

# ABB BALDOR RELIANCE III

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## Customer information packet

### WDL3507

.75HP, 1750RPM, 1PH, 60HZ, 56, 3522L, TEFC, F1

Class - None

Division - Not Applicable

**Specifications**

|                                |                                         |
|--------------------------------|-----------------------------------------|
| Enclosure                      | TEFC                                    |
| Frame                          | 56                                      |
| 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             | .750 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               | CSA<br>UR                               |
| 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              | 5.000 A @ 230.0 V<br>10.000 A @ 115.0 V |
| Design Code                    | N                                       |
| 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    | 5.0 a                                   |
| Insulation Class               | F                                       |

**Part Detail**

|              |            |
|--------------|------------|
| Revision     | F          |
| Type         | AC         |
| Mech. spec.  | 35J271     |
| Base         |            |
| Status       | PRD/A      |
| Elec. spec.  | 35WGG393   |
| Layout       | 35LYJ271   |
| Eff. date    | 06-25-2026 |
| CD Diagram   | CD0001     |
| Poles        | 04         |
| Leads        | 6#18       |
| Proprietary  | False      |
| Created date | 08-01-2022 |

|                                      |                     |
|--------------------------------------|---------------------|
| <b>Inverter Code</b>                 | Not Inverter        |
| <b>KVA Code</b>                      | L                   |
| <b>Lifting Lugs</b>                  | No Lifting Lugs     |
| <b>Locked Bearing Indicator</b>      | No Locked Bearing   |
| <b>Motor Lead Quantity/Wire Size</b> | 6 @ 18 AWG          |
| <b>Motor Lead Termination</b>        | Flying Leads        |
| <b>Motor Standards</b>               | NEMA                |
| <b>Motor Type</b>                    | 3522L               |
| <b>Mounting Arrangement</b>          | F1                  |
| <b>Number of Poles</b>               | 4                   |
| <b>Overall Length</b>                | 13.22 IN            |
| <b>Power Factor</b>                  | 69                  |
| <b>Product Family</b>                | Wash Down           |
| <b>Pulley End Bearing Type</b>       | Sealed Bearing      |
| <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>       | Shaft Slinger       |
| <b>Speed</b>                         | 1750 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**

| NP1496L      |              |  |      |      |     |   |       |   |  |  |  |
|--------------|--------------|--|------|------|-----|---|-------|---|--|--|--|
| CAT.NO.      | WDL3507      |  |      |      |     |   |       |   |  |  |  |
| SPEC.        | 35J271G393   |  |      |      |     |   |       |   |  |  |  |
| HP           | .75          |  |      |      |     |   |       |   |  |  |  |
| VOLTS        | 115/230      |  |      |      |     |   |       |   |  |  |  |
| AMP          | 10/5         |  |      |      |     |   |       |   |  |  |  |
| RPM          | 1750         |  |      |      |     |   |       |   |  |  |  |
| FRAME        | 56           |  | HZ   | 60   |     |   | PH    | 1 |  |  |  |
| SER.F.       | 1.25         |  | CODE | L    | DES | N | CLASS | F |  |  |  |
| NEMA-NOM-EFF | 70           |  | PF   | 69   |     |   |       |   |  |  |  |
| RATING       | 40C AMB-CONT |  |      |      |     |   |       |   |  |  |  |
| CC           |              |  |      |      |     |   |       |   |  |  |  |
| DE           | 6205         |  | ODE  | 6203 |     |   |       |   |  |  |  |
| ENCL         | TEFC         |  | SN   |      |     |   |       |   |  |  |  |
|              | SFA 12.6/6.3 |  |      |      |     |   |       |   |  |  |  |

**AC Induction Motor Performance Data**

Record # 89059

Typical performance - not guaranteed values

| Winding: 35WGG393-R001 |    |              | Type: 3522L                             |                           | Enclosure: TEFC       |              |                            |
|------------------------|----|--------------|-----------------------------------------|---------------------------|-----------------------|--------------|----------------------------|
| Nameplate Data         |    |              | 115 V, 60 Hz:<br>Low Voltage Connection |                           |                       |              |                            |
| Rated Output (HP)      |    | .75          | Full Load Torque                        |                           | 2.24 LB-FT            |              |                            |
| Volts                  |    | 115/230      | Start Configuration                     |                           | direct on line        |              |                            |
| Full Load Amps         |    | 8.7/4.35     | Breakdown Torque                        |                           | 4.86 LB-FT            |              |                            |
| R.P.M.                 |    | 1720         | Pull-up Torque                          |                           | 4 LB-FT               |              |                            |
| Hz                     | 60 | Phase        | 1                                       | Locked-rotor Torque       |                       | 8.91 LB-FT   |                            |
| NEMA Design Code       |    | N            | KVA Code                                | K                         | Starting Current      |              | 59.09 A                    |
| Service Factor (S.F.)  |    | 1.25         |                                         | No-load Current           |                       | 4.92 A       |                            |
| NEMA Nom. Eff.         |    | 70           | Power Factor                            | 79                        | Line-line Res. @ 25°C |              | 1.14 Ω A Ph<br>1.85 Ω B Ph |
| Rating - Duty          |    | 40C AMB-CONT |                                         | Temp. Rise @ Rated Load   |                       | 91°C         |                            |
| S.F. Amps              |    | 10.9/5.45    |                                         | Temp. Rise @ S.F. Load    |                       | 119°C        |                            |
|                        |    |              |                                         | Locked-rotor Power Factor |                       | 97           |                            |
|                        |    |              |                                         | Rotor inertia             |                       | 0.159 lb-ft² |                            |

**Load Characteristics 115 V, 60 Hz, 0.75 HP**

| % of Rated Load | 25   | 50   | 75   | 100  | 125   | 150   | S.F. |
|-----------------|------|------|------|------|-------|-------|------|
| Power Factor    | 41   | 58   | 70   | 77   | 82    | 85    | 81   |
| Efficiency      | 57.2 | 69.2 | 71.9 | 72.1 | 70    | 66    | 70.9 |
| Speed           | 1784 | 1770 | 1754 | 1737 | 1716  | 1687  | 1716 |
| Line amperes    | 5.24 | 6.06 | 7.22 | 8.64 | 10.38 | 12.49 | 10.3 |

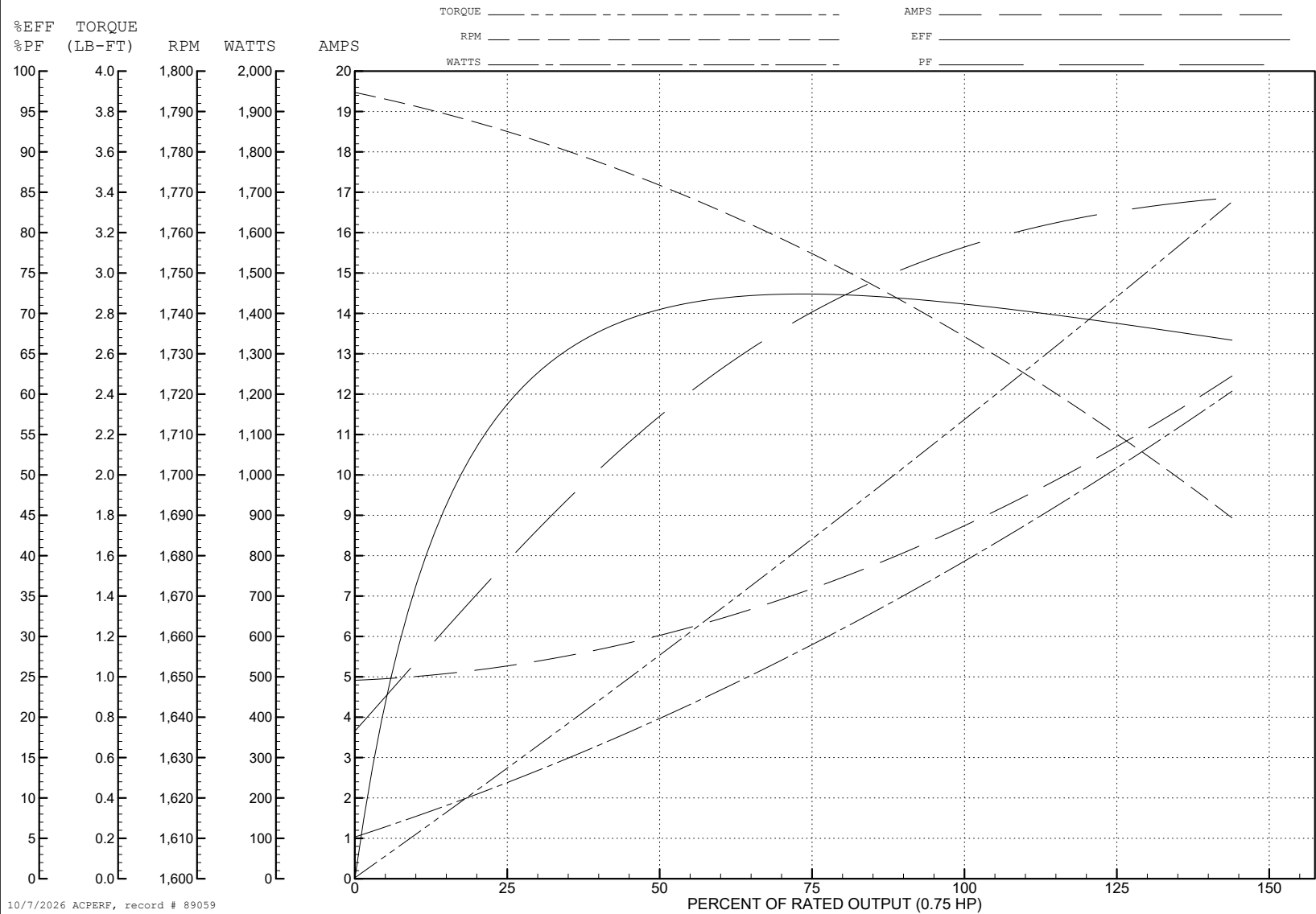
ABB Motors and Mechanical Inc.

WINDING # 35WGG393

Typical performance - not guaranteed values.

0.75 HP 1 PH 60 HZ 1720 RPM 115 V 3522L

TORQUES (LB-FT) : PO=4.86 PU=4 LR=8.91 LRA=59.09





CD0001

