

# ABB BALDOR RELIANCE III

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## Customer information packet

### CEDM3556

1HP, 1170RPM, 3PH, 60HZ, 56C, 3526M, TEFC, F1, N

Class - None

Division - Not Applicable

**Specifications**

|                                       |                                                             |
|---------------------------------------|-------------------------------------------------------------|
| <b>Enclosure</b>                      | TEFC                                                        |
| <b>Frame</b>                          | 56C                                                         |
| <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>             | 1.000 HP @ 60 HZ                                            |
| <b>Phase</b>                          | 3                                                           |
| <b>Synchronous Speed @ Frequency</b>  | 1200 RPM @ 60 HZ                                            |
| <b>Voltage @ Frequency</b>            | 230.0 V @ 60 HZ<br>460.0 V @ 60 HZ                          |
| <b>Agency Approvals</b>               | CURUSEEV<br>NEMA PREMIUM                                    |
| <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>              | 1.500 A @ 460.0 V<br>3.000 A @ 230.0 V<br>3.500 A @ 208.0 V |
| <b>Design Code</b>                    | B                                                           |
| <b>Drip Cover</b>                     | No Drip Cover                                               |
| <b>Duty Rating</b>                    | CONT                                                        |
| <b>Efficiency @ 100% Load</b>         | 82.5 %                                                      |
| <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>    | 1.5 a                                                       |

**Part Detail**

|                     |            |
|---------------------|------------|
| <b>Revision</b>     | A          |
| <b>Type</b>         | AC         |
| <b>Mech. spec.</b>  | 35E4315    |
| <b>Base</b>         |            |
| <b>Status</b>       | PRD/A      |
| <b>Elec. spec.</b>  | 35WGG019   |
| <b>Layout</b>       | 35LYE4315  |
| <b>Eff. date</b>    | 06-16-2026 |
| <b>CD Diagram</b>   | CD0005     |
| <b>Poles</b>        | 06         |
| <b>Leads</b>        | 9#18       |
| <b>Proprietary</b>  | False      |
| <b>Created date</b> | 09-26-2024 |

|                                      |                            |
|--------------------------------------|----------------------------|
| <b>Insulation Class</b>              | <b>F</b>                   |
| <b>Inverter Code</b>                 | <b>Inverter Ready</b>      |
| <b>KVA Code</b>                      | <b>J</b>                   |
| <b>Lifting Lugs</b>                  | <b>No Lifting Lugs</b>     |
| <b>Locked Bearing Indicator</b>      | <b>Locked Bearing</b>      |
| <b>Motor Lead Quantity/Wire Size</b> | <b>9 @ 18 AWG</b>          |
| <b>Motor Lead Termination</b>        | <b>Flying Leads</b>        |
| <b>Motor Standards</b>               | <b>NEMA</b>                |
| <b>Motor Type</b>                    | <b>3526M</b>               |
| <b>Mounting Arrangement</b>          | <b>F1</b>                  |
| <b>Number of Poles</b>               | <b>6</b>                   |
| <b>Overall Length</b>                | <b>13.23 IN</b>            |
| <b>Power Factor</b>                  | <b>67</b>                  |
| <b>Product Family</b>                | <b>Dirty Duty Plus</b>     |
| <b>Pulley End Bearing Type</b>       | <b>Sealed Bearing</b>      |
| <b>Pulley Face Code</b>              | <b>C-Face</b>              |
| <b>Pulley Shaft Indicator</b>        | <b>Standard</b>            |
| <b>Rodent Screen</b>                 | <b>None</b>                |
| <b>RoHS Status</b>                   | <b>ROHS COMPLIANT</b>      |
| <b>Service Factor</b>                | <b>1.15</b>                |
| <b>Shaft Diameter</b>                | <b>0.625 IN</b>            |
| <b>Shaft Ground Indicator</b>        | <b>No Shaft Grounding</b>  |
| <b>Shaft Rotation</b>                | <b>Reversible</b>          |
| <b>Shaft Slinger Indicator</b>       | <b>No Slinger</b>          |
| <b>Speed</b>                         | <b>1170 rpm</b>            |
| <b>Speed Code</b>                    | <b>Single Speed</b>        |
| <b>Starting Method</b>               | <b>Direct on line</b>      |
| <b>Thermal Device - Bearing</b>      | <b>None</b>                |
| <b>Thermal Device - Winding</b>      | <b>None</b>                |
| <b>Vibration Sensor Indicator</b>    | <b>No Vibration Sensor</b> |
| <b>Winding Thermal 1</b>             | <b>None</b>                |
| <b>Winding Thermal 2</b>             | <b>None</b>                |

**Nameplate**

| NP3504       |              |          |   |       |      |            |      |      |  |          |  |
|--------------|--------------|----------|---|-------|------|------------|------|------|--|----------|--|
| CAT NO       | CEDM3556     |          |   |       |      |            |      |      |  |          |  |
| SPEC.        | 35E4315G019  |          |   |       |      |            | ENCL | TEFC |  |          |  |
| FRAME        | 56C          | HP       |   | 1     |      |            |      |      |  |          |  |
| VOLTS        | 230/460      |          |   |       |      |            |      |      |  |          |  |
| FLA          | 3/1.5        |          |   |       | I.P. |            |      |      |  |          |  |
| RPM          | 1170         | RPM MAX  |   |       |      |            |      |      |  |          |  |
| HZ           | 60           | PH       | 3 | CLASS |      | F          |      |      |  |          |  |
| SER.F.       | 1.15         | DES      | B | CC    | 010A |            |      |      |  |          |  |
| NEMA-NOM-EFF | 82.5         |          |   |       |      |            |      |      |  |          |  |
| RATING       | 40C AMB-CONT |          |   |       |      |            |      |      |  |          |  |
| DE BRG       | 6205         | ODE BRG  |   |       |      | 6203       |      |      |  |          |  |
| GREASE       | POLYREX EM   |          |   |       |      |            |      |      |  |          |  |
| INV.TYPE     |              | C HP FR  |   |       |      | C HP TO    |      |      |  |          |  |
| CT HZ FROM   |              | CT HZ TO |   |       |      | VT HZ FROM |      |      |  | VT HZ TO |  |
| SER.NO       | SFA 3.7/1.85 |          |   |       |      |            |      |      |  |          |  |

**Parts List**

| Part number    | Description                              | Quantity |
|----------------|------------------------------------------|----------|
| SA430981       | SA 35E4315G019                           | 1.000 ea |
| RA423201       | RA 35E4315G019                           | 1.000 ea |
| NS2512A01      | INSULATOR, CONDUIT BOX X                 | 1.000 ea |
| 35CB1001A01E   | SPL CONDUIT BOX, MACHINED (E-COAT)       | 1.000 ea |
| 35GS1022A02    | GASKET BOX .06 THK NEOP BLK HDN 30-40 DU | 1.000 ea |
| 51XB1016A08    | 10-16X 1/2HXWSSLD SERTYB                 | 2.000 ea |
| 11XW1032G06    | 10-32 X .38, TAPTITE II, HEX WSHR SLTD U | 1.000 ea |
| HW3001B01      | BRASS CUP WASHER, FOR #10 SCREW          | 1.000 ea |
| 35EP1100F12EP5 | FRONT TEFC 203 BRG W/ SEAL               | 1.000 ea |
| HA4054         | SHORT T-DRAIN FITTING, .125" N.P.T.      | 1.000 ea |
| HW4606A01      | JM CLIPPER/SEAL (WDE-0667-1064-BH49)     | 1.000 ea |
| HW4500S33      | 1/8 NPT STAINLESS #304 SS PLUG           | 3.000 ea |
| HW5100A03      | WAVY WASHER (W1543-017)                  | 1.000 ea |
| 35EP1300A113E  | PUEP ENCL 205 BRG F/SEAL, (4).125 NPT    | 1.000 ea |
| HA4054         | SHORT T-DRAIN FITTING, .125" N.P.T.      | 1.000 ea |
| HW4500S33      | 1/8 NPT STAINLESS #304 SS PLUG           | 3.000 ea |
| HW4606A02      | JM CLIPPER/SEAL (LWE-0938-1624-AL23)     | 1.000 ea |
| 12XN1032S20    | 10-32 X 1-1/4 HEX M.S. , STAINLESS STEEL | 2.000 ea |
| 51XB1214A16    | 12-14X1.00 HXWSSLD SERTYB                | 1.000 ea |
| 35FH4005A01EP5 | IEC FH NO GREASER                        | 1.000 ea |
| 10XN1032S08    | 10-32X1/2 HEX HEAD S STL                 | 3.000 ea |
| 35CB4516E      | CONDUIT BOX LID, E-COAT                  | 1.000 ea |
| 36GS1002       | GASKET, 1/16" NEOPRENE CONDUIT BOX LID   | 1.000 ea |
| 59XW0832S07    | TAPTITE II,HEX WSHR UNSLTD SER,410 S.S., | 4.000 ea |
| HW2502D13      | SS KEY, 3/16 SQ X 1.375                  | 1.000 ea |
| HA7000A04      | KEY RETAINER 0.625 DIA SHAFTS            | 1.000 ea |
| MJ5001A02      | 732 CL SEALANT 3 OZ DIXIE BEARING 289100 | 0.001 ea |
| 85XU0407S04    | 4X1/4 U DRIVE PIN STAINLESS              | 2.000 ea |
| LB1164         | LABEL,WARNING AND DRAIN                  | 1.000 ea |
| MJ5001A23      | P.D. GEORGE B-276 AIR DRY VARNISH        | 0.001 ga |
| LB1000         | LABEL, DIRTY DUTY                        | 1.000 ea |

|               |                                          |          |
|---------------|------------------------------------------|----------|
| MG2000A02     | RUST VETO-377-HF HOUGHTON                | 0.001 ga |
| WD1000D21     | TRM,T&B #B71M,RING,18-14,.25,NON-INSL    | 9.000 ea |
| MJ1000A02     | GREASE, POLYREX EM EXXON                 | 0.050 lb |
| 35FN3002A05SP | EXFN, PLASTIC, 6.376 OD, .638 ID         | 1.000 ea |
| HA3100S07     | THRUBOLT 10-32 X 8.375 SS                | 4.000 ea |
| MG1500Y02     | WILKOPON PRIMER YELLOW                   | 0.010 ga |
| MG1025L01     | WILKOFAST FD, 786.04, BLACK              | 0.010 ga |
| LC0005        | CONN.DIA.,TY M,9-LD,DUAL VOLT,REVERSING  | 1.000 ea |
| NP3504        | SS DIRTY DUTY PLUS,INV,CURUS EEV,NEMA PR | 1.000 ea |
| 36PA1000      | PKG GRP, PRINT PK1016A08                 | 1.000 ea |
| MN416A01      | TAG-INSTAL-MAINT no wire (2500 bx)11/25  | 1.000 ea |

**AC Induction Motor Performance Data**

Record # 77838

Typical performance - not guaranteed values

| Winding: 35WGG019-R001 |    |         | Type: 3526M               |                                          | Enclosure: TEFC         |                       |        |          |
|------------------------|----|---------|---------------------------|------------------------------------------|-------------------------|-----------------------|--------|----------|
| Nameplate Data         |    |         |                           | 460 V, 60 Hz:<br>High Voltage Connection |                         |                       |        |          |
| Rated Output (HP)      |    | 1       | Full Load Torque          |                                          | 4.479 LB-FT             |                       |        |          |
| Volts                  |    | 230/460 | Start Configuration       |                                          | direct on line          |                       |        |          |
| Full Load Amps         |    | 3.0/1.5 | Breakdown Torque          |                                          | 11.9 LB-FT              |                       |        |          |
| R.P.M.                 |    | 1155    | Pull-up Torque            |                                          | 7.06 LB-FT              |                       |        |          |
| Hz                     | 60 | Phase   | 3                         | Locked-rotor Torque                      |                         | 8.62 LB-FT            |        |          |
| NEMA Design Code       |    | B       | KVA Code                  | J                                        | Starting Current        |                       | 9.06 A |          |
| Service Factor (S.F.)  |    | 1.15    | No-load Current           |                                          | 1.02 A                  |                       |        |          |
| NEMA Nom. Eff.         |    | 0       | Power Factor              |                                          | 0                       | Line-line Res. @ 25°C |        | 20.372 Ω |
| Rating - Duty          |    | 40C     | AMB-CONT                  |                                          | Temp. Rise @ Rated Load |                       | 46°C   |          |
| S.F. Amps              |    |         | Temp. Rise @ S.F. Load    |                                          | 56°C                    |                       |        |          |
|                        |    |         | Locked-rotor Power Factor |                                          | 48                      |                       |        |          |

**Load Characteristics 460 V, 60 Hz, 1 HP**

| % of Rated Load | 25     | 50     | 75     | 100    | 125  | 150  | S.F. |
|-----------------|--------|--------|--------|--------|------|------|------|
| Power Factor    | 29     | 47     | 1      | 1      | 1    | 1    | 1    |
| Efficiency      | 73.5   | 81.9   | 83.5   | 83.1   | 81.6 | 79.1 | 82.2 |
| Speed           | 1192.5 | 1185.4 | 1177.6 | 1168.7 | 1159 | 1147 | 1163 |
| Line amperes    | 1.07   | 1.21   | 1.41   | 1.67   | 1.98 | 2.35 | 1.86 |

ABB Motors and Mechanical Inc.

WINDING # 35WGG019

Typical performance - not guaranteed values.

1 HP 3 PH 60 HZ 1155 RPM 460 V 3526M

TORQUES (LB-FT): PO=11.9 PU=7.06 LR=8.62 LRA=9.06







