | ±.005    | TITLE  |       | REF FIG.2-51          |           |             |      |
| A  | UPDATED TO REGAL LOGO |  |  | SAJ                            | 06/26/15 | AJY  | .XXXX | MAT'L. DECAL - 004014 |           |             |      |
| NO.  | REVISION              |  |  | BY & DATE                      | CHK      | ANG  | ±1/2" | FINISH                |           |             |      |
| THIS DRAWING IN DESIGN AND DETAIL IS OUR PROPERTY AND MUST NOT BE USED EXCEPT IN CONNECTION WITH OUR WORK ALL RIGHTS OF DESIGN AND INVENTION ARE RESERVED THIS IS AN ELECTRONICALLY GENERATED DOCUMENT - DO NOT SCALE THIS PRINT |                       |  |  | RFP                            | 04/12/02 | CAD FILE   |       | 00501001              | SIZE      | DRAWING NO. | REV. |
|  |                       |  |  | DIST                           | BRF-NLV  |  |       | A                     | 005010-01 | A           |      |



1051 CHEYENNE AVE.  
 GRAFTON, WI 53024  
 PH. 262-277-8810

DATA VOLTS: 460

**CERTIFICATION DATA SHEET**

CONN. DIAGRAM:005010.01  
 OUTLINE: 607-0029-700  
 WINDING: T634342

CAT #: 119553.00

FR 3

**TYPICAL MOTOR PERFORMANCE DATA**

| HP | KW   | SYNC RPM | FL RPM   | FRAME           | ENCLOSURE | TYPE | KVA CODE | DESIGN |       |
|----|------|----------|----------|-----------------|-----------|------|----------|--------|-------|
| 1  | 0.75 | 1800     | 1760     | 56HC            | TEFC      | TFR  | N        | B      |       |
| PH | HZ   | VOLTS    | AMPS     | START TYPE      | DUTY      | INSL | S.F.     | AMB    | ELEV. |
| 3  | 60   | 230/460  | 3.1/1.55 | ACROSS THE LINE | CONT      | F    | 1.15     | 40     | 3300  |

| F.L. EFF | 85.5 | 3/4 LD EFF | 85.4 | 1/2 LD EFF | 79.6 | GTD EFF | 0.0 | ELECT. TYPE | SQ CAGE IND RUN |
|----------|------|------------|------|------------|------|---------|-----|-------------|-----------------|
| F.L. PF  | 68.5 | 3/4 LD PF  | 61.5 | 1/2 LD PF  | 51.5 |         |     |             |                 |

| F.L. TORQUE | LR AMPS @ 460 V | L.R. TORQUE | 400% | B.D. TORQUE | 15.8 LB-FT | F.L. RISE (° C) | 38 |
|-------------|-----------------|-------------|------|-------------|------------|-----------------|----|
| 3.0 LB-FT   | 14.0            | 12.0 LB-FT  |      | 527%        |            | MOTOR WGT       |    |

| PRESSURE @ 3 | SOUND  | POWER | ROTOR WK <sup>2</sup>   | MAX. LOAD WK <sup>2</sup> | SAFE STALL TIME | STARTS/HOUR | MOTOR WGT |
|--------------|--------|-------|-------------------------|---------------------------|-----------------|-------------|-----------|
| 65 dbA       | 74 dbA |       | 0.12 LB-FT <sup>2</sup> | 0 LB-FT <sup>2</sup>      | 10 SEC.         | 0           | 0 LB.     |

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

| DE BRACKET TYPE | ODE BRACKET TYPE | MOUNT TYPE | MOTOR ORIENTATION | SEVERE DUTY | HAZARDOUS LOCATION | DRIP COVER | SCREENS | PAINT       |
|-----------------|------------------|------------|-------------------|-------------|--------------------|------------|---------|-------------|
| C-FACE          | STANDARD         | RIGID      | HORIZONTAL        | NO          | NONE               | NO         | NONE    | WATTS/SAVER |

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

| THERMOSTATS | PROTECTORS | WDG RTD's | BRG RTD's | THERMISTORS | CONTROL | SPACE HEATERS |
|-------------|------------|-----------|-----------|-------------|---------|---------------|
| NONE        | 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            | 0.080              | ODE   |

|                                 |  |  |
|---------------------------------|--|--|
| *<br>N<br>O<br>T<br>E<br>S<br>* |  | INVERTER TORQUE: NONE<br>INV. HP SPEED RANGE: NONE |
|                                 |  | ENCODER: NONE                                      |
|                                 |  | BRAKE: NONE  |
|                                 |  | FT-LB: N/A   |
|                                 |  | VOLTAGE: NONE                                      |
|                                 |  | NONE PPR   |

|                 |                       |
|-----------------|-----------------------|
| DATE: 8/21/2018 | UL: Y-(LEESON UL REC) |
|-----------------|-----------------------|

Data Sheet

Date: 8/21/2018

119553.00



Data @ 460 V

Motor Load Data

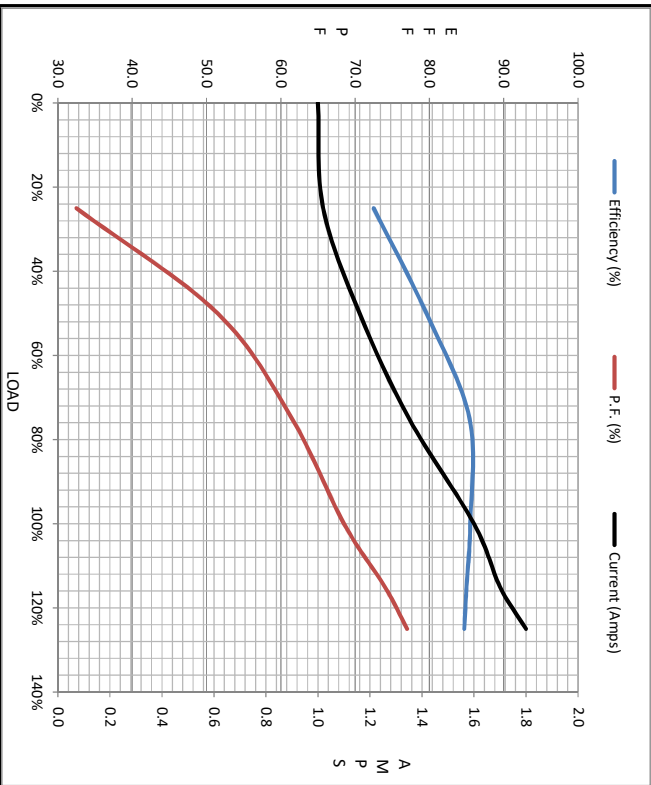
| Load           | 0%   | 25%  | 50%  | 75%  | 100% | 115% | 125% | LR   |
|----------------|------|------|------|------|------|------|------|------|
| Current (Amps) | 1.00 | 1.02 | 1.16 | 1.35 | 1.60 | 1.70 | 1.80 | 14.0 |
| Torque (ft-lb) | 0.00 | 0.75 | 1.50 | 2.25 | 3.0  | 3.5  | 3.8  | 12.0 |
| RPM            | 1800 | 1789 | 1779 | 1769 | 1760 | 1750 | 1745 | 0    |
| P.F. (%)       | 8.0  | 32.5 | 51.5 | 61.5 | 68.5 | 74.0 | 77.0 | 41.0 |

Motor Speed Data

|                | LR   | Pull-Up | BD   | Rated | Idle |
|----------------|------|---------|------|-------|------|
| Speed (RPM)    | 0    | 900     | 1170 | 1760  | 1800 |
| Current (Amps) | 14.0 | 13.0    | 9.9  | 1.60  | 1.00 |
| Torque (ft-lb) | 12.0 | 11.9    | 15.8 | 3.0   | 0.00 |

Information Block

|                             |                         |        |        |        |
|-----------------------------|-------------------------|--------|--------|--------|
| HP                          | 1.0                     |        |        |        |
| Sync. RPM                   | 1800                    |        |        |        |
| Frame                       | 140                     |        |        |        |
| Enclosure                   | TEFC                    |        |        |        |
| Construction                | TFR                     |        |        |        |
| Voltage                     | 230/460 V               |        |        |        |
| Frequency                   | 60 Hz                   |        |        |        |
| Design                      | B                       |        |        |        |
| LR Code letter              | N                       |        |        |        |
| Service Factor              | 1.15                    |        |        |        |
| Temp Rise @ FL              | 38 °C                   |        |        |        |
| Duty                        | CONT                    |        |        |        |
| Ambient                     | 40 °C                   |        |        |        |
| Elevation                   | 1,000 feet              |        |        |        |
| Rotor/Shaft wk <sup>2</sup> | 0.12 Lb-Ft <sup>2</sup> |        |        |        |
| Ref Wdg                     | T634342 FR              |        |        |        |
| Sound Pressure @ 1M         | 65 dBA                  |        |        |        |
| VFD Rating                  | NONE                    |        |        |        |
| Outline Dwg                 | 607-0029-700            |        |        |        |
| Conn. Diag                  | 005010.01               |        |        |        |
| 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

