

# ABB BALDOR RELIANCE III

---

## Customer information packet

### EHM2536T

30HP, 1180RPM, 3PH, 60HZ, 326T, 4084M, OPSB, F1

**Specifications**

|                                       |                                                                |
|---------------------------------------|----------------------------------------------------------------|
| <b>Enclosure</b>                      | OPSB                                                           |
| <b>Frame</b>                          | 326T                                                           |
| <b>Frame Material</b>                 | Steel                                                          |
| <b>Frequency</b>                      | 60.00 Hz                                                       |
| <b>Motor Letter Type</b>              | Three Phase                                                    |
| <b>Output @ Frequency</b>             | 30.000 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>               | CSA<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>              | 38.000 A @ 460.0 V<br>76.000 A @ 230.0 V<br>80.000 A @ 208.0 V |
| <b>Design Code</b>                    | A                                                              |
| <b>Drip Cover</b>                     | No Drip Cover                                                  |
| <b>Duty Rating</b>                    | CONT                                                           |
| <b>Efficiency @ 100% Load</b>         | 93.6 %                                                         |
| <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>    | 38.0 a                                                         |
| <b>Insulation Class</b>               | F                                                              |
| <b>Inverter Code</b>                  | Inverter Ready                                                 |

**Part Detail**

|                     |            |
|---------------------|------------|
| <b>Revision</b>     | J          |
| <b>Type</b>         | AC         |
| <b>Mech. spec.</b>  | 40E329     |
| <b>Base</b>         |            |
| <b>Status</b>       | PRD/A      |
| <b>Elec. spec.</b>  | 40WGX122   |
| <b>Layout</b>       | 40LYE329   |
| <b>Eff. date</b>    | 07-10-2024 |
| <b>CD Diagram</b>   | CD0005     |
| <b>Poles</b>        | 06         |
| <b>Leads</b>        | 9#8        |
| <b>Proprietary</b>  | False      |
| <b>Created date</b> | 10-21-2013 |

|                                      |                                 |
|--------------------------------------|---------------------------------|
| <b>KVA Code</b>                      | <b>H</b>                        |
| <b>Lifting Lugs</b>                  | <b>Standard Lifting Lugs</b>    |
| <b>Locked Bearing Indicator</b>      | <b>No Locked Bearing</b>        |
| <b>Motor Lead Exit</b>               | <b>Ko Box</b>                   |
| <b>Motor Lead Quantity/Wire Size</b> | <b>9 @ 8 AWG</b>                |
| <b>Motor Lead Termination</b>        | <b>Flying Leads</b>             |
| <b>Motor Standards</b>               | <b>NEMA</b>                     |
| <b>Motor Type</b>                    | <b>4084M</b>                    |
| <b>Mounting Arrangement</b>          | <b>F1</b>                       |
| <b>Number of Poles</b>               | <b>6</b>                        |
| <b>Overall Length</b>                | <b>28.69 IN</b>                 |
| <b>Power Factor</b>                  | <b>79</b>                       |
| <b>Product Family</b>                | <b>General Purpose</b>          |
| <b>Pulley End Bearing Type</b>       | <b>Ball</b>                     |
| <b>Pulley Face Code</b>              | <b>Standard</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>2.125 IN</b>                 |
| <b>Shaft Extension Location</b>      | <b>Pulley End</b>               |
| <b>Shaft Ground Indicator</b>        | <b>Mounting Provisions Only</b> |
| <b>Shaft Rotation</b>                | <b>Reversible</b>               |
| <b>Shaft Slinger Indicator</b>       | <b>No Slinger</b>               |
| <b>Speed</b>                         | <b>1180 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>      |

**Nameplate**

| NP2094E06B03        |              |               |                       |             |   |           |     |  |  |
|---------------------|--------------|---------------|-----------------------|-------------|---|-----------|-----|--|--|
| <b>CAT.NO.</b>      | EHM2536T     |               |                       |             |   |           |     |  |  |
| <b>SPEC.</b>        | 40E329X122G1 |               |                       |             |   |           |     |  |  |
| <b>HP</b>           | 30           |               |                       |             |   |           |     |  |  |
| <b>VOLTS</b>        | 230/460      |               |                       |             |   |           |     |  |  |
| <b>AMPS</b>         | 78/39        |               |                       |             |   |           |     |  |  |
| <b>RPM</b>          | 1180         |               |                       |             |   |           |     |  |  |
| <b>FRAME</b>        | 326T         |               | <b>HZ</b>             | 60          |   | <b>PH</b> | 3   |  |  |
| <b>SER.F.</b>       | 1.15         | <b>CODE</b>   | H                     | <b>DES</b>  | A | <b>CL</b> | F   |  |  |
| <b>NEMA-NOM-EFF</b> | 93.6         |               | <b>PF</b>             | 77          |   |           |     |  |  |
| <b>RATING</b>       | 40C AMB-CONT |               |                       |             |   |           |     |  |  |
| <b>CC</b>           | 010A         |               | <b>USABLE AT 208V</b> |             |   |           | N/A |  |  |
| <b>DE</b>           | 6312         |               | <b>ODE</b>            | 6309        |   |           |     |  |  |
| <b>AUTO</b>         |              | <b>MANUAL</b> |                       | <b>NONE</b> |   |           |     |  |  |
| <b>ENCL</b>         | OPSB         | <b>SN</b>     |                       |             |   |           |     |  |  |
| <b>BLANK</b>        |              |               |                       |             |   |           |     |  |  |

**AC Induction Motor Performance Data**

Record # 66226

Typical performance - not guaranteed values

| Winding: 40WGX122-R001 |  |              |  | Type: 4084M                              |  | Enclosure: OPSB |  |
|------------------------|--|--------------|--|------------------------------------------|--|-----------------|--|
| Nameplate Data         |  |              |  | 460 V, 60 Hz:<br>High Voltage Connection |  |                 |  |
| Rated Output (HP)      |  | 30           |  | Full Load Torque                         |  | 133.3 LB-FT     |  |
| Volts                  |  | 230/460      |  | Start Configuration                      |  | direct on line  |  |
| Full Load Amps         |  | 78/39        |  | Breakdown Torque                         |  | 417 LB-FT       |  |
| R.P.M.                 |  | 1180         |  | Pull-up Torque                           |  | 187 LB-FT       |  |
| Hz                     |  | 60           |  | Phase                                    |  | 3               |  |
| NEMA Design Code       |  | A            |  | KVA Code                                 |  | H               |  |
| Service Factor (S.F.)  |  | 1.15         |  | No-load Current                          |  | 18.1 A          |  |
| NEMA Nom. Eff.         |  | 93.6         |  | Power Factor                             |  | 77              |  |
| Rating - Duty          |  | 40C AMB-CONT |  | Temp. Rise @ Rated Load                  |  | 40°C            |  |
| S.F. Amps              |  |              |  | Temp. Rise @ S.F. Load                   |  | 49°C            |  |
|                        |  |              |  | Locked-rotor Power Factor                |  | 28.6            |  |

**Load Characteristics 460 V, 60 Hz, 30 HP**

| % of Rated Load | 25     | 50     | 75     | 100    | 125    | 150    | S.F. |
|-----------------|--------|--------|--------|--------|--------|--------|------|
| Power Factor    | 39     | 60     | 72     | 77     | 80     | 81     | 79   |
| Efficiency      | 89.6   | 93.2   | 93.8   | 93.6   | 92.9   | 92.1   | 93.2 |
| Speed           | 1196.1 | 1192.3 | 1188.4 | 1184.2 | 1179.4 | 1174.2 | 1181 |
| Line amperes    | 20.2   | 25     | 31.5   | 39     | 47.4   | 56.7   | 44   |

ABB Motors and Mechanical Inc.

WINDING # 40WGX122

Typical performance - not guaranteed values.

30 HP 3 PH 60 HZ 1180 RPM 460 V 4084M

TORQUES (LB-FT): PO=417 PU=187 LR=233 LRA=267





