

# ABB BALDOR RELIANCE III

---

## Customer information packet

### CSSWDM3537

.5HP, 3450RPM, 3PH, 60HZ, 56C, 3512M, TENV, F1

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>             | .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>              | 1.900 A @ 208.0 V<br>1.800 A @ 230.0 V<br>.900 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>         | 70.0 %                                                     |
| <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>     | AK         |
| <b>Type</b>         | AC         |
| <b>Mech. spec.</b>  | 35V814     |
| <b>Base</b>         |            |
| <b>Status</b>       | PRD/A      |
| <b>Elec. spec.</b>  | 35WG1706   |
| <b>Layout</b>       | 35LYV814   |
| <b>Eff. date</b>    | 02-19-2024 |
| <b>CD Diagram</b>   | CD0005     |
| <b>Poles</b>        | 02         |
| <b>Leads</b>        | 9#18       |
| <b>Proprietary</b>  | False      |
| <b>Created date</b> | 06-22-2007 |

|                               |                               |
|-------------------------------|-------------------------------|
| Heater Indicator              | No Heater                     |
| High Voltage Full Load Amps   | 0.9 a                         |
| Insulation Class              | F                             |
| Inverter Code                 | Not Inverter                  |
| KVA Code                      | L                             |
| 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                    | 3512M                         |
| Mounting Arrangement          | F1                            |
| Number of Poles               | 2                             |
| Overall Length                | 11.09 IN                      |
| Power Factor                  | 76                            |
| 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                          |
| RoHS Status                   | ROHS COMPLIANT                |
| 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                         | 3450 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 |

**Nameplate**

| NP1951A01    |               |    |      |     |   |      |  |    |       |   |   |
|--------------|---------------|----|------|-----|---|------|--|----|-------|---|---|
| CAT.NO.      | CSSWDM3537    |    |      |     |   |      |  |    |       |   |   |
| SPEC.        | 35V814-1706G1 |    |      |     |   |      |  |    |       |   |   |
| HP           | .5            |    |      |     |   |      |  |    |       |   |   |
| VOLTS        | 208-230/460   |    |      |     |   |      |  |    |       |   |   |
| AMP          | 1.9-1.8/.9    |    |      |     |   |      |  |    |       |   |   |
| RPM          | 3450          |    |      |     |   |      |  |    |       |   |   |
| FRAME        | 56C           |    |      | HZ  |   | 60   |  | PH |       | 3 |   |
| SER.F.       | 1.15          |    | CODE |     | L | DES  |  | B  | CLASS |   | F |
| NEMA-NOM-EFF | 70            |    |      | PF  |   | 76   |  |    |       |   |   |
| RATING       | 40C AMB-CONT  |    |      |     |   |      |  |    |       |   |   |
| CC           |               |    |      |     |   |      |  |    |       |   |   |
| DE           | 6205          |    |      | ODE |   | 6203 |  |    |       |   |   |
| ENCL         | TENV          | SN |      |     |   |      |  |    |       |   |   |
|              | 4:1CT 20:1VT  |    |      |     |   |      |  |    |       |   |   |
|              |               |    |      |     |   |      |  |    |       |   |   |

**Parts List**

| <b>Part number</b> | <b>Description</b>                       | <b>Quantity</b> |
|--------------------|------------------------------------------|-----------------|
| SA145401           | SA 35V814-1706G1                         | 1.000 ea        |
| RA134550           | RA 35V814-1706G1                         | 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        |
| HW3001B01          | BRASS CUP WASHER, FOR #10 SCREW          | 1.000 ea        |
| HA3100S45          | THRU BOLT HEX-HEAD 7.95 10-32            | 4.000 ea        |
| MN416A01           | TAG-INSTAL-MAINT no wire (2500 bx)11/25  | 1.000 ea        |
| 35PA1066           | PKG GRP, PRINT PK1008A07                 | 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 # 35WG1706

Typical performance - not guaranteed values.

0.5 HP 3 PH 60 HZ 3450 RPM 460 V 3512M

TORQUES (LB-FT): PO=3.06 PU=2.14 LR=2.44 LRA=5.71







