

# ABB BALDOR RELIANCE III

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## Customer information packet

### EJPM4107T

44M 2P TEFC HOR 284JP SE

Class - None

Division - Not Applicable

**Specifications**

|                                       |                                                                |
|---------------------------------------|----------------------------------------------------------------|
| <b>Enclosure</b>                      | TEFC                                                           |
| <b>Frame</b>                          | 284JP                                                          |
| <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>             | 25.000 HP @ 60 HZ                                              |
| <b>Phase</b>                          | 3                                                              |
| <b>Synchronous Speed @ Frequency</b>  | 3600 RPM @ 60 HZ                                               |
| <b>Voltage @ Frequency</b>            | 230.0 V @ 60 HZ<br>460.0 V @ 60 HZ                             |
| <b>Agency Approvals</b>               | CSA EEV<br>UR<br>CSA                                           |
| <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>              | 29.000 A @ 460.0 V<br>58.000 A @ 230.0 V<br>62.000 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>         | 91.7 %                                                         |
| <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                                                      |

**Part Detail**

|                     |            |
|---------------------|------------|
| <b>Revision</b>     | L          |
| <b>Type</b>         | AC         |
| <b>Mech. spec.</b>  | 09F825     |
| <b>Base</b>         |            |
| <b>Status</b>       | PRD/A      |
| <b>Elec. spec.</b>  | 09WGT577   |
| <b>Layout</b>       | 09LYF825   |
| <b>Eff. date</b>    | 06-27-2024 |
| <b>CD Diagram</b>   | CD0005     |
| <b>Poles</b>        | 02         |
| <b>Leads</b>        | 9#10       |
| <b>Proprietary</b>  | False      |
| <b>Created date</b> | 09-29-2018 |

|                               |                       |
|-------------------------------|-----------------------|
| High Voltage Full Load Amps   | 29.0 a                |
| Insulation Class              | F                     |
| Inverter Code                 | Inverter Ready        |
| KVA Code                      | J                     |
| Lifting Lugs                  | Standard Lifting Lugs |
| Locked Bearing Indicator      | Locked Bearing        |
| Motor Lead Quantity/Wire Size | 9 @ 10 AWG            |
| Motor Lead Termination        | Flying Leads          |
| Motor Standards               | NEMA                  |
| Motor Type                    | 0944M                 |
| Mounting Arrangement          | F1                    |
| Number of Poles               | 2                     |
| Overall Length                | 29.84 IN              |
| Power Factor                  | 88                    |
| Product Family                | General Purpose       |
| Pulley End Bearing Type       | Ball                  |
| Pulley Face Code              | C-Face                |
| Pulley Shaft Indicator        | Tapped & Key          |
| Rodent Screen                 | None                  |
| Service Factor                | 1.15                  |
| Shaft Diameter                | 1.750 IN              |
| Shaft Ground Indicator        | No Shaft Grounding    |
| Shaft Rotation                | Reversible            |
| Shaft Slinger Indicator       | Shaft Slinger         |
| Speed                         | 3520 rpm              |
| Speed Code                    | Single Speed          |
| Starting Method               | Direct on line        |
| Thermal Device - Winding      | None                  |
| Vibration Sensor Indicator    | No Vibration Sensor   |
| Winding Thermal 1             | None                  |
| Winding Thermal 2             | None                  |

**Nameplate**

| NP3443LUA |                           |                         |                |                           |       |         |        |      |            |      |  |      |
|-----------|---------------------------|-------------------------|----------------|---------------------------|-------|---------|--------|------|------------|------|--|------|
| CAT.NO.   | EJPM4107T                 |                         |                | CUST. P/N                 |       |         |        | ENCL |            |      |  | TEFC |
| SPEC.     | 09F825T577G1              | CC                      | 010A           | FRAME                     | 284JP | SER.NO. |        |      |            |      |  |      |
| HP        | 25                        |                         | CLASS          | F                         | HZ    | 60      |        |      |            |      |  |      |
| R.P.M.    | 3520                      |                         | PH.            | 3                         | DES.  | A       |        |      |            |      |  |      |
| VOLTS     | 230/460                   |                         | CODE           |                           | J     | ODE BRG |        | 6208 | DE BRG     | 6312 |  |      |
| AMPS      | 58/29                     |                         |                |                           |       |         |        |      |            |      |  |      |
| RATING    | 40C AMB-CONT              |                         | NEMA NOM. EFF. |                           |       | 91.7    | GREASE |      | POLYREX EM |      |  |      |
| P.F.      | 88                        | SER.F.                  | 1.15           | CT6-60H(10:1)VT3-60H(20:1 |       |         |        |      |            |      |  |      |
| USABLE AT | 50HZ 20HP 190/380V 56/28A |                         |                | SF1.0                     |       |         |        |      |            |      |  |      |
| VOLTS     | AMPS                      | MAX. SPACE HEATER TEMP. |                |                           |       |         |        |      |            |      |  |      |

**AC Induction Motor Performance Data**

Record # 72672

Typical performance - not guaranteed values

| Winding: 09WGT577-R001 |  |              | Type: 0944M  |                                          | Enclosure: TEFC     |                       |          |          |
|------------------------|--|--------------|--------------|------------------------------------------|---------------------|-----------------------|----------|----------|
| Nameplate Data         |  |              |              | 460 V, 60 Hz:<br>High Voltage Connection |                     |                       |          |          |
| Rated Output (HP)      |  | 25           |              | Full Load Torque                         |                     | 37.39 LB-FT           |          |          |
| Volts                  |  | 230/460      |              | Start Configuration                      |                     | direct on line        |          |          |
| Full Load Amps         |  | 58/29        |              | Breakdown Torque                         |                     | 153 LB-FT             |          |          |
| R.P.M.                 |  | 3520         |              | Pull-up Torque                           |                     | 58.5 LB-FT            |          |          |
| Hz                     |  | 60           | Phase        | 3                                        | Locked-rotor Torque |                       | 75 LB-FT |          |
| NEMA Design Code       |  | A            | KVA Code     |                                          | J                   | Starting Current      |          | 223 A    |
| Service Factor (S.F.)  |  | 1.15         |              | No-load Current                          |                     | 10.1 A                |          |          |
| NEMA Nom. Eff.         |  | 91.7         | Power Factor |                                          | 88                  | Line-line Res. @ 25°C |          | 0.3381 Ω |
| Rating - Duty          |  | 40C AMB-CONT |              | Temp. Rise @ Rated Load                  |                     | 74°C                  |          |          |
| S.F. Amps              |  |              |              | Temp. Rise @ S.F. Load                   |                     | 91°C                  |          |          |
|                        |  |              |              | Locked-rotor Power Factor                |                     | 29.7                  |          |          |

**Load Characteristics 460 V, 60 Hz, 25 HP**

| % of Rated Load | 25     | 50     | 75     | 100  | 125    | 150    | S.F. |
|-----------------|--------|--------|--------|------|--------|--------|------|
| Power Factor    | 55     | 76     | 84     | 88   | 89     | 90     | 89   |
| Efficiency      | 87.6   | 91.6   | 92.2   | 91.8 | 90.9   | 89.8   | 91.3 |
| Speed           | 3580.5 | 3562.7 | 3544.2 | 3524 | 3501.4 | 3477.9 | 3510 |
| Line amperes    | 12.3   | 16.9   | 22.7   | 29.1 | 36.1   | 43.5   | 33.3 |

ABB Motors and Mechanical Inc.

WINDING # 09WGT577

Typical performance - not guaranteed values.

25 HP 3 PH 60 HZ 3520 RPM 460 V 0944M

TORQUES (LB-FT): PO=153 PU=58.5 LR=75 LRA=223





