

# ABB BALDOR RELIANCE III

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## Customer information packet

### VSPJMM3212T

5HP, 3490RPM, 3PH, 60HZ, 182JM, 3634M, ODP, F1

Class - None

Division - Not Applicable

**Specifications**

|                                       |                                                               |
|---------------------------------------|---------------------------------------------------------------|
| <b>Enclosure</b>                      | ODP                                                           |
| <b>Frame</b>                          | 182JM                                                         |
| <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>             | 5.000 HP @ 60 HZ                                              |
| <b>Phase</b>                          | 3                                                             |
| <b>Synchronous Speed @ Frequency</b>  | 3600 RPM @ 60 HZ                                              |
| <b>Voltage @ Frequency</b>            | 230.0 V @ 60 HZ<br>460.0 V @ 60 HZ                            |
| <b>Agency Approvals</b>               | WEEE                                                          |
| <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>              | 11.200 A @ 230.0 V<br>12.200 A @ 208.0 V<br>5.600 A @ 460.0 V |
| <b>Design Code</b>                    | A                                                             |
| <b>Drip Cover</b>                     | Drip Cover                                                    |
| <b>Duty Rating</b>                    | CONT                                                          |
| <b>Efficiency @ 100% Load</b>         | 91.0 %                                                        |
| <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>    | 5.6 a                                                         |
| <b>Insulation Class</b>               | F                                                             |

**Part Detail**

|                     |            |
|---------------------|------------|
| <b>Revision</b>     | B          |
| <b>Type</b>         | AC         |
| <b>Mech. spec.</b>  | 36EE001    |
| <b>Base</b>         |            |
| <b>Status</b>       | PRD/A      |
| <b>Elec. spec.</b>  | 36WGT826   |
| <b>Layout</b>       | 36LYEE001  |
| <b>Eff. date</b>    | 03-19-2026 |
| <b>CD Diagram</b>   | CD0005     |
| <b>Poles</b>        | 02         |
| <b>Leads</b>        | 9#16       |
| <b>Proprietary</b>  | False      |
| <b>Created date</b> | 08-11-2025 |

|                                      |                       |
|--------------------------------------|-----------------------|
| <b>Inverter Code</b>                 | <b>Inverter Duty</b>  |
| <b>KVA Code</b>                      | L                     |
| <b>Lifting Lugs</b>                  | Standard Lifting Lugs |
| <b>Locked Bearing Indicator</b>      | Locked Bearing        |
| <b>Max Speed</b>                     | 5400 rpm              |
| <b>Motor Lead Quantity/Wire Size</b> | 9 @ 16 AWG            |
| <b>Motor Lead Termination</b>        | Flying Leads          |
| <b>Motor Standards</b>               | NEMA                  |
| <b>Motor Type</b>                    | 3634M                 |
| <b>Mounting Arrangement</b>          | F1                    |
| <b>Number of Poles</b>               | 2                     |
| <b>Overall Length</b>                | 18.05 IN              |
| <b>Power Factor</b>                  | 93                    |
| <b>Product Family</b>                | General Purpose       |
| <b>Pulley End Bearing Type</b>       | Ball                  |
| <b>Pulley Face Code</b>              | C-Face                |
| <b>Pulley Shaft Indicator</b>        | Tapped & Key          |
| <b>Rodent Screen</b>                 | Included              |
| <b>RoHS Status</b>                   | ROHS COMPLIANT        |
| <b>Service Factor</b>                | 1.15                  |
| <b>Shaft Diameter</b>                | 0.875 IN              |
| <b>Shaft Ground Indicator</b>        | No Shaft Grounding    |
| <b>Shaft Rotation</b>                | Reversible            |
| <b>Shaft Slinger Indicator</b>       | Shaft Slinger         |
| <b>Speed</b>                         | 3490 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**

| NP4423A01A01L |               |        |      |      |      |               |          |       |     |    |       |  |  |  |
|---------------|---------------|--------|------|------|------|---------------|----------|-------|-----|----|-------|--|--|--|
| CAT #         | VSPJMM3212T   |        |      |      |      | WGT           | 81       | LBS   |     |    |       |  |  |  |
| SPEC          | 36EE001T826   |        |      |      |      | ENCL          | ODP      |       |     |    |       |  |  |  |
| SER #         |               |        |      |      |      | CC            | 010A     | IP    | 23  |    |       |  |  |  |
| HP            | 5             |        |      |      |      | MAG CUR       | 11.2/5.6 |       |     |    |       |  |  |  |
| VOLTS         | 230/460       |        |      |      |      | NEMA NOM. EFF |          |       |     | 91 |       |  |  |  |
| AMPS          | 11.2/5.6      |        |      |      |      | PF            | 93       |       |     |    |       |  |  |  |
| RATING        | 40C AMB-CONT  |        |      |      |      |               |          |       |     |    |       |  |  |  |
| RPM           | 3490          |        |      |      |      | MAX RPM       |          | 5400  |     |    |       |  |  |  |
| FRAME         | 182JM         | HZ     | 60   |      |      | CODE          | L        | CLASS | F   |    |       |  |  |  |
| SER.F.        | 1.25          | SF AMP | 14/7 |      |      |               | PH       | 3     | DES | A  |       |  |  |  |
| DE            | 6207          |        | ODE  | 6205 |      |               |          |       |     |    |       |  |  |  |
| LUBRICATION   | POLYREX EM    |        |      |      |      |               |          |       |     |    |       |  |  |  |
| ID LOGO       | INVERTER TYPE |        |      |      | VPWM |               | CHP      | 60    | TO  | 90 | 1.5:1 |  |  |  |
| ID LOGO       | WK2           | 0.15   | CT   | 6    | TO   | 60            | 10:1     |       |     |    |       |  |  |  |
| ID LOGO       | SL HZ         | 1.8    | VT   | 3    | TO   | 60            | 20:1     |       |     |    |       |  |  |  |
|               |               |        |      |      |      |               |          |       |     |    |       |  |  |  |
|               |               |        |      |      |      |               |          |       |     |    |       |  |  |  |
|               |               |        |      |      |      |               |          |       |     |    |       |  |  |  |
|               |               |        |      |      |      |               |          |       |     |    |       |  |  |  |
|               |               |        |      |      |      |               | QR       |       |     |    |       |  |  |  |
| YR            |               |        |      |      |      |               |          |       |     |    |       |  |  |  |

**AC Induction Motor Performance Data**

Record # 100980

Typical performance - not guaranteed values

| Winding: 36WGT826-R009 |    |          | Type: 3634M                              |                     | Enclosure: OPSB         |            |        |
|------------------------|----|----------|------------------------------------------|---------------------|-------------------------|------------|--------|
| Nameplate Data         |    |          | 460 V, 60 Hz:<br>High Voltage Connection |                     |                         |            |        |
| Rated Output (HP)      |    | 5        | Full Load Torque                         |                     | 7.6 LB-FT               |            |        |
| Volts                  |    | 230/460  | Start Configuration                      |                     | direct on line          |            |        |
| Full Load Amps         |    | 11.2/5.6 | Breakdown Torque                         |                     | 41.6 LB-FT              |            |        |
| R.P.M.                 |    | 3490     | Pull-up Torque                           |                     | 26 LB-FT                |            |        |
| Hz                     | 60 | Phase    | 3                                        | Locked-rotor Torque |                         | 30.5 LB-FT |        |
| NEMA Design Code       |    | A        | KVA Code                                 | L                   | Starting Current        |            | 59.9 A |
| Service Factor (S.F.)  |    | 1.15     | No-load Current                          |                     | 1.61 A                  |            |        |
| NEMA Nom. Eff.         |    | 91       | Power Factor                             | 93                  | Line-line Res. @ 25°C   |            | 2.17 Ω |
| Rating - Duty          |    | 40C      | AMB-CONT                                 |                     | Temp. Rise @ Rated Load |            | 24°C   |
| S.F. Amps              |    |          | Temp. Rise @ S.F. Load                   |                     | 31°C                    |            |        |
|                        |    |          | Locked-rotor Power Factor                |                     | 43.2                    |            |        |
|                        |    |          | Rotor inertia                            |                     | 0.152 lb-ft²            |            |        |

**Load Characteristics 460 V, 60 Hz, 5 HP**

| % of Rated Load | 25   | 50   | 75   | 100  | 125  | 150  | S.F. |
|-----------------|------|------|------|------|------|------|------|
| Power Factor    | 63   | 83   | 90   | 93   | 94   | 95   | 94   |
| Efficiency      | 89.2 | 92   | 91.9 | 91.1 | 89.8 | 88.3 | 90.3 |
| Speed           | 3572 | 3546 | 3518 | 3490 | 3458 | 3423 | 3471 |
| Line amperes    | 2.16 | 3.15 | 4.32 | 5.58 | 6.96 | 8.51 | 6.41 |

ABB Motors and Mechanical Inc.

WINDING # 36WGT826

Typical performance - not guaranteed values.

5 HP 3 PH 60 HZ 3490 RPM 460 V 3634M

TORQUES (LB-FT): PO=41.6 PU=26 LR=30.5 LRA=59.9





