

# ABB BALDOR RELIANCE III

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## Customer information packet

JMXM18322T

3//2HP, 3450//2890RPM, 3PH, 60//50HZ, 182JM

Class - CLI GP D; CLII GP F,G

Division - Division I

**Specifications**

|                                       |                                                                                  |
|---------------------------------------|----------------------------------------------------------------------------------|
| <b>Enclosure</b>                      | XPFC                                                                             |
| <b>Frame</b>                          | 182JM                                                                            |
| <b>Frame Material</b>                 | Steel                                                                            |
| <b>Frequency</b>                      | 50.00 Hz<br>60.00 Hz                                                             |
| <b>Haz Area Class and Group</b>       | CLI GP D; CLII GP F,G                                                            |
| <b>Haz Area Division</b>              | Division I                                                                       |
| <b>Motor Letter Type</b>              | Three Phase                                                                      |
| <b>Output @ Frequency</b>             | 3.000 HP @ 60 HZ<br>2.000 HP @ 50 HZ                                             |
| <b>Phase</b>                          | 3                                                                                |
| <b>Synchronous Speed @ Frequency</b>  | 3600 RPM @ 60 HZ                                                                 |
| <b>Voltage @ Frequency</b>            | 460.0 V @ 60 HZ<br>190.0 V @ 50 HZ<br>230.0 V @ 60 HZ<br>380.0 V @ 50 HZ         |
| <b>Agency Approvals</b>               | UL<br>CSA EEV                                                                    |
| <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>Constant Torque Speed Range</b>    | 6                                                                                |
| <b>Current @ Voltage</b>              | 3.000 A @ 380.0 V<br>3.700 A @ 460.0 V<br>6.000 A @ 190.0 V<br>7.400 A @ 230.0 V |
| <b>Design Code</b>                    | B                                                                                |
| <b>Drip Cover</b>                     | No Drip Cover                                                                    |
| <b>Duty Rating</b>                    | CONT                                                                             |

**Part Detail**

|                     |              |
|---------------------|--------------|
| <b>Revision</b>     | A            |
| <b>Type</b>         | AC           |
| <b>Mech. spec.</b>  |              |
| <b>Base</b>         |              |
| <b>Status</b>       | PRD/A        |
| <b>Elec. spec.</b>  | 36WGS041     |
| <b>Layout</b>       | 36LY-000-214 |
| <b>Eff. date</b>    | 03-30-2021   |
| <b>CD Diagram</b>   | CD0005       |
| <b>Poles</b>        | 02           |
| <b>Leads</b>        | 9#16         |
| <b>Proprietary</b>  | False        |
| <b>Created date</b> | 03-15-2021   |

|                               |                            |
|-------------------------------|----------------------------|
| Efficiency @ 100% Load        | 86.5 %                     |
| Electrically Isolated Bearing | Not Electrically Isolated  |
| Feedback Device               | NO FEEDBACK                |
| Haz Area Temp Code            | T3C                        |
| Heater Indicator              | No Heater                  |
| High Voltage Full Load Amps   | 3.0 a                      |
| Insulation Class              | F                          |
| Inverter Code                 | Inverter Duty              |
| IP Rating                     | NONE                       |
| KVA Code                      | K                          |
| Lifting Lugs                  | No Lifting Lugs            |
| Locked Bearing Indicator      | Locked Bearing             |
| Max Speed                     | 5400 rpm                   |
| Motor Lead Termination        | Flying Leads               |
| Motor Standards               | NEMA                       |
| Motor Type                    | 3622M                      |
| Mounting Arrangement          | F1                         |
| Number of Poles               | 2                          |
| Overall Length                | 18.98 IN                   |
| Power Factor                  | 91                         |
| Product Family                | General Purpose            |
| Pulley Face Code              | C-Face                     |
| Rodent Screen                 | None                       |
| Service Factor                | 1.00                       |
| Shaft Diameter                | 0.875 IN                   |
| Shaft Ground Indicator        | No Shaft Grounding         |
| Shaft Rotation                | Reversible                 |
| Speed                         | 3450 rpm                   |
| Speed Code                    | Single Speed               |
| Starting Method               | Direct on line             |
| Thermal Device - Bearing      | None                       |
| Thermal Device - Winding      | Normally Closed Thermostat |
| Vibration Sensor Indicator    | No Vibration Sensor        |
| Winding Thermal 1             | None                       |

Winding Thermal 2

None

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**Nameplate**

| NP0887XPSLEV |                        |        |   |              |         |          |            |      |     |          |  |    |
|--------------|------------------------|--------|---|--------------|---------|----------|------------|------|-----|----------|--|----|
| NO.          |                        |        |   |              |         |          | CC         | 010A |     |          |  |    |
| S/N          |                        |        |   |              |         |          | TEMP CODE  |      | T3C |          |  |    |
| SPEC.        | 36-0000-0482           |        |   |              |         |          | INV.TYPE   |      | PWM |          |  |    |
| CAT.NO.      | JMXM18322T             |        |   |              |         |          | C HP FR    |      | 60  | C HP TO  |  | 90 |
| HP           | 3//2                   |        |   |              |         |          | CT HZ FROM |      | 6   | CT HZ TO |  | 60 |
| VOLTS        | 230/460//190/380       |        |   |              |         |          | VT HZ FROM |      | 6   | VT HZ TO |  | 60 |
| AMPS         | 7.4/3.7//6/3           |        |   |              | MAG CUR |          | 2.4/1.2    |      |     |          |  |    |
| RPM          | 3450//2890             |        |   |              | MX RPM  |          | 5400       |      |     |          |  |    |
| HZ           | 60//50                 | PH     | 3 | CL           | F       | NOM.EFF. |            | 86.5 |     |          |  |    |
| SER.F.       | 1.00                   | DES    | B | SL HZ        |         | 2.5      | WK2        | 0.1  |     |          |  |    |
| FRAME        | 182JM                  | RATING |   | 40C AMB-CONT |         |          |            |      |     |          |  |    |
|              | NEMA MG-1 PART 5, IP54 |        |   |              |         |          |            |      |     |          |  |    |
|              | 1.15 SF ON SINE WAVE   |        |   |              |         |          |            |      |     |          |  |    |

**AC Induction Motor Performance Data**

Record # 73670

Typical performance - not guaranteed values

| Winding: 36WGS041-R041 |                   | Type: 3622M                              | Enclosure: XPFC |
|------------------------|-------------------|------------------------------------------|-----------------|
| Nameplate Data         |                   | 460 V, 60 Hz:<br>High Voltage Connection |                 |
| Rated Output (HP)      | 3//2              | Full Load Torque                         | 4.7 LB-FT       |
| Volts                  | 230/460//190/380  | Start Configuration                      | direct on line  |
| Full Load Amps         | 7.4/3.7//6/3      | Breakdown Torque                         | 19.7 LB-FT      |
| R.P.M.                 | 3450//2890        | Pull-up Torque                           | 12 LB-FT        |
| Hz                     | 60//50 Phase      | Locked-rotor Torque                      | 14.1 LB-FT      |
| NEMA Design Code       | A KVA Code        | Starting Current                         | 33.3 A          |
| Service Factor (S.F.)  | 1                 | No-load Current                          | 1.17 A          |
| NEMA Nom. Eff.         | 86.5 Power Factor | Line-line Res. @ 25°C                    | 4.71 Ω          |
| Rating - Duty          | 40C AMB-CONT      | Temp. Rise @ Rated Load                  | 52°C            |
|                        |                   | Locked-rotor Power Factor                | 48.4            |
|                        |                   | Rotor inertia                            | 0.0984 LB-FT2   |

**Load Characteristics 460 V, 60 Hz, 3 HP**

| % of Rated Load | 25   | 50   | 75   | 100  | 125  | 150  |
|-----------------|------|------|------|------|------|------|
| Power Factor    | 66   | 82   | 88   | 91   | 92   | 93   |
| Efficiency      | 80.3 | 86   | 87.3 | 86.9 | 86   | 84.5 |
| Speed           | 3565 | 3535 | 3504 | 3472 | 3434 | 3394 |
| Line amperes    | 1.56 | 2.17 | 2.93 | 3.67 | 4.57 | 5.5  |

ABB Motors and Mechanical Inc.

WINDING # 36WGS041

Typical performance - not guaranteed values.

3 HP 3 PH 60 HZ 3472 RPM 460 V 3622M

TORQUES (LB-FT): PO=19.7 PU=12 LR=14.1 LRA=33.3







