

# ABB BALDOR RELIANCE III

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## Customer information packet

### VFSWDM3538-E-G

.5HP, 1770RPM, 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>  | 1800 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>               | WEEE<br>CURUSEEV<br>NEMA PREMIUM                           |
| <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>              | 1.900 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>         | 80.0 %                                                     |
| <b>Electrically Isolated Bearing</b>  | Not Electrically Isolated                                  |
| <b>Feedback Device</b>                | NO FEEDBACK                                                |
| <b>Front Shaft Indicator</b>          | None                                                       |

**Part Detail**

|                     |            |
|---------------------|------------|
| <b>Revision</b>     | B          |
| <b>Type</b>         | AC         |
| <b>Mech. spec.</b>  | 35E6050    |
| <b>Base</b>         |            |
| <b>Status</b>       | PRD/A      |
| <b>Elec. spec.</b>  | 35WGZ944   |
| <b>Layout</b>       | 35LYE6050  |
| <b>Eff. date</b>    | 09-09-2026 |
| <b>CD Diagram</b>   | CD0005     |
| <b>Poles</b>        | 04         |
| <b>Leads</b>        | 9#18       |
| <b>Proprietary</b>  | False      |
| <b>Created date</b> | 07-06-2023 |

|                                      |                        |
|--------------------------------------|------------------------|
| <b>Heater Indicator</b>              | No Heater              |
| <b>High Voltage Full Load Amps</b>   | 0.9 a                  |
| <b>Insulation Class</b>              | H                      |
| <b>Inverter Code</b>                 | Not Inverter           |
| <b>KVA Code</b>                      | M                      |
| <b>Lifting Lugs</b>                  | No Lifting Lugs        |
| <b>Locked Bearing Indicator</b>      | Locked Bearing         |
| <b>Max Speed</b>                     | 2700 rpm               |
| <b>Motor Finish</b>                  | UNPAINTED              |
| <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>                    | 3512M                  |
| <b>Mounting Arrangement</b>          | F1                     |
| <b>Number of Poles</b>               | 4                      |
| <b>Overall Length</b>                | 11.78 IN               |
| <b>Power Factor</b>                  | 65                     |
| <b>Product Family</b>                | WD All SS Encapsulated |
| <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>RoHS Status</b>                   | ROHS COMPLIANT         |
| <b>Service Factor</b>                | 1.15                   |
| <b>Shaft Diameter</b>                | 0.625 IN               |
| <b>Shaft Ground Indicator</b>        | Shaft Grounding        |
| <b>Shaft Rotation</b>                | Reversible             |
| <b>Shaft Slinger Indicator</b>       | No Slinger             |
| <b>Speed</b>                         | 1770 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    |

|                   |      |
|-------------------|------|
| Winding Thermal 1 | None |
| Winding Thermal 2 | None |

**Nameplate**

| NP4427ALAO1A |                |  |        |              |     |               |               |    |       |    |     |       |  |  |  |
|--------------|----------------|--|--------|--------------|-----|---------------|---------------|----|-------|----|-----|-------|--|--|--|
| CAT #        | VFSWDM3538-E-G |  |        |              |     | WGT           |               |    | LBS   |    |     |       |  |  |  |
| SPEC         | 35E6050Z944G1  |  |        |              |     | ENCL          | TENV          |    |       |    |     |       |  |  |  |
| SER #        |                |  |        |              |     | CC            | 010A          |    | IP    | 69 |     |       |  |  |  |
| HP           | .5             |  |        | MAG CUR      |     |               | 1.34-1.58/.79 |    |       |    |     |       |  |  |  |
| VOLTS        | 208-230/460    |  |        |              |     | NEMA NOM. EFF |               |    |       |    | 80  |       |  |  |  |
| AMPS         | 1.9-1.8/.9     |  |        |              |     |               |               | PF | 65    |    |     |       |  |  |  |
| RATING       | 40C AMB-CONT   |  |        |              |     |               |               |    |       |    |     |       |  |  |  |
| RPM          | 1770           |  |        |              |     | MAX RPM       |               |    | 2700  |    |     |       |  |  |  |
| FRAME        | 56C            |  | HZ     | 60           |     | CODE          | M             |    | CLASS | H  |     |       |  |  |  |
| SER.F.       | 1.15           |  | SF AMP | 2.1-1.9/0.95 |     |               |               | PH | 3     |    | DES | B     |  |  |  |
| DE           | 6205           |  |        | ODE          |     | 6205          |               |    |       |    |     |       |  |  |  |
| LUBRICATION  | POLYREX EM     |  |        |              |     |               |               |    |       |    |     |       |  |  |  |
| ID LOGO      | INV TYPE:      |  | VPWM   |              | CHP |               | 60            |    | TO    | 90 |     | 1.5:1 |  |  |  |
| ID LOGO      | WK2            |  | 0.087  |              | CT  |               | 3             |    | TO    | 60 |     | 20:1  |  |  |  |
| ID LOGO      | SL HZ          |  | 0.97   |              | VT  |               | 3             |    | TO    | 60 |     | 20:1  |  |  |  |
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|              |                |  |        |              |     |               |               |    |       |    |     |       |  |  |  |
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|              |                |  |        |              |     |               |               |    |       |    |     |       |  |  |  |
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**AC Induction Motor Performance Data**

Record # 36142

Typical performance - not guaranteed values

| Winding: 35WGP563-R003 |    |             | Type: 3516M                              |                     | Enclosure: TENV         |            |      |
|------------------------|----|-------------|------------------------------------------|---------------------|-------------------------|------------|------|
| Nameplate Data         |    |             | 460 V, 60 Hz:<br>High Voltage Connection |                     |                         |            |      |
| Rated Output (HP)      |    | .5          | Full Load Torque                         |                     | 1.49 LB-FT              |            |      |
| Volts                  |    | 208-230/460 | Start Configuration                      |                     | direct on line          |            |      |
| Full Load Amps         |    | 1.8/.9      | Breakdown Torque                         |                     | 8.65 LB-FT              |            |      |
| R.P.M.                 |    | 1765        | Pull-up Torque                           |                     | 4.54 LB-FT              |            |      |
| Hz                     | 60 | Phase       | 3                                        | Locked-rotor Torque |                         | 5.09 LB-FT |      |
| NEMA Design Code       |    | B           | KVA Code                                 |                     | N                       |            |      |
| Service Factor (S.F.)  |    | 1.15        | Starting Current                         |                     | 7.54 A                  |            |      |
| NEMA Nom. Eff.         |    | 84          | Power Factor                             |                     | 64                      |            |      |
| Rating - Duty          |    | 40C         | AMB-CONT                                 |                     | Temp. Rise @ Rated Load |            | 54°C |
| S.F. Amps              |    |             |                                          |                     | Temp. Rise @ S.F. Load  |            | 61°C |

**Load Characteristics 460 V, 60 Hz, 0.5 HP**

| % of Rated Load | 25    | 50    | 75    | 100   | 125   | 150  | S.F.  |
|-----------------|-------|-------|-------|-------|-------|------|-------|
| Power Factor    | 26    | 41    | 53    | 63    | 70    | 75   | 67    |
| Efficiency      | 65    | 77.6  | 81.5  | 83.8  | 84    | 83.4 | 83.9  |
| Speed           | 1793  | 1783  | 1774  | 1765  | 1755  | 1745 | 1759  |
| Line amperes    | 0.674 | 0.725 | 0.793 | 0.885 | 0.986 | 1.11 | 0.946 |

ABB Motors and Mechanical Inc.

WINDING # 35WGP563

Typical performance - not guaranteed values.

0.5 HP 3 PH 60 HZ 1765 RPM 460 V 3516M

TORQUES (LB-FT) : PO=8.65 PU=4.54 LR=5.09 LRA=7.54





