

# ABB BALDOR RELIANCE III

---

## Customer information packet

### KL3400

.17HP, 1725RPM, 1PH, 60HZ, 56C, 3408L, TEFC, F1

Class - None

Division - Not Applicable

**Specifications**

|                                       |                                                             |
|---------------------------------------|-------------------------------------------------------------|
| <b>Enclosure</b>                      | TEFC                                                        |
| <b>Frame</b>                          | 56C                                                         |
| <b>Frame Material</b>                 | Steel                                                       |
| <b>Frequency</b>                      | 60.00 Hz                                                    |
| <b>Haz Area Class and Group</b>       | None                                                        |
| <b>Haz Area Division</b>              | Not Applicable                                              |
| <b>Motor Letter Type</b>              | Cap Start, Induction Run                                    |
| <b>Output @ Frequency</b>             | .170 HP @ 60 HZ                                             |
| <b>Phase</b>                          | 1                                                           |
| <b>Synchronous Speed @ Frequency</b>  | 1800 RPM @ 60 HZ                                            |
| <b>Voltage @ Frequency</b>            | 115.0 V @ 60 HZ<br>230.0 V @ 60 HZ                          |
| <b>Agency Approvals</b>               | C UR US                                                     |
| <b>Ambient Temperature</b>            | 40 °C                                                       |
| <b>Auxiliary Box</b>                  | NO AUXILLARY BOX                                            |
| <b>Auxiliary Box Lead Termination</b> | None                                                        |
| <b>Base Indicator</b>                 | No Mounting                                                 |
| <b>Bearing Grease Type</b>            | Polyrex EM (-20F +300F)                                     |
| <b>Blower</b>                         | None                                                        |
| <b>Current @ Voltage</b>              | 1.900 A @ 230.0 V<br>2.300 A @ 208.0 V<br>3.800 A @ 115.0 V |
| <b>Design Code</b>                    | N                                                           |
| <b>Drip Cover</b>                     | No Drip Cover                                               |
| <b>Duty Rating</b>                    | CONT                                                        |
| <b>Efficiency @ 100% Load</b>         | 49.0 %                                                      |
| <b>Electrically Isolated Bearing</b>  | Not Electrically Isolated                                   |
| <b>Feedback Device</b>                | NO FEEDBACK                                                 |
| <b>Front Face Code</b>                | Standard                                                    |
| <b>Front Shaft Indicator</b>          | None                                                        |
| <b>Heater Indicator</b>               | No Heater                                                   |
| <b>High Voltage Full Load Amps</b>    | 1.9 a                                                       |

**Part Detail**

|                     |            |
|---------------------|------------|
| <b>Revision</b>     | AD         |
| <b>Type</b>         | AC         |
| <b>Mech. spec.</b>  | 34C063     |
| <b>Base</b>         |            |
| <b>Status</b>       | PRD/A      |
| <b>Elec. spec.</b>  | 34WGW020   |
| <b>Layout</b>       | 34LYC063   |
| <b>Eff. date</b>    | 12-30-2024 |
| <b>CD Diagram</b>   | CD0001     |
| <b>Poles</b>        | 04         |
| <b>Leads</b>        | 6#18       |
| <b>Proprietary</b>  | False      |
| <b>Created date</b> | 01-01-0001 |

|                                      |                            |
|--------------------------------------|----------------------------|
| <b>Insulation Class</b>              | <b>B</b>                   |
| <b>Inverter Code</b>                 | <b>Not Inverter</b>        |
| <b>KVA Code</b>                      | <b>M</b>                   |
| <b>Lifting Lugs</b>                  | <b>No Lifting Lugs</b>     |
| <b>Locked Bearing Indicator</b>      | <b>Locked Bearing</b>      |
| <b>Motor Lead Exit</b>               | <b>Ko Box</b>              |
| <b>Motor Lead Quantity/Wire Size</b> | <b>6 @ 18 AWG</b>          |
| <b>Motor Lead Termination</b>        | <b>Flying Leads</b>        |
| <b>Motor Standards</b>               | <b>NEMA</b>                |
| <b>Motor Type</b>                    | <b>3408L</b>               |
| <b>Mounting Arrangement</b>          | <b>F1</b>                  |
| <b>Number of Poles</b>               | <b>4</b>                   |
| <b>Overall Length</b>                | <b>11.35 IN</b>            |
| <b>Power Factor</b>                  | <b>57</b>                  |
| <b>Product Family</b>                | <b>General Purpose</b>     |
| <b>Pulley End Bearing Type</b>       | <b>Ball</b>                |
| <b>Pulley Face Code</b>              | <b>C-Face</b>              |
| <b>Pulley Shaft Indicator</b>        | <b>Standard</b>            |
| <b>Rodent Screen</b>                 | <b>None</b>                |
| <b>RoHS Status</b>                   | <b>ROHS COMPLIANT</b>      |
| <b>Service Factor</b>                | <b>1.35</b>                |
| <b>Shaft Diameter</b>                | <b>0.625 IN</b>            |
| <b>Shaft Extension Location</b>      | <b>Pulley End</b>          |
| <b>Shaft Ground Indicator</b>        | <b>No Shaft Grounding</b>  |
| <b>Shaft Rotation</b>                | <b>Reversible</b>          |
| <b>Shaft Slinger Indicator</b>       | <b>No Slinger</b>          |
| <b>Speed</b>                         | <b>1725 rpm</b>            |
| <b>Speed Code</b>                    | <b>Single Speed</b>        |
| <b>Starting Method</b>               | <b>Direct on line</b>      |
| <b>Thermal Device - Bearing</b>      | <b>None</b>                |
| <b>Thermal Device - Winding</b>      | <b>None</b>                |
| <b>Vibration Sensor Indicator</b>    | <b>No Vibration Sensor</b> |
| <b>Winding Thermal 1</b>             | <b>None</b>                |
| <b>Winding Thermal 2</b>             | <b>None</b>                |

**Nameplate**

| NP1256L      |              |      |     |      |   |  |  |       |   |  |  |
|--------------|--------------|------|-----|------|---|--|--|-------|---|--|--|
| CAT.NO.      | KL3400       |      |     |      |   |  |  |       |   |  |  |
| SPEC.        | 34C63W20     |      |     |      |   |  |  |       |   |  |  |
| HP           | .17          |      |     |      |   |  |  |       |   |  |  |
| VOLTS        | 115/230      |      |     |      |   |  |  |       |   |  |  |
| AMP          | 3.8/1.9      |      |     |      |   |  |  |       |   |  |  |
| RPM          | 1725         |      |     |      |   |  |  |       |   |  |  |
| FRAME        | 56C          |      | HZ  | 60   |   |  |  | PH    | 1 |  |  |
| SER.F.       | 1.35         | CODE | M   | DES  | N |  |  | CLASS | B |  |  |
| NEMA-NOM-EFF | 49           | PF   | 57  |      |   |  |  |       |   |  |  |
| RATING       | 40C AMB-CONT |      |     |      |   |  |  |       |   |  |  |
| CC           |              |      |     |      |   |  |  |       |   |  |  |
| DE           | 6203         |      | ODE | 6203 |   |  |  |       |   |  |  |
| ENCL         | TEFC         | SN   |     |      |   |  |  |       |   |  |  |
|              | SFA 4.4/2.2  |      |     |      |   |  |  |       |   |  |  |

**AC Induction Motor Performance Data**

Record # 6851

Typical performance - not guaranteed values

| Winding: 34WGW020-R001 |    |              | Type: 3408L  |                                          | Enclosure: TEFC |                            |
|------------------------|----|--------------|--------------|------------------------------------------|-----------------|----------------------------|
| Nameplate Data         |    |              |              | 230 V, 60 Hz:<br>High Voltage Connection |                 |                            |
| Rated Output (HP)      |    | .17          |              | Full Load Torque                         |                 | 0.5 LB-FT                  |
| Volts                  |    | 115/230      |              | Start Configuration                      |                 | direct on line             |
| Full Load Amps         |    | 3.8/1.9      |              | Breakdown Torque                         |                 | 1.38 LB-FT                 |
| R.P.M.                 |    | 1725         |              | Pull-up Torque                           |                 | 1.2 LB-FT                  |
| Hz                     | 60 | Phase        | 1            | Locked-rotor Torque                      |                 | 2.13 LB-FT                 |
| NEMA Design Code       |    | N            | KVA Code     | Starting Current                         |                 | 7.8 A                      |
| Service Factor (S.F.)  |    | 1.35         |              | No-load Current                          |                 | 1.75 A                     |
| NEMA Nom. Eff.         |    | 49           | Power Factor | Line-line Res. @ 25°C                    |                 | 13.7 Ω A Ph<br>10.8 Ω B Ph |
| Rating - Duty          |    | 40C AMB-CONT |              | Temp. Rise @ Rated Load                  |                 | 50°C                       |
| S.F. Amps              |    | 4.4/2.2      |              | Temp. Rise @ S.F. Load                   |                 | 61°C                       |

**Load Characteristics 230 V, 60 Hz, 0.17 HP**

| % of Rated Load | 25   | 50   | 75   | 100  | 125  | 150  | S.F. |
|-----------------|------|------|------|------|------|------|------|
| Power Factor    | 32   | 41   | 49   | 57   | 63   | 69   | 67   |
| Efficiency      | 21   | 35   | 45   | 49   | 52   | 53   | 53   |
| Speed           | 1775 | 1760 | 1730 | 1710 | 1685 | 1650 | 1665 |
| Line amperes    | 1.75 | 1.8  | 1.9  | 2    | 2.1  | 2.4  | 2.2  |

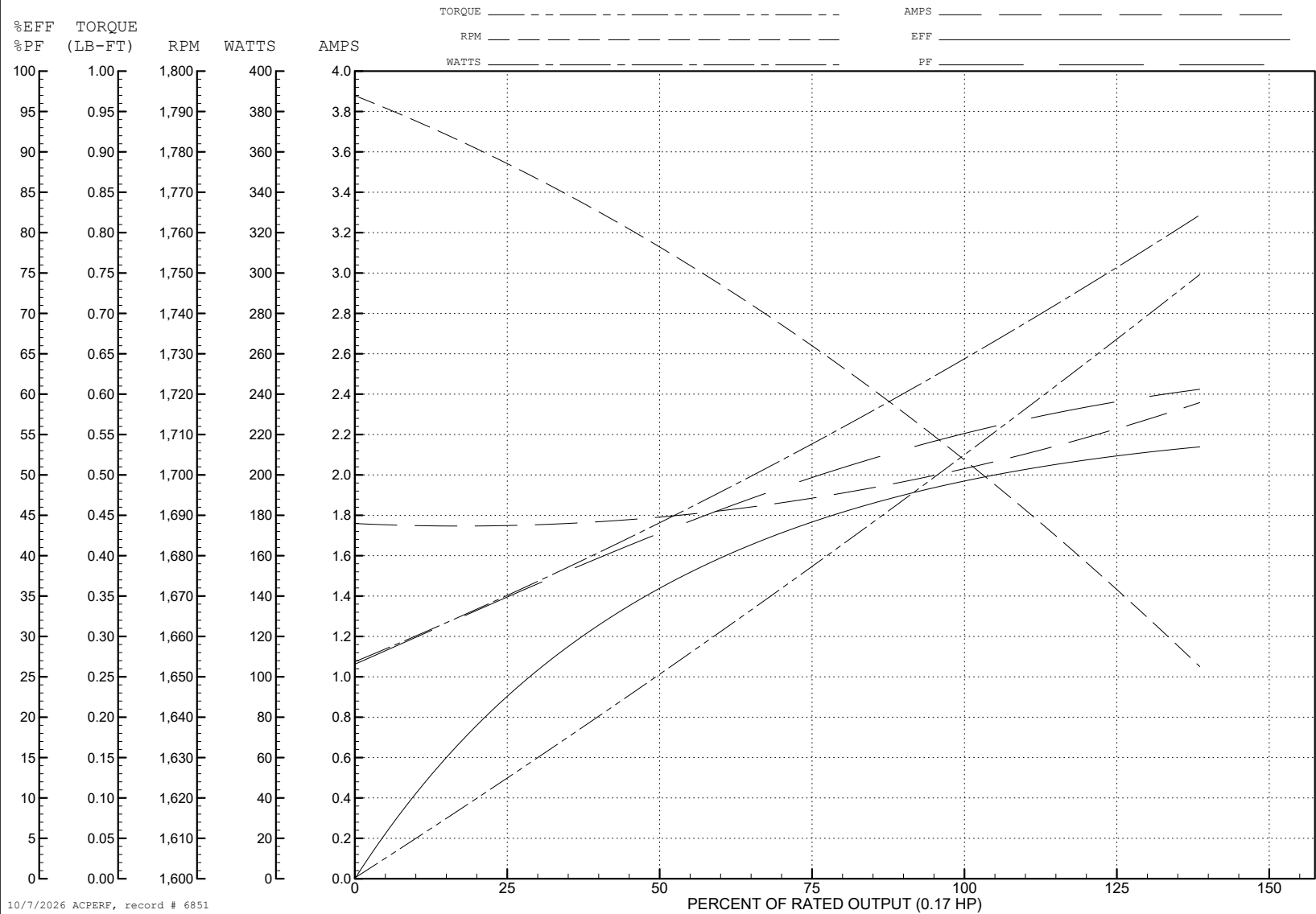
ABB Motors and Mechanical Inc.

WINDING # 34WG020

Typical performance - not guaranteed values.

0.17 HP 1 PH 60 HZ 1725 RPM 230 V 3408L

TORQUES (LB-FT): PO=1.38 PU=1.2 LR=2.13 LRA=7.8



**AC Induction Motor Performance Data**

Record # 69691

Typical performance - not guaranteed values

| Winding: 34WGW020-R001    |          |                            | Type: 348L                              |  | Enclosure: TEFC |  |
|---------------------------|----------|----------------------------|-----------------------------------------|--|-----------------|--|
| Nameplate Data            |          |                            | 115 V, 60 Hz:<br>Low Voltage Connection |  |                 |  |
| Rated Output (HP)         |          | .17                        | Full Load Torque                        |  | 0.5 LB-FT       |  |
| Volts                     |          | 115/230                    | Start Configuration                     |  | direct on line  |  |
| Full Load Amps            |          | 3.8/1.9                    | Breakdown Torque                        |  | 1.38 LB-FT      |  |
| R.P.M.                    |          | 1725                       | Pull-up Torque                          |  | 1.2 LB-FT       |  |
| Hz                        | 60 Phase | 1                          | Locked-rotor Torque                     |  | 2.35 LB-FT      |  |
| NEMA Design Code          |          | N                          | KVA Code                                |  | M               |  |
| Service Factor (S.F.)     |          | 1.35                       | Starting Current                        |  | 16.2 A          |  |
| Service Factor (S.F.)     |          | 1.35                       | No-load Current                         |  | 3.5 A           |  |
| NEMA Nom. Eff.            |          | 49                         | Power Factor                            |  | 57              |  |
| NEMA Nom. Eff.            |          | 49                         | Power Factor                            |  | 57              |  |
| Line-line Res. @ 25°C     |          | 3.23 Ω A Ph<br>10.5 Ω B Ph |                                         |  |                 |  |
| Rating - Duty             |          | 40C AMB-CONT               | Temp. Rise @ Rated Load                 |  | 50°C            |  |
| S.F. Amps                 |          | 4.4/2.2                    | Temp. Rise @ S.F. Load                  |  | 58°C            |  |
| Locked-rotor Power Factor |          | 95                         |                                         |  |                 |  |
| Rotor inertia             |          | 0.019 LB-FT2               |                                         |  |                 |  |

**Load Characteristics 115 V, 60 Hz, 0.17 HP**

| % of Rated Load | 25   | 50   | 75   | 100  | 125  | 150  | S.F. |
|-----------------|------|------|------|------|------|------|------|
| Power Factor    | 37   | 43   | 47   | 54   | 60   | 60   | 60   |
| Efficiency      | 21   | 34.9 | 44.9 | 49   | 51.9 | 52.9 | 52.3 |
| Speed           | 1775 | 1760 | 1730 | 1710 | 1685 | 1650 | 1671 |
| Line amperes    | 3.5  | 3.6  | 3.8  | 4    | 4.2  | 4.8  | 4.44 |

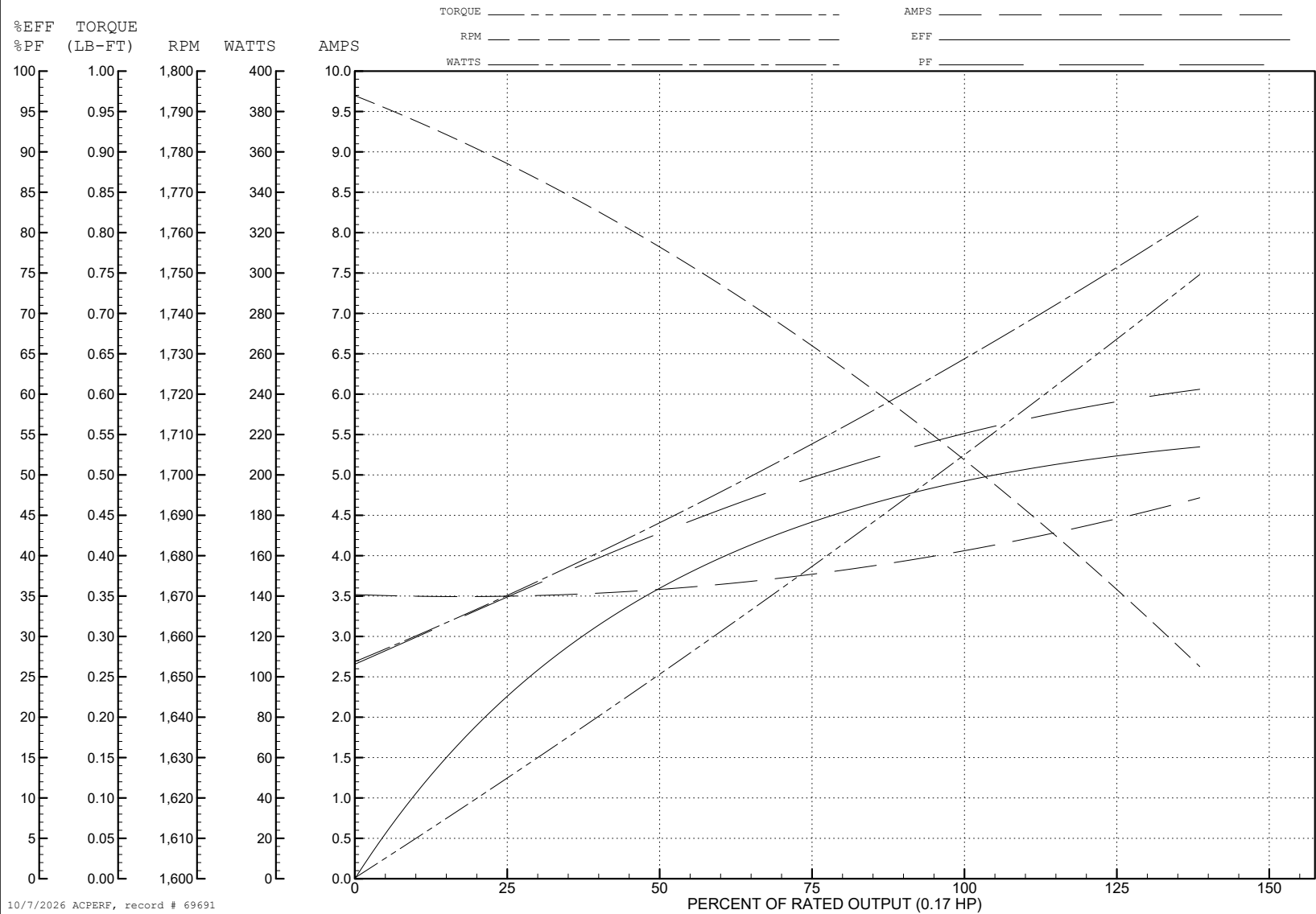
ABB Motors and Mechanical Inc.

WINDING # 34WG020

Typical performance - not guaranteed values.

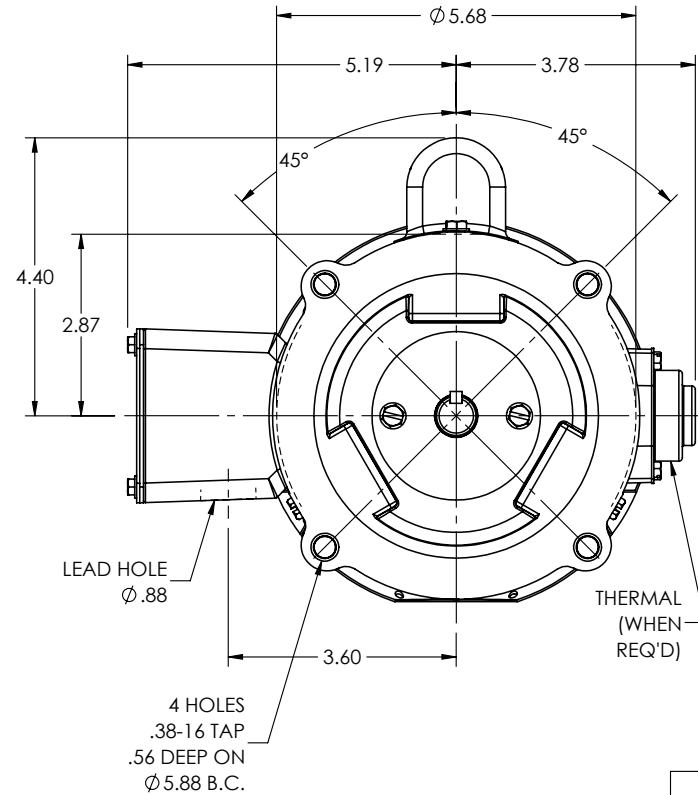
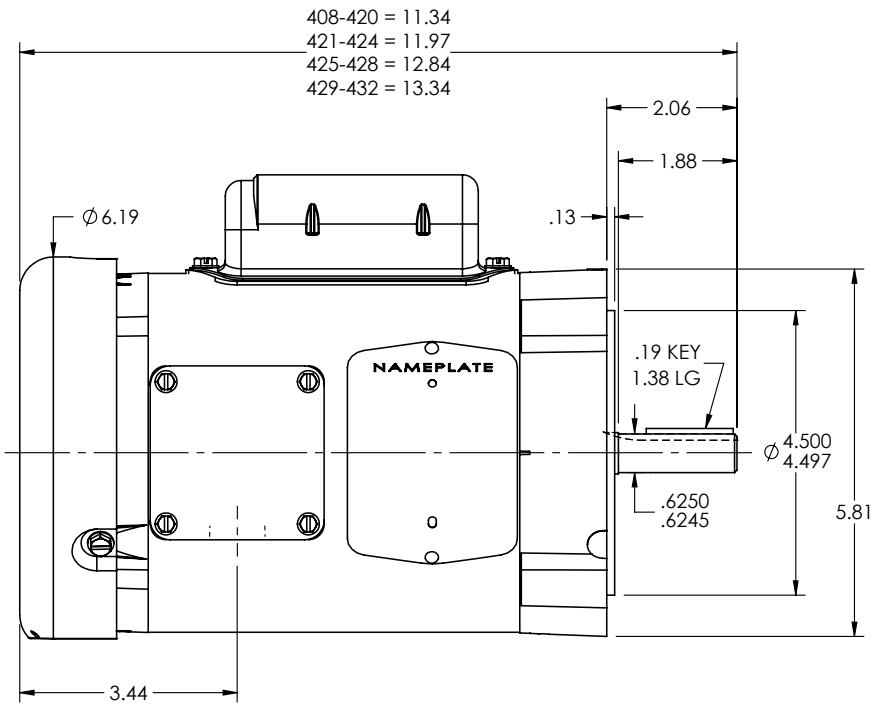
0.17 HP 1 PH 60 HZ 1725 RPM 115 V 348L

TORQUES (LB-FT): PO=1.38 PU=1.2 LR=2.35 LRA=16.2



10/7/2026 ACPERF, record # 69691

34LYC063



CUSTOMER IS RESPONSIBLE FOR DETERMINING THAT THE PRODUCT WILL PERFORM SUITABLY IN THE INTENDED APPLICATION

REV. DESC: CLEAN UP DIMENSIONING

REV: P

VERSION: 07

REVISED: 02:08:16 04/14/2025

TDR: 000001253803

34LYC063

MODEL NO. 34LYC063

BY: ENJEFD0

REF: -

**BALDOR - RELIANCE®**

STD VERT 34L NEMA 56C TEFC

34LYC063

