

# ABB BALDOR RELIANCE III

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## Customer information packet

### SPM31108

.5HP, 1725RPM, 3PH, 60HZ, 56H, 3420M, ODP, F1, N

Class - None

Division - Not Applicable

**Specifications**

|                                       |                                       |
|---------------------------------------|---------------------------------------|
| <b>Enclosure</b>                      | ODP                                   |
| <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>  | 1800 RPM @ 60 HZ                      |
| <b>Voltage @ Frequency</b>            | 230.0 V @ 60 HZ<br>460.0 V @ 60 HZ    |
| <b>Agency Approvals</b>               | WEEE<br>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>                 | Rigid                                 |
| <b>Bearing Grease Type</b>            | Polyrex EM (-20F +300F)               |
| <b>Blower</b>                         | None                                  |
| <b>Current @ Voltage</b>              | .750 A @ 460.0 V<br>1.500 A @ 230.0 V |
| <b>Design Code</b>                    | B                                     |
| <b>Drip Cover</b>                     | No Drip Cover                         |
| <b>Duty Rating</b>                    | CONT                                  |
| <b>Efficiency @ 100% Load</b>         | 81.5 %                                |
| <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>    | 0.8 a                                 |
| <b>Insulation Class</b>               | F                                     |

**Part Detail**

|                     |            |
|---------------------|------------|
| <b>Revision</b>     | B          |
| <b>Type</b>         | AC         |
| <b>Mech. spec.</b>  | 34T123     |
| <b>Base</b>         |            |
| <b>Status</b>       | PRD/A      |
| <b>Elec. spec.</b>  | 34WGR771   |
| <b>Layout</b>       | 34LYT123   |
| <b>Eff. date</b>    | 10-29-2024 |
| <b>CD Diagram</b>   | CD0005     |
| <b>Poles</b>        | 04         |
| <b>Leads</b>        | 9#18       |
| <b>Proprietary</b>  | False      |
| <b>Created date</b> | 09-13-2023 |

|                                      |                     |
|--------------------------------------|---------------------|
| <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>                    | 3420M               |
| <b>Mounting Arrangement</b>          | F1                  |
| <b>Number of Poles</b>               | 4                   |
| <b>Overall Length</b>                | 11.75 IN            |
| <b>Power Factor</b>                  | 76                  |
| <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>RoHS Status</b>                   | ROHS COMPLIANT      |
| <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>                         | 1725 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 #       | SPM31108     |        |          | WGT           | 27  |       | LBS |    |  |  |      |
| SER #       |              |        |          | ENCL          | ODP |       |     |    |  |  |      |
| SPEC        | 34T123R771   |        |          | CC            |     |       | IP  | 22 |  |  |      |
| HP          | .5           |        |          | NEMA NOM. EFF |     |       |     |    |  |  | 81.5 |
| VOLTS       | 230/460      |        |          | PF            | 76  |       |     |    |  |  |      |
| AMPS        | 1.5/.75      |        |          |               |     |       |     |    |  |  |      |
| RATING      | 40C AMB-CONT |        |          |               |     |       |     |    |  |  |      |
| RPM         | 1725         |        |          |               | PH  | 3     | DES | B  |  |  |      |
| FRAME       | 56H          | HZ     | 60       | CODE          | K   | CLASS | F   |    |  |  |      |
| SER.F.      | 1.25         | SF AMP | 1.76/.88 |               |     |       |     |    |  |  |      |
| DE          | 6203         |        | ODE      | 6203          |     |       |     |    |  |  |      |
| GREASE      | POLYREX EM   |        |          |               |     |       |     |    |  |  |      |
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**AC Induction Motor Performance Data**

Record # 100721

Preliminary Data Sheet

| Winding: 34WGR771-R003 |    |          | Type: 3420M                              |                     | Enclosure: ODP          |           |        |
|------------------------|----|----------|------------------------------------------|---------------------|-------------------------|-----------|--------|
| Nameplate Data         |    |          | 460 V, 60 Hz:<br>High Voltage Connection |                     |                         |           |        |
| Rated Output (HP)      |    | .5       | Full Load Torque                         |                     | 1.51 LB-FT              |           |        |
| Volts                  |    | 230/460  | Start Configuration                      |                     | direct on line          |           |        |
| Full Load Amps         |    | 1.5/.75  | Breakdown Torque                         |                     | 5.3 LB-FT               |           |        |
| R.P.M.                 |    | 1725     | Pull-up Torque                           |                     | 3.5 LB-FT               |           |        |
| Hz                     | 60 | Phase    | 3                                        | Locked-rotor Torque |                         | 4.1 LB-FT |        |
| NEMA Design Code       |    | B        | KVA Code                                 | K                   | Starting Current        |           | 5.4 A  |
| Service Factor (S.F.)  |    | 1.25     | No-load Current                          |                     | 0.46 A                  |           |        |
| NEMA Nom. Eff.         |    | 81.5     | Power Factor                             | 76                  | Line-line Res. @ 25°C   |           | 30.4 Ω |
| Rating - Duty          |    | 40C      | AMB-CONT                                 |                     | Temp. Rise @ Rated Load |           | 22°C   |
| S.F. Amps              |    | 1.76/.88 | Temp. Rise @ S.F. Load                   |                     | 67°C                    |           |        |
|                        |    |          | Locked-rotor Power Factor                |                     | 54.5                    |           |        |
|                        |    |          | Rotor inertia                            |                     | 0.0476 lb-ft²           |           |        |

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

| % of Rated Load | 25   | 50   | 75   | 100  | 125  | 150  | S.F. |
|-----------------|------|------|------|------|------|------|------|
| Power Factor    | 37   | 56   | 69   | 76   | 80   | 82   | 80   |
| Efficiency      | 66.3 | 77.5 | 81.1 | 81.9 | 81.7 | 80.6 | 81.7 |
| Speed           | 1779 | 1762 | 1744 | 1725 | 1704 | 1681 | 1704 |
| Line amperes    | 0.48 | 0.55 | 0.63 | 0.75 | 0.88 | 1.03 | 0.88 |

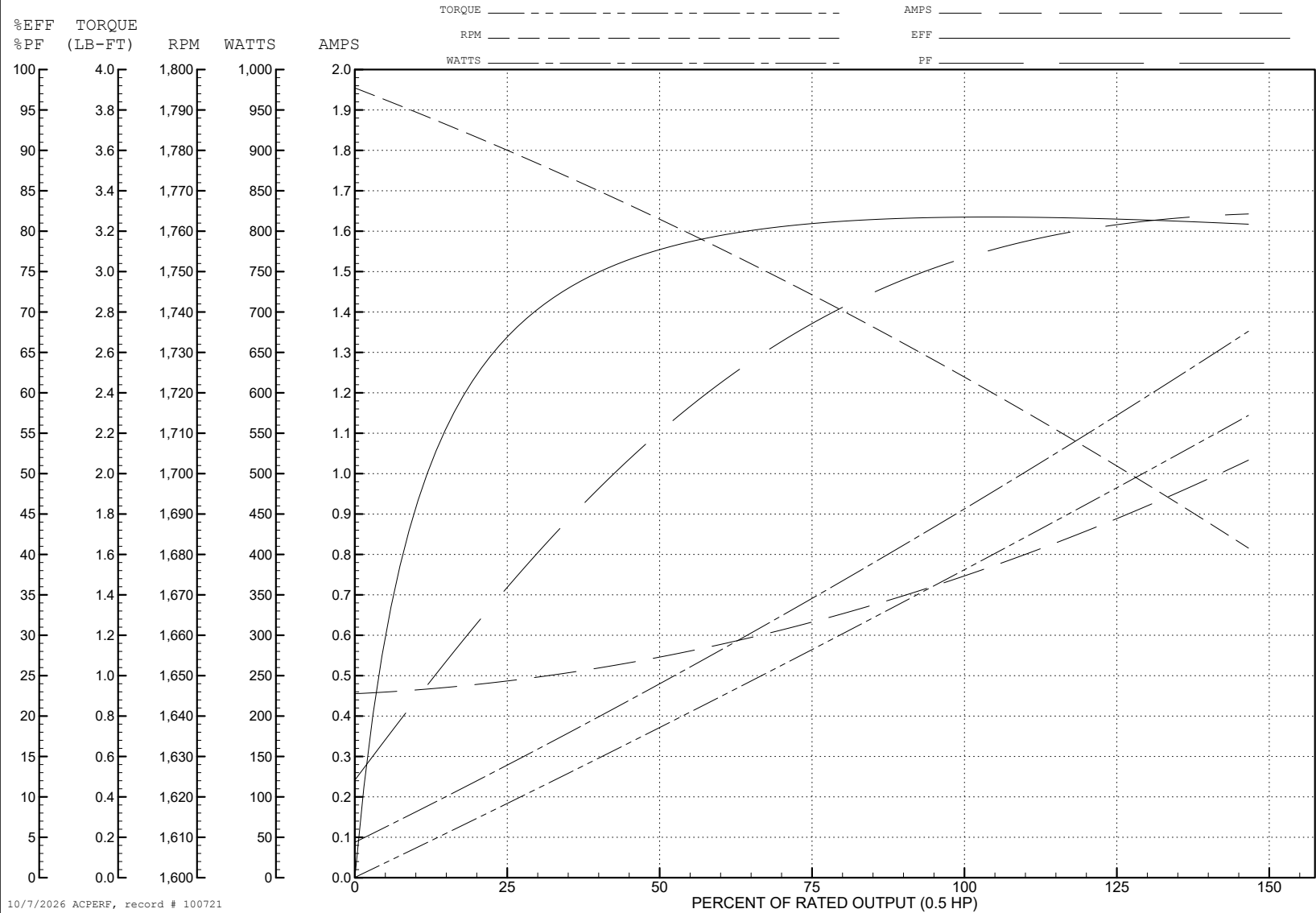
ABB Motors and Mechanical Inc.

WINDING # 34WGR771

0.5 HP 3 PH 60 HZ 1725 RPM 460 V 3420M

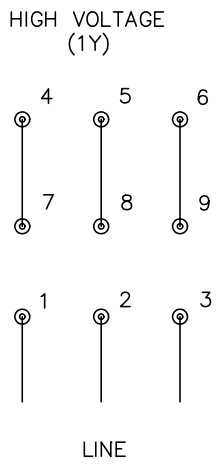
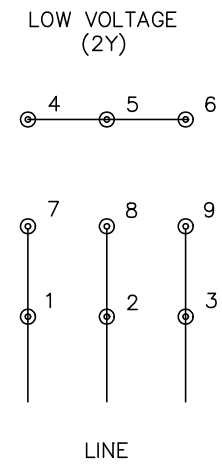
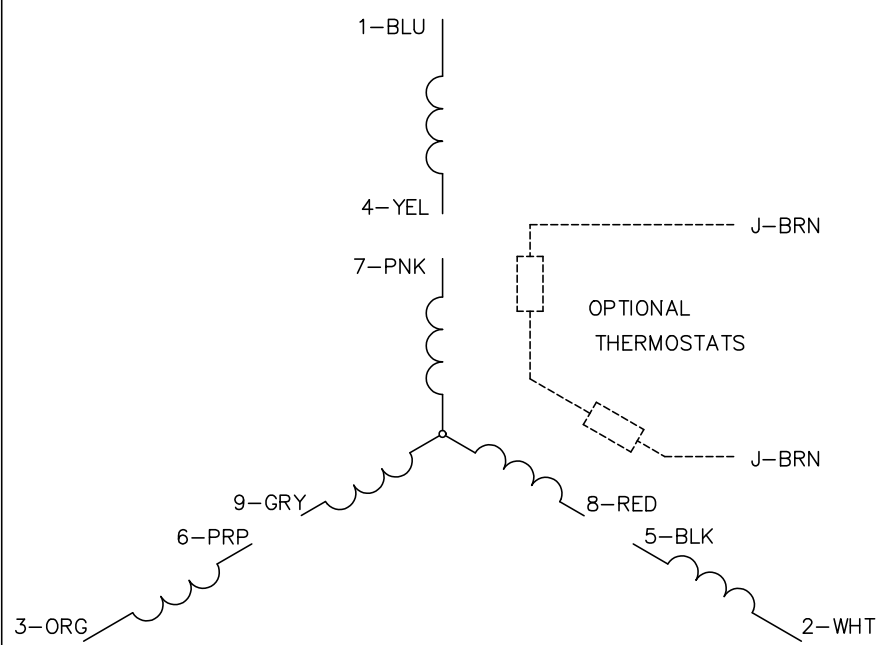
Typical performance - not guaranteed values.

TORQUES (LB-FT): PO=5.3 PU=3.5 LR=4.1 LRA=5.4





CD0005



- NOTES:
- 1. INTERCHANGE ANY TWO LINE LEADS TO REVERSE ROTATION.
  - 2. OPTIONAL THERMOSTATS ARE PROVIDED WHEN SPECIFIED.
  - 3. ACTUAL NUMBER OF INTERNAL PARALLEL CIRCUITS MAY BE A MULTIPLE OF THOSE SHOWN ABOVE.
  - 4. LEAD COLORS ARE OPTIONAL. LEADS MUST ALWAYS BE NUMBERED AS SHOWN.

|                                           |         |                         |              |
|-------------------------------------------|---------|-------------------------|--------------|
| REV. DESC: REVISE TO SHOW OPTIONAL COLORS |         |                         |              |
| REV. LTR: E                               | BY: JLP | REVISED: 01/19/99 10:15 | TDR: 0171435 |
| 900000                                    |         | FILE: AAA00005140       | MDL: -       |
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**BALDOR ELECTRIC Co.**

3PH, DV, 9 LEADS

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