

# ABB BALDOR RELIANCE III

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## Customer information packet

### VSPM3309T

5HP, 1160RPM, 3PH, 60HZ, 215TC, 3744M, OPSB, F1

Class - None

Division - Not Applicable

**Specifications**

|                                       |                                                               |
|---------------------------------------|---------------------------------------------------------------|
| <b>Enclosure</b>                      | OPSB                                                          |
| <b>Frame</b>                          | 215TC                                                         |
| <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>  | 1200 RPM @ 60 HZ                                              |
| <b>Voltage @ Frequency</b>            | 230.0 V @ 60 HZ<br>460.0 V @ 60 HZ                            |
| <b>Agency Approvals</b>               | NEMA PREMIUM 4<br>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>              | 14.600 A @ 230.0 V<br>15.700 A @ 208.0 V<br>7.300 A @ 460.0 V |
| <b>Design Code</b>                    | A                                                             |
| <b>Drip Cover</b>                     | No Drip Cover                                                 |
| <b>Duty Rating</b>                    | CONT                                                          |
| <b>Efficiency @ 100% Load</b>         | 90.2 %                                                        |
| <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>    | 7.3 a                                                         |

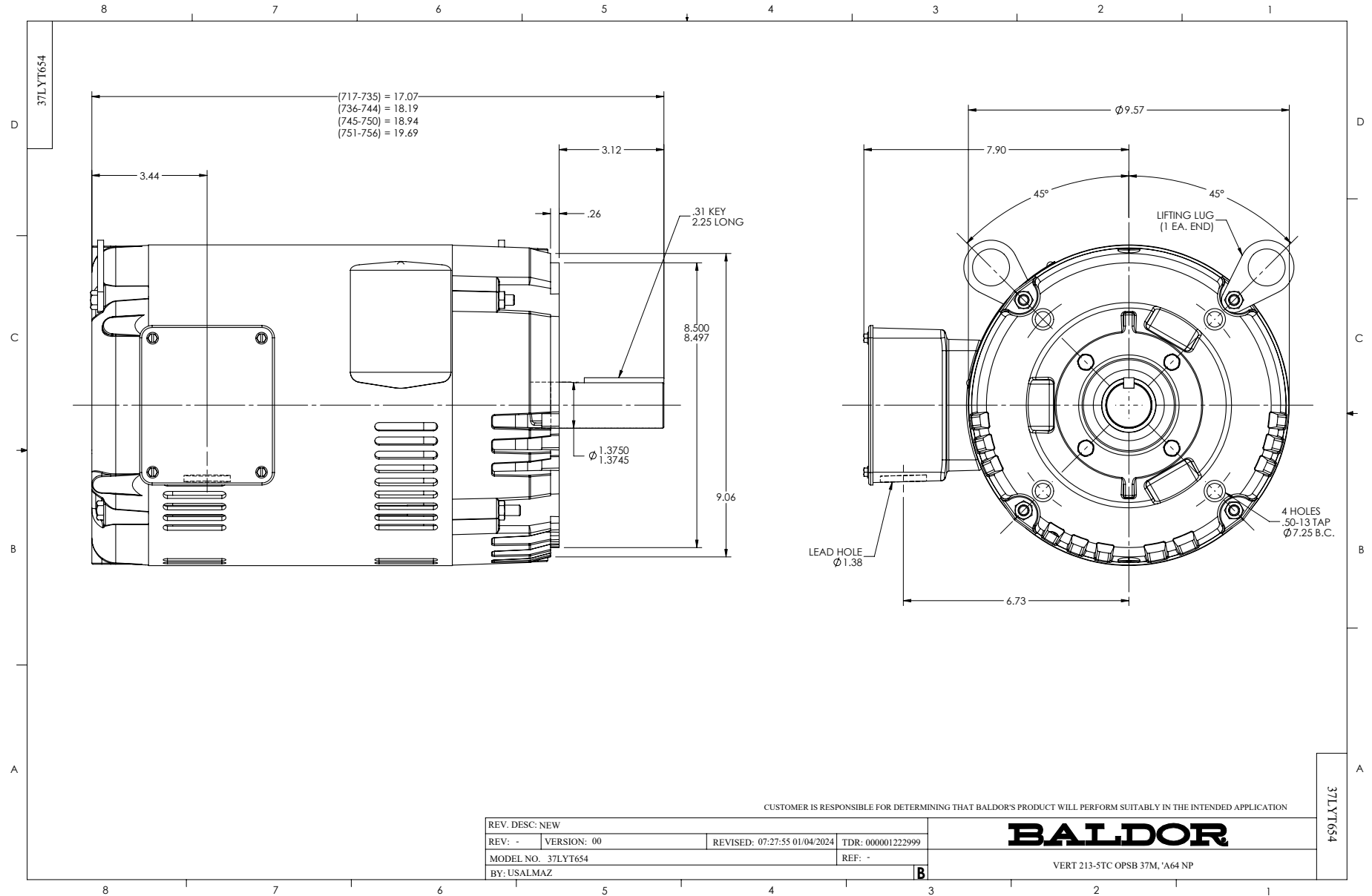
**Part Detail**

|                     |            |
|---------------------|------------|
| <b>Revision</b>     | B          |
| <b>Type</b>         | AC         |
| <b>Mech. spec.</b>  | 37T654     |
| <b>Base</b>         |            |
| <b>Status</b>       | PRD/A      |
| <b>Elec. spec.</b>  | 37WGT973   |
| <b>Layout</b>       | 37LYT654   |
| <b>Eff. date</b>    | 11-19-2025 |
| <b>CD Diagram</b>   | CD0005     |
| <b>Poles</b>        | 06         |
| <b>Leads</b>        | 9#14       |
| <b>Proprietary</b>  | False      |
| <b>Created date</b> | 11-29-2023 |

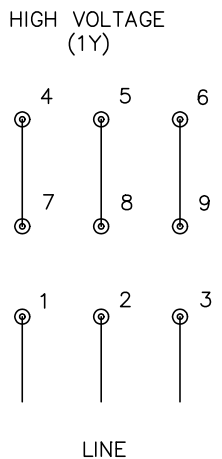
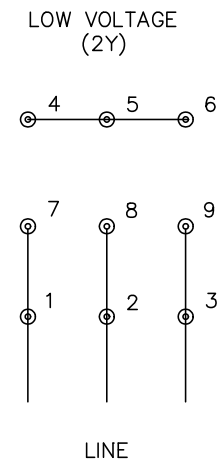
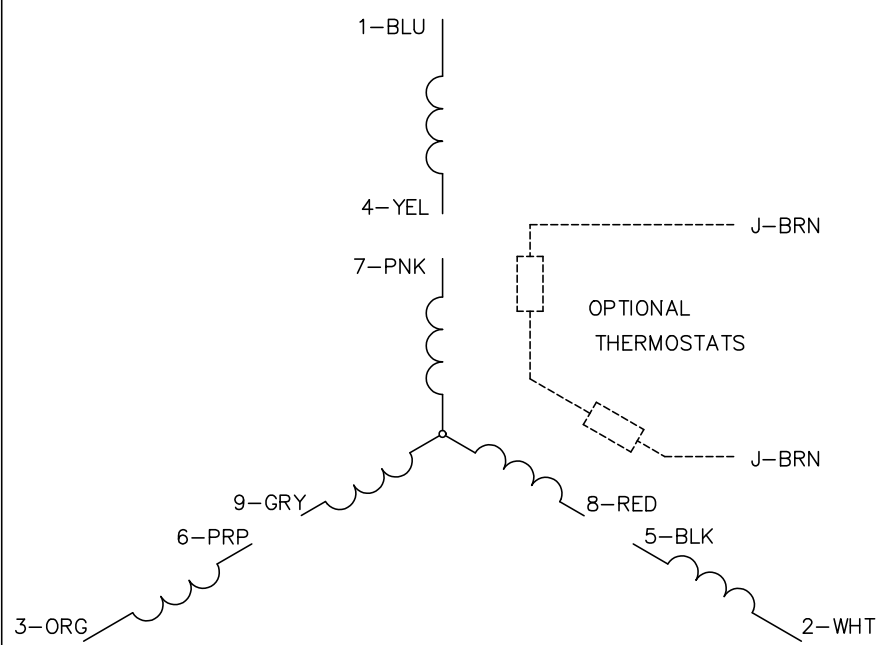
|                                      |                              |
|--------------------------------------|------------------------------|
| <b>Insulation Class</b>              | <b>F</b>                     |
| <b>Inverter Code</b>                 | <b>Inverter Duty</b>         |
| <b>KVA Code</b>                      | <b>K</b>                     |
| <b>Lifting Lugs</b>                  | <b>Standard Lifting Lugs</b> |
| <b>Locked Bearing Indicator</b>      | <b>Locked Bearing</b>        |
| <b>Max Speed</b>                     | <b>1800 rpm</b>              |
| <b>Motor Lead Quantity/Wire Size</b> | <b>9 @ 14 AWG</b>            |
| <b>Motor Lead Termination</b>        | <b>Flying Leads</b>          |
| <b>Motor Standards</b>               | <b>NEMA</b>                  |
| <b>Motor Type</b>                    | <b>3744M</b>                 |
| <b>Mounting Arrangement</b>          | <b>F1</b>                    |
| <b>Number of Poles</b>               | <b>6</b>                     |
| <b>Overall Length</b>                | <b>18.19 IN</b>              |
| <b>Power Factor</b>                  | <b>71</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>Service Factor</b>                | <b>1.15</b>                  |
| <b>Shaft Diameter</b>                | <b>1.375 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>1160 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 #         | VSPM3309T     |         |          |   |      | WGT           | 141   | LBS |      |    |       |  |  |
| SPEC          | 37T654T973    |         |          |   |      | ENCL          | OPSB  |     |      |    |       |  |  |
| SER #         |               |         |          |   |      | CC            | 010A  | IP  | 23   |    |       |  |  |
| HP            | 5             | MAG CUR |          |   |      | 7.6/3.8       |       |     |      |    |       |  |  |
| VOLTS         | 230/460       |         |          |   |      | NEMA NOM. EFF |       |     |      |    | 90.2  |  |  |
| AMPS          | 14.6/7.3      |         |          |   |      |               | PF    | 71  |      |    |       |  |  |
| RATING        | 40C AMB-CONT  |         |          |   |      |               |       |     |      |    |       |  |  |
| RPM           | 1160          |         |          |   |      | MAX RPM       |       |     | 1800 |    |       |  |  |
| FRAME         | 215TC         | HZ      | 60       |   | CODE | K             | CLASS |     | F    |    |       |  |  |
| SER.F.        | 1.15          | SF AMP  | 16.4/8.2 |   |      |               | PH    | 3   | DES  | A  |       |  |  |
| DE            | 6307          |         | ODE      |   | 6206 |               |       |     |      |    |       |  |  |
| LUBRICATION   | POLYREX EM    |         |          |   |      |               |       |     |      |    |       |  |  |
| ID LOGO       | INVERTER TYPE |         |          |   | VPWM |               | CHP   | 60  | TO   | 90 | 1.5:1 |  |  |
| ID LOGO       | WK2           | 1.09    | CT       | 6 | TO   | 60            | 10:1  |     |      |    |       |  |  |
| ID LOGO       | SL HZ         | 2       | VT       | 3 | TO   | 60            | 20:1  |     |      |    |       |  |  |
|               |               |         |          |   |      |               |       |     |      |    |       |  |  |
|               |               |         |          |   |      |               |       |     |      |    |       |  |  |
|               |               |         |          |   |      |               |       |     |      |    |       |  |  |
|               |               |         |          |   |      |               | QR    |     |      |    |       |  |  |
| YR            |               |         |          |   |      |               |       |     |      |    |       |  |  |



CD0005



- NOTES:
- 1. INTERCHANGE ANY TWO LINE LEADS TO REVERSE ROTATION.
  - 2. OPTIONAL THERMOSTATS ARE PROVIDED WHEN SPECIFIED.
  - 3. ACTUAL NUMBER OF INTERNAL PARALLEL CIRCUITS MAY BE A MULTIPLE OF THOSE SHOWN ABOVE.
  - 4. LEAD COLORS ARE OPTIONAL. LEADS MUST ALWAYS BE NUMBERED AS SHOWN.

|                                           |         |                         |              |
|-------------------------------------------|---------|-------------------------|--------------|
| REV. DESC: REVISE TO SHOW OPTIONAL COLORS |         |                         |              |
| REV. LTR: E                               | BY: JLP | REVISED: 01/19/99 10:15 | TDR: 0171435 |
| 900000                                    |         | FILE: AAA00005140       | MDL: -       |
|                                           |         | MTL: -                  |              |

**BALDOR ELECTRIC Co.**

3PH, DV, 9 LEADS

CD0005