

# **ABB BALDOR RELIANCE III**



## **Customer information packet** EJMM2539T

40HP, 1770RPM, 3PH, 60HZ, 324JM, 4064M, OPSB, F

**Specifications**

|                                       |  |
|---------------------------------------|--|
| <b>Enclosure</b>                      | OPSB   |
| <b>Frame</b>                          | 324JM  |
| <b>Frame Material</b>                 | Steel  |
| <b>Frequency</b>                      | 60.00 Hz   |
| <b>Motor Letter Type</b>              | Three Phase  |
| <b>Output @ Frequency</b>             | 40.000 HP @ 60 HZ  |
| <b>Phase</b>                          | 3  |
| <b>Synchronous Speed @ Frequency</b>  | 1800 RPM @ 60 HZ   |
| <b>Voltage @ Frequency</b>            | 230.0 V @ 60 HZ<br>460.0 V @ 60 HZ                             |
| <b>Agency Approvals</b>               | CSA<br>CSA EEV<br>UR   |
| <b>Ambient Temperature</b>            | 40 °C  |
| <b>Auxiliary Box</b>                  | NO AUXILLARY BOX   |
| <b>Auxiliary Box Lead Termination</b> | None   |
| <b>Base Indicator</b>                 | Rigid  |
| <b>Bearing Grease Type</b>            | Polyrex EM (-20F +300F)  |
| <b>Blower</b>                         | None   |
| <b>Current @ Voltage</b>              | 98.000 A @ 230.0 V<br>99.000 A @ 208.0 V<br>49.000 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>         | 94.1 %   |
| <b>Electrically Isolated Bearing</b>  | Not Electrically Isolated                                      |
| <b>Feedback Device</b>                | NO FEEDBACK  |
| <b>Front Face Code</b>                | Standard   |
| <b>Front Shaft Indicator</b>          | None   |
| <b>Heater Indicator</b>               | No Heater  |
| <b>High Voltage Full Load Amps</b>    | 49.0 a   |

**Part Detail**

|                     |            |
|---------------------|------------|
| <b>Revision</b>     | Z          |
| <b>Type</b>         | AC         |
| <b>Mech. spec.</b>  | 40E214     |
| <b>Base</b>         |            |
| <b>Status</b>       | PRD/A      |
| <b>Elec. spec.</b>  | 40WGX166   |
| <b>Layout</b>       | 40LYE214   |
| <b>Eff. date</b>    | 11-29-2023 |
| <b>CD Diagram</b>   | CD0005     |
| <b>Poles</b>        | 04         |
| <b>Leads</b>        | 9#8        |
| <b>Proprietary</b>  | False      |
| <b>Created date</b> | 05-24-2010 |

|                                      |                       |
|--------------------------------------|-----------------------|
| <b>Insulation Class</b>              | F                     |
| <b>Inverter Code</b>                 | Inverter Ready        |
| <b>KVA Code</b>                      | H                     |
| <b>Lifting Lugs</b>                  | Standard Lifting Lugs |
| <b>Locked Bearing Indicator</b>      | Locked Bearing        |
| <b>Motor Lead Exit</b>               | Ko Box                |
| <b>Motor Lead Quantity/Wire Size</b> | 9 @ 8 AWG             |
| <b>Motor Lead Termination</b>        | Flying Leads          |
| <b>Motor Standards</b>               | NEMA                  |
| <b>Motor Type</b>                    | 4064M                 |
| <b>Mounting Arrangement</b>          | F1                    |
| <b>Number of Poles</b>               | 4                     |
| <b>Overall Length</b>                | 27.44 IN              |
| <b>Power Factor</b>                  | 82                    |
| <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>Service Factor</b>                | 1.15                  |
| <b>Shaft Diameter</b>                | 1.375 IN              |
| <b>Shaft Extension Location</b>      | Pulley End            |
| <b>Shaft Ground Indicator</b>        | No 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   |
| <b>Winding Thermal 1</b>             | None                  |
| <b>Winding Thermal 2</b>             | None                  |

**Nameplate**

| <b>NP2138LUA</b>    |                            |           |                 |               |            |                |            |                  |      |  |  |
|---------------------|----------------------------|-----------|-----------------|---------------|------------|----------------|------------|------------------|------|--|--|
| <b>CAT.NO.</b>      | EJMM2539T                  |           | <b>P/N</b>      |               |            |                |            | <b>ENCLOSURE</b> | OPSB |  |  |
| <b>SPEC.</b>        | 40E214X166G1               | <b>CC</b> | 010A            | <b>FRAME</b>  | 324JM      |                | <b>S/N</b> |                  |      |  |  |
| <b>HP</b>           | 40                         |           | <b>CLASS</b>    | F             | <b>HZ</b>  | 60             |            |                  |      |  |  |
| <b>RPM</b>          | 1770                       |           | <b>PH</b>       | 3             | <b>DES</b> | A              |            |                  |      |  |  |
| <b>VOLT</b>         | 230/460                    |           | <b>KVA-CODE</b> | H             |            | <b>ODE BRG</b> | 6309       | <b>DE BRG</b>    | 6312 |  |  |
| <b>AMP</b>          | 98/49                      |           |                 |               |            |                |            |                  |      |  |  |
| <b>RATING</b>       | 40C AMB-CONT               |           | <b>GREASE</b>   | POLYREX EM    |            |                |            |                  |      |  |  |
| <b>NEMA-NOM-EFF</b> | 94.1                       | <b>PF</b> | 82              | <b>SER.F.</b> | 1.15       |                |            |                  |      |  |  |
|                     | 50HZ 40HP 190/380V 114/57A |           |                 |               | SF1.0      |                |            |                  |      |  |  |
| <b>HTR-VOLTS</b>    | <b>HTR-AMPS</b>            |           |                 |               |            |                |            |                  |      |  |  |

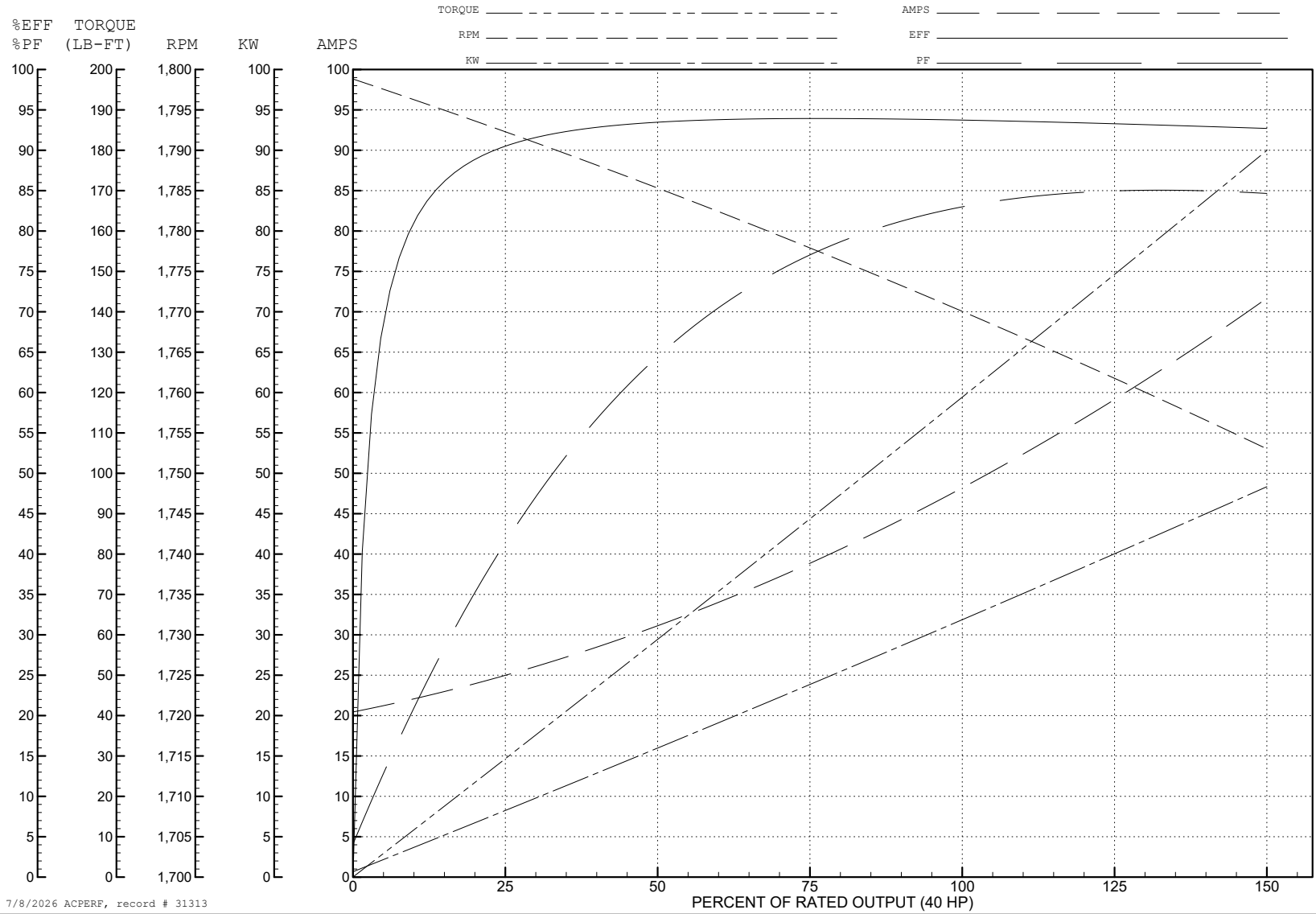
ABB Motors and Mechanical Inc.

WINDING # 40WGx166

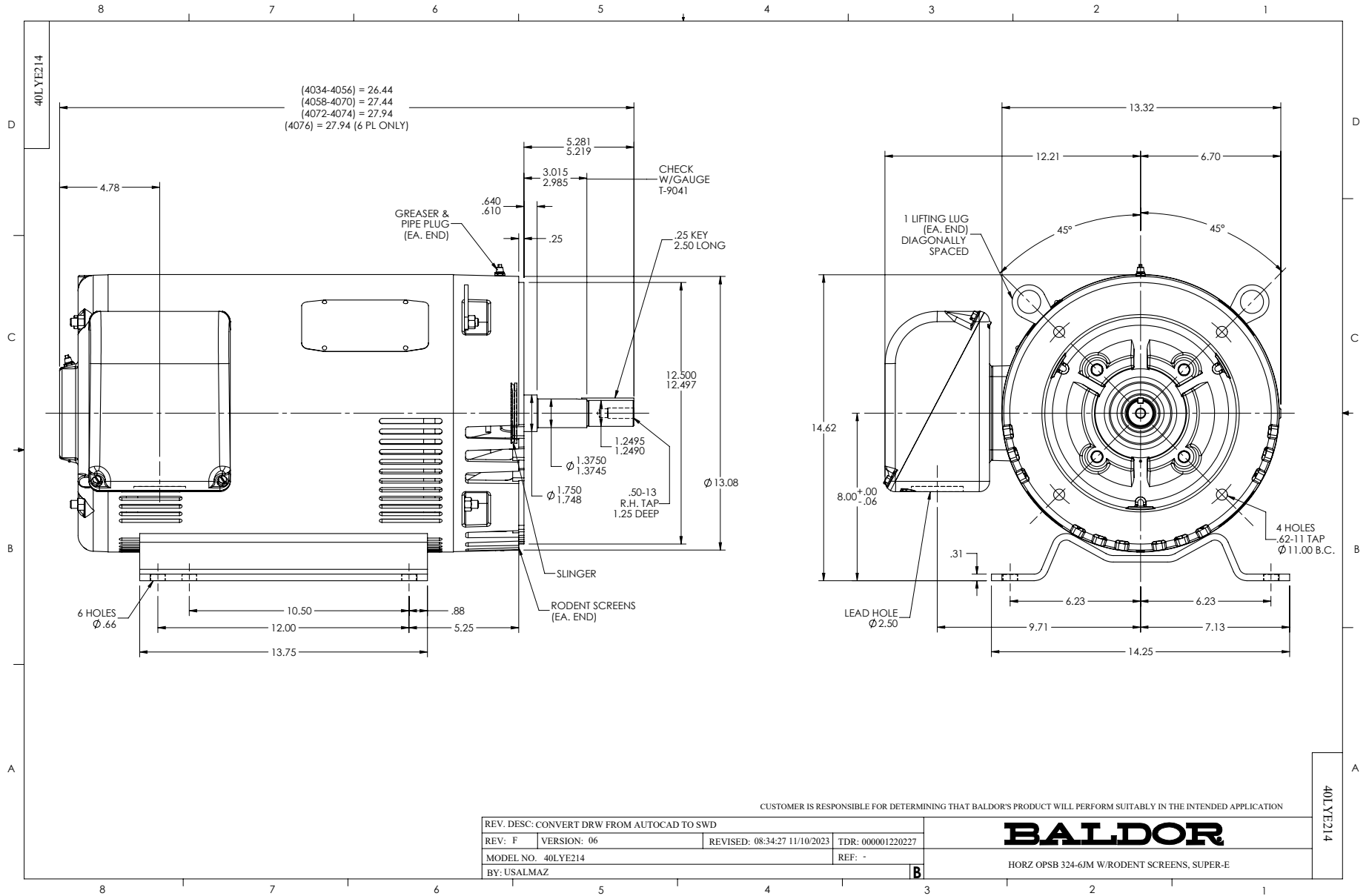
Typical performance - not guaranteed values.

40 HP 3 PH 60 HZ 1770 RPM 460 V 4064M

TORQUES (LB-FT): PO=427 PU=187 LR=246 LRA=330



7/8/2026 ACPERF, record # 31313



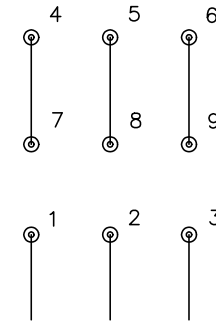
CD0005



LOW VOLTAGE  
(2Y)



HIGH VOLTAGE  
(1Y)



**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 |
| S00000                                    |         | FILE: AAA00005140       | MDL: -       |
|   |         | MTL: -                  |              |

**BALDOR ELECTRIC Co.**

3PH, DV, 9 LEADS

CD0005