

# ABB BALDOR RELIANCE III

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## Customer information packet

JL3514A

1.5HP, 1725RPM, 1PH, 60HZ, 56J, 3532LC, TEFC, F

Class - None

Division - Not Applicable

**Specifications**

|                                |                                         |
|--------------------------------|-----------------------------------------|
| Enclosure                      | TEFC                                    |
| 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  | 1800 RPM @ 60 HZ                        |
| Voltage @ Frequency            | 115.0 V @ 60 HZ<br>230.0 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              | 13.400 A @ 115.0 V<br>6.700 A @ 230.0 V |
| Design Code                    | L                                       |
| Drip Cover                     | No Drip Cover                           |
| Duty Rating                    | CONT                                    |
| Efficiency @ 100% Load         | 80.0 %                                  |
| Electrically Isolated Bearing  | Not Electrically Isolated               |
| Feedback Device                | NO FEEDBACK                             |
| Front Shaft Indicator          | None                                    |
| Heater Indicator               | No Heater                               |
| High Voltage Full Load Amps    | 6.7 a                                   |
| Insulation Class               | F                                       |
| Inverter Code                  | Not Inverter                            |

**Part Detail**

|              |                |
|--------------|----------------|
| Revision     | B              |
| Type         | AC             |
| Mech. spec.  | 35F974         |
| Base         |                |
| Status       | PRD/A          |
| Elec. spec.  | 35WGG377       |
| Layout       | 35LYF974       |
| Eff. date    | 03-13-2025     |
| CD Diagram   | CD0098A02      |
| Poles        | 04             |
| Leads        | 4#18,1#16 #4TH |
| Proprietary  | False          |
| Created date | 02-23-2023     |

|                                      |                            |
|--------------------------------------|----------------------------|
| <b>KVA Code</b>                      | <b>H</b>                   |
| <b>Lifting Lugs</b>                  | No Lifting Lugs            |
| <b>Locked Bearing Indicator</b>      | Locked Bearing             |
| <b>Motor Lead Quantity/Wire Size</b> | 4 @ 18 AWG                 |
| <b>Motor Lead Termination</b>        | Flying Leads               |
| <b>Motor Standards</b>               | NEMA                       |
| <b>Motor Type</b>                    | 3532LC                     |
| <b>Mounting Arrangement</b>          | F1                         |
| <b>Number of Poles</b>               | 4                          |
| <b>Overall Length</b>                | 14.60 IN                   |
| <b>Power Factor</b>                  | 90                         |
| <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>Service Factor</b>                | 1.00                       |
| <b>Shaft Diameter</b>                | 0.625 IN                   |
| <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>                         | 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>      | Do Not Use Eve-Not Valid   |
| <b>Vibration Sensor Indicator</b>    | No Vibration Sensor        |
| <b>Winding Thermal 1</b>             | Automatic Thermal Overload |
| <b>Winding Thermal 1 Location</b>    | SB                         |
| <b>Winding Thermal 2</b>             | None                       |

**Nameplate**

| NP1257L      |              |      |      |     |   |    |   |    |  |   |  |
|--------------|--------------|------|------|-----|---|----|---|----|--|---|--|
| CAT.NO.      | JL3514A      |      |      |     |   |    |   |    |  |   |  |
| SPEC.        | 35F974G377   |      |      |     |   |    |   |    |  |   |  |
| HP           | 1.5          |      |      |     |   |    |   |    |  |   |  |
| VOLTS        | 115/230      |      |      |     |   |    |   |    |  |   |  |
| AMP          | 13.4/6.7     |      |      |     |   |    |   |    |  |   |  |
| RPM          | 1725         |      |      |     |   |    |   |    |  |   |  |
| FRAME        | 56J          |      |      | HZ  |   | 60 |   | PH |  | 1 |  |
| SER.F.       | 1.00         | CODE | H    | DES | L | CL | F |    |  |   |  |
| NEMA-NOM-EFF | 80           | PF   | 90   |     |   |    |   |    |  |   |  |
| RATING       | 40C AMB-CONT |      |      |     |   |    |   |    |  |   |  |
| CC           |              |      |      |     |   |    |   |    |  |   |  |
| DE           | 6205         | ODE  | 6203 |     |   |    |   |    |  |   |  |
| ENCL         | TEFC         | SN   |      |     |   |    |   |    |  |   |  |

**AC Induction Motor Performance Data**

Record # 88874

Typical performance - not guaranteed values

| Winding: 35WGG377-R002 |                 |              | Type: 3532LC                             |  | Enclosure: TEFC             |  |
|------------------------|-----------------|--------------|------------------------------------------|--|-----------------------------|--|
| Nameplate Data         |                 |              | 230 V, 60 Hz:<br>High Voltage Connection |  |                             |  |
| Rated Output (HP)      |                 | 1.5          | Full Load Torque                         |  | 4.56 LB-FT                  |  |
| Volts                  |                 | 115/230      | Start Configuration                      |  | direct on line              |  |
| Full Load Amps         |                 | 13.4/6.7     | Breakdown Torque                         |  | 9.9 LB-FT                   |  |
| R.P.M.                 |                 | 1725         | Pull-up Torque                           |  | 8.06 LB-FT                  |  |
| Hz                     | 60 Phase        | 1            | Locked-rotor Torque                      |  | 12.98 LB-FT                 |  |
| NEMA Design Code       |                 | L KVA Code   | Starting Current                         |  | 43.97 A                     |  |
| Service Factor (S.F.)  |                 | 1            | No-load Current                          |  | 0.877 A                     |  |
| NEMA Nom. Eff.         | 80 Power Factor | 90           | Line-line Res. @ 25°C                    |  | 0.517 Ω A Ph<br>1.32 Ω B Ph |  |
| Rating - Duty          |                 | 40C AMB-CONT | Temp. Rise @ Rated Load                  |  | 67°C                        |  |
|                        |                 |              | Locked-rotor Power Factor                |  | 91.1                        |  |
|                        |                 |              | Rotor inertia                            |  | 0.232 lb-ft²                |  |

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

| % of Rated Load | 25   | 50   | 75   | 100  | 125  | 150   |
|-----------------|------|------|------|------|------|-------|
| Power Factor    | 95   | 98   | 98   | 98   | 97   | 96    |
| Efficiency      | 68.1 | 80.4 | 82.5 | 81.1 | 76.9 | 69.8  |
| Speed           | 1782 | 1765 | 1746 | 1723 | 1690 | 1641  |
| Line amperes    | 1.83 | 3.08 | 4.5  | 6.1  | 8.12 | 10.79 |

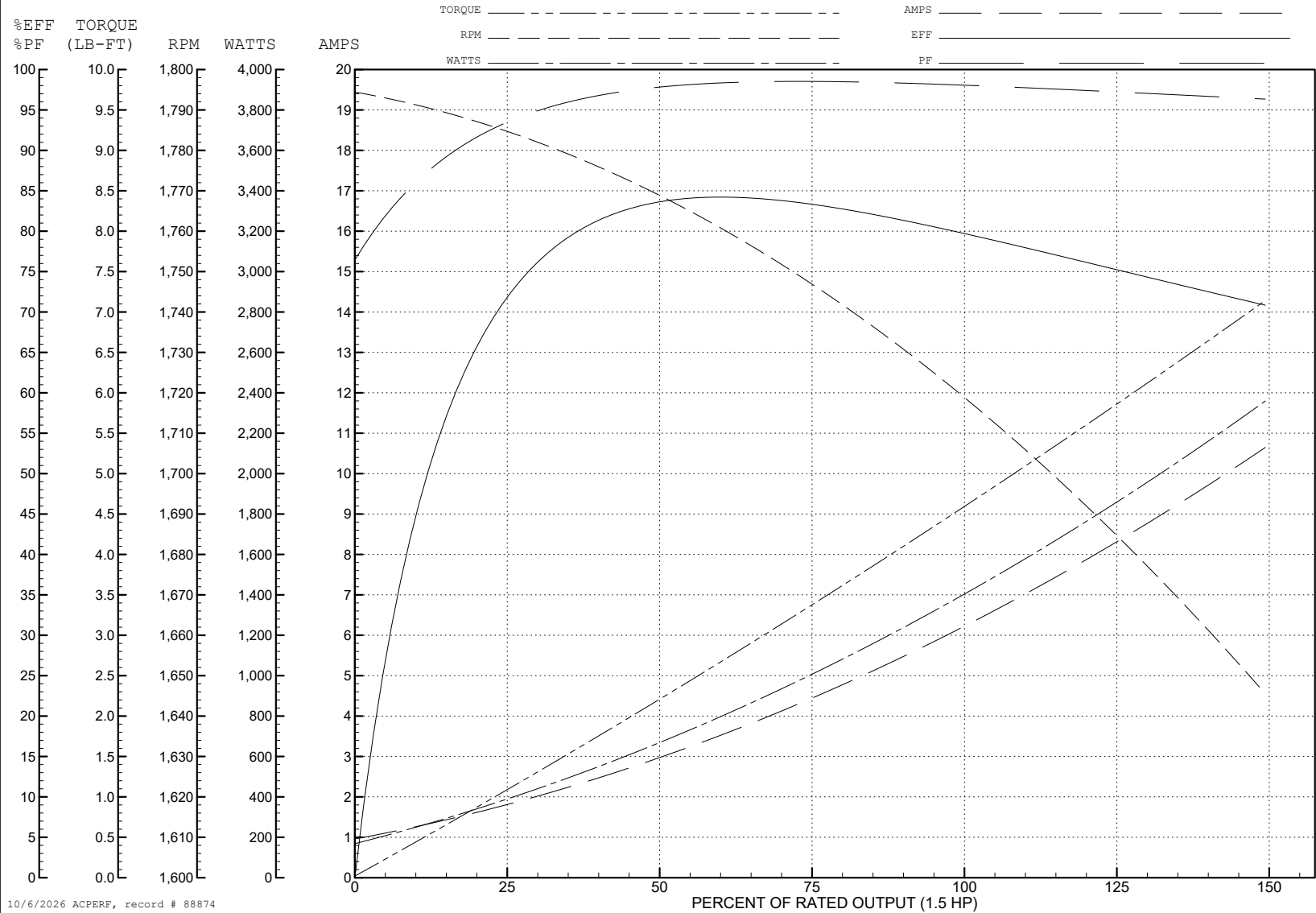
ABB Motors and Mechanical Inc.

WINDING # 35WGG377

Typical performance - not guaranteed values.

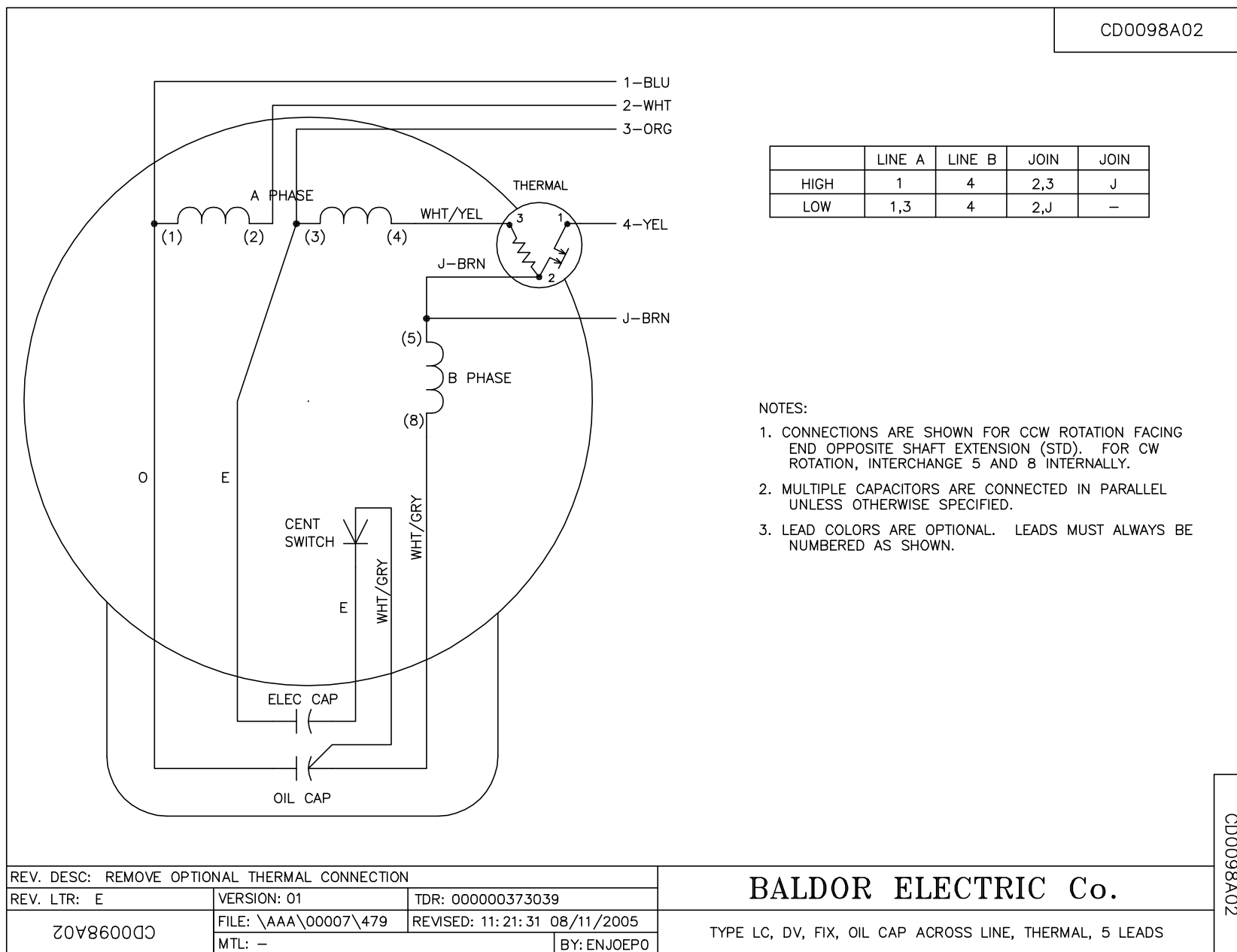
1.5 HP 1 PH 60 HZ 1725 RPM 230 V 3532LC

TORQUES (LB-FT): PO=9.9 PU=8.06 LR=12.98 LRA=43.97





CD0098A02



CD0098A02

|                                               |                      |                                |
|-----------------------------------------------|----------------------|--------------------------------|
| REV. DESC: REMOVE OPTIONAL THERMAL CONNECTION |                      |                                |
| REV. LTR: E                                   | VERSION: 01          | TDR: 000000373039              |
| CD0098A02                                     | FILE: \AAA\00007\479 | REVISED: 11: 21: 31 08/11/2005 |
|                                               | MTL: —               | BY: ENJOEPO                    |

**BALDOR ELECTRIC Co.**

TYPE LC, DV, FIX, OIL CAP ACROSS LINE, THERMAL, 5 LEADS