

# ABB BALDOR RELIANCE III

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## Customer information packet

### EL3514T

1.5HP, 1725RPM, 1PH, 60HZ, 145T, 3532LC, TEFC

Class - None

Division - Not Applicable

**Specifications**

|                                |                                         |
|--------------------------------|-----------------------------------------|
| Enclosure                      | TEFC                                    |
| Frame                          | 145T                                    |
| 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                 | Rigid                                   |
| Bearing Grease Type            | Polyrex EM (-20F +300F)                 |
| Blower                         | None                                    |
| Current @ Voltage              | 12.200 A @ 115.0 V<br>6.100 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    | 6.1 a                                   |
| Insulation Class               | F                                       |
| Inverter Code                  | Not Inverter                            |

**Part Detail**

|              |            |
|--------------|------------|
| Revision     | L          |
| Type         | AC         |
| Mech. spec.  | 35EE001    |
| Base         |            |
| Status       | PRD/A      |
| Elec. spec.  | 35WGG242   |
| Layout       | 35LYEE001  |
| Eff. date    | 11-13-2025 |
| CD Diagram   | CD0055     |
| Poles        | 04         |
| Leads        | 6#18       |
| Proprietary  | False      |
| Created date | 08-01-2022 |

|                                      |                     |
|--------------------------------------|---------------------|
| <b>KVA Code</b>                      | <b>H</b>            |
| <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>                    | 3532LC              |
| <b>Mounting Arrangement</b>          | F1                  |
| <b>Number of Poles</b>               | 4                   |
| <b>Overall Length</b>                | 14.16 IN            |
| <b>Power Factor</b>                  | 98                  |
| <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>                | 1.15                |
| <b>Shaft Diameter</b>                | 0.875 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**

| NP2116L      |               |      |      |     |    |    |   |    |   |  |  |
|--------------|---------------|------|------|-----|----|----|---|----|---|--|--|
| CAT.NO.      | EL3514T       |      |      |     |    |    |   |    |   |  |  |
| SPEC.        | 35EE001G242G2 |      |      |     |    |    |   |    |   |  |  |
| HP           | 1.5           |      |      |     |    |    |   |    |   |  |  |
| VOLTS        | 115/230       |      |      |     |    |    |   |    |   |  |  |
| AMP          | 12.2/6.1      |      |      |     |    |    |   |    |   |  |  |
| RPM          | 1725          |      |      |     |    |    |   |    |   |  |  |
| FRAME        | 145T          |      |      | HZ  | 60 |    |   | PH | 1 |  |  |
| SER.F.       | 1.15          | CODE | H    | DES | L  | CL | F |    |   |  |  |
| NEMA-NOM-EFF | 80            | PF   | 98   |     |    |    |   |    |   |  |  |
| RATING       | 40C AMB-CONT  |      |      |     |    |    |   |    |   |  |  |
| CC           |               |      |      |     |    |    |   |    |   |  |  |
| DE           | 6205          | ODE  | 6203 |     |    |    |   |    |   |  |  |
| ENCL         | TEFC          | SN   |      |     |    |    |   |    |   |  |  |
|              | SFA 14.4/7.2  |      |      |     |    |    |   |    |   |  |  |

**Parts List**

| Part number   | Description                              | Quantity |
|---------------|------------------------------------------|----------|
| SA407280      | SA 35EE001G242G2                         | 1.000 ea |
| RA398779      | RA 35EE001G242G2                         | 1.000 ea |
| OC3050F09SP   | CAPACITOR 50 MFD 370 VAC                 | 1.000 ea |
| EC1540A06SP   | ELEC CAP, 540-648 MFD, 125V, 2.06D X 4.  | 1.000 ea |
| WD3006A01     | RSS-2-103JT 2W 10K RES. METAL OXIDE 5%   | 1.000 ea |
| NS2512A01     | INSULATOR, CONDUIT BOX X                 | 1.000 ea |
| 35CB3009      | 35 CB W/1.09 DIA. LEAD HOLE @ 6:         | 1.000 ea |
| 36GS1000SP    | GASKET-CONDUIT BOX, .06 THICK #SV-330 LE | 1.000 ea |
| 51XB1016A07   | 10-16 X 7/16 HXWSSLD SERTYB              | 2.000 ea |
| 11XW1032G06   | 10-32 X .38, TAPTITE II, HEX WSHR SLTD U | 1.000 ea |
| 35EP3122A00   | MASTER ODE,203 BRG,.683SH,#26 DRN,GRSR,F | 1.000 ea |
| HW4500A01     | 1641B(ALEMITE)400 UNIV, GREASE FITT      | 1.000 ea |
| 51XW0832A07   | 8-32 X .44, TAPTITE II, HEX WSHR SLTD SE | 2.000 ea |
| 35CB3801      | CAPACITOR COVER, CAST                    | 1.000 ea |
| 34GS3002      | GASKET, CAPACITOR BOX                    | 1.000 ea |
| HA7010        | CAPACITOR RETENTION CLAMP                | 1.000 ea |
| NS2501A02     | INSULATOR, CAPACITOR BOX                 | 1.000 ea |
| 51XB1016A08   | 10-16X 1/2HXWSSLD SERTYB                 | 2.000 ea |
| HW5100A03     | WAVY WASHER (W1543-017)                  | 1.000 ea |
| 35EP3123F00   | MASTER DE,205 BRG,.998SH,#26 DRN,GRSR    | 1.000 ea |
| HW4500A01     | 1641B(ALEMITE)400 UNIV, GREASE FITT      | 1.000 ea |
| XY1032A02     | 10-32 HEX NUT DIRECTIONAL SERRATION      | 4.000 ea |
| 51XB1214A16   | 12-14X1.00 HXWSSLD SERTYB                | 1.000 ea |
| 35FH4005A84SP | IEC FH W/GRSR, NO DIMPLES PRIMED         | 1.000 ea |
| 51XW1032A06   | 10-32 X .38, TAPTITE II, HEX WSHR SLTD S | 3.000 ea |
| 35CB4521GX    | CONDUIT BOX LID KIT **ORDER INDIV PARTS  | 1.000 ea |
| 51XW0832A07   | 8-32 X .44, TAPTITE II, HEX WSHR SLTD SE | 4.000 ea |
| HW2501D13     | KEY, 3/16 SQ X 1.375                     | 1.000 ea |
| HA7000A01     | KEY RETAINER 7/8" DIA SHAFT              | 1.000 ea |
| 85XU0407S04   | 4X1/4 U DRIVE PIN STAINLESS              | 2.000 ea |
| MJ1000A02     | GREASE, POLYREX EM EXXON                 | 0.050 lb |

|               |                                          |          |
|---------------|------------------------------------------|----------|
| MG1050Y01     | CELEROL BALDOR GOLD *5 GALLON BUCKET*    | 0.017 ga |
| WD1000A15     | 3-520132-2 AMP FLAG (4M/RL NON-CANC/NON- | 4.000 ea |
| 35FN3002A05SP | EXFN, PLASTIC, 6.376 OD, .638 ID         | 1.000 ea |
| HA3100A22     | THRUBOLT 10-32 X 10.125                  | 4.000 ea |
| SP5181A01     | MODEL 35 LC TORQ STAT SWITCH LEAD ASSY   | 1.000 ea |
| LC0001        | CONN LABEL TYPE L, 6 LEAD, DUAL VOLTS, R | 1.000 ea |
| LB1624        | COMBINED WARNING LABEL, ISO/ANSI PICTOGR | 1.000 ea |
| NP2116L       | ALUM SUPER-E UL CC                       | 1.000 ea |
| 36PA1000      | PKG GRP, PRINT PK1016A08                 | 1.000 ea |
| MN416A01      | TAG-INSTAL-MAINT no wire (2500 bx)11/25  | 1.000 ea |
| FE-0000001    | ZRTG FE ASSEMBLY                         | 1.000 ea |
| PE-0000001    | ZRTG PE ASSEMBLY                         | 1.000 ea |

**Accessories**

| Part number   | Description  | Multiplier |
|---------------|--------------|------------|
| 35-8762       | C FACE KIT   | A8         |
| 35EP1506A01SP | D-FLANGE KIT | A8         |

**AC Induction Motor Performance Data**

Record # 105134

Typical performance - not guaranteed values

| Winding: 35WGG242-R001 |                 |              | Type: 3532LC                            |  | Enclosure: TEFC             |  |
|------------------------|-----------------|--------------|-----------------------------------------|--|-----------------------------|--|
| Nameplate Data         |                 |              | 115 V, 60 Hz:<br>Low Voltage Connection |  |                             |  |
| Rated Output (HP)      |                 | 1.5          | Full Load Torque                        |  | 4.57 LB-FT                  |  |
| Volts                  |                 | 115/230      | Start Configuration                     |  | direct on line              |  |
| Full Load Amps         |                 | 12.2/6.1     | Breakdown Torque                        |  | 9.9 LB-FT                   |  |
| R.P.M.                 |                 | 1725         | Pull-up Torque                          |  | 8.1 LB-FT                   |  |
| Hz                     | 60 Phase        | 1            | Locked-rotor Torque                     |  | 13 LB-FT                    |  |
| NEMA Design Code       |                 | L KVA Code   | Starting Current                        |  | 88 A                        |  |
| Service Factor (S.F.)  |                 | 1.15         | No-load Current                         |  | 1.68 A                      |  |
| NEMA Nom. Eff.         | 80 Power Factor | 98           | 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                 |  | 61°C                        |  |
| S.F. Amps              |                 |              | Temp. Rise @ S.F. Load                  |  | 76°C                        |  |
|                        |                 |              | Locked-rotor Power Factor               |  | 91.9                        |  |
|                        |                 |              | Rotor inertia                           |  | 0.232 lb-ft²                |  |

**Load Characteristics 115 V, 60 Hz, 1.5 HP**

| % of Rated Load | 25   | 50   | 75   | 100   | 125   | 150  | S.F. |
|-----------------|------|------|------|-------|-------|------|------|
| Power Factor    | 94   | 98   | 98   | 98    | 97    | 96   | 97   |
| Efficiency      | 71.4 | 82.4 | 84   | 82.2  | 77.7  | 70.5 | 79.5 |
| Speed           | 1782 | 1765 | 1746 | 1723  | 1690  | 1642 | 1703 |
| Line amperes    | 3.54 | 6.02 | 8.84 | 12.06 | 16.08 | 21.4 | 14.5 |

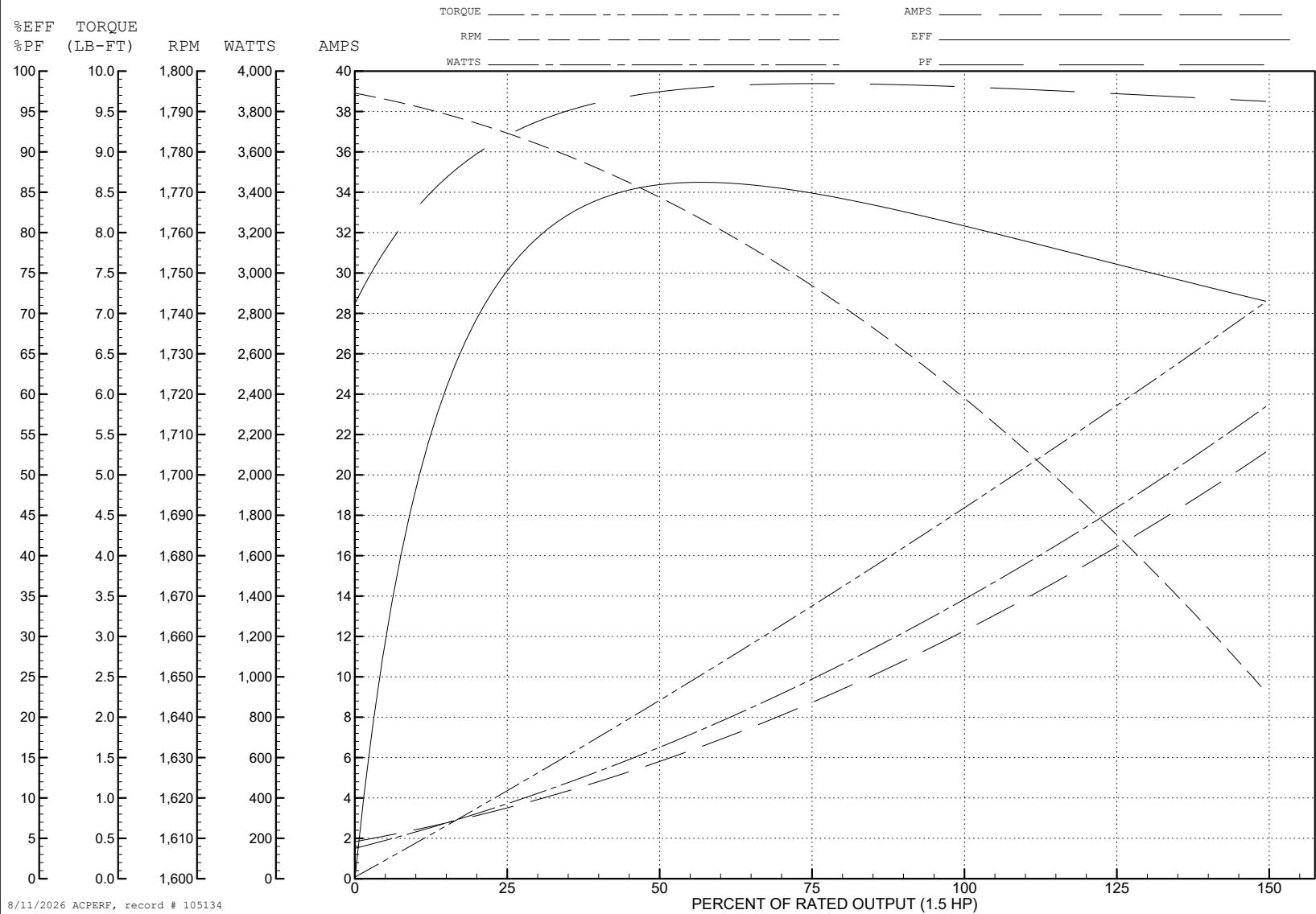
ABB Motors and Mechanical Inc.

WINDING # 35WGG242

Typical performance - not guaranteed values.

1.5 HP 1 PH 60 HZ 1725 RPM 115 V 3532LC

TORQUES (LB-FT): PO=9.9 PU=8.1 LR=13 LRA=88



8/11/2026 ACPERF, record # 105134



CD0055

