

# ABB BALDOR RELIANCE III

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## Customer information packet

### KENM3454

.25HP, 1785RPM, 3PH, 60HZ, 56C, 3512M, GP, N

Class - None

Division - Not Applicable

**Specifications**

|                                |                                       |
|--------------------------------|---------------------------------------|
| Enclosure                      | TENV                                  |
| Frame                          | 56C                                   |
| Frame Material                 | Steel                                 |
| Frequency                      | 60.00 Hz                              |
| Haz Area Class and Group       | None                                  |
| Haz Area Division              | Not Applicable                        |
| Motor Letter Type              | Three Phase                           |
| Output @ Frequency             | .250 HP @ 60 HZ                       |
| Phase                          | 3                                     |
| Synchronous Speed @ Frequency  | 1800 RPM @ 60 HZ                      |
| Voltage @ Frequency            | 230.0 V @ 60 HZ<br>460.0 V @ 60 HZ    |
| Agency Approvals               | C UR US                               |
| Ambient Temperature            | 40 °C                                 |
| Auxiliary Box                  | NO AUXILLARY BOX                      |
| Auxiliary Box Lead Termination | None                                  |
| Base Indicator                 | No Mounting                           |
| Bearing Grease Type            | Polyrex EM (-20F +300F)               |
| Blower                         | None                                  |
| Current @ Voltage              | .800 A @ 460.0 V<br>1.600 A @ 230.0 V |
| Design Code                    | B                                     |
| Drip Cover                     | No Drip Cover                         |
| Duty Rating                    | CONT                                  |
| Efficiency @ 100% Load         | 70.0 %                                |
| Electrically Isolated Bearing  | Not Electrically Isolated             |
| Feedback Device                | NO FEEDBACK                           |
| Front Shaft Indicator          | None                                  |
| Heater Indicator               | No Heater                             |
| High Voltage Full Load Amps    | 0.8 a                                 |
| Insulation Class               | F                                     |
| Inverter Code                  | Inverter Duty                         |

**Part Detail**

|              |            |
|--------------|------------|
| Revision     | E          |
| Type         | AC         |
| Mech. spec.  | 35E010     |
| Base         |            |
| Status       | PRD/A      |
| Elec. spec.  | 35WGG155   |
| Layout       | 35LYE010   |
| Eff. date    | 01-05-2026 |
| CD Diagram   | CD0005     |
| Poles        | 04         |
| Leads        | 9#18       |
| Proprietary  | False      |
| Created date | 05-01-2023 |

|                                      |                     |
|--------------------------------------|---------------------|
| <b>KVA Code</b>                      | <b>U</b>            |
| <b>Lifting Lugs</b>                  | No Lifting Lugs     |
| <b>Locked Bearing Indicator</b>      | 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>                    | 3512M               |
| <b>Mounting Arrangement</b>          | F1                  |
| <b>Number of Poles</b>               | 4                   |
| <b>Overall Length</b>                | 11.06 IN            |
| <b>Power Factor</b>                  | 42                  |
| <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>        | Standard            |
| <b>Rodent Screen</b>                 | None                |
| <b>RoHS Status</b>                   | ROHS COMPLIANT      |
| <b>Service Factor</b>                | 1.15                |
| <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>                         | 1785 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**

| NP2116L      |              |  |      |      |    |     |   |    |   |  |  |
|--------------|--------------|--|------|------|----|-----|---|----|---|--|--|
| CAT.NO.      | KENM3454     |  |      |      |    |     |   |    |   |  |  |
| SPEC.        | 35E010G155G4 |  |      |      |    |     |   |    |   |  |  |
| HP           | .25          |  |      |      |    |     |   |    |   |  |  |
| VOLTS        | 230/460      |  |      |      |    |     |   |    |   |  |  |
| AMP          | 1.6/.8       |  |      |      |    |     |   |    |   |  |  |
| RPM          | 1785         |  |      |      |    |     |   |    |   |  |  |
| FRAME        | 56C          |  |      | HZ   | 60 |     |   | PH | 3 |  |  |
| SER.F.       | 1.15         |  | CODE | U    |    | DES | B | CL | F |  |  |
| NEMA-NOM-EFF | 70           |  | PF   | 42   |    |     |   |    |   |  |  |
| RATING       | 40C AMB-CONT |  |      |      |    |     |   |    |   |  |  |
| CC           |              |  |      |      |    |     |   |    |   |  |  |
| DE           | 6205         |  | ODE  | 6203 |    |     |   |    |   |  |  |
| ENCL         | TENV         |  | SN   |      |    |     |   |    |   |  |  |
|              | SFA 1.61/.81 |  |      |      |    |     |   |    |   |  |  |

**AC Induction Motor Performance Data**

Record # 91140

Typical performance - not guaranteed values

| Winding: 35WGG155-R061 |          |         | Type: 3512M                              |   | Enclosure: TENV           |                       |               |        |
|------------------------|----------|---------|------------------------------------------|---|---------------------------|-----------------------|---------------|--------|
| Nameplate Data         |          |         | 460 V, 60 Hz:<br>High Voltage Connection |   |                           |                       |               |        |
| Rated Output (HP)      |          | .25     | Full Load Torque                         |   | 0.739 LB-FT               |                       |               |        |
| Volts                  |          | 230/460 | Start Configuration                      |   | direct on line            |                       |               |        |
| Full Load Amps         |          | 1.6/.8  | Breakdown Torque                         |   | 6.28 LB-FT                |                       |               |        |
| R.P.M.                 |          | 1785    | Pull-up Torque                           |   | 3.26 LB-FT                |                       |               |        |
| Hz                     | 60 Phase | 3       | Locked-rotor Torque                      |   | 4.04 LB-FT                |                       |               |        |
| NEMA Design Code       |          | B       | KVA Code                                 | U | Starting Current          |                       | 6.71 A        |        |
| Service Factor (S.F.)  |          | 1.15    | No-load Current                          |   | 0.792 A                   |                       |               |        |
| NEMA Nom. Eff.         |          | 70      | Power Factor                             |   | 42                        | Line-line Res. @ 25°C |               | 43.2 Ω |
| Rating - Duty          |          | 40C     | AMB-CONT                                 |   | Temp. Rise @ Rated Load   |                       | 46°C          |        |
| S.F. Amps              |          |         |                                          |   | Temp. Rise @ S.F. Load    |                       | 48°C          |        |
|                        |          |         |                                          |   | Locked-rotor Power Factor |                       | 70.7767       |        |
|                        |          |         |                                          |   | Rotor inertia             |                       | 0.0866 lb-ft² |        |

**Load Characteristics 460 V, 60 Hz, 0.25 HP**

| % of Rated Load | 25    | 50   | 75    | 100   | 125   | 150   | S.F.  |
|-----------------|-------|------|-------|-------|-------|-------|-------|
| Power Factor    | 19    | 27   | 34    | 41    | 49    | 55    | 46    |
| Efficiency      | 40.8  | 57   | 65.8  | 71.2  | 74.5  | 76.7  | 73.2  |
| Speed           | 1795  | 1791 | 1787  | 1784  | 1779  | 1775  | 1781  |
| Line amperes    | 0.782 | 0.78 | 0.787 | 0.796 | 0.813 | 0.843 | 0.806 |

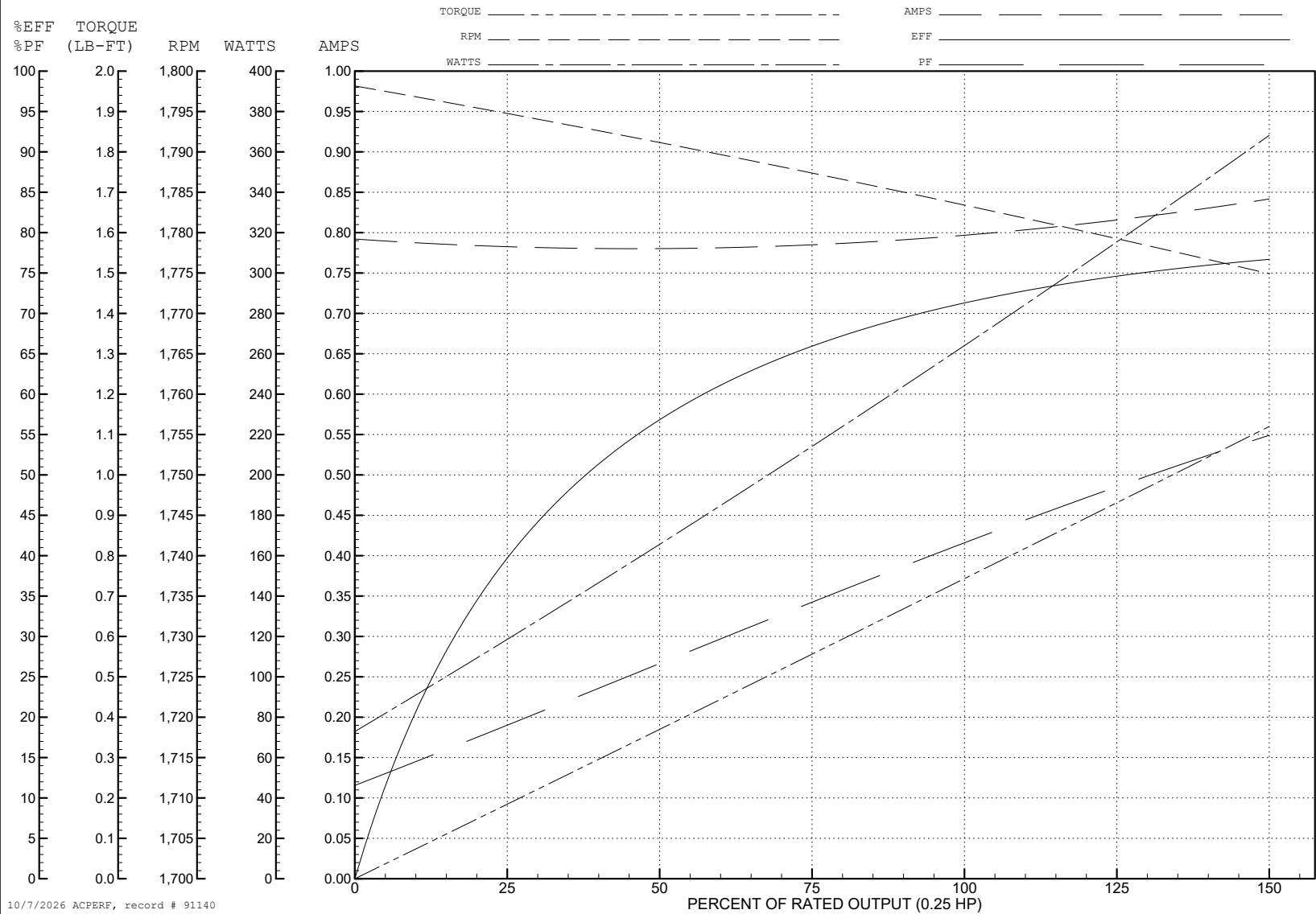
ABB Motors and Mechanical Inc.

WINDING # 35WGG155

Typical performance - not guaranteed values.

0.25 HP 3 PH 60 HZ 1785 RPM 460 V 3512M

TORQUES (LB-FT) : PO=6.28 PU=3.26 LR=4.04 LRA=6.71



10/7/2026 ACPERF, record # 91140

