

# ABB BALDOR RELIANCE III

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## Customer information packet

### ECS101A3K0P8DD4

.75KW, 1500RPM, 3PH, 50HZ, D90D, 3516B, TEFC, B

Class - None

Division - Not Applicable

**Specifications**

|                                |                                |
|--------------------------------|--------------------------------|
| Enclosure                      | TEFC                           |
| Frame                          | D90D                           |
| Frame Material                 | Steel                          |
| Frequency                      | 50.00 Hz                       |
| Haz Area Class and Group       | None                           |
| Haz Area Division              | Not Applicable                 |
| Motor Letter Type              | Brushless Wound Field PM Rotor |
| Output @ Frequency             | .750 KW @ 50 HZ                |
| Phase                          | 3                              |
| Synchronous Speed @ Frequency  | 1500 RPM @ 50 HZ               |
| Voltage @ Frequency            | 380.0 V @ 50 HZ                |
| Agency Approvals               | CE<br>CULUS<br>UKCA<br>WEEE    |
| 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                           |
| Constant Torque Speed Range    | 5                              |
| Current @ Voltage              | 1.400 A @ 380.0 V              |
| Design Code                    | -                              |
| Drip Cover                     | No Drip Cover                  |
| Duty Rating                    | CONT                           |
| Efficiency @ 100% Load         | 89.2 %                         |
| Electrically Isolated Bearing  | Not Electrically Isolated      |
| Feedback Device                | NO FEEDBACK                    |
| Frame Prefix                   | D                              |
| Heater Indicator               | No Heater                      |
| High Voltage Full Load Amps    | 1.4 a                          |

**Part Detail**

|              |                       |
|--------------|-----------------------|
| Revision     | C                     |
| Type         | AC                    |
| Mech. spec.  | 35EE440               |
| Base         |                       |
| Status       | PRD/A                 |
| Elec. spec.  | 35WGG965              |
| Layout       | 35LYEE440             |
| Eff. date    | 11-22-2024            |
| CD Diagram   | CD0006B03             |
| Poles        | 04                    |
| Leads        | 3#14 13" LONG LEADS Y |
| Proprietary  | False                 |
| Created date | 04-30-2024            |

|                                      |                            |
|--------------------------------------|----------------------------|
| <b>Insulation Class</b>              | <b>F</b>                   |
| <b>Inverter Code</b>                 | <b>03</b>                  |
| <b>KVA Code</b>                      | <b>-</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>3 @ 14 AWG</b>          |
| <b>Motor Lead Termination</b>        | <b>Flying Leads</b>        |
| <b>Motor Standards</b>               | <b>IEC</b>                 |
| <b>Motor Type</b>                    | <b>3516B</b>               |
| <b>Mounting Arrangement</b>          | <b>B5</b>                  |
| <b>Number of Poles</b>               | <b>4</b>                   |
| <b>Overall Length</b>                | <b>16.42 IN</b>            |
| <b>Power Factor</b>                  | <b>97</b>                  |
| <b>Product Family</b>                | <b>General Purpose</b>     |
| <b>Pulley Face Code</b>              | <b>D-Flange</b>            |
| <b>Rodent Screen</b>                 | <b>None</b>                |
| <b>Service Factor</b>                | <b>1.00</b>                |
| <b>Shaft Diameter</b>                | <b>0.945 IN</b>            |
| <b>Shaft Ground Indicator</b>        | <b>Shaft Grounding</b>     |
| <b>Shaft Rotation</b>                | <b>Reversible</b>          |
| <b>Speed</b>                         | <b>1500 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**

| NP3968B01A01 |                 |            |    |      |           |      |     |       |          |    |      |
|--------------|-----------------|------------|----|------|-----------|------|-----|-------|----------|----|------|
| CAT.NO.      | ECS101A3K0P8DD4 |            |    |      |           |      |     |       |          |    |      |
| SPEC.        | 35EE440G965     |            |    |      | YR        |      |     |       |          |    |      |
| FRAME        | D90D            |            | IP |      | 55        | WT.  |     | 36    |          |    |      |
| KW           | .75             | HZ         |    | 50   |           | PH   |     | 3     | DUTY-IPM |    | CONT |
| INS CL       | F               | CLASS RISE |    |      |           |      |     | AMB-C |          | 40 |      |
| EFF. CL      | IE5             | EFF        |    | 89.2 |           | COSØ |     | 97    |          |    |      |
| VOLTS        | 380             |            |    | FLA  |           | 1.4  |     |       |          |    |      |
| 1/MIN        | 1500            |            |    |      | 1/MIN MAX |      |     |       | 3000     |    |      |
| BEMF (V)     | 224             |            |    |      | RS (OHMS) |      |     |       | 19.7     |    |      |
| LD (MH)      | 117             |            |    |      | LQ (MH)   |      |     |       | 544      |    |      |
| VPWM         | CP =            |            | 50 |      | TO        |      | 100 |       |          |    |      |
| CT           | 5               | TO         |    | 50   | VT        |      | 5   | TO    |          | 50 |      |
| MATCHED INV  | ECNI4A2P2       |            |    |      |           |      |     |       |          |    |      |
| DE           | 6205            |            |    | ODE  |           | 6203 |     |       |          |    |      |
| SERIAL #     |                 |            |    |      |           |      |     |       |          |    |      |

| NP3978A00 |           |              |   |    |     |
|-----------|-----------|--------------|---|----|-----|
| PART NO.  | ECNI4A2P2 |              |   |    |     |
| U1        | 400       | PH           | 3 | HZ | 50  |
| I1        | 1.8       | W/EXT. CHOKE |   |    | 1.5 |
| SERIAL #  |           |              |   |    |     |



