

# ABB BALDOR RELIANCE III

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## Customer information packet

### VJPFPM2542T-5

50HP, 3525RPM, 3PH, 60HZ, 324JP, 4044M, OPSB, F

**Specifications**

|                                |                           |
|--------------------------------|---------------------------|
| Enclosure                      | OPSB                      |
| Frame                          | 324JP                     |
| Frame Material                 | Steel                     |
| Frequency                      | 60.00 Hz                  |
| Motor Letter Type              | Three Phase               |
| Output @ Frequency             | 50.000 HP @ 60 HZ         |
| Phase                          | 3                         |
| Synchronous Speed @ Frequency  | 3600 RPM @ 60 HZ          |
| Voltage @ Frequency            | 575.0 V @ 60 HZ           |
| Agency Approvals               | CSA EEV                   |
|                                | UL                        |
| 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              | 46.000 A @ 575.0 V        |
| Design Code                    | B                         |
| Drip Cover                     | Drip Cover                |
| Duty Rating                    | CONT                      |
| Efficiency @ 100% Load         | 92.4 %                    |
| Electrically Isolated Bearing  | Not Electrically Isolated |
| Feedback Device                | NO FEEDBACK               |
| Heater Indicator               | No Heater                 |
| High Voltage Full Load Amps    | 46.0 a                    |
| Insulation Class               | F                         |
| Inverter Code                  | Not Inverter              |
| KVA Code                       | F                         |
| Lifting Lugs                   | Vertical Lifting Lugs     |
| Locked Bearing Indicator       | Locked Bearing            |
| Motor Lead Termination         | Flying Leads              |

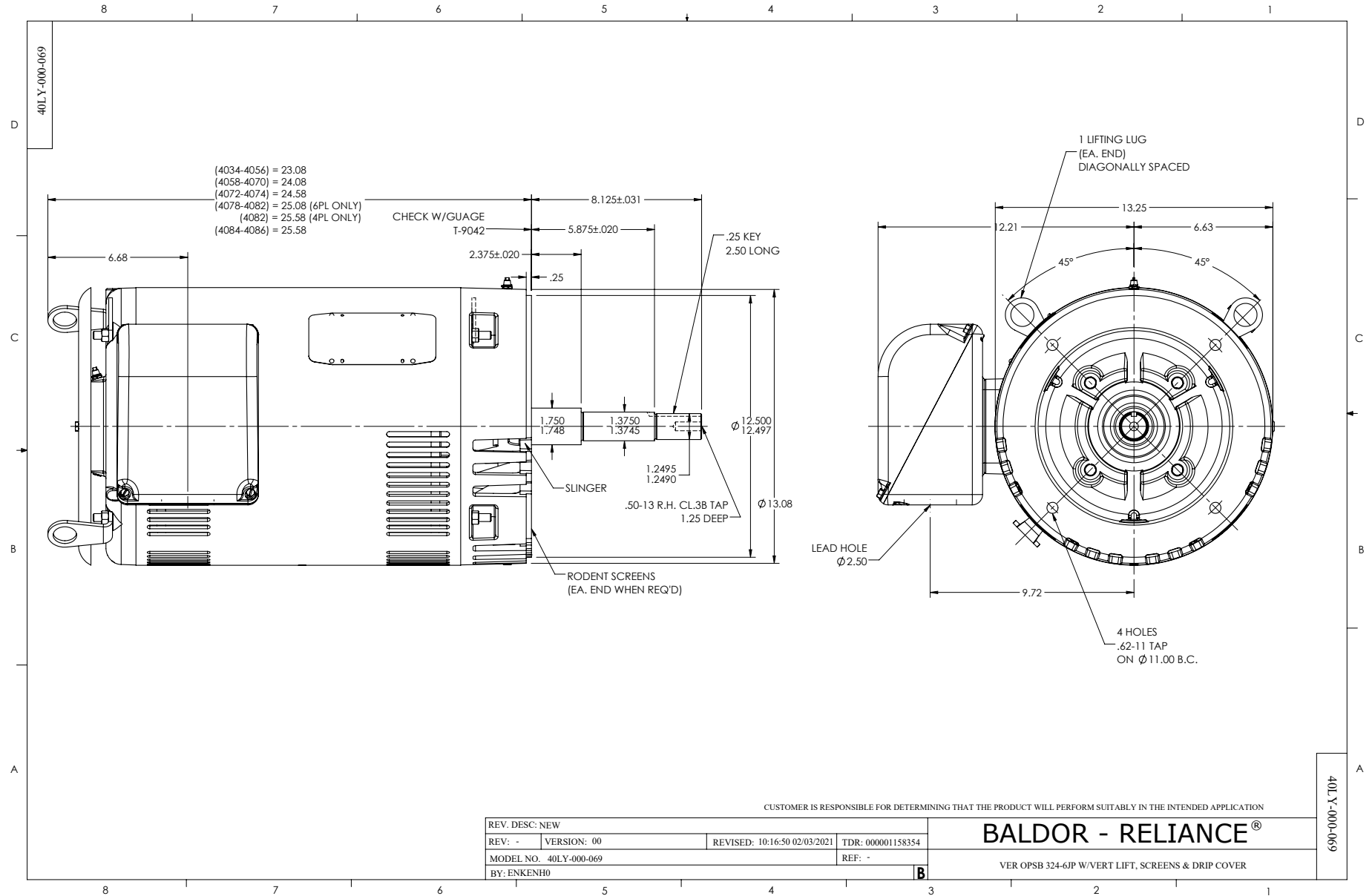
**Part Detail**

|              |              |
|--------------|--------------|
| Revision     | A            |
| Type         | AC           |
| Mech. spec.  |              |
| Base         |              |
| Status       | PRD/A        |
| Elec. spec.  | 40WGX356     |
| Layout       | 40LY-000-069 |
| Eff. date    | 08-01-2023   |
| CD Diagram   | CD0382       |
| Poles        | 02           |
| Leads        | 6#8          |
| Proprietary  | False        |
| Created date | 02-09-2021   |

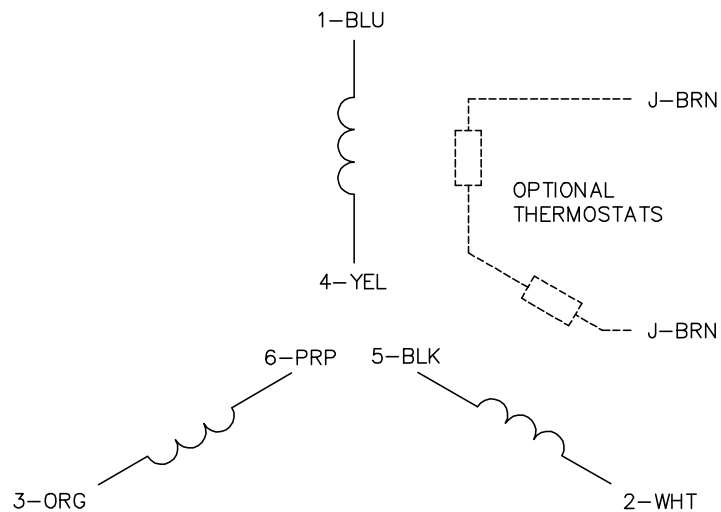
|                                   |                              |
|-----------------------------------|------------------------------|
| <b>Motor Standards</b>            | <b>NEMA</b>                  |
| <b>Motor Type</b>                 | <b>4044M</b>                 |
| <b>Mounting Arrangement</b>       | <b>F1</b>                    |
| <b>Number of Poles</b>            | <b>2</b>                     |
| <b>Overall Length</b>             | <b>31.21 IN</b>              |
| <b>Power Factor</b>               | <b>87</b>                    |
| <b>Product Family</b>             | <b>General Purpose</b>       |
| <b>Pulley Face Code</b>           | <b>C-Face</b>                |
| <b>Rodent Screen</b>              | <b>Included</b>              |
| <b>Service Factor</b>             | <b>1.15</b>                  |
| <b>Shaft Diameter</b>             | <b>1.250 IN</b>              |
| <b>Shaft Ground Indicator</b>     | <b>No Shaft Grounding</b>    |
| <b>Shaft Rotation</b>             | <b>Reversible</b>            |
| <b>Speed</b>                      | <b>3525 rpm</b>              |
| <b>Speed Code</b>                 | <b>Single Speed</b>          |
| <b>Starting Method</b>            | <b>Wye Start - Delta Run</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**

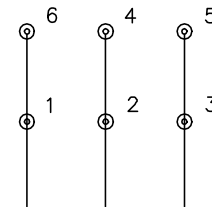
| NP3454L   |               |          |      |  |           |      |  |          |            |        |       |      |  |
|-----------|---------------|----------|------|--|-----------|------|--|----------|------------|--------|-------|------|--|
| CAT.NO.   | VJPFPM2542T-5 |          |      |  | CUST P/N  |      |  |          |            | I.P.   | 23    |      |  |
| SPEC.     | 40-0000-0207  |          |      |  | SER.NO.   |      |  |          |            | FRAME  | 324JP |      |  |
| HZ        | 60            | HP       | 50   |  | RPM       | 3525 |  | HZ       |            | HP     |       | RPM  |  |
| VOLTS     | 575           |          |      |  | CODE      | F    |  | VOLTS    |            |        |       | CODE |  |
| AMPS      | 46            |          |      |  | DES       | B    |  | AMPS     |            |        |       | DES  |  |
| EFF       | 92.4          | SER.F.   | 1.15 |  | PF        | 87   |  | EFF      |            | SER.F. |       | PF   |  |
| RATING    | 40C AMB-CONT  |          |      |  | DE BRG    | 6312 |  | GREASE   | POLYREX EM |        |       |      |  |
| BLANK     |               |          |      |  | ODE BRG   | 6309 |  | MTR. WT. | 396        |        |       |      |  |
|           |               |          |      |  | CLASS     | F    |  | PH       | 3          |        |       |      |  |
|           |               |          |      |  | ENCL      | OPSB |  | CC       | 010A       |        |       |      |  |
| HTR-VOLTS |               | HTR-AMPS |      |  | HTR-WATTS |      |  |          |            |        |       |      |  |



CD0382

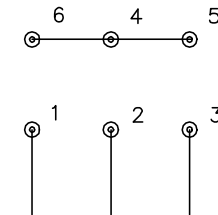


RUN CONNECTION  
(1D)



LINE

START CONNECTION  
(1Y)



LINE

**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.
5. FOR ACROSS-THE-LINE STARTING, USE 'RUN' CONNECTION.

REV. DESC: ADD CLASS CONN00000007

REV. LTR: F

VERSION: 01

TDR: 000001099922

FILE: \AAA\00005\243

REVISED: 09:05:32 02/19/2019

BY: ENBRIRO

MTL: -



**BALDOR - RELIANCE®**

3PH, SV, 6 LEADS, Y START/D RUN

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