

# ABB BALDOR RELIANCE III

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## Customer information packet

### YPC144A

.25HP, 1625RPM, 1PH, 60HZ, 48YZ, 3408C, TEAO, F

Class - None

Division - Not Applicable

**Specifications**

|                                |                             |
|--------------------------------|-----------------------------|
| Enclosure                      | TEAO                        |
| Frame                          | 48YZ                        |
| Frame Material                 | Steel                       |
| Frequency                      | 60.00 Hz                    |
| Haz Area Class and Group       | None                        |
| Haz Area Division              | Not Applicable              |
| Motor Letter Type              | Oil Capacitor Start and Run |
| Output @ Frequency             | .250 HP @ 60 HZ             |
| Phase                          | 1                           |
| Synchronous Speed @ Frequency  | 1800 RPM @ 60 HZ            |
| Voltage @ Frequency            | 115.0 V @ 60 HZ             |
| Agency Approvals               | CSA<br>UR                   |
| Ambient Temperature            | 40 °C                       |
| Auxiliary Box                  | NO AUXILLARY BOX            |
| Auxiliary Box Lead Termination | None                        |
| Base Indicator                 | Yoke Pedestal               |
| Bearing Grease Type            | Polyrex EM (-20F +300F)     |
| Blower                         | None                        |
| Current @ Voltage              | 2.500 A @ 115.0 V           |
| Drip Cover                     | No Drip Cover               |
| Duty Rating                    | CONT                        |
| Efficiency @ 100% Load         | 67.0 %                      |
| Electrically Isolated Bearing  | Not Electrically Isolated   |
| Feedback Device                | NO FEEDBACK                 |
| Front Face Code                | Terminal Panel              |
| Front Shaft Indicator          | None                        |
| Heater Indicator               | No Heater                   |
| High Voltage Full Load Amps    | 2.5 a                       |
| Insulation Class               | B                           |
| Inverter Code                  | Not Inverter                |
| KVA Code                       | -                           |

**Part Detail**

|              |            |
|--------------|------------|
| Revision     | H          |
| Type         | AC         |
| Mech. spec.  | 34M195     |
| Base         |            |
| Status       | PRD/A      |
| Elec. spec.  | 34WGR234   |
| Layout       | 34LYM195   |
| Eff. date    | 10-28-2024 |
| CD Diagram   | CD0798     |
| Poles        | 04         |
| Leads        | 5#18       |
| Proprietary  | False      |
| Created date | 10-17-2014 |

|                                      |                                |
|--------------------------------------|--------------------------------|
| <b>Lifting Lugs</b>                  | No Lifting Lugs                |
| <b>Locked Bearing Indicator</b>      | No Locked Bearing              |
| <b>Motor Lead Exit</b>               | Terminal Panel Or Lead Hole    |
| <b>Motor Lead Quantity/Wire Size</b> | 5 @ 18 AWG                     |
| <b>Motor Lead Termination</b>        | None                           |
| <b>Motor Standards</b>               | NEMA                           |
| <b>Motor Type</b>                    | 3408C                          |
| <b>Mounting Arrangement</b>          | F1                             |
| <b>Number of Poles</b>               | 4                              |
| <b>Overall Length</b>                | 10.68 IN                       |
| <b>Power Factor</b>                  | 98                             |
| <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>RoHS Status</b>                   | ROHS COMPLIANT                 |
| <b>Service Factor</b>                | 1.00                           |
| <b>Shaft Diameter</b>                | 0.500 IN                       |
| <b>Shaft Extension Location</b>      | Pulley End                     |
| <b>Shaft Ground Indicator</b>        | No Shaft Grounding             |
| <b>Shaft Rotation</b>                | Reversible: Connected Standard |
| <b>Shaft Slinger Indicator</b>       | Shaft Slinger                  |
| <b>Speed</b>                         | 1625 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>             | Automatic Thermal Overload     |
| <b>Winding Thermal 1 Location</b>    | WG                             |

**Nameplate**

| NP1257L      |              |      |      |     |   |    |   |  |  |
|--------------|--------------|------|------|-----|---|----|---|--|--|
| CAT.NO.      | YPC144A      |      |      |     |   |    |   |  |  |
| SPEC.        | 34M195R234G1 |      |      |     |   |    |   |  |  |
| HP           | .25          |      |      |     |   |    |   |  |  |
| VOLTS        | 115          |      |      |     |   |    |   |  |  |
| AMP          | 2.5          |      |      |     |   |    |   |  |  |
| RPM          | 1625         |      |      |     |   |    |   |  |  |
| FRAME        | 48YZ         |      | HZ   | 60  |   | PH | 1 |  |  |
| SER.F.       | 1.00         | CODE | -    | DES | - | CL | B |  |  |
| NEMA-NOM-EFF | 67           | PF   | 98   |     |   |    |   |  |  |
| RATING       | 40C AMB-CONT |      |      |     |   |    |   |  |  |
| CC           |              |      |      |     |   |    |   |  |  |
| DE           | 6203         | ODE  | 6203 |     |   |    |   |  |  |
| ENCL         | TEAO         | SN   |      |     |   |    |   |  |  |

**AC Induction Motor Performance Data**

Record # 51597

Typical performance - not guaranteed values

| Winding: 34WGR234-R001 |    |              | Type: 3408C  |                                       | Enclosure: TEAO       |                                |
|------------------------|----|--------------|--------------|---------------------------------------|-----------------------|--------------------------------|
| Nameplate Data         |    |              |              | 115 V, 60 Hz:<br>Single Voltage Motor |                       |                                |
| Rated Output (HP)      |    | .25          |              | Full Load Torque                      |                       | 0.814 LB-FT                    |
| Volts                  |    | 115          |              | Start Configuration                   |                       | direct on line                 |
| Full Load Amps         |    | 2.5          |              | Breakdown Torque                      |                       | 1.13 LB-FT                     |
| R.P.M.                 |    | 1625         |              | Pull-up Torque                        |                       | 0.321 LB-FT                    |
| Hz                     | 60 | Phase        | 1            | Locked-rotor Torque                   |                       | 0.42 LB-FT                     |
| NEMA Design Code       |    | - KVA Code   |              | Starting Current                      |                       | 6.76 A                         |
| Service Factor (S.F.)  |    | 1            |              | No-load Current                       |                       | 1.32 A                         |
| NEMA Nom. Eff.         |    | 67           | Power Factor | 98                                    | Line-line Res. @ 25°C |                                |
|                        |    |              |              |                                       |                       | 7.7557 Ω A Ph<br>12.585 Ω B Ph |
| Rating - Duty          |    | 40C AMB-CONT |              | Temp. Rise @ Rated Load               |                       |                                |

**Load Characteristics 115 V, 60 Hz, 0.25 HP**

| % of Rated Load | 25     | 50     | 75     | 100    | 125  |
|-----------------|--------|--------|--------|--------|------|
| Power Factor    | 87     | 93     | 97     | 98     | 99   |
| Efficiency      | 36.8   | 56.6   | 66.1   | 69.5   | 66.1 |
| Speed           | 1777.1 | 1755.2 | 1724.3 | 1677.2 | 1609 |
| Line amperes    | 1.43   | 1.65   | 2      | 2.46   | 3.09 |

ABB Motors and Mechanical Inc.

WINDING # 34WGR234

Typical performance - not guaranteed values.

0.25 HP 1 PH 60 HZ 1625 RPM 115 V 3408C

TORQUES (LB-FT): PO=1.13 PU=0.321 LR=0.42 LRA=6.76





