

# ABB BALDOR RELIANCE III

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## Customer information packet

### SPNM3539

.5HP, 1140RPM, 3PH, 60HZ, 56H, 3436M, TENV, F1

Class - None

Division - Not Applicable

**Specifications**

|                                       |                                        |
|---------------------------------------|----------------------------------------|
| <b>Enclosure</b>                      | TENV                                   |
| <b>Frame</b>                          | 56H                                    |
| <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>              | Three Phase                            |
| <b>Output @ Frequency</b>             | .500 HP @ 60 HZ                        |
| <b>Phase</b>                          | 3                                      |
| <b>Synchronous Speed @ Frequency</b>  | 1200 RPM @ 60 HZ                       |
| <b>Voltage @ Frequency</b>            | 230.0 V @ 60 HZ<br>460.0 V @ 60 HZ     |
| <b>Agency Approvals</b>               | C UR US<br>WEEE                        |
| <b>Ambient Temperature</b>            | 40 °C                                  |
| <b>Auxiliary Box</b>                  | NO AUXILLARY BOX                       |
| <b>Auxiliary Box Lead Termination</b> | None                                   |
| <b>Base Indicator</b>                 | Rigid                                  |
| <b>Bearing Grease Type</b>            | Polyrex EM (-20F +300F)                |
| <b>Blower</b>                         | None                                   |
| <b>Current @ Voltage</b>              | 2.000 A @ 230.0 V<br>1.000 A @ 460.0 V |
| <b>Design Code</b>                    | B                                      |
| <b>Drip Cover</b>                     | No Drip Cover                          |
| <b>Duty Rating</b>                    | CONT                                   |
| <b>Efficiency @ 100% Load</b>         | 78.5 %                                 |
| <b>Electrically Isolated Bearing</b>  | Not Electrically Isolated              |
| <b>Feedback Device</b>                | NO FEEDBACK                            |
| <b>Front Shaft Indicator</b>          | None                                   |
| <b>Heater Indicator</b>               | No Heater                              |
| <b>High Voltage Full Load Amps</b>    | 1.0 a                                  |
| <b>Insulation Class</b>               | F                                      |

**Part Detail**

|                     |            |
|---------------------|------------|
| <b>Revision</b>     | B          |
| <b>Type</b>         | AC         |
| <b>Mech. spec.</b>  | 34T122     |
| <b>Base</b>         |            |
| <b>Status</b>       | PRD/A      |
| <b>Elec. spec.</b>  | 34WGR776   |
| <b>Layout</b>       | 34LYT122   |
| <b>Eff. date</b>    | 10-29-2024 |
| <b>CD Diagram</b>   | CD0005     |
| <b>Poles</b>        | 06         |
| <b>Leads</b>        | 9#18       |
| <b>Proprietary</b>  | False      |
| <b>Created date</b> | 09-12-2023 |

|                                      |                     |
|--------------------------------------|---------------------|
| <b>Inverter Code</b>                 | Not Inverter        |
| <b>KVA Code</b>                      | K                   |
| <b>Lifting Lugs</b>                  | No Lifting Lugs     |
| <b>Locked Bearing Indicator</b>      | No Locked Bearing   |
| <b>Motor Lead Quantity/Wire Size</b> | 9 @ 18 AWG          |
| <b>Motor Lead Termination</b>        | Flying Leads        |
| <b>Motor Standards</b>               | NEMA                |
| <b>Motor Type</b>                    | 3436M               |
| <b>Mounting Arrangement</b>          | F1                  |
| <b>Number of Poles</b>               | 6                   |
| <b>Overall Length</b>                | 12.64 IN            |
| <b>Power Factor</b>                  | 61                  |
| <b>Product Family</b>                | General Purpose     |
| <b>Pulley End Bearing Type</b>       | Ball                |
| <b>Pulley Face Code</b>              | Standard            |
| <b>Pulley Shaft Indicator</b>        | Standard            |
| <b>Rodent Screen</b>                 | None                |
| <b>Service Factor</b>                | 1.25                |
| <b>Shaft Diameter</b>                | 0.625 IN            |
| <b>Shaft Ground Indicator</b>        | No Shaft Grounding  |
| <b>Shaft Rotation</b>                | Reversible          |
| <b>Shaft Slinger Indicator</b>       | No Slinger          |
| <b>Speed</b>                         | 1140 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>             | None                |
| <b>Winding Thermal 2</b>             | None                |

**Nameplate**

| NP4558A02LL |              |        |         |               |      |  |       |    |  |  |      |
|-------------|--------------|--------|---------|---------------|------|--|-------|----|--|--|------|
| CAT #       | SPNM3539     |        |         | WGT           | 40   |  | LBS   |    |  |  |      |
| SER #       |              |        |         | ENCL          | TENV |  |       |    |  |  |      |
| SPEC        | 34T122R776   |        |         | CC            |      |  | IP    | 54 |  |  |      |
| HP          | .5           |        |         | NEMA NOM. EFF |      |  |       |    |  |  | 78.5 |
| VOLTS       | 230/460      |        |         | PF            | 61   |  |       |    |  |  |      |
| AMPS        | 2/1          |        |         |               |      |  |       |    |  |  |      |
| RATING      | 40C AMB-CONT |        |         |               |      |  |       |    |  |  |      |
| RPM         | 1140         |        |         | PH            | 3    |  | DES   | B  |  |  |      |
| FRAME       | 56H          | HZ     | 60      | CODE          | K    |  | CLASS | F  |  |  |      |
| SER.F.      | 1.25         | SF AMP | 2.2/1.1 |               |      |  |       |    |  |  |      |
| DE          | 6203         |        | ODE     | 6203          |      |  |       |    |  |  |      |
| GREASE      | POLYREX EM   |        |         |               |      |  |       |    |  |  |      |
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**AC Induction Motor Performance Data**

Record # 100837

Preliminary Data Sheet

| Winding: 34WGR776-R001 |    |         | Type: 3436M                              |                     | Enclosure: TENV         |           |      |
|------------------------|----|---------|------------------------------------------|---------------------|-------------------------|-----------|------|
| Nameplate Data         |    |         | 460 V, 60 Hz:<br>High Voltage Connection |                     |                         |           |      |
| Rated Output (HP)      |    | .5      | Full Load Torque                         |                     | 2.38 LB-FT              |           |      |
| Volts                  |    | 230/460 | Start Configuration                      |                     | direct on line          |           |      |
| Full Load Amps         |    | 2/1     | Breakdown Torque                         |                     | 8.4 LB-FT               |           |      |
| R.P.M.                 |    | 1140    | Pull-up Torque                           |                     | 5.4 LB-FT               |           |      |
| Hz                     | 60 | Phase   | 3                                        | Locked-rotor Torque |                         | 6.5 LB-FT |      |
| NEMA Design Code       |    | B       | KVA Code                                 |                     | K                       |           |      |
| Service Factor (S.F.)  |    | 1.25    | Starting Current                         |                     | 5.4 A                   |           |      |
| NEMA Nom. Eff.         |    | 78.5    | Power Factor                             |                     | 61                      |           |      |
| Rating - Duty          |    | 40C     | AMB-CONT                                 |                     | Temp. Rise @ Rated Load |           | 53°C |
| S.F. Amps              |    | 2.2/1.1 | Temp. Rise @ S.F. Load                   |                     | 67°C                    |           |      |
|                        |    |         | Locked-rotor Power Factor                |                     | 53                      |           |      |
|                        |    |         | Rotor inertia                            |                     | 0.0855 lb-ft²           |           |      |

**Load Characteristics 460 V, 60 Hz, 0.5 HP**

| % of Rated Load | 25   | 50   | 75   | 100  | 125  | 150  | S.F. |
|-----------------|------|------|------|------|------|------|------|
| Power Factor    | 24   | 39   | 52   | 61   | 69   | 74   | 69   |
| Efficiency      | 67   | 77   | 79.2 | 78.5 | 76.5 | 73.4 | 76.5 |
| Speed           | 1185 | 1171 | 1156 | 1137 | 1117 | 1091 | 1117 |
| Line amperes    | 0.75 | 0.8  | 0.89 | 1    | 1.13 | 1.3  | 1.13 |

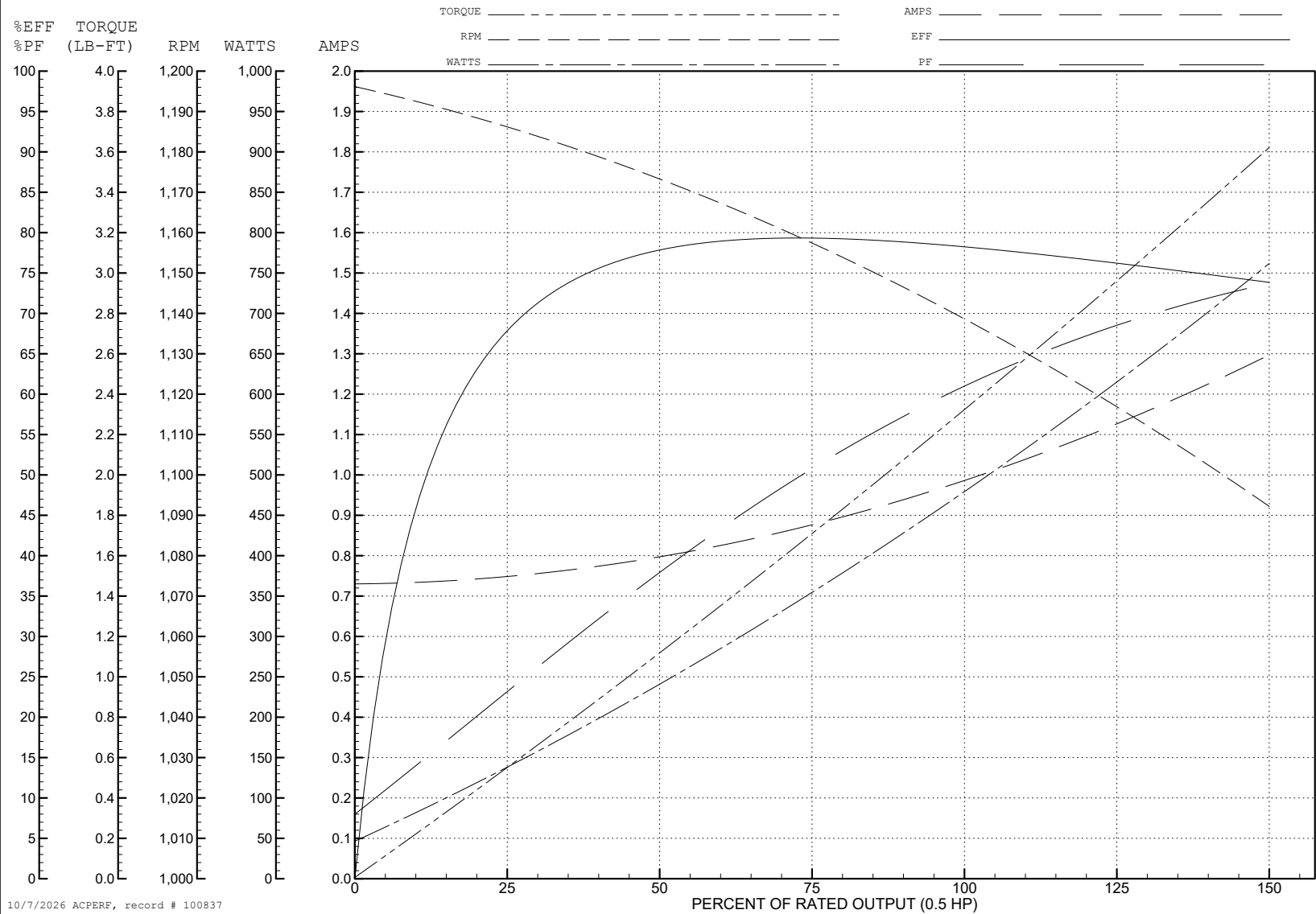
ABB Motors and Mechanical Inc.

WINDING # 34WGR776

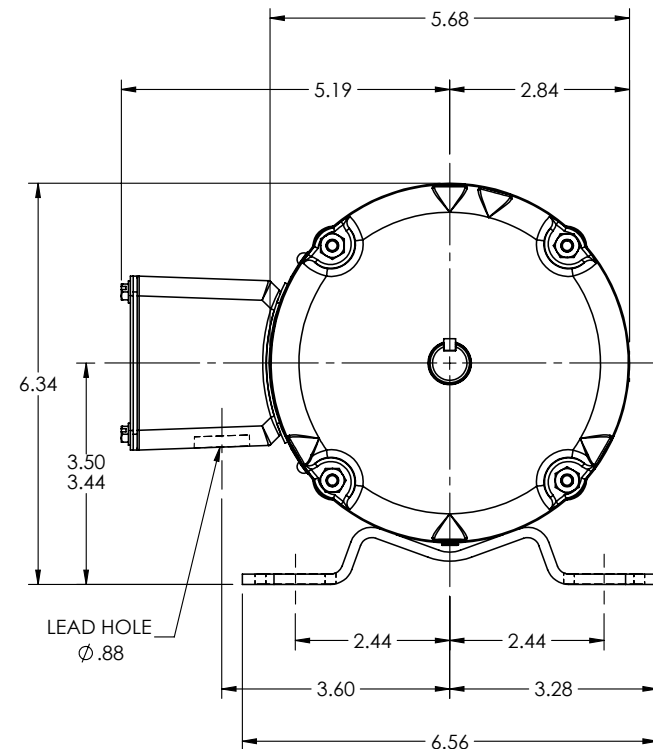
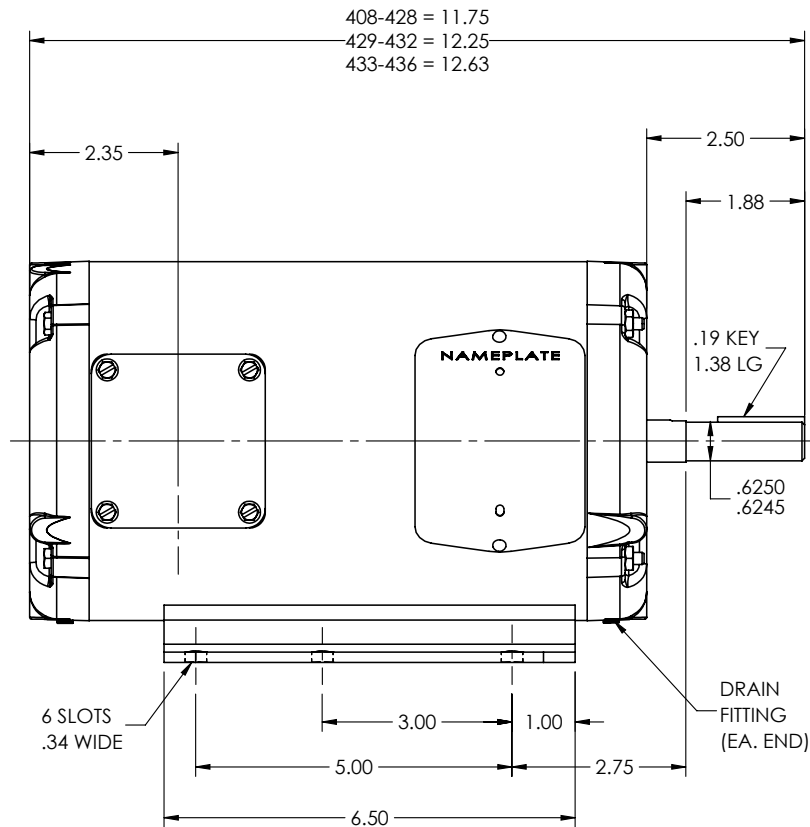
Typical performance - not guaranteed values.

0.5 HP 3 PH 60 HZ 1140 RPM 460 V 3436M

TORQUES (LB-FT): PO=8.4 PU=5.4 LR=6.5 LRA=5.4



34LYT122



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

REV. DESC: MISSING U DIM ON PRINT

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VERSION: 01

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34LYT122

MODEL NO. 34LYT122

BY: USALMAZ

REF: -

**BALDOR - RELIANCE®**

STD HORZ 34M NEMA 56/56H TENV W/DRAINS (IP54)

34LYT122

