

# ABB BALDOR RELIANCE III

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## Customer information packet

JSM3115

1HP, 3450RPM, 3PH, 60HZ, 56YZ, 3420M, OPEN, F1

Class - None

Division - Not Applicable

**Specifications**

|                                |                                                             |
|--------------------------------|-------------------------------------------------------------|
| Enclosure                      | OPEN                                                        |
| Frame                          | 56YZ                                                        |
| 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             | 1.000 HP @ 60 HZ                                            |
| Phase                          | 3                                                           |
| Synchronous Speed @ Frequency  | 3600 RPM @ 60 HZ                                            |
| Voltage @ Frequency            | 230.0 V @ 60 HZ<br>460.0 V @ 60 HZ                          |
| Agency Approvals               | UR<br>CSA                                                   |
| Ambient Temperature            | 40 °C                                                       |
| Auxiliary Box                  | NO AUXILLARY BOX                                            |
| Auxiliary Box Lead Termination | None                                                        |
| Base Indicator                 | No Mounting                                                 |
| Bearing Grease Type            | Polyrex EM (-20F +300F)                                     |
| Blower                         | None                                                        |
| Current @ Voltage              | 1.600 A @ 460.0 V<br>3.200 A @ 230.0 V<br>4.200 A @ 208.0 V |
| Design Code                    | B                                                           |
| Drip Cover                     | Drip Cover                                                  |
| Duty Rating                    | CONT                                                        |
| Efficiency @ 100% Load         | 77.0 %                                                      |
| Electrically Isolated Bearing  | Not Electrically Isolated                                   |
| Feedback Device                | NO FEEDBACK                                                 |
| Front Face Code                | Drip Cover Mounting                                         |
| Front Shaft Indicator          | None                                                        |
| Heater Indicator               | No Heater                                                   |

**Part Detail**

|              |            |
|--------------|------------|
| Revision     | Q          |
| Type         | AC         |
| Mech. spec.  | 34L408     |
| Base         |            |
| Status       | PRD/A      |
| Elec. spec.  | 34WG3226   |
| Layout       | 34LYL408   |
| Eff. date    | 07-30-2025 |
| CD Diagram   | CD0005     |
| Poles        | 02         |
| Leads        | 9#18       |
| Proprietary  | False      |
| Created date | 08-05-2009 |

|                               |                             |
|-------------------------------|-----------------------------|
| High Voltage Full Load Amps   | 1.6 a                       |
| Insulation Class              | B                           |
| Inverter Code                 | Not Inverter                |
| KVA Code                      | L                           |
| Lifting Lugs                  | No Lifting Lugs             |
| Locked Bearing Indicator      | Locked Bearing              |
| Motor Lead Exit               | Terminal Panel Or Lead Hole |
| Motor Lead Quantity/Wire Size | 9 @ 18 AWG                  |
| Motor Lead Termination        | Flying Leads                |
| Motor Standards               | NEMA                        |
| Motor Type                    | 3420M                       |
| Mounting Arrangement          | F1                          |
| Number of Poles               | 2                           |
| Overall Length                | 12.02 IN                    |
| Power Factor                  | 82                          |
| Product Family                | General Purpose             |
| Pulley End Bearing Type       | Ball                        |
| Pulley Face Code              | Pool Pump                   |
| Pulley Shaft Indicator        | Ext Thread & Tapped Hole    |
| Rodent Screen                 | None                        |
| RoHS Status                   | ROHS COMPLIANT              |
| Service Factor                | 1.40                        |
| Shaft Diameter                | 0.625 IN                    |
| Shaft Extension Location      | Pulley End                  |
| Shaft Ground Indicator        | No Shaft Grounding          |
| Shaft Rotation                | Reversible                  |
| Shaft Slinger Indicator       | No 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                        |

|                          |             |
|--------------------------|-------------|
| <b>Winding Thermal 2</b> | <b>None</b> |
|--------------------------|-------------|

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Nameplate

| NP1256L      |              |  |      |      |     |   |  |       |   |  |  |
|--------------|--------------|--|------|------|-----|---|--|-------|---|--|--|
| CAT.NO.      | JSM3115      |  |      |      |     |   |  |       |   |  |  |
| SPEC.        | 34L408-3226  |  |      |      |     |   |  |       |   |  |  |
| HP           | 1            |  |      |      |     |   |  |       |   |  |  |
| VOLTS        | 230/460      |  |      |      |     |   |  |       |   |  |  |
| AMP          | 3.2/1.6      |  |      |      |     |   |  |       |   |  |  |
| RPM          | 3450         |  |      |      |     |   |  |       |   |  |  |
| FRAME        | 56YZ         |  | HZ   | 60   |     |   |  | PH    | 3 |  |  |
| SER.F.       | 1.40         |  | CODE | L    | DES | B |  | CLASS | B |  |  |
| NEMA-NOM-EFF | 77           |  | PF   | 82   |     |   |  |       |   |  |  |
| RATING       | 40C AMB-CONT |  |      |      |     |   |  |       |   |  |  |
| CC           |              |  |      |      |     |   |  |       |   |  |  |
| DE           | 6203         |  | ODE  | 6203 |     |   |  |       |   |  |  |
| ENCL         | OPEN         |  | SN   |      |     |   |  |       |   |  |  |
|              | SFA 4/2      |  |      |      |     |   |  |       |   |  |  |

**Parts List**

| <b>Part number</b> | <b>Description</b>                       | <b>Quantity</b> |
|--------------------|------------------------------------------|-----------------|
| SA184372           | SA 34L408-3226                           | 1.000 ea        |
| RA172211           | RA 34L408-3226                           | 1.000 ea        |
| WD4100A01          | DP-875 HEYCO PLUG OR 62MP0875 MICRO PLAS | 1.000 ea        |
| 11XW0832G06        | #8-32 X 3/8, TAPTITE II, HEX WSHR SLTD   | 1.000 ea        |
| SP1000A09          | TERM BOARD, MODEL 34 SW, (RPL SP1000A01) | 1.000 ea        |
| 51XW0832A07        | 8-32 X .44, TAPTITE II, HEX WSHR SLTD SE | 2.000 ea        |
| MG1050G01          | CELEROL MEDIUM CHARCOAL METALLIC GRAY    | 0.014 ga        |
| RM1010A22          | VINYL CAP, CAPLUG EZ-490-12, .490 DIA.   | 1.000 ea        |
| 34EP3202A02        | FR ENDPLATE, MACH                        | 1.000 ea        |
| HW5100A03          | WAVY WASHER (W1543-017)                  | 1.000 ea        |
| 34EP3501A14E       | ENDPLATE, MACH W/BLACK E-COATING         | 1.000 ea        |
| 51XN1032A20        | 10-32 X 1 1/4 HX WS SL SR                | 2.000 ea        |
| 34AD2007           | BAFFLE PLATE INJECTION MOLD              | 1.000 ea        |
| 51XT0632A06        | 6-32X3/8 TY23 HXWS SLDSR                 | 4.000 ea        |
| 34FH4500A02P       | DRIPCOVER, MODEL 34                      | 1.000 ea        |
| 51XW0832A07        | 8-32 X .44, TAPTITE II, HEX WSHR SLTD SE | 2.000 ea        |
| 34CB4501SP         | TERMINAL BOX LID, STAMPED X (PLATED)     | 1.000 ea        |
| 34GS1005           | GASKET, TERM PLATE LID                   | 1.000 ea        |
| 51XW0832A07        | 8-32 X .44, TAPTITE II, HEX WSHR SLTD SE | 2.000 ea        |
| 51XW0832A07        | 8-32 X .44, TAPTITE II, HEX WSHR SLTD SE | 2.000 ea        |
| MG1500Y02          | WILKOPON PRIMER YELLOW                   | 0.014 ga        |
| 85XU0407S04        | 4X1/4 U DRIVE PIN STAINLESS              | 2.000 ea        |
| HA3100A38          | THRUBOLT 10-32 X 9.375                   | 4.000 ea        |
| MN416A01           | TAG-INSTAL-MAINT no wire (2500 bx)11/25  | 1.000 ea        |
| LB1624             | COMBINED WARNING LABEL, ISO/ANSI PICTOGR | 1.000 ea        |
| LC0005             | CONN.DIA.,TY M,9-LD,DUAL VOLT,REVERSING  | 1.000 ea        |
| NP1256L            | ALUM UL CC INDUSTRIAL MOTOR A60          | 1.000 ea        |
| 34PA1002           | PKG GRP, PRINT PK1001A01                 | 1.000 ea        |
| PK3083             | STYROFOAM PACKING CRADLE                 | 1.000 ea        |
| PK3088             | MICROFOAM, 8"X"8 PERF. SHEETS            | 1.000 ea        |

**AC Induction Motor Performance Data**

Record # 50682

Typical performance - not guaranteed values

| Winding: 34WG3226-R001 |    |              | Type: 3420M                              |                         | Enclosure: OPEN  |                       |        |        |
|------------------------|----|--------------|------------------------------------------|-------------------------|------------------|-----------------------|--------|--------|
| Nameplate Data         |    |              | 460 V, 60 Hz:<br>High Voltage Connection |                         |                  |                       |        |        |
| Rated Output (HP)      |    | 1            | Full Load Torque                         |                         | 1.51 LB-FT       |                       |        |        |
| Volts                  |    | 230/460      | Start Configuration                      |                         | direct on line   |                       |        |        |
| Full Load Amps         |    | 3.2/1.6      | Breakdown Torque                         |                         | 7.966 LB-FT      |                       |        |        |
| R.P.M.                 |    | 3450         | Pull-up Torque                           |                         | 6.2 LB-FT        |                       |        |        |
| Hz                     | 60 | Phase        | 3                                        | Locked-rotor Torque     |                  | 8.7 LB-FT             |        |        |
| NEMA Design Code       |    | B            | KVA Code                                 | L                       | Starting Current |                       | 14.5 A |        |
| Service Factor (S.F.)  |    | 1.4          | No-load Current                          |                         | 0.913 A          |                       |        |        |
| NEMA Nom. Eff.         |    | 77           | Power Factor                             |                         | 82               | Line-line Res. @ 25°C |        | 13.6 Ω |
| Rating - Duty          |    | 40C AMB-CONT |                                          | Temp. Rise @ Rated Load |                  |                       |        |        |
| S.F. Amps              |    | 4/2          |                                          | Temp. Rise @ S.F. Load  |                  |                       |        |        |

**Load Characteristics 460 V, 60 Hz, 1 HP**

| % of Rated Load | 25    | 50   | 75   | 100  | 125  | 150  | S.F. |
|-----------------|-------|------|------|------|------|------|------|
| Power Factor    | 41    | 59   | 72   | 80   | 85   | 89   | 87   |
| Efficiency      | 57.7  | 71.5 | 77.1 | 79.3 | 79.9 | 79.7 | 79.8 |
| Speed           | 3560  | 3536 | 3506 | 3475 | 3445 | 3406 | 3422 |
| Line amperes    | 0.967 | 1.09 | 1.27 | 1.47 | 1.7  | 1.99 | 1.87 |

ABB Motors and Mechanical Inc.

WINDING # 34WG3226

Typical performance - not guaranteed values.

1 HP 3 PH 60 HZ 3450 RPM 460 V 3420M

TORQUES (LB-FT): PO=7.966 PU=6.2 LR=8.7 LRA=14.5





