

# ABB BALDOR RELIANCE III

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## Customer information packet

JL3507A

.75HP, 1725RPM, 1PH, 60HZ, 56J, 3428LC, TEFC

Class - None

Division - Not Applicable

**Specifications**

|                                |                                                             |
|--------------------------------|-------------------------------------------------------------|
| Enclosure                      | TEFC                                                        |
| Frame                          | 56J                                                         |
| Frame Material                 | Steel                                                       |
| Frequency                      | 60.00 Hz                                                    |
| Haz Area Class and Group       | None                                                        |
| Haz Area Division              | Not Applicable                                              |
| Motor Letter Type              | Cap Start, Cap Run                                          |
| Output @ Frequency             | .750 HP @ 60 HZ                                             |
| Phase                          | 1                                                           |
| Synchronous Speed @ Frequency  | 1800 RPM @ 60 HZ                                            |
| Voltage @ Frequency            | 115.0 V @ 60 HZ<br>230.0 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              | 4.100 A @ 230.0 V<br>5.400 A @ 208.0 V<br>8.200 A @ 115.0 V |
| Design Code                    | N                                                           |
| Drip Cover                     | No Drip Cover                                               |
| Duty Rating                    | CONT                                                        |
| Efficiency @ 100% Load         | 74.0 %                                                      |
| Electrically Isolated Bearing  | Not Electrically Isolated                                   |
| Feedback Device                | NO FEEDBACK                                                 |
| Front Face Code                | Standard                                                    |
| Front Shaft Indicator          | None                                                        |
| Heater Indicator               | No Heater                                                   |

**Part Detail**

|              |                  |
|--------------|------------------|
| Revision     | X                |
| Type         | AC               |
| Mech. spec.  | 34H408           |
| Base         |                  |
| Status       | PRD/A            |
| Elec. spec.  | 34WGW998         |
| Layout       | 34LYH408         |
| Eff. date    | 10-25-2024       |
| CD Diagram   | CD0308           |
| Poles        | 04               |
| Leads        | 4#18,1#16 #4TH Y |
| Proprietary  | False            |
| Created date | 01-01-0001       |

|                               |                            |
|-------------------------------|----------------------------|
| High Voltage Full Load Amps   | 4.1 a                      |
| Insulation Class              | B                          |
| Inverter Code                 | Not Inverter               |
| KVA Code                      | L                          |
| Lifting Lugs                  | No Lifting Lugs            |
| Locked Bearing Indicator      | Locked Bearing             |
| Motor Lead Exit               | Ko Box                     |
| Motor Lead Quantity/Wire Size | 4 @ 18 AWG                 |
| Motor Lead Termination        | Flying Leads               |
| Motor Standards               | NEMA                       |
| Motor Type                    | 3428LC                     |
| Mounting Arrangement          | F1                         |
| Number of Poles               | 4                          |
| Overall Length                | 12.97 IN                   |
| Power Factor                  | 80                         |
| Product Family                | General Purpose            |
| Pulley End Bearing Type       | Ball                       |
| Pulley Face Code              | C-Face                     |
| Pulley Shaft Indicator        | Ext Thread                 |
| Rodent Screen                 | None                       |
| RoHS Status                   | ROHS COMPLIANT             |
| Service Factor                | 1.25                       |
| Shaft Diameter                | 0.625 IN                   |
| Shaft Extension Location      | Pulley End                 |
| Shaft Ground Indicator        | No Shaft Grounding         |
| Shaft Rotation                | Fixed Opposite Standard    |
| Shaft Slinger Indicator       | No Slinger                 |
| Speed                         | 1725 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             | Automatic Thermal Overload |

**Winding Thermal 1 Location**

**SB**

**Nameplate**

| NP1257L      |              |  |      |      |    |     |   |    |   |  |  |
|--------------|--------------|--|------|------|----|-----|---|----|---|--|--|
| CAT.NO.      | JL3507A      |  |      |      |    |     |   |    |   |  |  |
| SPEC.        | 34H408W998   |  |      |      |    |     |   |    |   |  |  |
| HP           | .75          |  |      |      |    |     |   |    |   |  |  |
| VOLTS        | 115/230      |  |      |      |    |     |   |    |   |  |  |
| AMP          | 8.2/4.1      |  |      |      |    |     |   |    |   |  |  |
| RPM          | 1725         |  |      |      |    |     |   |    |   |  |  |
| FRAME        | 56J          |  |      | HZ   | 60 |     |   | PH | 1 |  |  |
| SER.F.       | 1.25         |  | CODE | L    |    | DES | N | CL | B |  |  |
| NEMA-NOM-EFF | 74           |  | PF   | 80   |    |     |   |    |   |  |  |
| RATING       | 40C AMB-CONT |  |      |      |    |     |   |    |   |  |  |
| CC           |              |  |      |      |    |     |   |    |   |  |  |
| DE           | 6203         |  | ODE  | 6203 |    |     |   |    |   |  |  |
| ENCL         | TEFC         |  | SN   |      |    |     |   |    |   |  |  |
|              | SFA 9.8/4.9  |  |      |      |    |     |   |    |   |  |  |

**Accessories**

| Part number | Description | Multiplier |
|-------------|-------------|------------|
| 34-171      | C FACE KIT  | A8         |

**AC Induction Motor Performance Data**

Record # 7176

Typical performance - not guaranteed values

| Winding: 34WGW998-R001 |    |              | Type: 3428LC |                                          | Enclosure: TEFC |                            |
|------------------------|----|--------------|--------------|------------------------------------------|-----------------|----------------------------|
| Nameplate Data         |    |              |              | 230 V, 60 Hz:<br>High Voltage Connection |                 |                            |
| Rated Output (HP)      |    | .75          |              | Full Load Torque                         |                 | 2.25 LB-FT                 |
| Volts                  |    | 115/230      |              | Start Configuration                      |                 | direct on line             |
| Full Load Amps         |    | 8.2/4.1      |              | Breakdown Torque                         |                 | 5.7 LB-FT                  |
| R.P.M.                 |    | 1725         |              | Pull-up Torque                           |                 | 4.7 LB-FT                  |
| Hz                     | 60 | Phase        | 1            | Locked-rotor Torque                      |                 | 7.5 LB-FT                  |
| NEMA Design Code       |    | N            | KVA Code     | Starting Current                         |                 | 31 A                       |
| Service Factor (S.F.)  |    | 1.25         |              | No-load Current                          |                 | 2.7 A                      |
| NEMA Nom. Eff.         |    | 74           | Power Factor | Line-line Res. @ 25°C                    |                 | 3.11 Ω A Ph<br>1.73 Ω B Ph |
| Rating - Duty          |    | 40C AMB-CONT |              | Temp. Rise @ Rated Load                  |                 | 62°C                       |
| S.F. Amps              |    | 9.8/4.9      |              | Temp. Rise @ S.F. Load                   |                 | 81°C                       |

**Load Characteristics 230 V, 60 Hz, 0.75 HP**

| % of Rated Load | 25   | 50   | 75   | 100  | 125  | 150  | S.F. |
|-----------------|------|------|------|------|------|------|------|
| Power Factor    | 43   | 61   | 72   | 80   | 85   | 87   | 0    |
| Efficiency      | 53.6 | 67.7 | 73   | 73.9 | 93.2 | 71.4 | 0    |
| Speed           | 1784 | 1770 | 1755 | 1739 | 1717 | 1694 | 0    |
| Line amperes    | 2.7  | 3    | 3.5  | 4.1  | 4.9  | 5.8  | 4.9  |

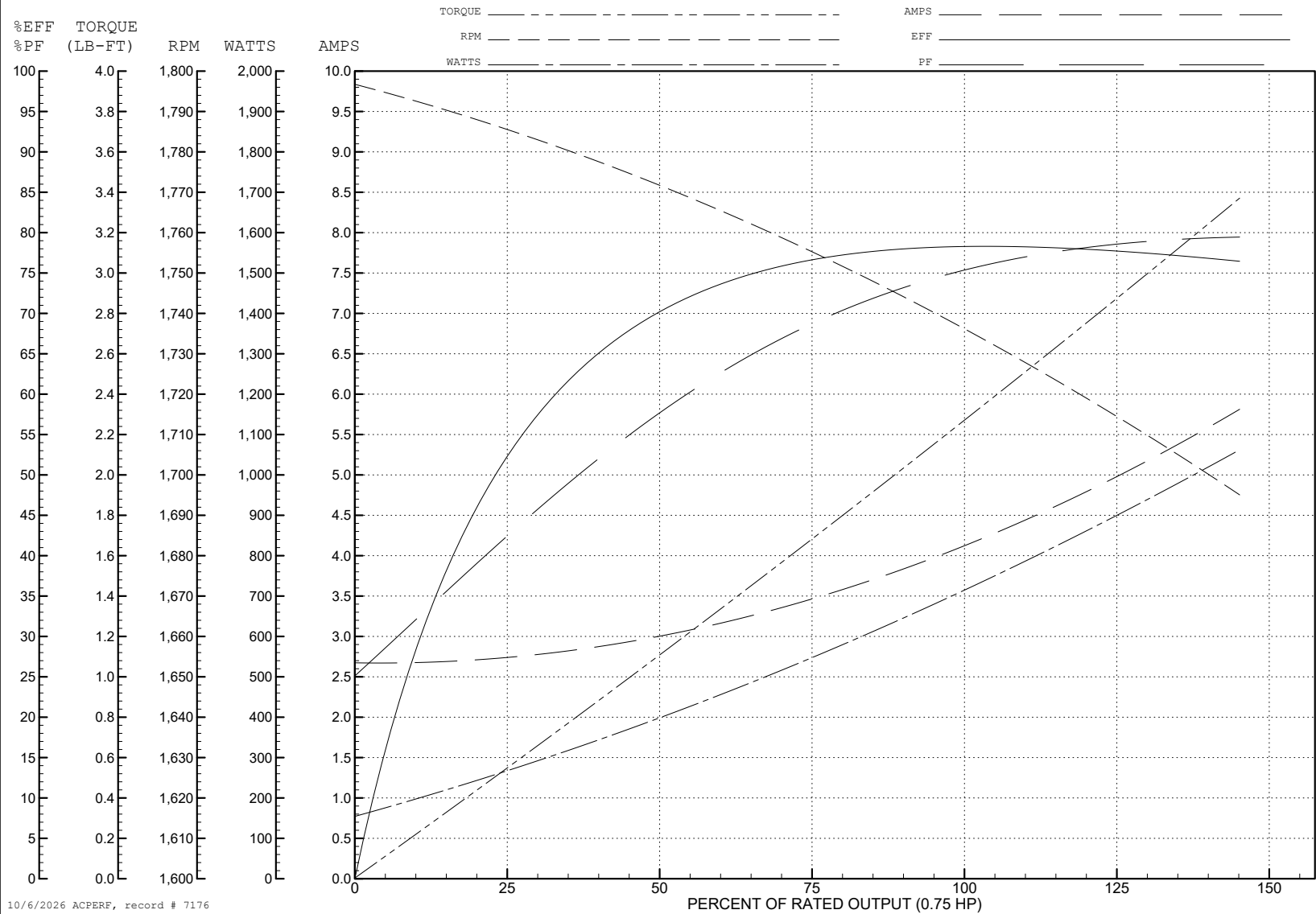
ABB Motors and Mechanical Inc.

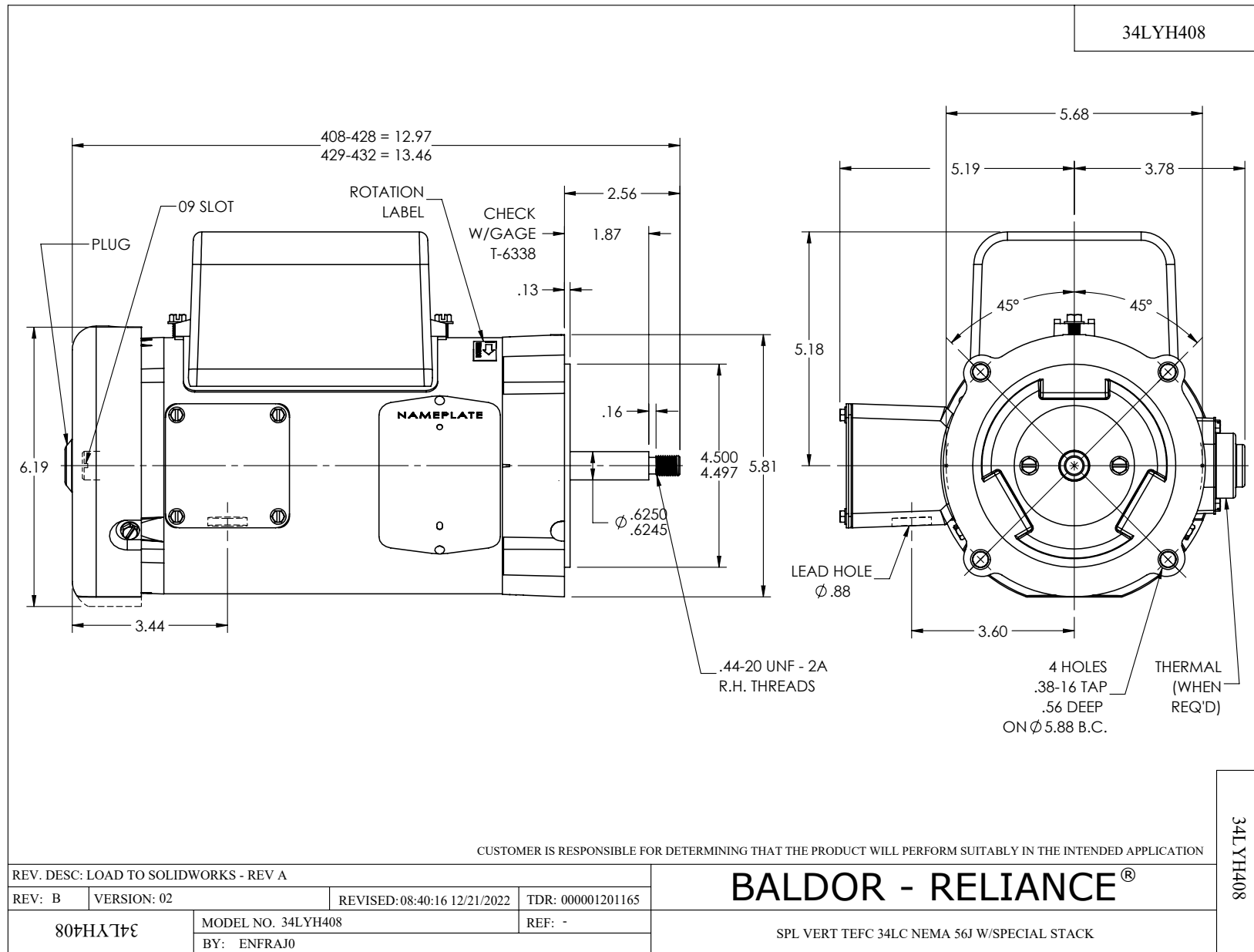
WINDING # 34WG998

Typical performance - not guaranteed values.

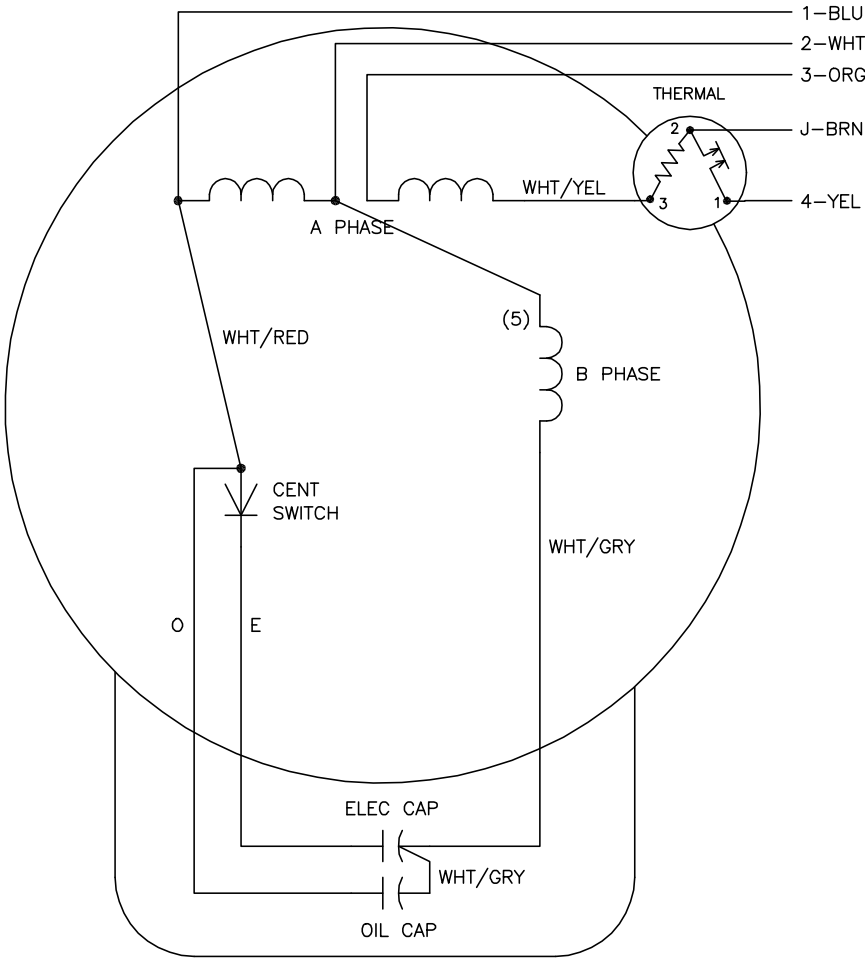
0.75 HP 1 PH 60 HZ 1725 RPM 230 V 3428LC

TORQUES (LB-FT) : PO=5.7 PU=4.7 LR=7.5 LRA=31





CD0308



|      | LINE A | LINE B | JOIN | JOIN |
|------|--------|--------|------|------|
| HIGH | 1      | 4      | 2,3  | J    |
| LOW  | 1,3    | 4      | —    | 2,J  |

- NOTES:
1. CONNECTIONS ARE SHOWN FOR CCW ROTATION FACING END OPPOSITE SHAFT EXTENSION (STD). FOR CW ROTATION, INTERCHANGE 5 AND 8 INTERNALLY.
  2. MULTIPLE CAPACITORS ARE CONNECTED IN PARALLEL UNLESS OTHERWISE SPECIFIED.
  3. LEAD COLORS ARE OPTIONAL. LEADS MUST ALWAYS BE NUMBERED AS SHOWN.

|                                     |         |                              |             |
|-------------------------------------|---------|------------------------------|-------------|
| REV. DESC: ADDED CM PLANT CODE ONLY |         |                              |             |
| REV. LTR: E                         | BY: TWD | REVISED: 09:39:48 10/24/2001 | TDR: 253023 |
| 803000                              |         | FILE: AAA00007481            | REF: CD0308 |
|                                     |         | MTL: —                       |             |

**BALDOR ELECTRIC Co.**

TYPE LC, DV, FIX, THERMAL, B PH AMPS THRU HTR, 5 LEADS

CD0308