

# ABB BALDOR RELIANCE III

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## Customer information packet

### L1200

.17HP, 1725RPM, 1PH, 60HZ, 48, 3408L, OPEN, F1

Class - None

Division - Not Applicable

**Specifications**

|                                |                                                             |
|--------------------------------|-------------------------------------------------------------|
| Enclosure                      | OPEN                                                        |
| Frame                          | 48                                                          |
| Frame Material                 | Steel                                                       |
| Frequency                      | 60.00 Hz                                                    |
| Haz Area Class and Group       | None                                                        |
| Haz Area Division              | Not Applicable                                              |
| Motor Letter Type              | Cap Start, Induction Run                                    |
| Output @ Frequency             | .170 HP @ 60 HZ                                             |
| Phase                          | 1                                                           |
| Synchronous Speed @ Frequency  | 1800 RPM @ 60 HZ                                            |
| Voltage @ Frequency            | 115.0 V @ 60 HZ<br>230.0 V @ 60 HZ                          |
| Agency Approvals               | C UR US                                                     |
| Ambient Temperature            | 40 °C                                                       |
| Auxiliary Box                  | NO AUXILLARY BOX                                            |
| Auxiliary Box Lead Termination | None                                                        |
| Base Indicator                 | Rigid                                                       |
| Bearing Grease Type            | Polyrex EM (-20F +300F)                                     |
| Blower                         | None                                                        |
| Current @ Voltage              | 1.900 A @ 230.0 V<br>2.300 A @ 208.0 V<br>3.800 A @ 115.0 V |
| Design Code                    | N                                                           |
| Drip Cover                     | No Drip Cover                                               |
| Duty Rating                    | CONT                                                        |
| Efficiency @ 100% Load         | 49.0 %                                                      |
| Electrically Isolated Bearing  | Not Electrically Isolated                                   |
| Feedback Device                | NO FEEDBACK                                                 |
| Front Face Code                | Standard                                                    |
| Front Shaft Indicator          | None                                                        |
| Heater Indicator               | No Heater                                                   |
| High Voltage Full Load Amps    | 1.9 a                                                       |

**Part Detail**

|              |            |
|--------------|------------|
| Revision     | AC         |
| Type         | AC         |
| Mech. spec.  | 34F001     |
| Base         |            |
| Status       | PRD/A      |
| Elec. spec.  | 34WGW020   |
| Layout       | 34LYF001   |
| Eff. date    | 12-31-2024 |
| CD Diagram   | CD0001     |
| Poles        | 04         |
| Leads        | 6#18       |
| Proprietary  | False      |
| Created date | 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>No 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>9.13 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>Standard</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>0.500 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.      | L1200        |      |    |      |    |       |   |  |  |
| SPEC.        | 34F01W20     |      |    |      |    |       |   |  |  |
| HP           | .17          |      |    |      |    |       |   |  |  |
| VOLTS        | 115/230      |      |    |      |    |       |   |  |  |
| AMP          | 3.8/1.9      |      |    |      |    |       |   |  |  |
| RPM          | 1725         |      |    |      |    |       |   |  |  |
| FRAME        | 48           | 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         | OPEN         | 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  |

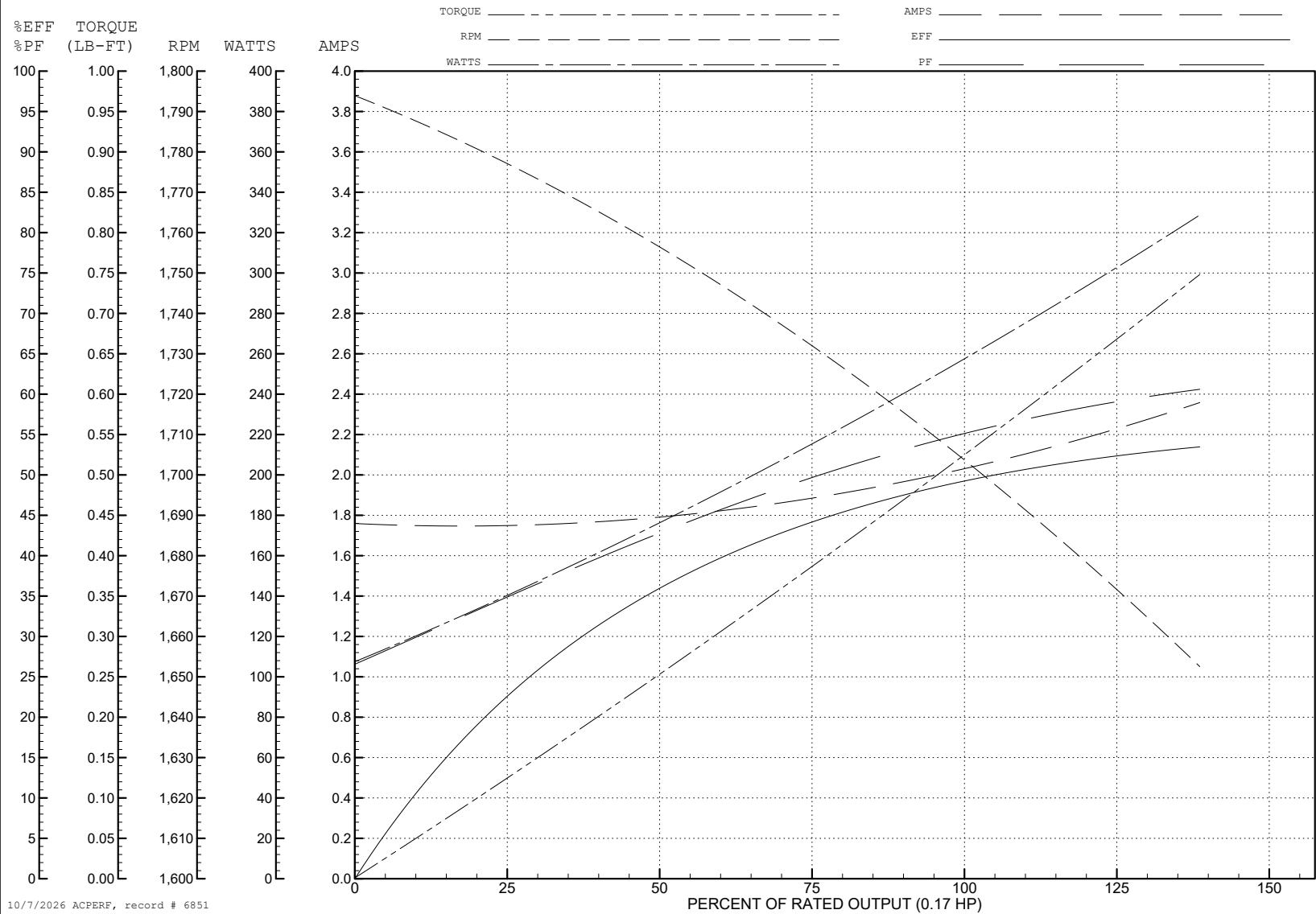
ABB Motors and Mechanical Inc.

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                          |  |
| Starting Current       |          | 16.2 A       | No-load Current                         |  | 3.5 A                      |  |
| Service Factor (S.F.)  |          | 1.35         | Line-line Res. @ 25°C                   |  | 3.23 Ω A Ph<br>10.5 Ω B Ph |  |
| NEMA Nom. Eff.         |          | 49           | Power Factor                            |  | 57                         |  |
| 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 |

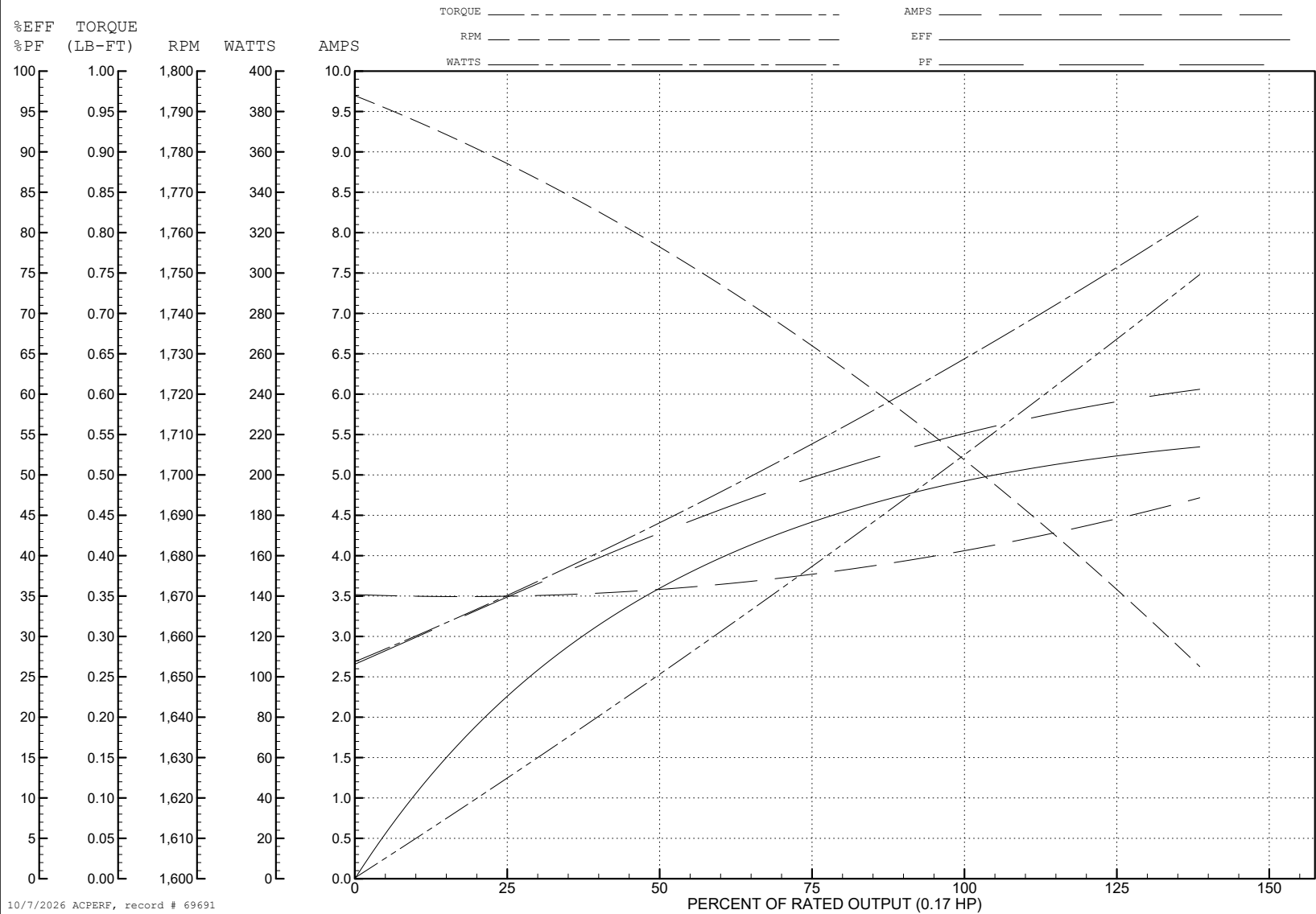
ABB Motors and Mechanical Inc.

WINDING # 34WG020

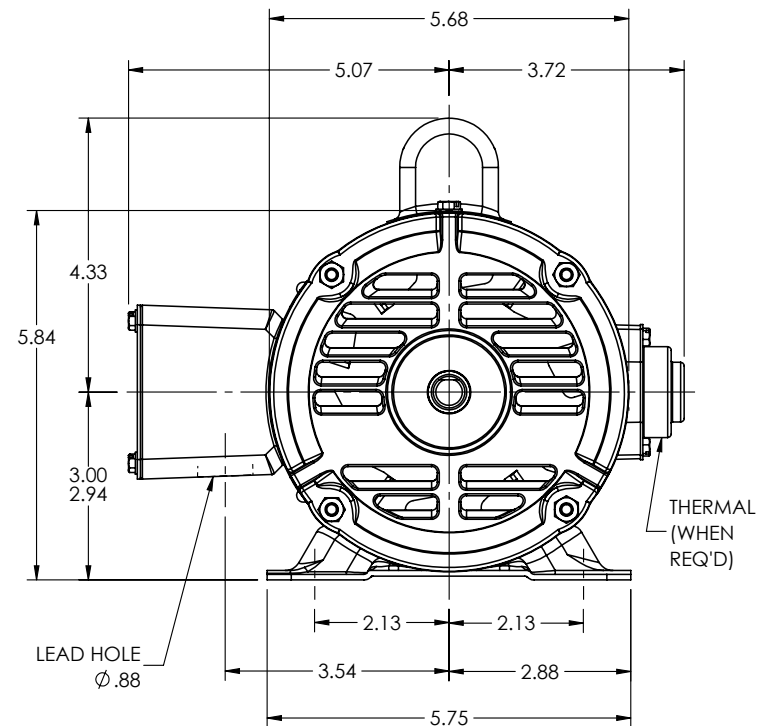
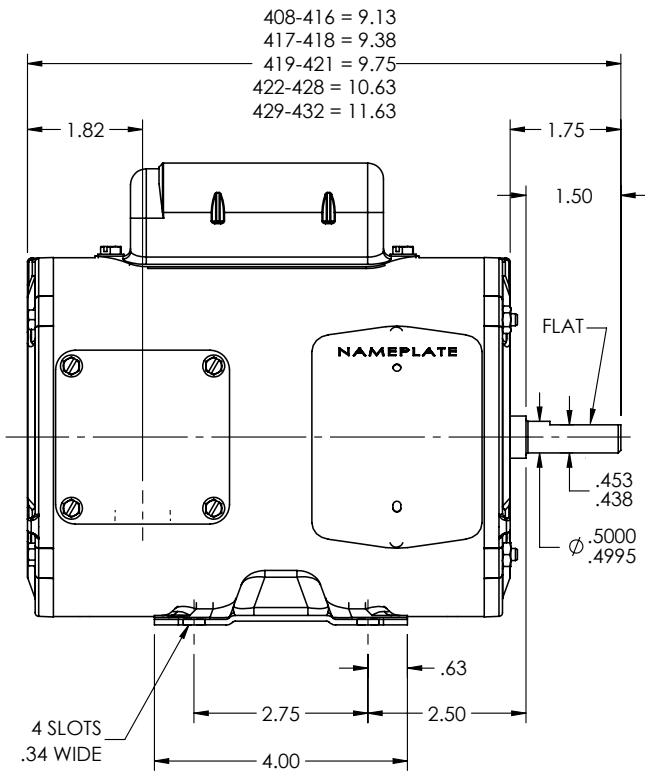
Typical performance - not guaranteed values.

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



34LYF001



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

REV. DESC: CLEAN UP DIMENSIONING

REV: L VERSION: 05 REVISED: 07:20:02 04/15/2025 TDR: 000001253803

10011743  
34LYF001

MODEL NO. 34LYF001

BY: ENJEFD0

REF: -

**BALDOR - RELIANCE®**

STD HORZ MODEL 34L NEMA 48 OPEN

34LYF001

CD0001

