

# ABB BALDOR RELIANCE III

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## Customer information packet

UCLE1015

10-15HP, 3500RPM, 1PH, 60HZ, 215Z, 3750LC, TEA

Class - None

Division - Not Applicable

**Specifications**

|                                |                                        |
|--------------------------------|----------------------------------------|
| Enclosure                      | TEAO                                   |
| Frame                          | 215Z                                   |
| 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             | 15.000 HP @ 60 HZ<br>10.000 HP @ 60 HZ |
| Phase                          | 1                                      |
| Synchronous Speed @ Frequency  | 3600 RPM @ 60 HZ                       |
| Voltage @ Frequency            | 230.0 V @ 60 HZ                        |
| Agency Approvals               | CSA<br>UR                              |
| Ambient Temperature            | 40 °C                                  |
| Auxiliary Box                  | NO AUXILLARY BOX                       |
| Auxiliary Box Lead Termination | None                                   |
| Base Indicator                 | Rigid                                  |
| Bearing Grease Type            | Polyrex EM (-20F +300F)                |
| Blower                         | None                                   |
| Current @ Voltage              | 46.000 A @ 230.0 V                     |
| Drip Cover                     | No Drip Cover                          |
| Duty Rating                    | CONT                                   |
| Electrically Isolated Bearing  | Not Electrically Isolated              |
| Feedback Device                | NO FEEDBACK                            |
| Front Face Code                | Standard                               |
| Front Shaft Indicator          | None                                   |
| Heater Indicator               | No Heater                              |
| High Voltage Full Load Amps    | 46.0 a                                 |
| Insulation Class               | F                                      |
| Inverter Code                  | Not Inverter                           |
| KVA Code                       | K                                      |

**Part Detail**

|              |                                        |
|--------------|----------------------------------------|
| Revision     | U                                      |
| Type         | AC                                     |
| Mech. spec.  | 37N421                                 |
| Base         |                                        |
| Status       | PRD/A                                  |
| Elec. spec.  | 37WGY921                               |
| Layout       | 37LYN421                               |
| Eff. date    | 09-28-2026                             |
| CD Diagram   | CD0208                                 |
| Poles        | 02                                     |
| Leads        | 2#8 A PH SEE NOTES,3#14 B PH SEE NOTES |
| Proprietary  | Y                                      |
| Created date | False                                  |
|              | 03-07-2014                             |

|                                      |                            |
|--------------------------------------|----------------------------|
| <b>Lifting Lugs</b>                  | Standard Lifting Lugs      |
| <b>Locked Bearing Indicator</b>      | Locked Bearing             |
| <b>Motor Lead Exit</b>               | Pipe Or Pipe Adaptor       |
| <b>Motor Lead Quantity/Wire Size</b> | 2 @ 8 AWG, A PH            |
| <b>Motor Lead Termination</b>        | Flying Leads               |
| <b>Motor Standards</b>               | NEMA                       |
| <b>Motor Type</b>                    | 3750LC                     |
| <b>Mounting Arrangement</b>          | F1                         |
| <b>Number of Poles</b>               | 2                          |
| <b>Overall Length</b>                | 18.56 IN                   |
| <b>Product Family</b>                | General Purpose            |
| <b>Pulley End Bearing Type</b>       | Ball                       |
| <b>Pulley Face Code</b>              | Standard                   |
| <b>Pulley Shaft Indicator</b>        | Tapped & Key               |
| <b>Rodent Screen</b>                 | None                       |
| <b>RoHS Status</b>                   | ROHS COMPLIANT             |
| <b>Service Factor</b>                | 1.00                       |
| <b>Shaft Diameter</b>                | 1.125 IN                   |
| <b>Shaft Extension Location</b>      | Pulley End                 |
| <b>Shaft Ground Indicator</b>        | No Shaft Grounding         |
| <b>Shaft Rotation</b>                | Reversible                 |
| <b>Shaft Slinger Indicator</b>       | Shaft Slinger              |
| <b>Speed</b>                         | 3500 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**

| NP1279L      |              |  |      |      |     |    |  |    |   |
|--------------|--------------|--|------|------|-----|----|--|----|---|
| CAT.NO.      | UCLE1015     |  |      |      |     |    |  |    |   |
| SPEC.        | 37N421Y921G1 |  |      |      |     |    |  |    |   |
| HP           | 10-15        |  |      |      |     |    |  |    |   |
| VOLTS        | 230          |  |      |      |     |    |  |    |   |
| AMP          | 46-61        |  |      |      |     |    |  |    |   |
| RPM          | 3500         |  |      |      |     |    |  |    |   |
| FRAME        | 215Z         |  | HZ   | 60   |     | PH |  | 1  |   |
| SER.F.       | 1.00         |  | CODE | K    | DES | -  |  | CL | F |
| NEMA-NOM-EFF |              |  | PF   |      |     |    |  |    |   |
| RATING       | 40C AMB-CONT |  |      |      |     |    |  |    |   |
| CC           |              |  |      |      |     |    |  |    |   |
| DE           | 6307         |  | ODE  | 6206 |     |    |  |    |   |
| ENCL         | TEAO         |  | SN   |      |     |    |  |    |   |

| NP1263L      |              |      |      |     |    |    |    |   |  |
|--------------|--------------|------|------|-----|----|----|----|---|--|
| CAT.NO.      | UCLE1015     |      |      |     |    |    |    |   |  |
| SPEC.        | 37N421Y921G1 |      |      |     |    |    |    |   |  |
| HP           | 10-15        |      |      |     |    |    |    |   |  |
| VOLTS        | 230          |      |      |     |    |    |    |   |  |
| AMP          | 46-61        |      |      |     |    |    |    |   |  |
| RPM          | 3500         |      |      |     |    |    |    |   |  |
| FRAME        | 215Z         |      |      | HZ  | 60 |    | PH | 1 |  |
| SER.F.       | 1.00         | CODE | K    | DES | -  | CL | F  |   |  |
| NEMA-NOM-EFF |              | PF   |      |     |    |    |    |   |  |
| RATING       | 40C AMB-CONT |      |      |     |    |    |    |   |  |
| CC           |              |      |      |     |    |    |    |   |  |
| DE           | 6307         | ODE  | 6206 |     |    |    |    |   |  |
| ENCL         | TEAO         | SN   |      |     |    |    |    |   |  |
|              |              |      |      |     |    |    |    |   |  |

**Accessories**

| Part number | Description                              | Multiplier |
|-------------|------------------------------------------|------------|
| 37-3301FD   | C FACE KIT FARM DUTY 213-5TC, ENCL, 6307 | A8         |

**AC Induction Motor Performance Data**

Record # 12623

Typical performance - not guaranteed values

| Winding: 37WGY921-R001 |    |              | Type: 3750LC                          |                         | Enclosure: TEAO       |            |                               |
|------------------------|----|--------------|---------------------------------------|-------------------------|-----------------------|------------|-------------------------------|
|                        |    |              |                                       |                         |                       |            |                               |
| Nameplate Data         |    |              | 230 V, 60 Hz:<br>Single Voltage Motor |                         |                       |            |                               |
| Rated Output (HP)      |    | 10-15        | Full Load Torque                      |                         | 22.5 LB-FT            |            |                               |
| Volts                  |    | 230          | Start Configuration                   |                         | direct on line        |            |                               |
| Full Load Amps         |    | 46-61        | Breakdown Torque                      |                         | 96 LB-FT              |            |                               |
| R.P.M.                 |    | 3500         | Pull-up Torque                        |                         | 25.4 LB-FT            |            |                               |
| Hz                     | 60 | Phase        | 1                                     | Locked-rotor Torque     |                       | 32.8 LB-FT |                               |
| NEMA Design Code       |    | -            | KVA Code                              | K                       | Starting Current      |            | 391 A                         |
| Service Factor (S.F.)  |    |              | 1                                     | No-load Current         |                       | 17.3 A     |                               |
| NEMA Nom. Eff.         |    | 0            | Power Factor                          | 0                       | Line-line Res. @ 25°C |            | 0.0724 Ω A Ph<br>0.851 Ω B Ph |
| Rating - Duty          |    | 40C AMB-CONT |                                       | Temp. Rise @ Rated Load |                       |            |                               |

**Load Characteristics 230 V, 60 Hz, 15 HP**

| % of Rated Load | 25   | 50   | 75   | 100  | 125  | 150  |
|-----------------|------|------|------|------|------|------|
| Power Factor    | 70   | 85   | 89   | 91   | 91   | 90   |
| Efficiency      | 76.8 | 85.9 | 88.1 | 87.8 | 86.7 | 84.3 |
| Speed           | 3580 | 3562 | 3542 | 3518 | 3491 | 3456 |
| Line amperes    | 23.3 | 34   | 46.9 | 61.2 | 77   | 94.6 |

ABB Motors and Mechanical Inc.

WINDING # 37WGY921

Typical performance - not guaranteed values.

15 HP 1 PH 60 HZ 3500 RPM 230 V 3750LC

TORQUES (LB-FT): PO=96 PU=25.4 LR=32.8 LRA=391





