

# ABB BALDOR RELIANCE III

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## Customer information packet

### CESSWDM3550

1.5HP, 3500RPM, 3PH, 60HZ, 3532M, N

Class - None

Division - Not Applicable

**Specifications**

|                                       |                                                             |
|---------------------------------------|-------------------------------------------------------------|
| <b>Enclosure</b>                      | TENV                                                        |
| <b>Frame</b>                          | 56C                                                         |
| <b>Frame Material</b>                 | Stainless 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>             | 1.500 HP @ 60 HZ                                            |
| <b>Phase</b>                          | 3                                                           |
| <b>Synchronous Speed @ Frequency</b>  | 3600 RPM @ 60 HZ                                            |
| <b>Voltage @ Frequency</b>            | 460.0 V @ 60 HZ<br>230.0 V @ 60 HZ<br>208.0 V @ 60 HZ       |
| <b>Agency Approvals</b>               | CSA<br>UR                                                   |
| <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>              | 3.700 A @ 208.0 V<br>3.600 A @ 230.0 V<br>1.800 A @ 460.0 V |
| <b>Design Code</b>                    | B                                                           |
| <b>Drip Cover</b>                     | No Drip Cover                                               |
| <b>Duty Rating</b>                    | CONT                                                        |
| <b>Efficiency @ 100% Load</b>         | 85.5 %                                                      |
| <b>Electrically Isolated Bearing</b>  | Not Electrically Isolated                                   |
| <b>Feedback Device</b>                | NO FEEDBACK                                                 |
| <b>Front Face Code</b>                | Standard                                                    |
| <b>Front Shaft Indicator</b>          | None                                                        |

**Part Detail**

|                     |            |
|---------------------|------------|
| <b>Revision</b>     | Z          |
| <b>Type</b>         | AC         |
| <b>Mech. spec.</b>  | 35V814     |
| <b>Base</b>         |            |
| <b>Status</b>       | PRD/A      |
| <b>Elec. spec.</b>  | 35WGR929   |
| <b>Layout</b>       | 35LYV814   |
| <b>Eff. date</b>    | 06-14-2024 |
| <b>CD Diagram</b>   | CD0005     |
| <b>Poles</b>        | 02         |
| <b>Leads</b>        | 9#18       |
| <b>Proprietary</b>  | False      |
| <b>Created date</b> | 12-18-2013 |

|                               |                               |
|-------------------------------|-------------------------------|
| Heater Indicator              | No Heater                     |
| High Voltage Full Load Amps   | 1.8 a                         |
| Insulation Class              | F                             |
| Inverter Code                 | Inverter Ready                |
| KVA Code                      | M                             |
| Lifting Lugs                  | No Lifting Lugs               |
| Locked Bearing Indicator      | Locked Bearing                |
| Motor Lead Exit               | Ko Box                        |
| Motor Lead Quantity/Wire Size | 9 @ 18 AWG                    |
| Motor Lead Termination        | Flying Leads                  |
| Motor Standards               | NEMA                          |
| Motor Type                    | 3532M                         |
| Mounting Arrangement          | F1                            |
| Number of Poles               | 2                             |
| Overall Length                | 12.97 IN                      |
| Power Factor                  | 90                            |
| Product Family                | Wash Down All Stainless Steel |
| Pulley End Bearing Type       | Sealed Bearing                |
| Pulley Face Code              | C-Face                        |
| Pulley Shaft Indicator        | Standard                      |
| Rodent Screen                 | None                          |
| Service Factor                | 1.15                          |
| Shaft Diameter                | 0.625 IN                      |
| Shaft Extension Location      | Pulley End                    |
| Shaft Ground Indicator        | No Shaft Grounding            |
| Shaft Rotation                | Reversible                    |
| Shaft Slinger Indicator       | No Slinger                    |
| Speed                         | 3500 rpm                      |
| Speed Code                    | Single Speed                  |
| Starting Method               | Direct on line                |
| Thermal Device - Bearing      | None                          |
| Thermal Device - Winding      | None                          |
| Vibration Sensor Indicator    | No Vibration Sensor           |
| Winding Thermal 1             | None                          |

Winding Thermal 2

None

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**Nameplate**

| NP1953A01    |              |    |      |      |     |   |  |       |   |  |  |
|--------------|--------------|----|------|------|-----|---|--|-------|---|--|--|
| CAT.NO.      | CESSWDM3550  |    |      |      |     |   |  |       |   |  |  |
| SPEC.        | 35V814R929G1 |    |      |      |     |   |  |       |   |  |  |
| HP           | 1.5          |    |      |      |     |   |  |       |   |  |  |
| VOLTS        | 230/460      |    |      |      |     |   |  |       |   |  |  |
| AMP          | 3.6/1.8      |    |      |      |     |   |  |       |   |  |  |
| RPM          | 3500         |    |      |      |     |   |  |       |   |  |  |
| FRAME        | 56C          |    | HZ   | 60   |     |   |  | PH    | 3 |  |  |
| SER.F.       | 1.15         |    | CODE | M    | DES | B |  | CLASS | F |  |  |
| NEMA-NOM-EFF | 85.5         |    | PF   | 90   |     |   |  |       |   |  |  |
| RATING       | 40C AMB-CONT |    |      |      |     |   |  |       |   |  |  |
| CC           | 010A         |    |      |      |     |   |  |       |   |  |  |
| DE           | 6205         |    | ODE  | 6203 |     |   |  |       |   |  |  |
| ENCL         | TENV         | SN |      |      |     |   |  |       |   |  |  |
|              | 4:1CT 20:1VT |    |      |      |     |   |  |       |   |  |  |

**Parts List**

| <b>Part number</b> | <b>Description</b>                       | <b>Quantity</b> |
|--------------------|------------------------------------------|-----------------|
| SA274111           | SA 35V814R929G1                          | 1.000 ea        |
| RA260699           | RA 35V814R929G1                          | 1.000 ea        |
| NS2512A01          | INSULATOR, CONDUIT BOX X                 | 1.000 ea        |
| 35CB5001A08        | CONDUIT BOX KIT, S/P 9-2 (ALL STAINLESS) | 1.000 ea        |
| HA5027A02          | HA4054 T-DRAIN X2 BAGGED WITH LABEL      | 1.000 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        |
| 35EP1913A01        | FRONT TENV 203 BRG NO GRSR S/P 9-2 (STAI | 1.000 ea        |
| HW4500S33          | 1/8 NPT STAINLESS #304 SS PLUG           | 3.000 ea        |
| HW5100A03          | WAVY WASHER (W1543-017)                  | 1.000 ea        |
| 35EP1914A02        | PU EP FOR LOCKED 6205 BRG                | 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        |
| 12XN1032S22        | 10-32 X 1 3/8 SLOT HEX, STAINLESS STEEL  | 2.000 ea        |
| HA1049A01          | DUBO LOK WASHER SIZE 10 (NYLON LOCK SEAL | 2.000 ea        |
| HA1049A01          | DUBO LOK WASHER SIZE 10 (NYLON LOCK SEAL | 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        |
| MJ1000A02          | GREASE, POLYREX EM EXXON                 | 0.050 lb        |
| HA3100S19          | THRUBOLT,10X32 - 9.812 SS                | 4.000 ea        |
| MN416A01           | TAG-INSTAL-MAINT no wire (2500 bx)11/25  | 1.000 ea        |
| 36PA1000           | PKG GRP, PRINT PK1016A08                 | 1.000 ea        |
| FE-0000007         | ZRTG FE ASSEMBLY                         | 1.000 ea        |
| PE-0000012         | ZRTG PE ASSEMBLY                         | 1.000 ea        |

ABB Motors and Mechanical Inc.

WINDING # 35WGR929

Typical performance - not guaranteed values.

1.5 HP 3 PH 60 HZ 3500 RPM 460 V 3532M

TORQUES (LB-FT): PO=10.9 PU=5.2 LR=10.2 LRA=20.6







