

# ABB BALDOR RELIANCE III

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## Customer information packet

### VSPNM3546T

1HP, 1770RPM, 3PH, 60HZ, 143TC, 3522M, TENV, F1

Class - None

Division - Not Applicable

**Specifications**

|                                |                                                             |
|--------------------------------|-------------------------------------------------------------|
| Enclosure                      | TENV                                                        |
| Frame                          | 143TC                                                       |
| 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             | 1.000 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               | NEMA PREMIUM 4<br>WEEE                                      |
| Ambient Temperature            | 40 °C                                                       |
| Auxiliary Box                  | NO AUXILLARY BOX                                            |
| Auxiliary Box Lead Termination | None                                                        |
| Base Indicator                 | No Mounting                                                 |
| Bearing Grease Type            | Polyrex EM (-20F +300F)                                     |
| Blower                         | None                                                        |
| Current @ Voltage              | 1.670 A @ 460.0 V<br>3.300 A @ 208.0 V<br>3.340 A @ 230.0 V |
| Design Code                    | B                                                           |
| Drip Cover                     | No Drip Cover                                               |
| Duty Rating                    | CONT                                                        |
| Efficiency @ 100% Load         | 85.5 %                                                      |
| Electrically Isolated Bearing  | Not Electrically Isolated                                   |
| Feedback Device                | NO FEEDBACK                                                 |
| Front Shaft Indicator          | None                                                        |
| Heater Indicator               | No Heater                                                   |
| High Voltage Full Load Amps    | 1.7 a                                                       |

**Part Detail**

|              |            |
|--------------|------------|
| Revision     | D          |
| Type         | AC         |
| Mech. spec.  | 35E6507    |
| Base         |            |
| Status       | PRD/A      |
| Elec. spec.  | 35WGZ818   |
| Layout       | 35LYE6507  |
| Eff. date    | 11-19-2025 |
| CD Diagram   | CD0005     |
| Poles        | 04         |
| Leads        | 9#18       |
| Proprietary  | False      |
| Created date | 02-22-2024 |

|                                      |                            |
|--------------------------------------|----------------------------|
| <b>Insulation Class</b>              | <b>H</b>                   |
| <b>Inverter Code</b>                 | <b>Inverter Duty</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>2700 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>12.12 IN</b>            |
| <b>Power Factor</b>                  | <b>66</b>                  |
| <b>Product Family</b>                | <b>General Purpose</b>     |
| <b>Pulley End Bearing Type</b>       | <b>Ball</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>RoHS Status</b>                   | <b>ROHS COMPLIANT</b>      |
| <b>Service Factor</b>                | <b>1.15</b>                |
| <b>Shaft Diameter</b>                | <b>0.875 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>None</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**

| NP4423A01A01L |               |         |          |   |      |               |       |     |      |    |       |  |  |
|---------------|---------------|---------|----------|---|------|---------------|-------|-----|------|----|-------|--|--|
| CAT #         | VSPNM3546T    |         |          |   |      | WGT           | 37    | LBS |      |    |       |  |  |
| SPEC          | 35E6507Z818   |         |          |   |      | ENCL          | TENV  |     |      |    |       |  |  |
| SER #         |               |         |          |   |      | CC            | 010A  | IP  | 54   |    |       |  |  |
| HP            | 1             | MAG CUR |          |   |      | 2/1           |       |     |      |    |       |  |  |
| VOLTS         | 230/460       |         |          |   |      | NEMA NOM. EFF |       |     |      |    | 85.5  |  |  |
| AMPS          | 3.34/1.67     |         |          |   |      | PF            | 66    |     |      |    |       |  |  |
| RATING        | 40C AMB-CONT  |         |          |   |      |               |       |     |      |    |       |  |  |
| RPM           | 1770          |         |          |   |      | MAX RPM       |       |     | 2700 |    |       |  |  |
| FRAME         | 143TC         | HZ      | 60       |   | CODE | M             | CLASS |     | H    |    |       |  |  |
| SER.F.        | 1.15          | SF AMP  | 3.5/1.75 |   |      |               | PH    | 3   | DES  | B  |       |  |  |
| DE            | 6205          |         | ODE      |   | 6203 |               |       |     |      |    |       |  |  |
| LUBRICATION   | POLYREX EM    |         |          |   |      |               |       |     |      |    |       |  |  |
| ID LOGO       | INVERTER TYPE |         |          |   | VPWM |               | CHP   | 60  | TO   | 90 | 1.5:1 |  |  |
| ID LOGO       | WK2           | 0.159   | CT       | 6 | TO   | 60            | 10:1  |     |      |    |       |  |  |
| ID LOGO       | SL HZ         | 1       | VT       | 3 | TO   | 60            | 20:1  |     |      |    |       |  |  |
|               |               |         |          |   |      |               |       |     |      |    |       |  |  |
|               |               |         |          |   |      |               |       |     |      |    |       |  |  |
|               |               |         |          |   |      |               |       |     |      |    |       |  |  |
|               |               |         |          |   |      |               |       |     |      |    |       |  |  |
|               |               |         |          |   |      |               | QR    |     |      |    |       |  |  |
| YR            |               |         |          |   |      |               |       |     |      |    |       |  |  |



