

# ABB BALDOR RELIANCE III

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## Customer information packet

### XL18322T

3HP, 3450RPM, 1PH, 60HZ, 184T, 3634L, XPFC, F1

Class - CLI GP D; CLII GP F,G

Division - Division I

**Specifications**

|                                |                                          |
|--------------------------------|------------------------------------------|
| Enclosure                      | XPFC                                     |
| Frame                          | 184T                                     |
| Frame Material                 | Steel                                    |
| Frequency                      | 60.00 Hz                                 |
| Haz Area Class and Group       | CLI GP D; CLII GP F,G                    |
| Haz Area Division              | Division I                               |
| Motor Letter Type              | Cap Start, Induction Run                 |
| Output @ Frequency             | 3.000 HP @ 60 HZ                         |
| Phase                          | 1                                        |
| Synchronous Speed @ Frequency  | 3600 RPM @ 60 HZ                         |
| Voltage @ Frequency            | 115.0 V @ 60 HZ<br>230.0 V @ 60 HZ       |
| Agency Approvals               | CSA<br>UL                                |
| 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              | 14.500 A @ 230.0 V<br>29.000 A @ 115.0 V |
| Design Code                    | L                                        |
| Drip Cover                     | No Drip Cover                            |
| Duty Rating                    | CONT                                     |
| Efficiency @ 100% Load         | 76.0 %                                   |
| Electrically Isolated Bearing  | Not Electrically Isolated                |
| Feedback Device                | NO FEEDBACK                              |
| Haz Area Temp Code             | T3C                                      |
| Heater Indicator               | No Heater                                |
| High Voltage Full Load Amps    | 14.5 a                                   |
| Insulation Class               | F                                        |

**Part Detail**

|              |                     |
|--------------|---------------------|
| Revision     | C                   |
| Type         | AC                  |
| Mech. spec.  |                     |
| Base         |                     |
| Status       | PRD/A               |
| Elec. spec.  | 36WGA0038           |
| Layout       | 36LYN003            |
| Eff. date    | 02-22-2024          |
| CD Diagram   | CD0001              |
| Poles        | 02/02               |
| Leads        | 4#14 A PH,2#16 B PH |
| Proprietary  | False               |
| Created date | 04-28-2021          |

|                                   |                            |
|-----------------------------------|----------------------------|
| <b>IP Rating</b>                  | NONE                       |
| <b>KVA Code</b>                   | G                          |
| <b>Lifting Lugs</b>               | No Lifting Lugs            |
| <b>Locked Bearing Indicator</b>   | No Locked Bearing          |
| <b>Motor Lead Termination</b>     | Flying Leads               |
| <b>Motor Standards</b>            | NEMA                       |
| <b>Motor Type</b>                 | 3634L                      |
| <b>Mounting Arrangement</b>       | F1                         |
| <b>Number of Poles</b>            | 2                          |
| <b>Overall Length</b>             | 17.42 IN                   |
| <b>Power Factor</b>               | 87                         |
| <b>Product Family</b>             | General Purpose            |
| <b>Pulley Face Code</b>           | Standard                   |
| <b>Rodent Screen</b>              | None                       |
| <b>Service Factor</b>             | 1.15                       |
| <b>Shaft Diameter</b>             | 1.125 IN                   |
| <b>Shaft Ground Indicator</b>     | No Shaft Grounding         |
| <b>Shaft Rotation</b>             | Reversible                 |
| <b>Speed</b>                      | 3450 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>   | Normally Closed Thermostat |
| <b>Vibration Sensor Indicator</b> | No Vibration Sensor        |
| <b>Winding Thermal 1</b>          | None                       |
| <b>Winding Thermal 2</b>          | None                       |

**Nameplate**

| NP1426XPSL |                        |    |              |     |    |      |   |    |  |
|------------|------------------------|----|--------------|-----|----|------|---|----|--|
| NO.        |                        | CC |              |     |    |      |   |    |  |
| SER.       |                        |    |              |     |    |      |   |    |  |
| SPEC.      | 36-0000-0518           |    |              |     |    |      |   |    |  |
| CAT.NO.    | XL18322T               |    |              |     |    |      |   |    |  |
| HP         | 3                      |    | T. CODE      | T3C |    |      |   |    |  |
| VOLTS      | 115/230                |    |              |     |    |      |   |    |  |
| AMPS       | 29/14.5                |    |              |     |    |      |   |    |  |
| RPM        | 3450                   |    |              |     |    |      |   |    |  |
| HZ         | 60                     |    | PH           | 1   | CL | F    |   |    |  |
| SER.F.     | 1.15                   |    | DES          | L   |    | CODE | G |    |  |
| RATING     | 40C AMB-CONT           |    |              |     |    |      |   |    |  |
| FRAME      | 184T                   |    | NEMA-NOM-EFF |     |    |      |   | 76 |  |
|            |                        | PF | 87           |     |    |      |   |    |  |
| BLANK      | NEMA MG-1 PART 5, IP54 |    |              |     |    |      |   |    |  |

**AC Induction Motor Performance Data**

Record # 88067

Typical performance - not guaranteed values

| Winding: 36WG0201     |    |           | Type: 3634L                             |                     | Enclosure: XPFC         |            |      |
|-----------------------|----|-----------|-----------------------------------------|---------------------|-------------------------|------------|------|
| Nameplate Data        |    |           | 115 V, 60 Hz:<br>Low Voltage Connection |                     |                         |            |      |
| Rated Output (HP)     |    | 3         | Full Load Torque                        |                     | 4.5 LB-FT               |            |      |
| Volts                 |    | 115/230   | Start Configuration                     |                     | Unknown                 |            |      |
| Full Load Amps        |    | 28.6/14.3 | Breakdown Torque                        |                     | 11.9 LB-FT              |            |      |
| R.P.M.                |    | 3450      | Pull-up Torque                          |                     | 6.08 LB-FT              |            |      |
| Hz                    | 60 | Phase     | 1                                       | Locked-rotor Torque |                         | 8.41 LB-FT |      |
| NEMA Design Code      |    | L         | KVA Code                                |                     | H                       |            |      |
| Service Factor (S.F.) |    | 1.15      | No-load Current                         |                     | 9.19 A                  |            |      |
| NEMA Nom. Eff.        |    | 76        | Power Factor                            |                     | 87                      |            |      |
| Rating - Duty         |    | 40C       | AMB-CONT                                |                     | Temp. Rise @ Rated Load |            | 63°C |
| S.F. Amps             |    | 33.2/16.6 | Temp. Rise @ S.F. Load                  |                     | 73°C                    |            |      |
|                       |    |           | Locked-rotor Power Factor               |                     | 76.3                    |            |      |
|                       |    |           | Rotor inertia                           |                     | 0.153 lb-ft²            |            |      |

**Load Characteristics 115 V, 60 Hz, 3 HP**

| % of Rated Load | 25   | 50   | 75   | 100  | 125  | 150  | S.F. |
|-----------------|------|------|------|------|------|------|------|
| Power Factor    | 62   | 79   | 87   | 90   | 91   | 91   | 91   |
| Efficiency      | 67.4 | 78.5 | 82   | 82.9 | 82.6 | 81.4 | 82.7 |
| Speed           | 3576 | 3556 | 3534 | 3509 | 3482 | 3451 | 3493 |
| Line amperes    | 11.6 | 15.6 | 20.6 | 26.2 | 32.4 | 39.3 | 29.9 |

ABB Motors and Mechanical Inc.

WINDING # 36WG0201

Typical performance - not guaranteed values.

3 HP 1 PH 60 HZ 3450 RPM 115 V 3634L

TORQUES (LB-FT): PO=11.9 PU=6.08 LR=8.41 LRA=134





