

# ABB BALDOR RELIANCE III

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## Customer information packet

### CWDM3537

.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>                 | 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>            | 208.0 V @ 60 HZ<br>230.0 V @ 60 HZ<br>460.0 V @ 60 HZ                           |
| <b>Agency Approvals</b>               | UR<br>CSA                                                                       |
| <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>              | .900 A @ 460.0 V<br>1.800 A @ 230.0 V<br>1.900 A @ 208.0 V<br>2.100 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>         | 70.0 %                                                                          |
| <b>Electrically Isolated Bearing</b>  | Not Electrically Isolated                                                       |
| <b>Feedback Device</b>                | NO FEEDBACK                                                                     |
| <b>Front Face Code</b>                | Standard                                                                        |

**Part Detail**

|                     |            |
|---------------------|------------|
| <b>Revision</b>     | AN         |
| <b>Type</b>         | AC         |
| <b>Mech. spec.</b>  | 35T964     |
| <b>Base</b>         |            |
| <b>Status</b>       | PRD/A      |
| <b>Elec. spec.</b>  | 35WG1706   |
| <b>Layout</b>       | 35LYT964   |
| <b>Eff. date</b>    | 07-25-2025 |
| <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 |

|                               |                    |
|-------------------------------|--------------------|
| Front Shaft Indicator         | None               |
| 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                | 11.07 IN           |
| Power Factor                  | 76                 |
| Product Family                | Wash Down          |
| Pulley End Bearing Type       | Sealed Bearing     |
| Pulley Face Code              | C-Face             |
| Pulley Shaft Indicator        | Standard           |
| Rodent Screen                 | None               |
| RoHS Status                   | ROHS COMPLIANT     |
| Service Factor                | 1.25               |
| Shaft Diameter                | 0.625 IN           |
| Shaft Extension Location      | Pulley End         |
| Shaft Ground Indicator        | No Shaft Grounding |
| Shaft Rotation                | Reversible         |
| Shaft Slinger Indicator       | Shaft 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

| NP1496L      |               |  |      |      |     |   |  |       |   |  |  |
|--------------|---------------|--|------|------|-----|---|--|-------|---|--|--|
| CAT.NO.      | CWDM3537      |  |      |      |     |   |  |       |   |  |  |
| SPEC.        | 35T964-1706G1 |  |      |      |     |   |  |       |   |  |  |
| HP           | .5            |  |      |      |     |   |  |       |   |  |  |
| VOLTS        | 208-230/460   |  |      |      |     |   |  |       |   |  |  |
| AMP          | 1.9-1.8/.9    |  |      |      |     |   |  |       |   |  |  |
| RPM          | 3450          |  |      |      |     |   |  |       |   |  |  |
| FRAME        | 56C           |  | HZ   | 60   |     |   |  | PH    | 3 |  |  |
| SER.F.       | 1.25          |  | CODE | L    | DES | B |  | CLASS | F |  |  |
| NEMA-NOM-EFF | 70            |  | PF   | 76   |     |   |  |       |   |  |  |
| RATING       | 40C AMB-CONT  |  |      |      |     |   |  |       |   |  |  |
| CC           |               |  |      |      |     |   |  |       |   |  |  |
| DE           | 6205          |  | ODE  | 6203 |     |   |  |       |   |  |  |
| ENCL         | TENV          |  | SN   |      |     |   |  |       |   |  |  |
|              | SFA 2.1-2/1   |  |      |      |     |   |  |       |   |  |  |

**Parts List**

| Part number  | Description                              | Quantity |
|--------------|------------------------------------------|----------|
| SA111052     | SA 35T964-1706G1                         | 1.000 ea |
| RA102431     | RA 35T964-1706G1                         | 1.000 ea |
| NS2512A01    | INSULATOR, CONDUIT BOX X                 | 1.000 ea |
| 35CB3008A01G | SPL CONDUIT BOX, MACHINED GRAY           | 1.000 ea |
| 35GS1039     | 05 MOLDED GASKET W/LIP, 1.12 LEAD HOLE,  | 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 |
| 35EP3122D00W | MASTER ODE,203 BRG,.125NPT DRNS(WHITE)   | 1.000 ea |
| HW4072A01    | BLACK DRAIN PLUG FOR .125 NPT            | 3.000 ea |
| HW5100A03    | WAVY WASHER (W1543-017)                  | 1.000 ea |
| 35EP3307E00W | MASTER DE,205 BRG,1.623SH,.125NPT DRNS,C | 1.000 ea |
| HW4072A01    | BLACK DRAIN PLUG FOR .125 NPT            | 3.000 ea |
| HW4600B49    | SEAL 0.938 X 1.624 X 0.250 SINGLE LIP DB | 1.000 ea |
| 12XN1032S20  | 10-32 X 1-1/4 HEX M.S. , STAINLESS STEEL | 2.000 ea |
| 35CB4522     | 35 LIPPED CB LID PRIMED                  | 1.000 ea |
| 35GS1030A02  | 35 GS FOR CB LID - WHITE NEOPRENE        | 1.000 ea |
| 59XW0832S07  | TAPTITE II,HEX WSHR UNSLTD SER,410 S.S., | 4.000 ea |
| HW4600B46    | V-RING SLINGER 0.875 X 1.420 X .24 VITON | 1.000 ea |
| HA7000A04    | KEY RETAINER 0.625 DIA SHAFTS            | 1.000 ea |
| HA3100S08    | THRUBOLT 7.375LG SS                      | 4.000 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 |
| MG1025W01    | WILKOFAS, 781.01, SIGNAL WHITE #9003     | 0.017 ga |
| HW2502D13    | SS KEY, 3/16 SQ X 1.375                  | 1.000 ea |
| MJ5001A27    | 32220KN GRAY SEALER *MIN BUY 4 QTS=1GAL  | 0.001 qt |
| 85XU0407S04  | 4X1/4 U DRIVE PIN STAINLESS              | 2.000 ea |
| LC0005       | CONN.DIA.,TY M,9-LD,DUAL VOLT,REVERSING  | 1.000 ea |
| NP1496L      | SS WD UL CC                              | 1.000 ea |
| 35PA1066     | PKG GRP, PRINT PK1008A07                 | 1.000 ea |
| FE-0000001   | ZRTG FE ASSEMBLY                         | 1.000 ea |

PE-0000002

ZRTG PE ASSEMBLY

1.000 ea

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