

# ABB BALDOR RELIANCE III

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## Customer information packet

### L1505

3HP, 1725RPM, 1PH, 60HZ, 215, 3729L, OPEN, F1

Class - None

Division - Not Applicable

**Specifications**

|                                |                                                                |
|--------------------------------|----------------------------------------------------------------|
| Enclosure                      | OPEN                                                           |
| Frame                          | 215                                                            |
| Frame Material                 | Steel                                                          |
| Frequency                      | 60.00 Hz                                                       |
| Haz Area Class and Group       | None                                                           |
| Haz Area Division              | Not Applicable                                                 |
| Motor Letter Type              | Cap Start, Induction Run                                       |
| Output @ Frequency             | 3.000 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                 | Rigid                                                          |
| Bearing Grease Type            | Polyrex EM (-20F +300F)                                        |
| Blower                         | None                                                           |
| Current @ Voltage              | 18.000 A @ 230.0 V<br>19.000 A @ 208.0 V<br>36.000 A @ 115.0 V |
| Design Code                    | L                                                              |
| Drip Cover                     | No Drip Cover                                                  |
| Duty Rating                    | CONT                                                           |
| Efficiency @ 100% Load         | 75.0 %                                                         |
| 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     | AQ                  |
| Type         | AC                  |
| Mech. spec.  | 37D011              |
| Base         |                     |
| Status       | PRD/A               |
| Elec. spec.  | 37WG0087            |
| Layout       | 37LYD011            |
| Eff. date    | 03-31-2025          |
| CD Diagram   | CD0076              |
| Poles        | 04                  |
| Leads        | 4#12 A PH,4#14 B PH |
| Proprietary  | False               |
| Created date | 01-01-0001          |

|                               |                       |
|-------------------------------|-----------------------|
| High Voltage Full Load Amps   | 18.0 a                |
| Insulation Class              | B                     |
| Inverter Code                 | Not Inverter          |
| KVA Code                      | J                     |
| Lifting Lugs                  | Standard Lifting Lugs |
| Locked Bearing Indicator      | No Locked Bearing     |
| Motor Lead Exit               | Ko Box                |
| Motor Lead Quantity/Wire Size | 4 @ 12 AWG, A PH      |
| Motor Lead Termination        | Flying Leads          |
| Motor Standards               | NEMA                  |
| Motor Type                    | 3729L                 |
| Mounting Arrangement          | F1                    |
| Number of Poles               | 4                     |
| Overall Length                | 15.94 IN              |
| Power Factor                  | 70                    |
| Product Family                | General Purpose       |
| Pulley End Bearing Type       | Ball                  |
| Pulley Face Code              | Standard              |
| Pulley Shaft Indicator        | Standard              |
| Rodent Screen                 | None                  |
| RoHS Status                   | ROHS COMPLIANT        |
| Service Factor                | 1.15                  |
| Shaft Diameter                | 1.125 IN              |
| Shaft Extension Location      | Pulley End            |
| Shaft Ground Indicator        | No Shaft Grounding    |
| Shaft Rotation                | Reversible            |
| 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             | None                  |

Winding Thermal 2

None

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**Nameplate**

| NP1256L      |              |  |      |      |     |   |       |   |  |
|--------------|--------------|--|------|------|-----|---|-------|---|--|
| CAT.NO.      |              |  |      |      |     |   |       |   |  |
| SPEC.        | 37D11-87     |  |      |      |     |   |       |   |  |
| HP           | 3            |  |      |      |     |   |       |   |  |
| VOLTS        | 115/230      |  |      |      |     |   |       |   |  |
| AMP          | 36/18        |  |      |      |     |   |       |   |  |
| RPM          | 1725         |  |      |      |     |   |       |   |  |
| FRAME        | 215          |  | HZ   | 60   |     |   | PH    | 1 |  |
| SER.F.       | 1.15         |  | CODE | J    | DES | L | CLASS | B |  |
| NEMA-NOM-EFF | 75           |  | PF   | 70   |     |   |       |   |  |
| RATING       | 40C AMB-CONT |  |      |      |     |   |       |   |  |
| CC           |              |  |      |      |     |   |       |   |  |
| DE           | 6307         |  | ODE  | 6206 |     |   |       |   |  |
| ENCL         | OPEN         |  | SN   |      |     |   |       |   |  |

**Accessories**

| Part number | Description | Multiplier |
|-------------|-------------|------------|
| 37-3301     | C FACE KIT  | P1         |

**AC Induction Motor Performance Data**

Record # 20886

Typical performance - not guaranteed values

| Winding: 37WG0087-R001 |          |                 | Type: 3729L                             |  | Enclosure: OPEN              |  |
|------------------------|----------|-----------------|-----------------------------------------|--|------------------------------|--|
| Nameplate Data         |          |                 | 115 V, 60 Hz:<br>Low Voltage Connection |  |                              |  |
| Rated Output (HP)      |          | 3               | Full Load Torque                        |  | 9 LB-FT                      |  |
| Volts                  |          | 115/230         | Start Configuration                     |  | direct on line               |  |
| Full Load Amps         |          | 36/18           | Breakdown Torque                        |  | 25 LB-FT                     |  |
| R.P.M.                 |          | 1725            | Pull-up Torque                          |  | 20 LB-FT                     |  |
| Hz                     | 60 Phase | 1               | Locked-rotor Torque                     |  | 27 LB-FT                     |  |
| NEMA Design Code       |          | L KVA Code      | Starting Current                        |  | 178 A                        |  |
| Service Factor (S.F.)  |          | 1.15            | No-load Current                         |  | 23.3 A                       |  |
| NEMA Nom. Eff.         |          | 75 Power Factor | Line-line Res. @ 25°C                   |  | 0.103 Ω A Ph<br>0.497 Ω B Ph |  |
| Rating - Duty          |          | 40C AMB-CONT    | Temp. Rise @ Rated Load                 |  | 62°C                         |  |
| S.F. Amps              |          |                 | Temp. Rise @ S.F. Load                  |  | 78°C                         |  |

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

| % of Rated Load | 25   | 50   | 75   | 100  | 125  | 150  | S.F. |
|-----------------|------|------|------|------|------|------|------|
| Power Factor    | 35   | 51   | 63   | 71   | 76   | 79   | 0    |
| Efficiency      | 57.5 | 71.3 | 76.6 | 78.7 | 79.2 | 78.7 | 0    |
| Speed           | 1786 | 1775 | 1762 | 1749 | 1734 | 1718 | 0    |
| Line amperes    | 24.5 | 26.9 | 30.5 | 35.1 | 40.5 | 46.8 | 38.3 |

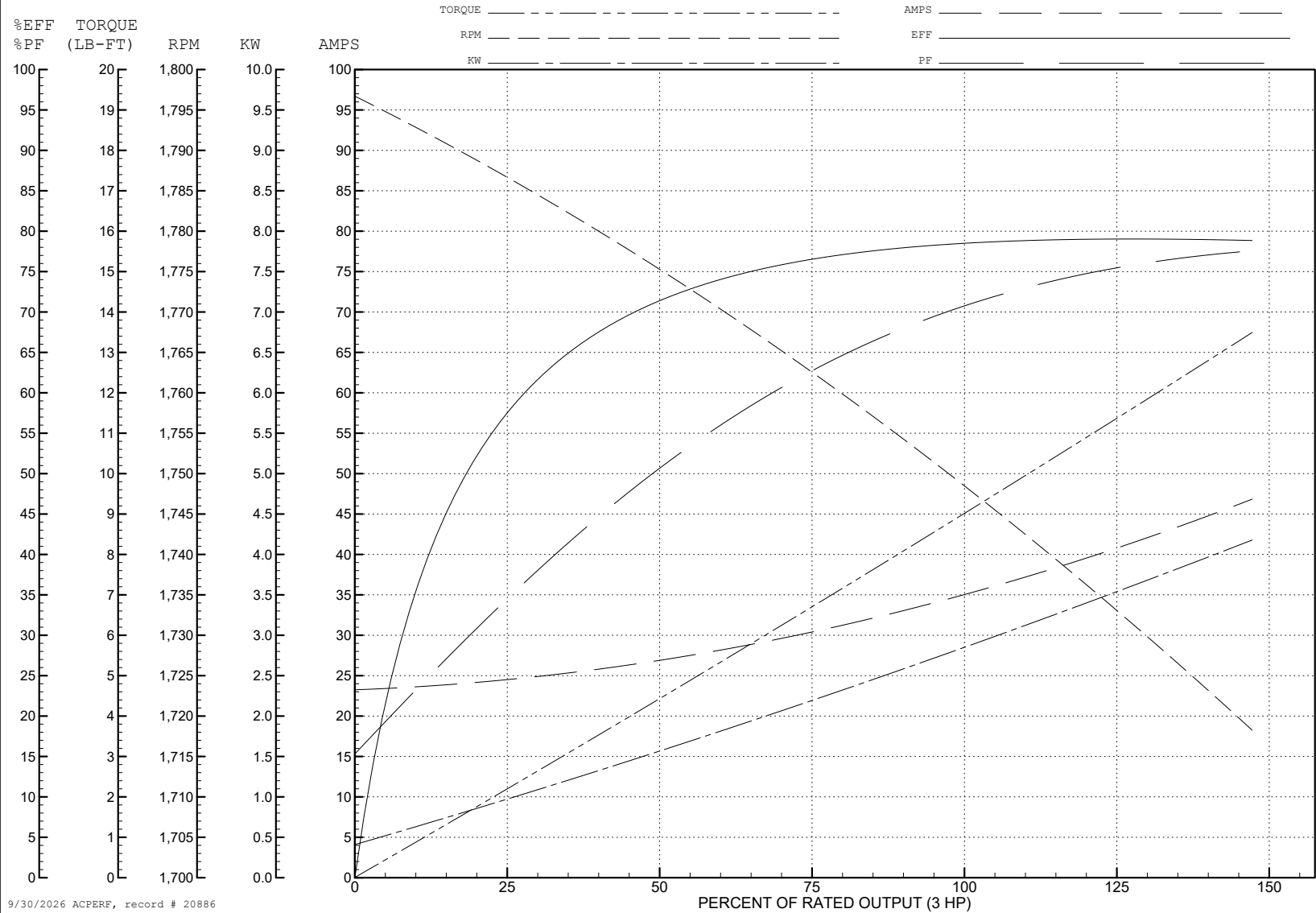
ABB Motors and Mechanical Inc.

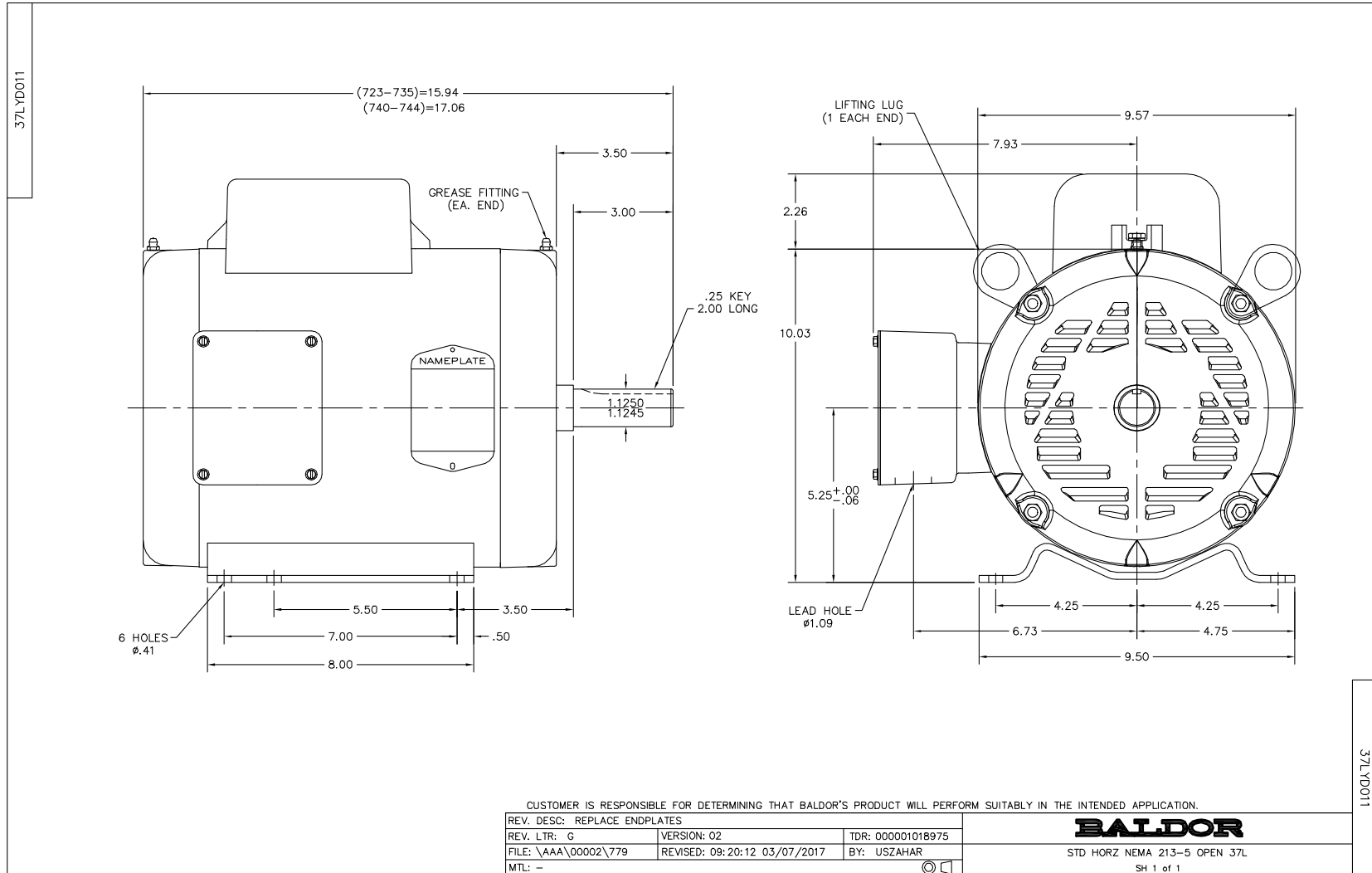
WINDING # 37WG0087

Typical performance - not guaranteed values.

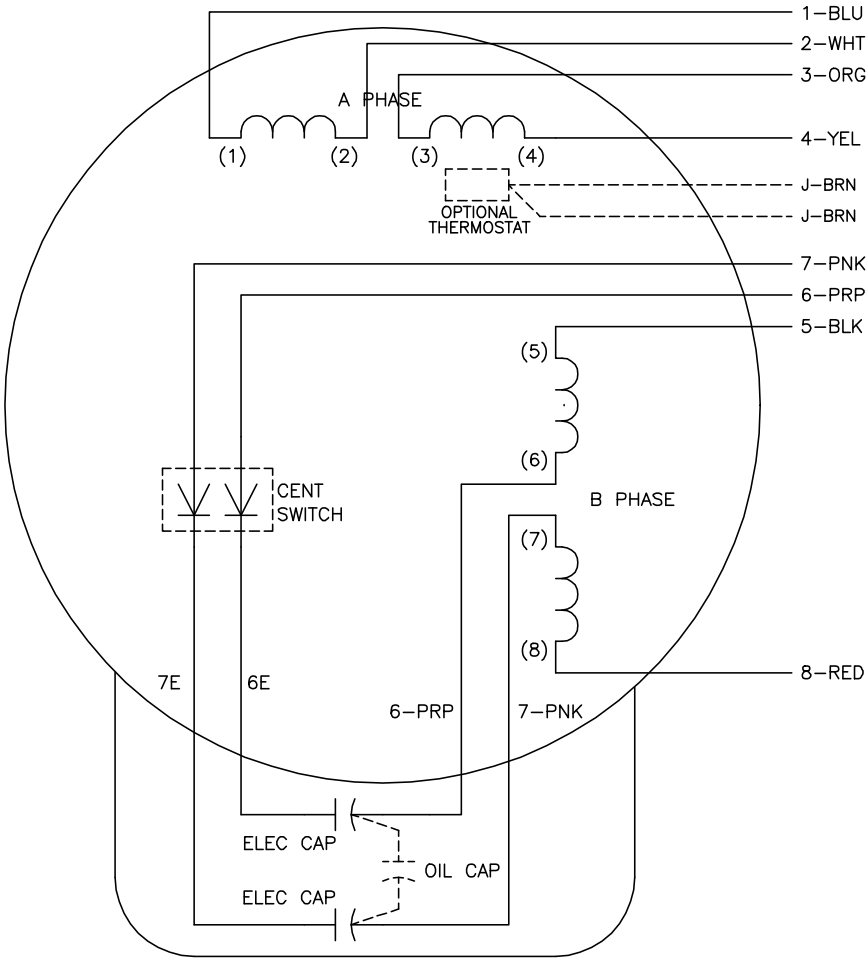
3 HP 1 PH 60 HZ 1725 RPM 115 V 3729L

TORQUES (LB-FT) : PO=25 PU=20 LR=27 LRA=178





CD0076



|          | LINE A  | LINE B  | JOIN | JOIN |
|----------|---------|---------|------|------|
| HIGH STD | 1,8     | 4,5     | 2,3  | 6,7  |
| HIGH OPP | 1,5     | 4,8     | 2,3  | 6,7  |
| LOW STD  | 1,3,6,8 | 2,4,5,7 | —    | —    |
| LOW OPP  | 1,3,5,7 | 2,4,6,8 | —    | —    |

- NOTES:
- 1. STANDARD ROTATION IS CCW FACING END OPPOSITE SHAFT EXTENSION.
  - 2. OPTIONAL THERMOSTAT IS PROVIDED WHEN SPECIFIED.
  - 3. OPTIONAL OIL CAP(S) ARE PROVIDED WHEN SPECIFIED. MULTIPLE OIL CAPS ARE CONNECTED IN PARALLEL.
  - 4. LEAD COLORS ARE OPTIONAL. LEADS MUST ALWAYS BE NUMBERED AS SHOWN.

|                                |                      |                              |
|--------------------------------|----------------------|------------------------------|
| REV. DESC: ADD OPTIONAL COLORS |                      |                              |
| REV. LTR: E                    | VERSION: 01          | TDR: 000000372126            |
| 9Z000C                         | FILE: \AAA\00007\419 | REVISED: 15:44:39 09/28/2005 |
|                                | MTL: —               | BY: ENJOEPO                  |

**BALDOR ELECTRIC Co.**

TYPE L OR LC, DV, REV, SERIES/PAR B PH, 8 LEAD

CD0076