

# ABB BALDOR RELIANCE III

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## Customer information packet

JMEWDM3711T

10HP, 3450RPM, 3PH, 60HZ, 215JM, 3736M, TEFC, F

Class - None

Division - Not Applicable

**Specifications**

|                                |                                                                |
|--------------------------------|----------------------------------------------------------------|
| Enclosure                      | TEFC                                                           |
| Frame                          | 215JM                                                          |
| Frame Material                 | Steel                                                          |
| Frequency                      | 60.00 Hz                                                       |
| Haz Area Class and Group       | None                                                           |
| Haz Area Division              | Not Applicable                                                 |
| Motor Letter Type              | Three Phase                                                    |
| Output @ Frequency             | 10.000 HP @ 60 HZ                                              |
| Phase                          | 3                                                              |
| Synchronous Speed @ Frequency  | 3600 RPM @ 60 HZ                                               |
| Voltage @ Frequency            | 208.0 V @ 60 HZ<br>230.0 V @ 60 HZ<br>460.0 V @ 60 HZ          |
| Agency Approvals               | UR<br>CSA<br>CSA EEV                                           |
| Ambient Temperature            | 40 °C                                                          |
| Auxiliary Box                  | NO AUXILLARY BOX                                               |
| Auxiliary Box Lead Termination | None                                                           |
| Base Indicator                 | Rigid                                                          |
| Bearing Grease Type            | Polyrex EM (-20F +300F)                                        |
| Blower                         | None                                                           |
| Current @ Voltage              | 24.000 A @ 208.0 V<br>21.600 A @ 230.0 V<br>10.800 A @ 460.0 V |
| Design Code                    | B                                                              |
| Drip Cover                     | No Drip Cover                                                  |
| Duty Rating                    | CONT                                                           |
| Efficiency @ 100% Load         | 90.2 %                                                         |
| Electrically Isolated Bearing  | Not Electrically Isolated                                      |
| Feedback Device                | NO FEEDBACK                                                    |
| Front Face Code                | Standard                                                       |

**Part Detail**

|              |            |
|--------------|------------|
| Revision     | Q          |
| Type         | AC         |
| Mech. spec.  | 37H883     |
| Base         |            |
| Status       | PRD/A      |
| Elec. spec.  | 37WGR697   |
| Layout       | 37LYH883   |
| Eff. date    | 02-14-2024 |
| CD Diagram   | CD0005     |
| Poles        | 02         |
| Leads        | 9#14       |
| Proprietary  | False      |
| Created date | 12-04-2014 |

|                               |                       |
|-------------------------------|-----------------------|
| Front Shaft Indicator         | None                  |
| Heater Indicator              | No Heater             |
| High Voltage Full Load Amps   | 10.8 a                |
| Insulation Class              | F                     |
| Inverter Code                 | Inverter Ready        |
| KVA Code                      | H                     |
| Lifting Lugs                  | Standard Lifting Lugs |
| Locked Bearing Indicator      | Locked Bearing        |
| Motor Lead Exit               | Ko Box                |
| Motor Lead Quantity/Wire Size | 9 @ 14 AWG            |
| Motor Lead Termination        | Flying Leads          |
| Motor Standards               | NEMA                  |
| Motor Type                    | 3736M                 |
| Mounting Arrangement          | F1                    |
| Number of Poles               | 2                     |
| Overall Length                | 20.91 IN              |
| Power Factor                  | 96                    |
| Product Family                | Wash Down             |
| Pulley End Bearing Type       | Sealed Bearing        |
| Pulley Face Code              | C-Face                |
| Pulley Shaft Indicator        | Tapped & Key          |
| Rodent Screen                 | None                  |
| Service Factor                | 1.15                  |
| Shaft Diameter                | 0.875 IN              |
| Shaft Extension Location      | Pulley End            |
| Shaft Ground Indicator        | No Shaft Grounding    |
| Shaft Rotation                | Reversible            |
| Shaft Slinger Indicator       | Shaft Slinger         |
| Speed                         | 3450 rpm              |
| Speed Code                    | Single Speed          |
| Starting Method               | Direct on line        |
| Thermal Device - Bearing      | None                  |
| Thermal Device - Winding      | None                  |
| Vibration Sensor Indicator    | No Vibration Sensor   |

|                   |      |
|-------------------|------|
| Winding Thermal 1 | None |
| Winding Thermal 2 | None |

**Nameplate**

| NP1669L      |                        |      |     |      |   |       |    |   |  |
|--------------|------------------------|------|-----|------|---|-------|----|---|--|
| CAT.NO.      | JMEWDM3711T            |      |     |      |   |       |    |   |  |
| SPEC.        | 37H883R697G1           |      |     |      |   |       |    |   |  |
| HP           | 10                     |      |     |      |   |       |    |   |  |
| VOLTS        | 230/460                |      |     |      |   |       |    |   |  |
| AMP          | 21.6/10.8              |      |     |      |   |       |    |   |  |
| RPM          | 3450                   |      |     |      |   |       |    |   |  |
| FRAME        | 215JM                  |      | HZ  | 60   |   |       | PH | 3 |  |
| SER.F.       | 1.15                   | CODE | H   | DES  | B | CLASS |    | F |  |
| NEMA-NOM-EFF | 90.2                   | PF   | 96  |      |   |       |    |   |  |
| RATING       | 40C AMB-CONT           |      |     |      |   |       |    |   |  |
| CC           | 010A                   |      |     |      |   |       |    |   |  |
| DE           | 6309                   |      | ODE | 6206 |   |       |    |   |  |
| ENCL         | TEFC                   | SN   |     |      |   |       |    |   |  |
| BLANK        | 20:1CT, 20:1VT, 1.00SF |      |     |      |   |       |    |   |  |

**AC Induction Motor Performance Data**

Record # 48426

Typical performance - not guaranteed values

| Winding: 37WGR697-R001 |    |           | Type: 3736M                              |                     | Enclosure: TEFC         |                  |        |
|------------------------|----|-----------|------------------------------------------|---------------------|-------------------------|------------------|--------|
| Nameplate Data         |    |           | 460 V, 60 Hz:<br>High Voltage Connection |                     |                         |                  |        |
| Rated Output (HP)      |    | 10        | Full Load Torque                         |                     | 15.1 LB-FT              |                  |        |
| Volts                  |    | 230/460   | Start Configuration                      |                     | direct on line          |                  |        |
| Full Load Amps         |    | 21.6/10.8 | Breakdown Torque                         |                     | 58.2 LB-FT              |                  |        |
| R.P.M.                 |    | 3450      | Pull-up Torque                           |                     | 24.1 LB-FT              |                  |        |
| Hz                     | 60 | Phase     | 3                                        | Locked-rotor Torque |                         | 33.7 LB-FT       |        |
| NEMA Design Code       |    | B         | KVA Code                                 | H                   |                         | Starting Current | 81.7 A |
| Service Factor (S.F.)  |    | 1.15      | No-load Current                          |                     | 2.59 A                  |                  |        |
| NEMA Nom. Eff.         |    | 90.2      | Power Factor                             | 96                  | Line-line Res. @ 25°C   |                  | 1.03 Ω |
| Rating - Duty          |    | 40C       | AMB-CONT                                 |                     | Temp. Rise @ Rated Load |                  | 59°C   |
| S.F. Amps              |    |           | Temp. Rise @ S.F. Load                   |                     | 74°C                    |                  |        |
|                        |    |           | Locked-rotor Power Factor                |                     | 32.3                    |                  |        |
|                        |    |           | Rotor inertia                            |                     | 0.329 lb-ft²            |                  |        |

**Load Characteristics 460 V, 60 Hz, 10 HP**

| % of Rated Load | 25   | 50   | 75   | 100  | 125  | 150  | S.F. |
|-----------------|------|------|------|------|------|------|------|
| Power Factor    | 74   | 91   | 94   | 96   | 96   | 94   | 96   |
| Efficiency      | 87   | 91   | 91.3 | 90.6 | 89.9 | 88.3 | 90.2 |
| Speed           | 3569 | 3542 | 3512 | 3480 | 3447 | 3408 | 3460 |
| Line amperes    | 3.73 | 5.77 | 8.25 | 10.8 | 13.5 | 16.8 | 12.4 |

ABB Motors and Mechanical Inc.

WINDING # 37WGR697

Typical performance - not guaranteed values.

10 HP 3 PH 60 HZ 3450 RPM 460 V 3736M

TORQUES (LB-FT) : PO=58.2 PU=24.1 LR=33.7 LRA=81.7







