

# ABB BALDOR RELIANCE III

---

## Customer information packet

### EHM2333T

15HP, 1765RPM, 3PH, 60HZ, 254T, 0944M, TEFC, F1

Class - None

Division - Not Applicable

**Specifications**

|                                       |                                                                |
|---------------------------------------|----------------------------------------------------------------|
| <b>Enclosure</b>                      | TEFC                                                           |
| <b>Frame</b>                          | 254T                                                           |
| <b>Frame Material</b>                 | Iron                                                           |
| <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>             | 15.000 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>NEMA PREMIUM<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 @ 208.0 V<br>36.200 A @ 230.0 V<br>18.100 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>         | 92.4 %                                                         |
| <b>Electrically Isolated Bearing</b>  | Not Electrically Isolated                                      |
| <b>Feedback Device</b>                | NO FEEDBACK                                                    |
| <b>Front Shaft Indicator</b>          | None                                                           |

**Part Detail**

|                     |            |
|---------------------|------------|
| <b>Revision</b>     | J          |
| <b>Type</b>         | AC         |
| <b>Mech. spec.</b>  | 09J970     |
| <b>Base</b>         |            |
| <b>Status</b>       | PRD/A      |
| <b>Elec. spec.</b>  | 09WGT597   |
| <b>Layout</b>       | 09LYJ970   |
| <b>Eff. date</b>    | 07-10-2024 |
| <b>CD Diagram</b>   | CD0005     |
| <b>Poles</b>        | 04         |
| <b>Leads</b>        | 9#12       |
| <b>Proprietary</b>  | False      |
| <b>Created date</b> | 02-02-2021 |

|                                      |                          |
|--------------------------------------|--------------------------|
| <b>Heater Indicator</b>              | No Heater                |
| <b>High Voltage Full Load Amps</b>   | 18.1 a                   |
| <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 Quantity/Wire Size</b> | 9 @ 12 AWG               |
| <b>Motor Lead Termination</b>        | Flying Leads             |
| <b>Motor Standards</b>               | NEMA                     |
| <b>Motor Type</b>                    | 0944M                    |
| <b>Mounting Arrangement</b>          | F1                       |
| <b>Number of Poles</b>               | 4                        |
| <b>Overall Length</b>                | 23.30 IN                 |
| <b>Power Factor</b>                  | 84                       |
| <b>Product Family</b>                | General Purpose          |
| <b>Pulley End Bearing Type</b>       | Ball                     |
| <b>Pulley Face Code</b>              | Standard                 |
| <b>Pulley Shaft Indicator</b>        | Standard                 |
| <b>Rodent Screen</b>                 | None                     |
| <b>Service Factor</b>                | 1.15                     |
| <b>Shaft Diameter</b>                | 1.625 IN                 |
| <b>Shaft Ground Indicator</b>        | Mounting Provisions Only |
| <b>Shaft Rotation</b>                | Reversible               |
| <b>Shaft Slinger Indicator</b>       | No Slinger               |
| <b>Speed</b>                         | 1765 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

| NP1259L      |              |      |     |      |   |    |    |   |  |
|--------------|--------------|------|-----|------|---|----|----|---|--|
| CAT.NO.      | EHM2333T     |      |     |      |   |    |    |   |  |
| SPEC.        | 09J970T597G1 |      |     |      |   |    |    |   |  |
| HP           | 15           |      |     |      |   |    |    |   |  |
| VOLTS        | 230/460      |      |     |      |   |    |    |   |  |
| AMP          | 36.2/18.1    |      |     |      |   |    |    |   |  |
| RPM          | 1765         |      |     |      |   |    |    |   |  |
| FRAME        | 254T         |      | HZ  | 60   |   |    | PH | 3 |  |
| SER.F.       | 1.15         | CODE | H   | DES  | A | CL | F  |   |  |
| NEMA-NOM-EFF | 92.4         | PF   | 84  |      |   |    |    |   |  |
| RATING       | 40C AMB-CONT |      |     |      |   |    |    |   |  |
| CC           | 010A         |      |     |      |   |    |    |   |  |
| DE           | 6309         |      | ODE | 6208 |   |    |    |   |  |
| ENCL         | TEFC         | SN   |     |      |   |    |    |   |  |
|              | SFA 41/20.4  |      |     |      |   |    |    |   |  |

**AC Induction Motor Performance Data**

Record # 93306

Typical performance - not guaranteed values

| Winding: 09WGT597-R001 |    |              | Type: 0944M  |                                          | Enclosure: TEFC |                |
|------------------------|----|--------------|--------------|------------------------------------------|-----------------|----------------|
| Nameplate Data         |    |              |              | 460 V, 60 Hz:<br>High Voltage Connection |                 |                |
| Rated Output (HP)      |    | 15           |              | Full Load Torque                         |                 | 44.59 LB-FT    |
| Volts                  |    | 230/460      |              | Start Configuration                      |                 | direct on line |
| Full Load Amps         |    | 36.2/18.1    |              | Breakdown Torque                         |                 | 151 LB-FT      |
| R.P.M.                 |    | 1765         |              | Pull-up Torque                           |                 | 76.5 LB-FT     |
| Hz                     | 60 | Phase        | 3            | Locked-rotor Torque                      |                 | 84.9 LB-FT     |
| NEMA Design Code       |    | A            | KVA Code     | Starting Current                         |                 | 131 A          |
| Service Factor (S.F.)  |    | 1.15         |              | No-load Current                          |                 | 7.72 A         |
| NEMA Nom. Eff.         |    | 92.4         | Power Factor | Line-line Res. @ 25°C                    |                 | 0.61892 Ω      |
| Rating - Duty          |    | 40C AMB-CONT |              | Temp. Rise @ Rated Load                  |                 | 50°C           |
| S.F. Amps              |    | 41/20.4      |              | Temp. Rise @ S.F. Load                   |                 | 61°C           |
|                        |    |              |              | Locked-rotor Power Factor                |                 | 33.3           |

**Load Characteristics 460 V, 60 Hz, 15 HP**

| % of Rated Load | 25     | 50     | 75   | 100    | 125    | 150    | S.F. |
|-----------------|--------|--------|------|--------|--------|--------|------|
| Power Factor    | 46     | 68     | 78   | 83     | 85     | 86     | 84   |
| Efficiency      | 87.5   | 91.8   | 92.6 | 92.4   | 91.8   | 90.8   | 92   |
| Speed           | 1791.8 | 1784.7 | 1777 | 1768.8 | 1759.2 | 1749.3 | 1763 |
| Line amperes    | 8.82   | 11.3   | 14.6 | 18.3   | 22.4   | 26.9   | 20.8 |

ABB Motors and Mechanical Inc.

WINDING # 09WGT597

Typical performance - not guaranteed values.

15 HP 3 PH 60 HZ 1765 RPM 460 V 0944M

TORQUES (LB-FT): PO=151 PU=76.5 LR=84.9 LRA=131





