

# PRODUCT INFORMATION PACKET



Model No: C145T34WK21A

Catalog No: 191492.00

..3HP..3450RPM.145TC.TEFC.230/460V.3PH.60HZ.CONT.40C.1.15SF.RIGID C.....WASHGUARD - ALL  
STAINLESS.....

Paint Free



Regal and Leeson are trademarks of Regal Beloit Corporation or one of its affiliated companies.

©2018 Regal Beloit Corporation, All Rights Reserved. MC017097E



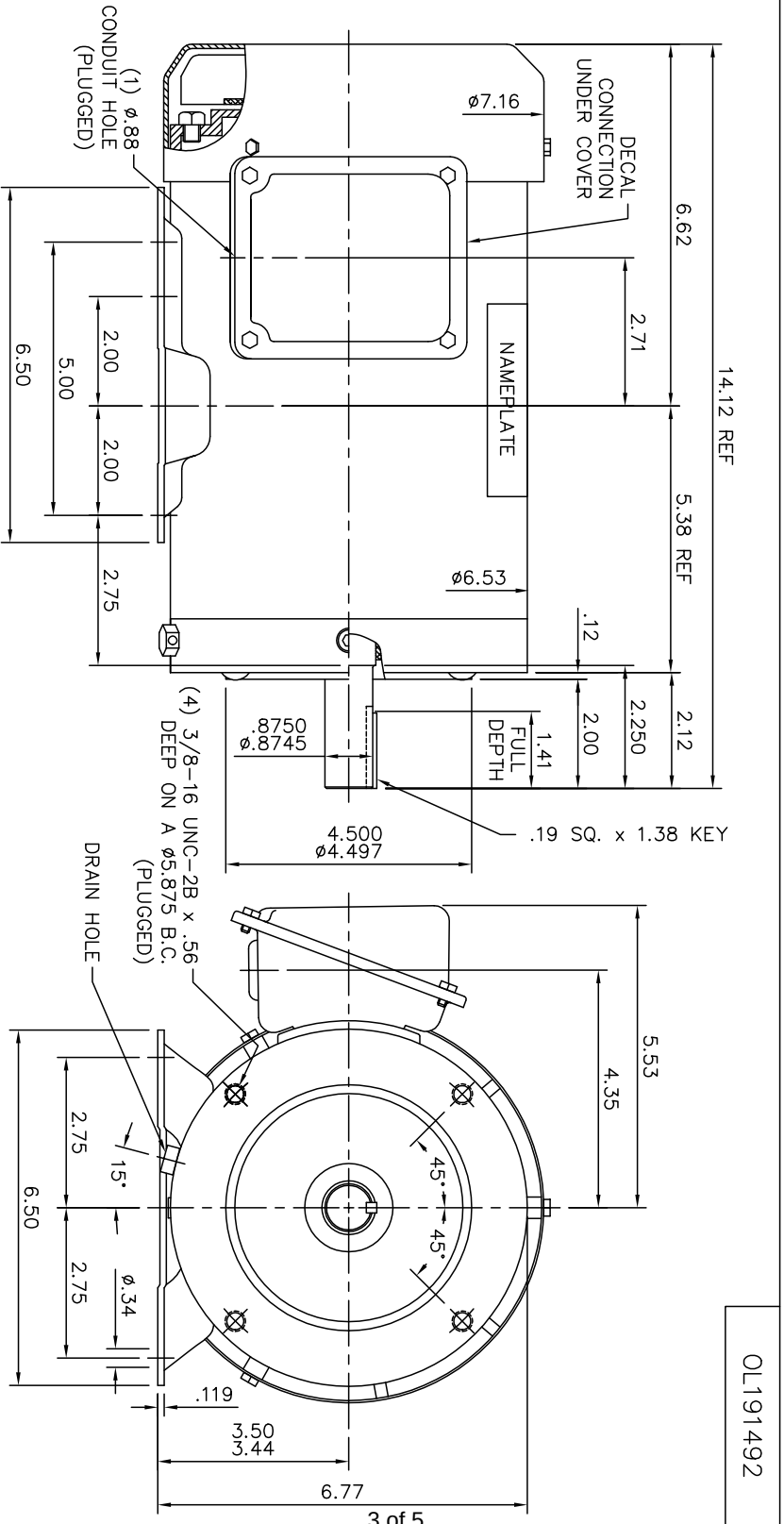


## Nameplate Specifications

|                            |                             |                        |               |
|----------------------------|-----------------------------|------------------------|---------------|
| Output HP                  | 3 Hp                        | Output KW              | 2.2 kW        |
| Frequency                  | 60 Hz                       | Voltage                | 208-230/460 V |
| Current                    | 8.0-7.2/3.6 A               | Speed                  | 3470 rpm      |
| Service Factor             | 1.15                        | Phase                  | 3             |
| Efficiency                 | 86.5 %                      | Duty                   | Continuous    |
| Insulation Class           | F                           | Design Code            | B             |
| KVA Code                   | M                           | Frame                  | 145TC         |
| Enclosure                  | Totally Enclosed Fan Cooled | Overload Protector     | No            |
| Ambient Temperature        | 40 °C                       | Drive End Bearing Size | 6205          |
| Opp Drive End Bearing Size | 6205                        | UL                     | Recognized    |
| CSA                        | Y                           | CE                     | Y             |
| IP Code                    | 55                          |                        |               |

## Technical Specifications

|                       |                             |                       |                 |
|-----------------------|-----------------------------|-----------------------|-----------------|
| Electrical Type       | Squirrel Cage Induction Run | Starting Method       | Across The Line |
| Poles                 | 2                           | Rotation              | Reversible      |
| Mounting              | Rigid base                  | Motor Orientation     | HORIZONTAL      |
| Drive End Bearing     | BALL                        | Opp Drive End Bearing | BALL            |
| Frame Material        | Stainless Steel             | Shaft Type            | T               |
| Overall Length        | 14.12 in                    | Frame Length          | 8.39 in         |
| Shaft Diameter        | 0.875 in                    | Shaft Extension       | 2.25 in         |
| Assembly/Box Mounting | F1 ONLY                     |                       |                 |
| Outline Drawing       | OL191492                    | Connection Diagram    | 005010.01       |



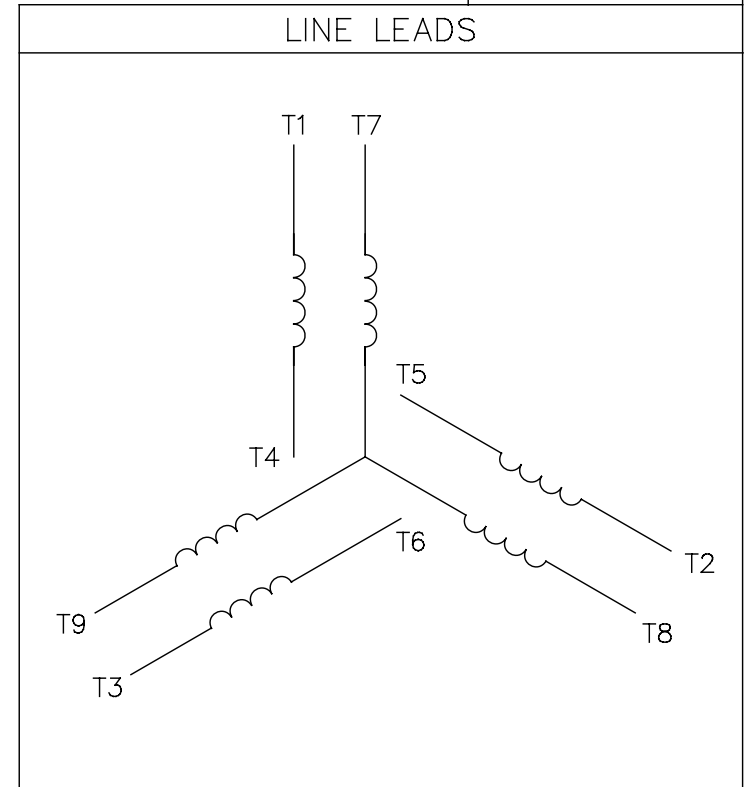
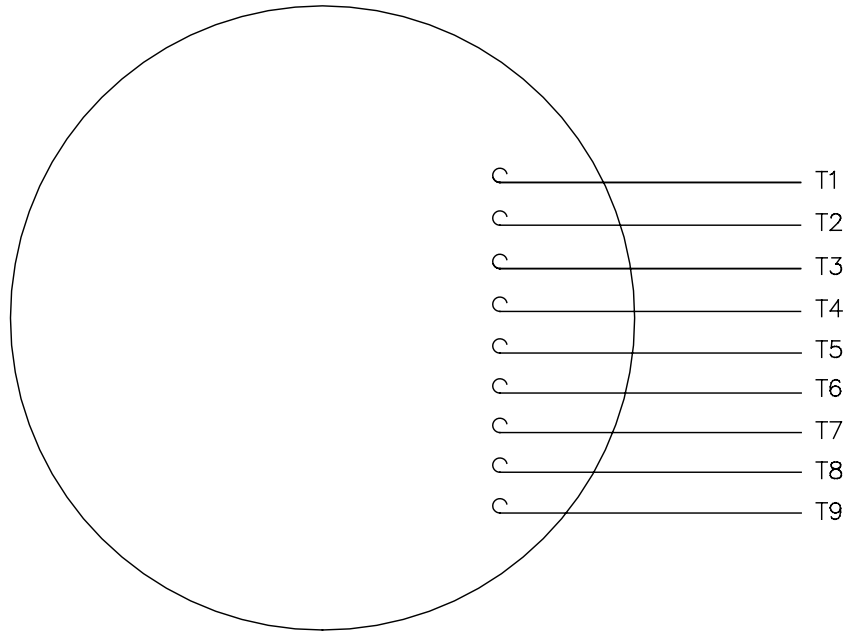
MAXIMUM FACE RUNOUT TO BE .004 T.I.R.  
 MAXIMUM PILOT ECCENTRICITY .004 T.I.R.  
 PERMISSABLE SHAFT RUNOUT .002 T.I.R.

### GASKETS THROUGHOUT

| NO.                                                                                                                                                                                                                                | REVISION | BY & DATE | TOLERANCES UNLESS SPECIFIED |          |          | TITLE                                                                                                              | DRAWN       |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|-----------|-----------------------------|----------|----------|--------------------------------------------------------------------------------------------------------------------|-------------|
|                                                                                                                                                                                                                                    |          |           | DEC.                        | INCHES   |          |                                                                                                                    |             |
|                                                                                                                                                                                                                                    |          |           | X                           | ±.1      |          | <div>LEESON</div> ELECTRIC MOTORS<br>GEARMOTORS<br>AND DRIVES<br><br>OUTLINE – 143-145TC FRAME<br>TEFC – RIGID "C" | CHK         |
|                                                                                                                                                                                                                                    |          |           | .XX                         | ±.03     |          |                                                                                                                    | APPD        |
|                                                                                                                                                                                                                                    |          |           | .XXX                        | ±.005    |          |                                                                                                                    | SCALE       |
|                                                                                                                                                                                                                                    |          |           | .XXXX                       | ±.0005   | MATL.    |                                                                                                                    | REF         |
|                                                                                                                                                                                                                                    |          |           |                             |          |          |                                                                                                                    | FMF         |
|                                                                                                                                                                                                                                    |          |           |                             |          |          |                                                                                                                    | PREV        |
| 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 |          |           |                             |          |          |                                                                                                                    | REV.        |
|                                                                                                                                                                                                                                    |          |           | RFP                         | CAD FILE | OL191492 | SIZE                                                                                                               | DRAWING NO. |
|                                                                                                                                                                                                                                    |          |           | DIST                        |          |          | A                                                                                                                  | OL191492    |

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 Beloit America, Inc.</b> | DRAWN RDW 04/12/02 |      |
|                                                                                                                                                                                                                                  |                       |              |     | DEC.                           | INCHES   |                                                                                                                         | CHK                |      |
|                                                                                                                                                                                                                                  |                       |              |     | .X                             | ±.1      |                                                                                                                         | APPD               |      |
|                                                                                                                                                                                                                                  |                       |              |     | .XX                            | ±.01     |                                                                                                                         | SCALE 1=1          |      |
|                                                                                                                                                                                                                                  |                       |              |     | .XXX                           | ±.005    | <b>EXTERNAL WIRING DIAGRAM<br/>3 PHASE W/O PROTECTOR</b>                                                                | REF FIG.2-51       |      |
| A                                                                                                                                                                                                                                | UPDATED TO REGAL LOGO | SAJ 06/26/15 | AJY | .XXXX                          | ±.0005   |                                                                                                                         | FMF                |      |
| NO.                                                                                                                                                                                                                              | REVISION              | BY & DATE    | CHK | ANG                            | ±1/2"    | FINISH                                                                                                                  | PREV               |      |
| 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 |
|                                                                                                                                                                                                                                  |                       |              |     | DIST                           | BRF-NLV  |                                                                                                                         |                    | A    |
|                                                                                                                                                                                                                                  |                       |              |     |                                |          |                                                                                                                         | DRAWING NO.        |      |
|                                                                                                                                                                                                                                  |                       |              |     |                                |          |                                                                                                                         | 005010-01          |      |
|                                                                                                                                                                                                                                  |                       |              |     |                                |          |                                                                                                                         | REV.               |      |
|                                                                                                                                                                                                                                  |                       |              |     |                                |          |                                                                                                                         | A                  |      |

1/31/2018

191492.00

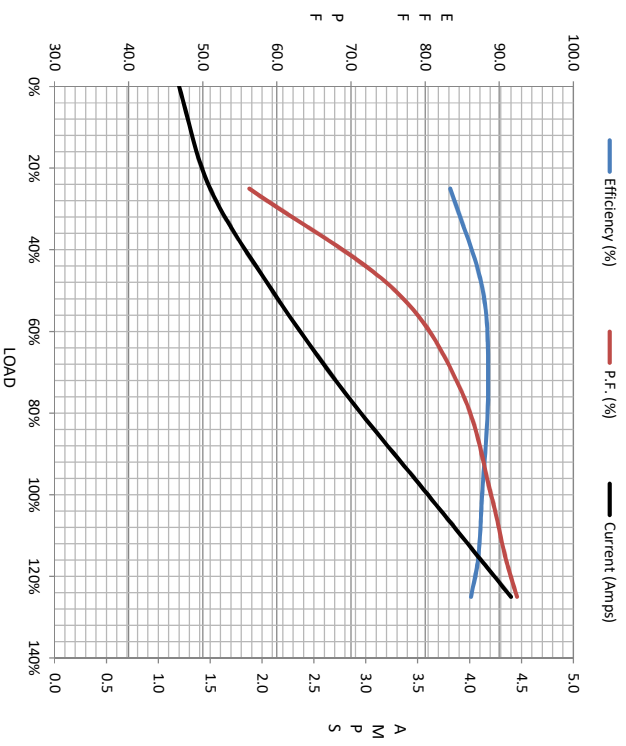


Data@ 460 V

| Motor Load Data |      |      |      |      |      |      |      |      |  |
|-----------------|------|------|------|------|------|------|------|------|--|
|                 | 0%   | 25%  | 50%  | 75%  | 100% | 115% | 125% | LR   |  |
| Load            |      |      |      |      |      |      |      |      |  |
| Current (Amps)  | 1.20 | 1.50 | 2.10 | 2.80 | 3.6  | 4.1  | 4.4  | 41.6 |  |
| Torque (ft-lb)  | 0.00 | 1.11 | 2.22 | 3.4  | 4.5  | 5.2  | 5.7  | 22.7 |  |
| RPM             | 3600 | 3571 | 3542 | 3511 | 3479 | 3463 | 3442 | 0    |  |
| Efficiency (%)  |      | 83.4 | 87.8 | 88.5 | 87.7 | 87.2 | 86.2 |      |  |
| P.F. (%)        | 10.4 | 56.3 | 76.0 | 85.0 | 88.9 | 90.8 | 92.4 | 62.4 |  |

### Motor Speed Data

|                | LR   | Pull-Up | BD   | Rated | Idle | Information Block |      |
|----------------|------|---------|------|-------|------|-------------------|------|
| Speed (RPM)    | 0    | 643     | 2386 | 3479  | 3600 |                   |      |
| Current (Amps) | 41.6 | 38.1    | 27.3 | 3.6   | 1.20 | HP                | 3.0  |
| Torque (ft-lb) | 22.7 | 20.0    | 22.0 | 4.5   | 0.00 | Sync. RPM         | 3600 |



| Information Block          |                       |        |        |        |
|----------------------------|-----------------------|--------|--------|--------|
| HP                         | 3.0                   |        |        |        |
| Sync. RPM                  | 3600                  |        |        |        |
| Frame                      | 0                     |        |        |        |
| Enclosure                  | TEFC                  |        |        |        |
| Construction               | NA                    |        |        |        |
| Voltage                    | 208-230/460#190/380 V |        |        |        |
| Frequency                  | 60 Hz                 |        |        |        |
| Design                     | A                     |        |        |        |
| LR Code letter             | M                     |        |        |        |
| Service Factor             | 1.15                  |        |        |        |
| Temp Rise @ FL             | 82 °C                 |        |        |        |
| Duty                       | CONT                  |        |        |        |
| Ambient                    | 40 °C                 |        |        |        |
| Elevation                  | 1,000 feet            |        |        |        |
| Rotor/Shaft wr²            | 0.00 Lb-Ft²           |        |        |        |
| FeI Wdg                    | QT63220 FR            |        |        |        |
| Sound Pressure @ 1M        | 0 dBA                 |        |        |        |
| VFD Rating                 | NONE                  |        |        |        |
| Outline Dwg                | OL191492              |        |        |        |
| 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 |

