

# PRODUCT INFORMATION PACKET



Model No: 121871.00

Catalog No: 121871.00

White Duck™ General Purpose Motor, 1.50 & 1 HP, 3 Ph, 60 & 50 Hz, 230/460 & 190/380 V,  
1800 & 1500 RPM, 145TC Frame, TEFC

**Operational at 208-230/460 V @60HZ**



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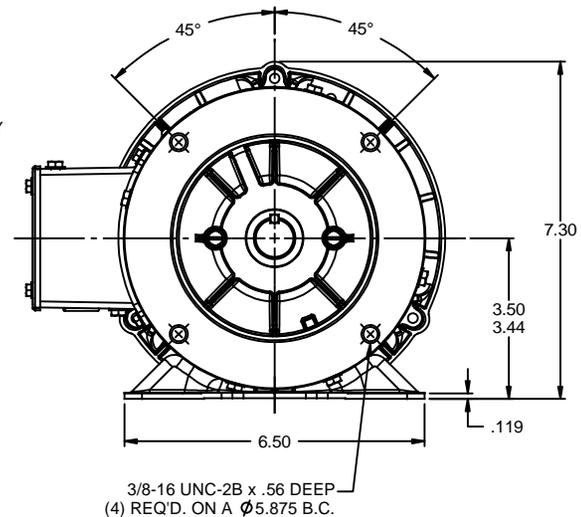
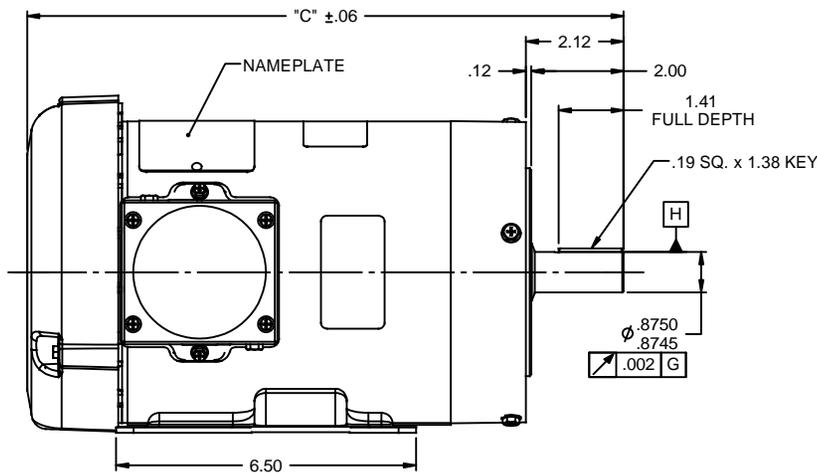
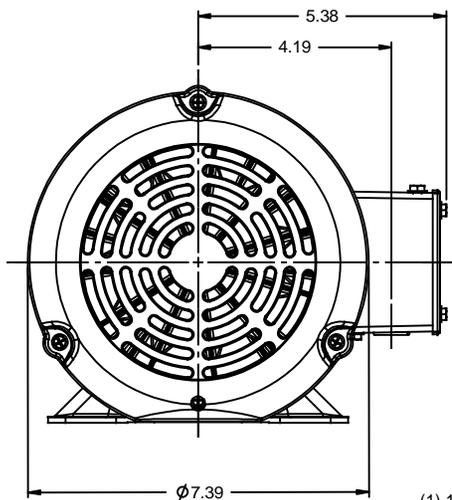


### Nameplate Specifications

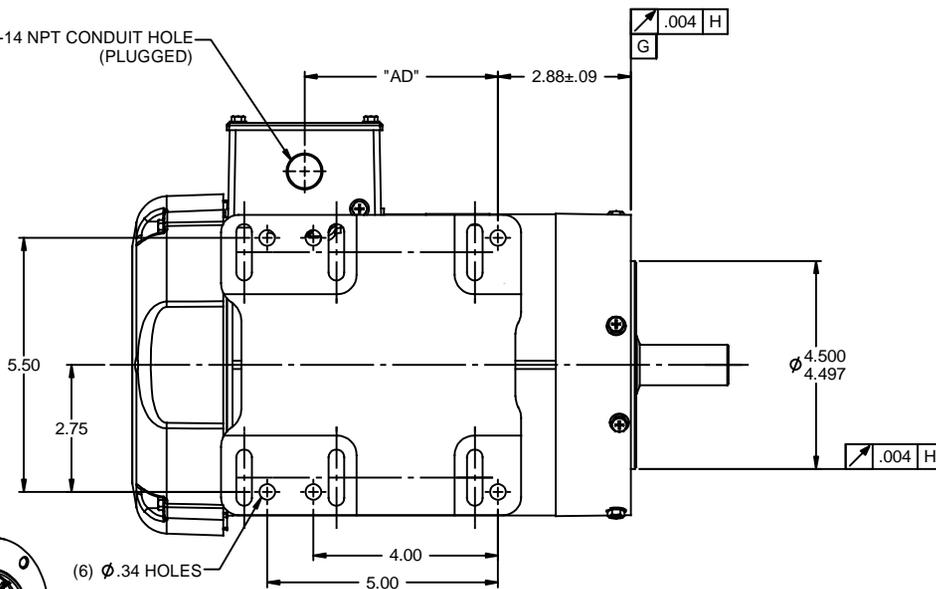
|                        |                                |                            |                                    |
|------------------------|--------------------------------|----------------------------|------------------------------------|
| Phase                  | <b>3</b>                       | 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>145TC</b>                   | Enclosure                  | <b>Totally Enclosed Fan Cooled</b> |
| Thermal Protection     | <b>No Protection</b>           | Efficiency                 | <b>86.5 &amp; 86.5 %</b>           |
| Ambient Temperature    | <b>40 °C</b>                   | Frequency                  | <b>60 &amp; 50 Hz</b>              |
| Current                | <b>4.8/2.4 &amp; 5.6/2.8 A</b> | Power Factor               | <b>67.7</b>                        |
| Duty                   | <b>Continuous</b>              | Insulation Class           | <b>F</b>                           |
| Design Code            | <b>B</b>                       | KVA Code                   | <b>L</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>55</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>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>T</b>                           | Overall Length        | <b>13.68 in</b>        |
| Frame Length          | <b>7.75 in</b>                     | Shaft Diameter        | <b>0.875 in</b>        |
| Shaft Extension       | <b>2.25 in</b>                     | Assembly/Box Mounting | <b>F1 ONLY</b>         |
| Outline Drawing       | <b>607-0003-775</b>                | Connection Drawing    | <b>005010.01</b>       |



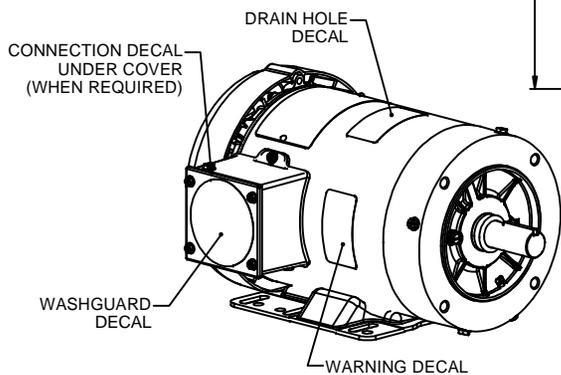
(1) 1/2-14 NPT CONDUIT HOLE (PLUGGED)



### WASHGUARD MOTOR

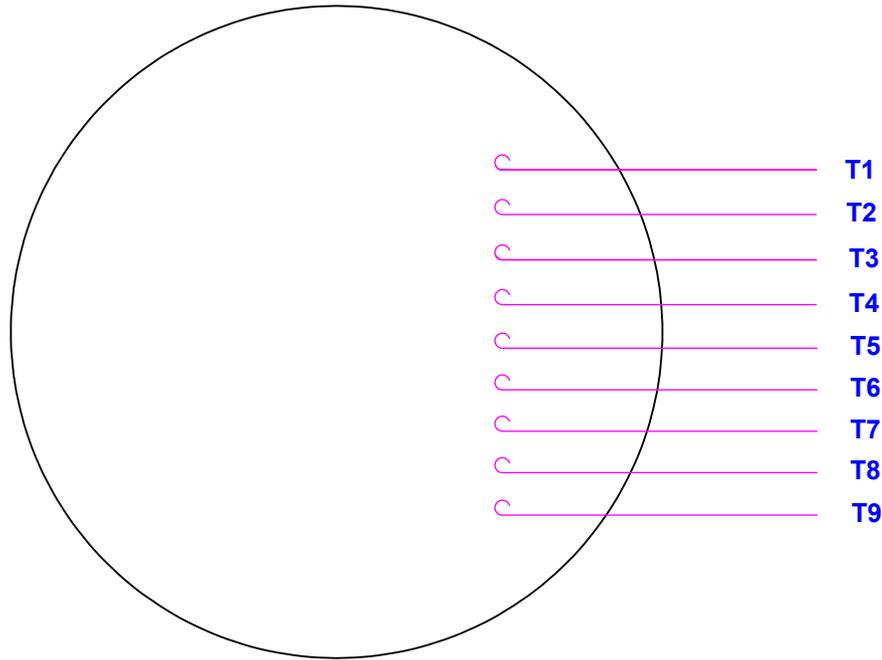
- SPECIAL FEATURES:
1. SHAFT SEALS & V-RING.
  2. PLUGGED DRAIN HOLES IN ENDBELLS & CONDUIT BOX.
  3. BUNA-N GASKETS THROUGHOUT.
  4. STAINLESS STEEL SHAFT, HARDWARE & NAMEPLATE.

| DASH NO. | "C"   | "AD" |
|----------|-------|------|
| 700      | 12.93 | 4.19 |
| 750      | 13.43 | 4.69 |
| 775      | 13.68 | 4.94 |
| 800      | 13.93 | 5.19 |
| 850      | 14.43 | 5.69 |

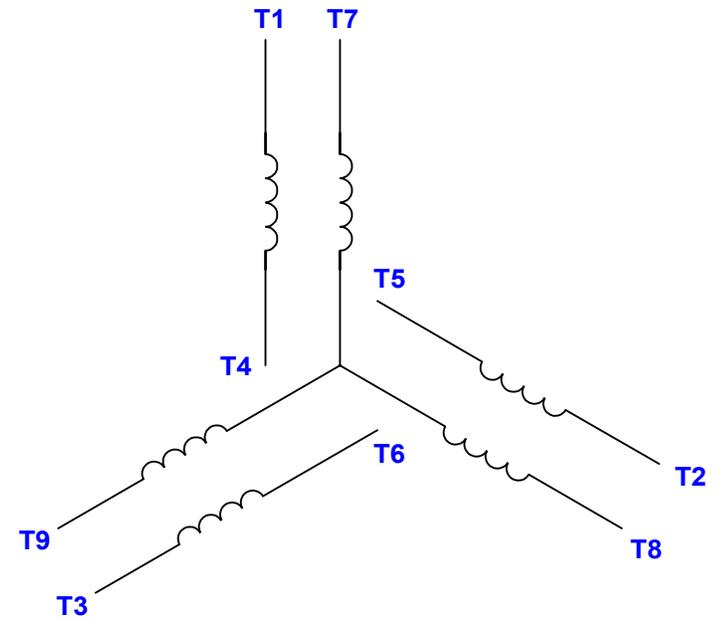


| TOLERANCES UNLESS SPECIFIED |                        | LEESON    | ELECTRIC MOTORS GEARMOTORS AND DRIVES | DRAWN PG 02/01/11 |                          |
|-----------------------------|------------------------|-----------|---------------------------------------|-------------------|--------------------------|
| DEC                         | INCHES                 |           |                                       | CHK               | APPR                     |
| x                           | ±.1                    |           |                                       |                   |                          |
| .xx                         | ±.03                   |           | TITLE OUTLINE - 140TC FRAME           |                   | SCALE 3:8                |
| .xxx                        | ±.005                  |           | TEFC - RIGID "C" FACE                 |                   | REF 028811               |
| .xxxX                       | ±.0005                 |           | MATL WASHGUARD                        |                   | FMF 121867.00            |
| NO                          | REVISION               | BY & DATE | CHK ANG ±1/2"                         | FINISH            | PAGE OF                  |
|                             | THIRD ANGLE PROJECTION |           | RFP                                   | PREV              | SIZE DRAWING NO          |
|                             |                        |           | NETWORK FILE NAME 607-0003            |                   | <b>B</b> <b>607-0003</b> |
|                             |                        |           |                                       |                   | REV                      |

VIEW FROM OUTSIDE OF MOTOR AT SWITCH END.



LINE LEADS



| 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                       |

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|                        |  |               |                   |                             |          |                               |            |
|------------------------|--|---------------|-------------------|-----------------------------|----------|-------------------------------|------------|
|                        |  |               |                   | TOLERANCES UNLESS SPECIFIED |          | DRAWN RDW 04/12/02            |            |
|                        |  |               |                   | DEC                         | INCHES   | CHK                           |            |
|                        |  |               |                   | .X                          | ±.1      | APPR                          |            |
| 12                     | CHG FROM LEESON TO RRX TEMPLATE AS PER ECR-0237142 | KVDG 09/19/24 | DS                | .XX                         | ±.01     | TITLE EXTERNAL WIRING DIAGRAM |            |
| --                     | REDRAWN IN SOLIDWORKS                              | VJB 02/08/11  |                   | .XXX                        | ±.005    | 3 PHASE W/O PROTECTOR         |            |
| 11                     | ADD REV TO MATCH ORACLE                            | KJH 06/08/09  | MDN               | .XXX                        | ±.0005   | MAT'L DECAL - 004014          |            |
| NO                     | REVISION   | BY & DATE     | CHK               | ANG                         | ±1/2°    | FINISH                        |            |
|                        |  |               | RFP               | 04/12/02                    | PREV     | SIZE                          | DRAWING NO |
| THIRD ANGLE PROJECTION |  |               | NETWORK FILE NAME |                             | 00501001 | A                             | 005010-01  |
|                        |  |               |                   |                             |          |                               | REV        |
|                        |  |               |                   |                             |          |                               | 12         |

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



DATA VOLTS: 460

**CERTIFICATION DATA SHEET**

CONN. DIAGRAM: 005010.01  
 OUTLINE: 607-0003-775  
 WINDING: T634341

CAT #: 121871.00

FR 3

**TYPICAL MOTOR PERFORMANCE DATA**

| HP  | KW  | SYNC RPM | FL RPM | FRAME | ENCLOSURE | TYPE | KVA CODE | DESIGN |
|-----|-----|----------|--------|-------|-----------|------|----------|--------|
| 1.5 | 1.1 | 1800     | 1750   | 145TC | TEFC      | TFR  | L        | B      |

| PH | HZ    | VOLTS           | AMPS             | START TYPE      | DUTY | INSL | S.F. | AMB | ELEV. |
|----|-------|-----------------|------------------|-----------------|------|------|------|-----|-------|
| 3  | 60/50 | 230/460#190/380 | 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          | STANDARD         | RIGID      | HORIZONTAL        | NO          | NONE               | NO         | NONE    | HITE - LEESON (EPO |

| BEARINGS |      | GREASE     | SHAFT TYPE | SPECIAL DE | SPECIAL ODE | SHAFT MATERIAL        | FRAME MATERIAL |
|----------|------|------------|------------|------------|-------------|-----------------------|----------------|
| DE       | ODE  | POLYREX EM | T          | NONE       | NONE        | 303 STAINLESS (C-501) | ROLLED STEEL   |
| BALL     | BALL |            |            |            |             |                       |                |
| 6205     | 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<br>NONE<br>NONE                      |  |  |  |  |  |
|                                 | NONE PPR   |  |  |  |  |  |
|                                 | BRAKE: NONE<br>NONE NONE                           |  |  |  |  |  |
|                                 | FT-LB: NA<br>VOLTAGE: NONE HZ:                     |  |  |  |  |  |

DATE: 1/31/2018

UL: Y-(LEESON UL REC)

Data Sheet

Date: 1/31/2018

121871.00



Data @ **460 V**

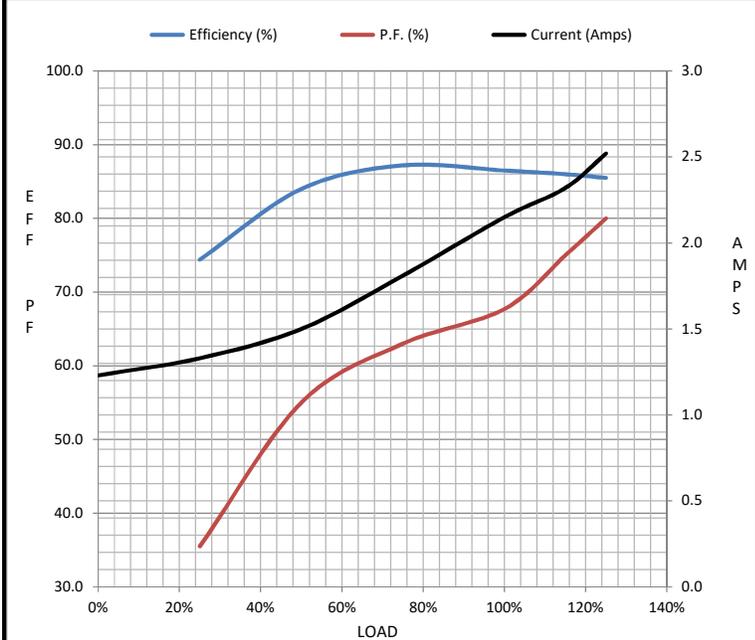
Motor Load Data

| 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 |

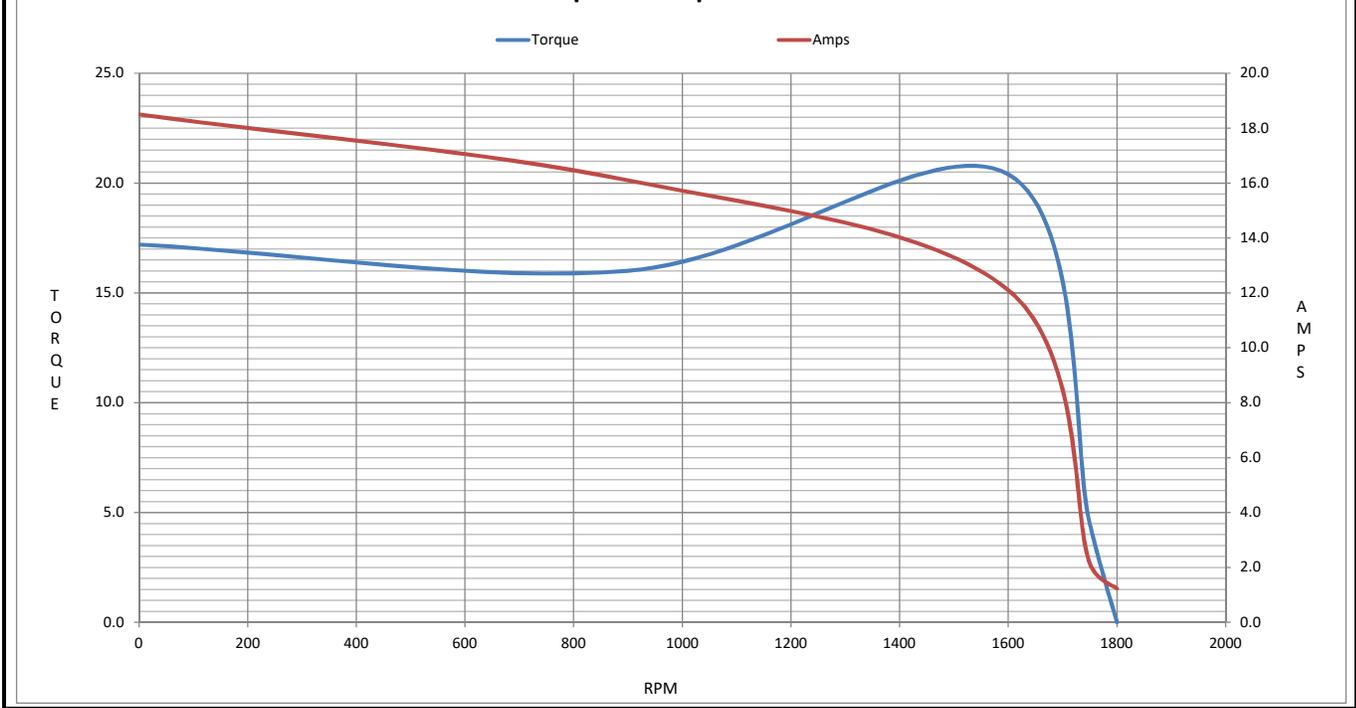
Motor Speed Data

|                | 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                     | 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                 | 607-0003-775            |        |        |        |
| 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



## EC Declaration of Conformity

The undersigned representing  
the manufacturer:

Regal Beloit America  
1946 West Cook Road  
Fort Wayne, IN 46818

and the authorized representative  
established within the Community:

Regal Beloit Italy  
Via Modena, 18  
24040 Ciserano(BG) - Italy

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 : 121871.00

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

Catalog No : 121871.00

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:



Zach Stauffer  
Vice President, Engineering

Authorized Representative in the Community:



Stefano Casiraghi  
Technology Director, Engineering

Created on 07/08/2025

**CE 25**