

# ABB BALDOR RELIANCE III

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## Customer information packet

### IDVSWDM3546

1HP, 1770RPM, 3PH, 60HZ, 56C, 3522M, TENV, F1, 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>             | 1.000 HP @ 60 HZ                                            |
| <b>Phase</b>                          | 3                                                           |
| <b>Synchronous Speed @ Frequency</b>  | 1800 RPM @ 60 HZ                                            |
| <b>Voltage @ Frequency</b>            | 230.0 V @ 60 HZ<br>460.0 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>                 | No Mounting                                                 |
| <b>Bearing Grease Type</b>            | Polyrex EM (-20F +300F)                                     |
| <b>Blower</b>                         | None                                                        |
| <b>Current @ Voltage</b>              | 1.670 A @ 460.0 V<br>3.300 A @ 208.0 V<br>3.340 A @ 230.0 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 Shaft Indicator</b>          | None                                                        |
| <b>Heater Indicator</b>               | No Heater                                                   |
| <b>High Voltage Full Load Amps</b>    | 1.7 a                                                       |

**Part Detail**

|                     |            |
|---------------------|------------|
| <b>Revision</b>     | B          |
| <b>Type</b>         | AC         |
| <b>Mech. spec.</b>  | 35S639     |
| <b>Base</b>         |            |
| <b>Status</b>       | PRD/A      |
| <b>Elec. spec.</b>  | 35WGZ818   |
| <b>Layout</b>       | 35LYS639   |
| <b>Eff. date</b>    | 10-21-2025 |
| <b>CD Diagram</b>   | CD0005     |
| <b>Poles</b>        | 04         |
| <b>Leads</b>        | 9#18       |
| <b>Proprietary</b>  | False      |
| <b>Created date</b> | 10-01-2021 |

|                                      |                                   |
|--------------------------------------|-----------------------------------|
| <b>Insulation Class</b>              | <b>H</b>                          |
| <b>Inverter Code</b>                 | <b>Inverter Ready</b>             |
| <b>KVA Code</b>                      | <b>M</b>                          |
| <b>Lifting Lugs</b>                  | <b>No Lifting Lugs</b>            |
| <b>Locked Bearing Indicator</b>      | <b>Locked Bearing</b>             |
| <b>Max Speed</b>                     | <b>6000 rpm</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>3522M</b>                      |
| <b>Mounting Arrangement</b>          | <b>F1</b>                         |
| <b>Number of Poles</b>               | <b>4</b>                          |
| <b>Overall Length</b>                | <b>12.06 IN</b>                   |
| <b>Power Factor</b>                  | <b>66</b>                         |
| <b>Product Family</b>                | <b>Wash Down Paint Free</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>Service Factor</b>                | <b>1.00</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>1770 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>Normally Closed Thermostat</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**

| NP1608L      |              |         |   |         |      |   |           |  |  |
|--------------|--------------|---------|---|---------|------|---|-----------|--|--|
| CAT NO       | IDVSWDM3546  |         |   |         |      |   |           |  |  |
| SPEC.        | 35S639Z818G1 |         |   |         |      |   |           |  |  |
| FRAME        | 56C          |         |   | HP      | 1 TE |   |           |  |  |
| VOLTS        | 230/460      |         |   |         |      |   |           |  |  |
| MAG CUR      | 2.5/1.25     |         |   | FLA     |      |   | 3.34/1.67 |  |  |
| RPM          | 1770         |         |   | RPM MAX |      |   | 6000      |  |  |
| HZ           | 60           | PH      | 3 | CLASS   |      |   | H         |  |  |
| SER.F.       | 1.00         | DES     | B | SL HZ   |      |   | 1         |  |  |
| NEMA-NOM-EFF | 85.5         | WK2     |   | 0.159   |      |   |           |  |  |
| BLWR V       |              | PH      |   | HZ      |      | A |           |  |  |
| RATING       | 40C AMB-CONT |         |   |         |      |   |           |  |  |
| DE BRG       | 6205         | ODE BRG |   |         | 6203 |   |           |  |  |
| CC           | 010A         | SN      |   |         |      |   |           |  |  |

**Parts List**

| Part number  | Description                              | Quantity |
|--------------|------------------------------------------|----------|
| SA398829     | SA 35S639Z818G1                          | 1.000 ea |
| RA389850     | RA 35S639Z818G1                          | 1.000 ea |
| NS2512A01    | INSULATOR, CONDUIT BOX X                 | 1.000 ea |
| 35CB5001A03  | CONDUIT BOX KIT, FOR SUPER II WASHDOWN   | 1.000 ea |
| 11XW1032G06  | 10-32 X .38, TAPTITE II, HEX WSHR SLTD U | 1.000 ea |
| 35EP3122D00U | MASTER ODE,203 BRG,.125NPT DRNS(BALL BUR | 1.000 ea |
| HW4500S33    | 1/8 NPT STAINLESS #304 SS PLUG           | 3.000 ea |
| HW5100A03    | WAVY WASHER (W1543-017)                  | 1.000 ea |
| 35EP3307E00U | MASTER DE,205 BRG,1.623SH,.125NPT DRNS,C | 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 |
| 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 |
| 85XU0407S04  | 4X1/4 U DRIVE PIN STAINLESS              | 2.000 ea |
| LB1164       | LABEL,WARNING AND DRAIN                  | 1.000 ea |
| HA5027A02    | HA4054 T-DRAIN X2 BAGGED WITH LABEL      | 1.000 ea |
| MJ1000A02    | GREASE, POLYREX EM EXXON                 | 0.050 lb |
| HA3100S24    | THRUBOLT 8.625 LENGTH 1.250 TH LENGTH SS | 4.000 ea |
| LC0145B01    | CONNECTION LABEL                         | 1.000 ea |
| NP1608L      | SS WD INV UL CSA CC REV MTG              | 1.000 ea |
| 35PA1066     | PKG GRP, PRINT PK1008A07                 | 1.000 ea |
| PK3082       | STYROFOAM CRADLE                         | 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 |

ABB Motors and Mechanical Inc.

WINDING # 35WGZ818

Typical performance - not guaranteed values.

1 HP 3 PH 60 HZ 1770 RPM 460 V 3522M

TORQUES (LB-FT): PO=16.6 PU=7.42 LR=10.32 LRA=16.1





