

# ABB BALDOR RELIANCE III

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## Customer information packet

### CWDM3538

.5HP, 1775RPM, 3PH, 60HZ, 56C, 3514M, TENV, F1

Class - None

Division - Not Applicable

**Specifications**

|                                |                                        |
|--------------------------------|----------------------------------------|
| Enclosure                      | TENV                                   |
| Frame                          | 56C                                    |
| Frame Material                 | Steel                                  |
| Frequency                      | 60.00 Hz                               |
| Haz Area Class and Group       | None                                   |
| Haz Area Division              | Not Applicable                         |
| Motor Letter Type              | Three Phase                            |
| Output @ Frequency             | .500 HP @ 60 HZ                        |
| Phase                          | 3                                      |
| Synchronous Speed @ Frequency  | 1800 RPM @ 60 HZ                       |
| Voltage @ Frequency            | 230.0 V @ 60 HZ<br>460.0 V @ 60 HZ     |
| Agency Approvals               | C UR US                                |
| Ambient Temperature            | 40 °C                                  |
| Auxiliary Box                  | NO AUXILLARY BOX                       |
| Auxiliary Box Lead Termination | None                                   |
| Base Indicator                 | Rigid                                  |
| Bearing Grease Type            | Polyrex EM (-20F +300F)                |
| Blower                         | None                                   |
| Current @ Voltage              | 1.010 A @ 460.0 V<br>2.020 A @ 230.0 V |
| Design Code                    | B                                      |
| Drip Cover                     | No Drip Cover                          |
| Duty Rating                    | CONT                                   |
| Efficiency @ 100% Load         | 81.5 %                                 |
| Electrically Isolated Bearing  | Not Electrically Isolated              |
| Feedback Device                | NO FEEDBACK                            |
| Front Shaft Indicator          | None                                   |
| Heater Indicator               | No Heater                              |
| High Voltage Full Load Amps    | 1.0 a                                  |
| Insulation Class               | F                                      |
| Inverter Code                  | Inverter Duty                          |

**Part Detail**

|              |            |
|--------------|------------|
| Revision     | A          |
| Type         | AC         |
| Mech. spec.  | 35S588     |
| Base         |            |
| Status       | PRD/A      |
| Elec. spec.  | 35WGG069   |
| Layout       | 35LYS588   |
| Eff. date    | 04-26-2024 |
| CD Diagram   | CD0005     |
| Poles        | 04         |
| Leads        | 9#18       |
| Proprietary  | False      |
| Created date | 09-15-2023 |

|                                      |                     |
|--------------------------------------|---------------------|
| <b>KVA Code</b>                      | <b>N</b>            |
| <b>Lifting Lugs</b>                  | No Lifting Lugs     |
| <b>Locked Bearing Indicator</b>      | Locked Bearing      |
| <b>Motor Lead Quantity/Wire Size</b> | 9 @ 18 AWG          |
| <b>Motor Lead Termination</b>        | Flying Leads        |
| <b>Motor Standards</b>               | NEMA                |
| <b>Motor Type</b>                    | 3514M               |
| <b>Mounting Arrangement</b>          | F1                  |
| <b>Number of Poles</b>               | 4                   |
| <b>Overall Length</b>                | 11.06 IN            |
| <b>Power Factor</b>                  | 63                  |
| <b>Product Family</b>                | Wash Down           |
| <b>Pulley End Bearing Type</b>       | Sealed Bearing      |
| <b>Pulley Face Code</b>              | C-Face              |
| <b>Pulley Shaft Indicator</b>        | Standard            |
| <b>Rodent Screen</b>                 | None                |
| <b>Service Factor</b>                | 1.25                |
| <b>Shaft Diameter</b>                | 0.625 IN            |
| <b>Shaft Ground Indicator</b>        | No Shaft Grounding  |
| <b>Shaft Rotation</b>                | Reversible          |
| <b>Shaft Slinger Indicator</b>       | No Slinger          |
| <b>Speed</b>                         | 1775 rpm            |
| <b>Speed Code</b>                    | Single Speed        |
| <b>Starting Method</b>               | Direct on line      |
| <b>Thermal Device - Bearing</b>      | None                |
| <b>Thermal Device - Winding</b>      | None                |
| <b>Vibration Sensor Indicator</b>    | No Vibration Sensor |
| <b>Winding Thermal 1</b>             | None                |
| <b>Winding Thermal 2</b>             | None                |

**Nameplate**

| NP1496L      |              |  |      |      |     |   |  |       |   |  |  |
|--------------|--------------|--|------|------|-----|---|--|-------|---|--|--|
| CAT.NO.      | CWDM3538     |  |      |      |     |   |  |       |   |  |  |
| SPEC.        | 35S588G069G3 |  |      |      |     |   |  |       |   |  |  |
| HP           | .5           |  |      |      |     |   |  |       |   |  |  |
| VOLTS        | 230/460      |  |      |      |     |   |  |       |   |  |  |
| AMP          | 2.02/1.01    |  |      |      |     |   |  |       |   |  |  |
| RPM          | 1775         |  |      |      |     |   |  |       |   |  |  |
| FRAME        | 56C          |  | HZ   | 60   |     |   |  | PH    | 3 |  |  |
| SER.F.       | 1.25         |  | CODE | N    | DES | B |  | CLASS | F |  |  |
| NEMA-NOM-EFF | 81.5         |  | PF   | 63   |     |   |  |       |   |  |  |
| RATING       | 40C AMB-CONT |  |      |      |     |   |  |       |   |  |  |
| CC           |              |  |      |      |     |   |  |       |   |  |  |
| DE           | 6205         |  | ODE  | 6203 |     |   |  |       |   |  |  |
| ENCL         | TENV         |  | SN   |      |     |   |  |       |   |  |  |
|              | SFA 2.2/1.1  |  |      |      |     |   |  |       |   |  |  |

**Parts List**

| Part number  | Description                              | Quantity |
|--------------|------------------------------------------|----------|
| SA418460     | SA 35S588G069G3                          | 1.000 ea |
| RA410363     | RA 35S588G069G3                          | 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 |
| HW2502D13    | SS KEY, 3/16 SQ X 1.375                  | 1.000 ea |
| HA7000A04    | KEY RETAINER 0.625 DIA SHAFTS            | 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 |
| 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 |
| MG1025Z02    | ACTIVATOR WILKOFAS 060.02HF 55 GALLON    | 0.010 ga |
| MG1025W01    | WILKOFAS 781.01, SIGNAL WHITE #9003      | 0.017 ga |
| HA3100S08    | THRUBOLT 7.375LG SS                      | 4.000 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 |

|            |                                         |          |
|------------|-----------------------------------------|----------|
| MN416A01   | TAG-INSTAL-MAINT no wire (2500 bx)11/25 | 1.000 ea |
| FE-0000001 | ZRTG FE ASSEMBLY                        | 1.000 ea |
| PE-0000002 | ZRTG PE ASSEMBLY                        | 1.000 ea |

ABB Motors and Mechanical Inc.

WINDING # 35WGG069

Typical performance - not guaranteed values.

0.5 HP 3 PH 60 HZ 1775 RPM 460 V 3514M

TORQUES (LB-FT) : PO=8 PU=4.4 LR=5.1 LRA=8.4







