

# ABB BALDOR RELIANCE III

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## Customer information packet

JL1313A

1.5HP, 3450RPM, 1PH, 60HZ, 56J, 3432LC, OPEN

Class - None

Division - Not Applicable

**Specifications**

|                                |                                         |
|--------------------------------|-----------------------------------------|
| Enclosure                      | OPEN                                    |
| Frame                          | 56J                                     |
| Frame Material                 | Steel                                   |
| Frequency                      | 60.00 Hz                                |
| Haz Area Class and Group       | None                                    |
| Haz Area Division              | Not Applicable                          |
| Motor Letter Type              | Cap Start, Cap Run                      |
| Output @ Frequency             | 1.500 HP @ 60 HZ                        |
| Phase                          | 1                                       |
| Synchronous Speed @ Frequency  | 3600 RPM @ 60 HZ                        |
| Voltage @ Frequency            | 115.0 V @ 60 HZ<br>230.0 V @ 60 HZ      |
| Agency Approvals               | CSA<br>UR                               |
| Ambient Temperature            | 40 °C                                   |
| Auxiliary Box                  | NO AUXILLARY BOX                        |
| Auxiliary Box Lead Termination | None                                    |
| Base Indicator                 | No Mounting                             |
| Bearing Grease Type            | Polyrex EM (-20F +300F)                 |
| Blower                         | None                                    |
| Current @ Voltage              | 13.000 A @ 115.0 V<br>6.500 A @ 230.0 V |
| Drip Cover                     | Drip Cover                              |
| Duty Rating                    | CONT                                    |
| Efficiency @ 100% Load         | 78.5 %                                  |
| Electrically Isolated Bearing  | Not Electrically Isolated               |
| Feedback Device                | NO FEEDBACK                             |
| Front Face Code                | Drip Cover Mounting                     |
| Front Shaft Indicator          | None                                    |
| Heater Indicator               | No Heater                               |
| High Voltage Full Load Amps    | 6.5 a                                   |
| Insulation Class               | B                                       |

**Part Detail**

|              |                              |
|--------------|------------------------------|
| Revision     | AF                           |
| Type         | AC                           |
| Mech. spec.  | 34F531                       |
| Base         |                              |
| Status       | PRD/A                        |
| Elec. spec.  | 34WGX598                     |
| Layout       | 34LYF531                     |
| Eff. date    | 09-15-2026                   |
| CD Diagram   | CD0769                       |
| Poles        | 02                           |
| Leads        | 4#16 A&J,1#18 B PH,1#14 #1TH |
| Proprietary  | False                        |
| Created date | 01-01-0001                   |

|                                      |                             |
|--------------------------------------|-----------------------------|
| <b>Inverter Code</b>                 | Not Inverter                |
| <b>KVA Code</b>                      | H                           |
| <b>Lifting Lugs</b>                  | No Lifting Lugs             |
| <b>Locked Bearing Indicator</b>      | Locked Bearing              |
| <b>Motor Lead Exit</b>               | Terminal Panel Or Lead Hole |
| <b>Motor Lead Quantity/Wire Size</b> | 4 @ 16 AWG, A&J             |
| <b>Motor Lead Termination</b>        | Flying Leads With QC        |
| <b>Motor Standards</b>               | NEMA                        |
| <b>Motor Type</b>                    | 3432LC                      |
| <b>Mounting Arrangement</b>          | F1                          |
| <b>Number of Poles</b>               | 2                           |
| <b>Overall Length</b>                | 13.89 IN                    |
| <b>Power Factor</b>                  | 95                          |
| <b>Product Family</b>                | General Purpose             |
| <b>Pulley End Bearing Type</b>       | Ball                        |
| <b>Pulley Face Code</b>              | C-Face                      |
| <b>Pulley Shaft Indicator</b>        | Ext Thread                  |
| <b>Rodent Screen</b>                 | None                        |
| <b>RoHS Status</b>                   | ROHS COMPLIANT              |
| <b>Service Factor</b>                | 1.30                        |
| <b>Shaft Diameter</b>                | 0.625 IN                    |
| <b>Shaft Extension Location</b>      | Pulley End                  |
| <b>Shaft Ground Indicator</b>        | No Shaft Grounding          |
| <b>Shaft Rotation</b>                | Fixed Opposite Standard     |
| <b>Shaft Slinger Indicator</b>       | No Slinger                  |
| <b>Speed</b>                         | 3450 rpm                    |
| <b>Speed Code</b>                    | Single Speed                |
| <b>Starting Method</b>               | Direct on line              |
| <b>Thermal Device - Bearing</b>      | None                        |
| <b>Thermal Device - Winding</b>      | None                        |
| <b>Vibration Sensor Indicator</b>    | No Vibration Sensor         |
| <b>Winding Thermal 1</b>             | Automatic Thermal Overload  |
| <b>Winding Thermal 1 Location</b>    | SB                          |

**Nameplate**

| NP1257L      |              |    |      |    |      |  |    |    |    |  |   |
|--------------|--------------|----|------|----|------|--|----|----|----|--|---|
| CAT.NO.      | JL1313A      |    |      |    |      |  |    |    |    |  |   |
| SPEC.        | 34F531X598   |    |      |    |      |  |    |    |    |  |   |
| HP           | 1.5          |    |      |    |      |  |    |    |    |  |   |
| VOLTS        | 115/230      |    |      |    |      |  |    |    |    |  |   |
| AMP          | 13/6.5       |    |      |    |      |  |    |    |    |  |   |
| RPM          | 3450         |    |      |    |      |  |    |    |    |  |   |
| FRAME        | 56J          |    |      |    | HZ   |  | 60 |    | PH |  | 1 |
| SER.F.       | 1.30         |    | CODE | H  | DES  |  | -  | CL | B  |  |   |
| NEMA-NOM-EFF | 78.5         |    | PF   | 95 |      |  |    |    |    |  |   |
| RATING       | 40C AMB-CONT |    |      |    |      |  |    |    |    |  |   |
| CC           |              |    |      |    |      |  |    |    |    |  |   |
| DE           | 6203         |    | ODE  |    | 6203 |  |    |    |    |  |   |
| ENCL         | OPEN         | SN |      |    |      |  |    |    |    |  |   |
|              | SFA 17/8.5   |    |      |    |      |  |    |    |    |  |   |

**AC Induction Motor Performance Data**

Record # 7475

Typical performance - not guaranteed values

| Winding: 34WGX598-R001  |    |             | Type: 3432LC                             |                        | Enclosure: OPEN         |  |
|-------------------------|----|-------------|------------------------------------------|------------------------|-------------------------|--|
| Nameplate Data          |    |             | 230 V, 60 Hz:<br>High Voltage Connection |                        |                         |  |
| Rated Output (HP)       |    | 1.5         | Full Load Torque                         |                        | 2.3 LB-FT               |  |
| Volts                   |    | 115/230     | Start Configuration                      |                        | direct on line          |  |
| Full Load Amps          |    | 13/6.5      | Breakdown Torque                         |                        | 6.2 LB-FT               |  |
| R.P.M.                  |    | 3450        | Pull-up Torque                           |                        | 5 LB-FT                 |  |
| Hz                      | 60 | Phase       | Locked-rotor Torque                      |                        | 6.7 LB-FT               |  |
| NEMA Design Code        |    | -           | KVA Code                                 |                        | H                       |  |
| Service Factor (S.F.)   |    | 1.3         | Starting Current                         |                        | 43.5 A                  |  |
| Service Factor (S.F.)   |    | 1.3         | No-load Current                          |                        | 1.65 A                  |  |
| NEMA Nom. Eff.          |    | 78.5        | Power Factor                             |                        | 95                      |  |
| NEMA Nom. Eff.          |    | 78.5        | Power Factor                             |                        | 95                      |  |
| Line-line Res. @ 25°C   |    | 1.58 Ω A Ph |                                          | 1.44 Ω B Ph            |                         |  |
| Rating - Duty           |    | 40C         | AMB-CONT                                 |                        | Temp. Rise @ Rated Load |  |
| Temp. Rise @ Rated Load |    | 38°C        |                                          | Temp. Rise @ S.F. Load |                         |  |
| Temp. Rise @ S.F. Load  |    | 53°C        |                                          | S.F. Amps              |                         |  |
| S.F. Amps               |    | 17/8.5      |                                          |                        |                         |  |

**Load Characteristics 230 V, 60 Hz, 1.5 HP**

| % of Rated Load | 25   | 50   | 75   | 100  | 125  | 150   | S.F. |
|-----------------|------|------|------|------|------|-------|------|
| Power Factor    | 81   | 90   | 93   | 95   | 95   | 95    | 95   |
| Efficiency      | 60.5 | 76.2 | 77.7 | 78.5 | 77.2 | 75.3  | 76.8 |
| Speed           | 3566 | 3534 | 3498 | 3455 | 3403 | 3343  | 3391 |
| Line amperes    | 2.45 | 3.65 | 5    | 6.5  | 8.25 | 10.25 | 8.65 |

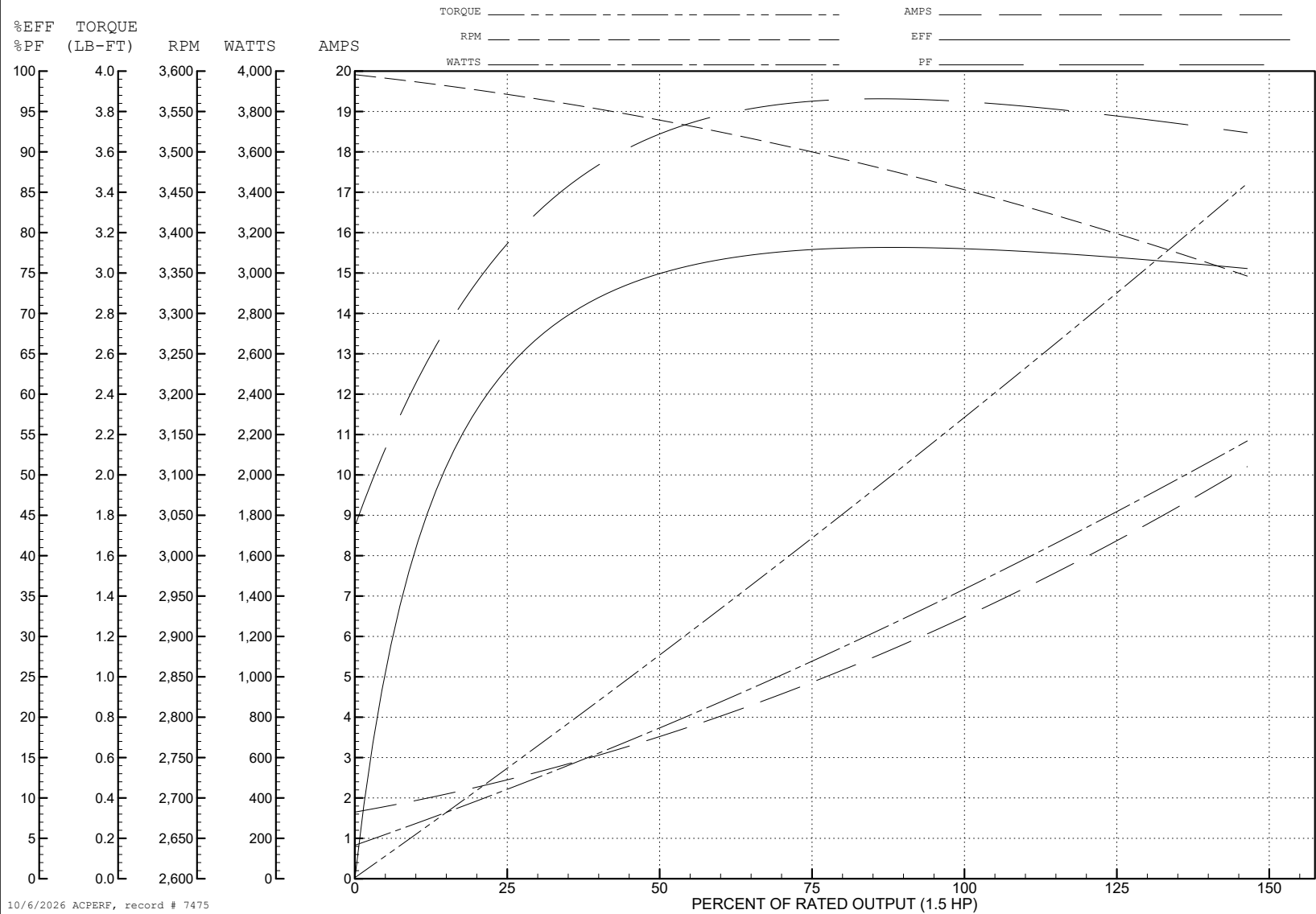
ABB Motors and Mechanical Inc.

WINDING # 34WGX598

Typical performance - not guaranteed values.

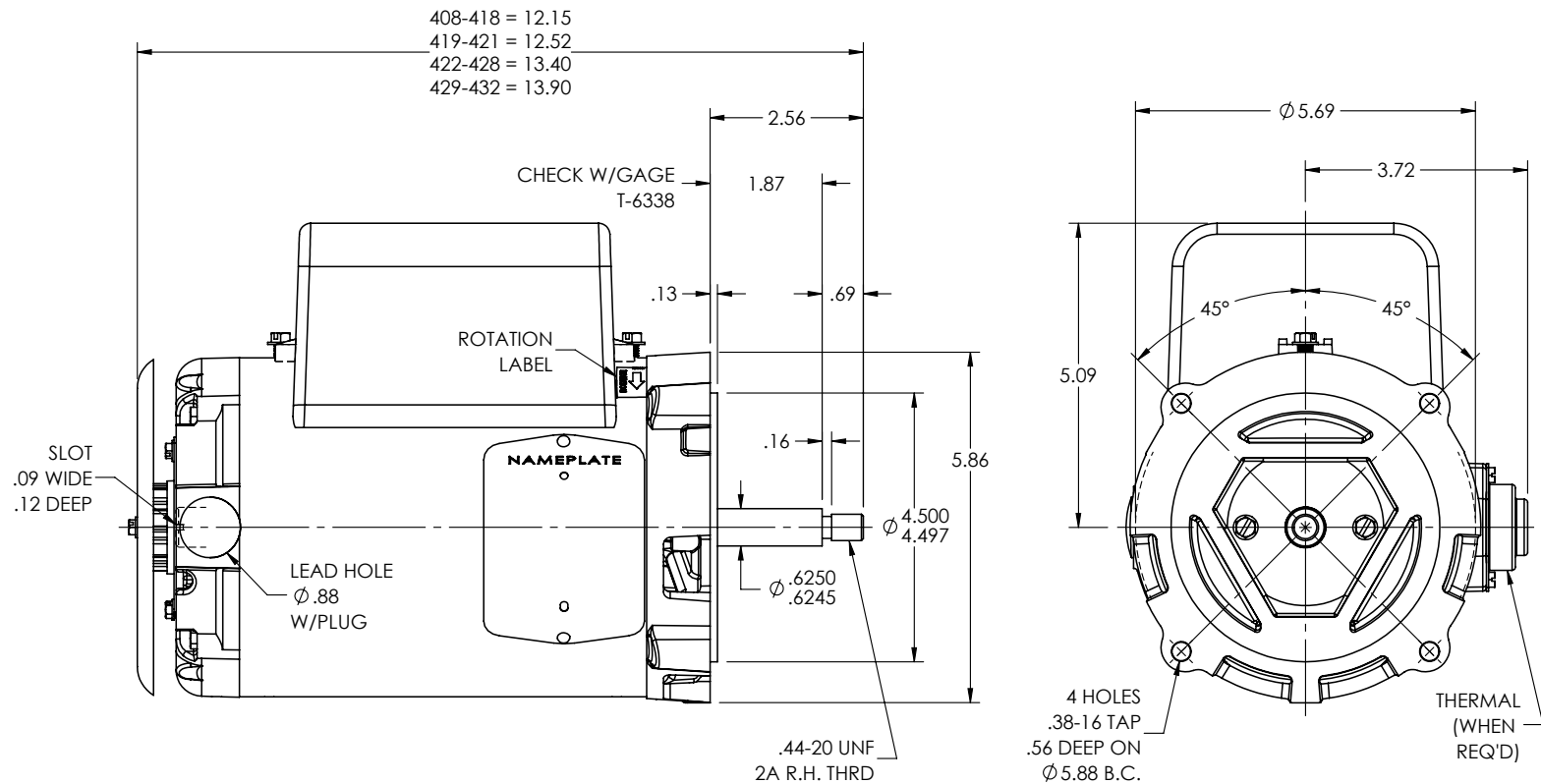
1.5 HP 1 PH 60 HZ 3450 RPM 230 V 3432LC

TORQUES (LB-FT): PO=6.2 PU=5 LR=6.7 LRA=43.5



10/6/2026 ACPERF, record # 7475

34LYF531



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

REV. DESC: CLEAN UP DIMENSIONING

REV: B VERSION: 02 REVISED: 11:26:27 10/02/2025 TDR: 000001264465

34LYF531

MODEL NO. 34LYF531

BY: ENJEFD0

REF: -

**BALDOR - RELIANCE®**

STD VERT 34LC NEMA 56J OPEN W/TERM PANEL & DRIP COVER

34LYF531

