

# ABB BALDOR RELIANCE III

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## Customer information packet

### UCC5700

5-7HP, 3450RPM, 1PH, 60HZ, 184TZ, 3634C, OPEN

Class - None

Division - Not Applicable

**Specifications**

|                                |                                      |
|--------------------------------|--------------------------------------|
| Enclosure                      | OPEN                                 |
| Frame                          | 184TZ                                |
| 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             | 7.000 HP @ 60 HZ<br>5.000 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              | 19.500 A @ 230.0 V                   |
| Drip Cover                     | No Drip Cover                        |
| Duty Rating                    | CONT                                 |
| Efficiency @ 100% Load         | 79.0 %                               |
| 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    | 19.5 a                               |
| Insulation Class               | F                                    |
| Inverter Code                  | Not Inverter                         |

**Part Detail**

|              |                              |
|--------------|------------------------------|
| Revision     | AN                           |
| Type         | AC                           |
| Mech. spec.  | 36F548                       |
| Base         |                              |
| Status       | PRD/A                        |
| Elec. spec.  | 36WGW873                     |
| Layout       | 36LYF548                     |
| Eff. date    | 01-02-2025                   |
| CD Diagram   | CD0127                       |
| Poles        | 02                           |
| Leads        | 2#10 A PH,2#16 B PH 30" LG Y |
| Proprietary  | False                        |
| Created date | 01-01-0001                   |

|                                      |                            |
|--------------------------------------|----------------------------|
| <b>KVA Code</b>                      | <b>C</b>                   |
| <b>Lifting Lugs</b>                  | No 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 @ 10 AWG, A PH           |
| <b>Motor Lead Termination</b>        | Flying Leads               |
| <b>Motor Standards</b>               | NEMA                       |
| <b>Motor Type</b>                    | 3634C                      |
| <b>Mounting Arrangement</b>          | F1                         |
| <b>Number of Poles</b>               | 2                          |
| <b>Overall Length</b>                | 15.38 IN                   |
| <b>Power Factor</b>                  | 97                         |
| <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>                 | Included                   |
| <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>       | No Slinger                 |
| <b>Speed</b>                         | 3450 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.      | UCC5700      |      |      |     |   |    |   |  |  |
| SPEC.        | 36F548W873   |      |      |     |   |    |   |  |  |
| HP           | 5-7 AIR OVER |      |      |     |   |    |   |  |  |
| VOLTS        | 230          |      |      |     |   |    |   |  |  |
| AMP          | 19.5-29      |      |      |     |   |    |   |  |  |
| RPM          | 3450         |      |      |     |   |    |   |  |  |
| FRAME        | 184TZ        | HZ   | 60   | PH  |   | 1  |   |  |  |
| SER.F.       | 1.00         | CODE | C    | DES | - | CL | F |  |  |
| NEMA-NOM-EFF | 79           | PF   | 97   |     |   |    |   |  |  |
| RATING       | 40C AMB-CONT |      |      |     |   |    |   |  |  |
| CC           |              |      |      |     |   |    |   |  |  |
| DE           | 6206         | ODE  | 6205 |     |   |    |   |  |  |
| ENCL         | OPEN         | SN   |      |     |   |    |   |  |  |

| NP1263L      |              |      |      |     |    |    |    |   |  |
|--------------|--------------|------|------|-----|----|----|----|---|--|
| CAT.NO.      | UCC5700      |      |      |     |    |    |    |   |  |
| SPEC.        | 36F548W873   |      |      |     |    |    |    |   |  |
| HP           | 5-7 AIR OVER |      |      |     |    |    |    |   |  |
| VOLTS        | 230          |      |      |     |    |    |    |   |  |
| AMP          | 19.5-29      |      |      |     |    |    |    |   |  |
| RPM          | 3450         |      |      |     |    |    |    |   |  |
| FRAME        | 184TZ        |      |      | HZ  | 60 |    | PH | 1 |  |
| SER.F.       | 1.00         | CODE | C    | DES | -  | CL | F  |   |  |
| NEMA-NOM-EFF | 79           | PF   | 97   |     |    |    |    |   |  |
| RATING       | 40C AMB-CONT |      |      |     |    |    |    |   |  |
| CC           |              |      |      |     |    |    |    |   |  |
| DE           | 6206         | ODE  | 6205 |     |    |    |    |   |  |
| ENCL         | OPEN         | SN   |      |     |    |    |    |   |  |
|              |              |      |      |     |    |    |    |   |  |

**Parts List**

| <b>Part number</b> | <b>Description</b>                       | <b>Quantity</b> |
|--------------------|------------------------------------------|-----------------|
| SA035078           | SA 36F548W873                            | 1.000 ea        |
| RA031105           | RA 36F548W873                            | 1.000 ea        |
| OC3025F11          | CYL OIL CAP 25MFD/370V                   | 2.000 ea        |
| HA6021A01SP        | ADAPTOR, MACH                            | 1.000 ea        |
| 51XB1016A07        | 10-16 X 7/16 HXWSSLD SERTYB              | 2.000 ea        |
| 11XW0832G06        | #8-32 X 3/8, TAPTITE II, HEX WSHR SLTD   | 1.000 ea        |
| HW3001B01          | BRASS CUP WASHER, FOR #10 SCREW          | 1.000 ea        |
| 36EP3204C00        | MASTER ODE,205 BRG,GRSR,GRSR             | 1.000 ea        |
| HA1103A08          | RODENT SCREEN, 36 FRAME, OPEN, FRONT END | 1.000 ea        |
| 51XW1032A06        | 10-32 X .38, TAPTITE II, HEX WSHR SLTD S | 4.000 ea        |
| HW1000A10          | #10 FLAT WASHER (SAE)                    | 4.000 ea        |
| HW4500A19          | 1/4-28X1/4 SLOTTED PLUG F/S              | 2.000 ea        |
| HW5100A05          | WVY WSHR F/205 & 304 BRGS                | 1.000 ea        |
| 36EP3205E00        | MASTER DE,206 BRG,1.438SH,GRSR,GRSR,LCK  | 1.000 ea        |
| HA1103A10          | RODENT SCREEN, 36 FRAME, OPEN, PULLEY EN | 1.000 ea        |
| 51XW1032A06        | 10-32 X .38, TAPTITE II, HEX WSHR SLTD S | 4.000 ea        |
| HW1000A10          | #10 FLAT WASHER (SAE)                    | 4.000 ea        |
| HW4500A19          | 1/4-28X1/4 SLOTTED PLUG F/S              | 2.000 ea        |
| 10XN2520A20        | 1/4-20X 1 1/4 HEX HD X                   | 2.000 ea        |
| HW1001A25          | LOCKWASHER 1/4, ZINC PLT .493 OD, .255 I | 2.000 ea        |
| XY2520A12          | 1/4-20 HEX NUT, DIRECTIONAL SERRATIONS   | 4.000 ea        |
| HW2501E18          | KEY, 1/4 SQ X 2.000                      | 1.000 ea        |
| HA7000A02          | KEY RETAINER RING, 1 1/8 DIA, 1 3/8 DIA  | 1.000 ea        |
| 85XU0407S04        | 4X1/4 U DRIVE PIN STAINLESS              | 2.000 ea        |
| LB1001             | LABEL, GREASE-EXXON POLYREX EM           | 1.000 ea        |
| MJ1000A02          | GREASE, POLYREX EM EXXON                 | 0.050 lb        |
| LD5000A45          | LEAD ASSY, ML1400DF10 W/#10 RING 36"     | 1.000 ea        |
| HA3101A25          | THRUBOLT 1/4-20 X 11.000 OHIO ROD        | 4.000 ea        |
| MG1025C02          | WILKOFASST SG, 787.105, TAN              | 0.022 ga        |
| MP1002A24          | 6" X 16" .65 MIL. CLEAR PLASTIC BAG      | 1.000 ea        |
| LC0127             | CONNECTION DIAGRAM                       | 1.000 ea        |

|            |                                          |          |
|------------|------------------------------------------|----------|
| NP1279L    | ALUM FARM DUTY UL CSA CC                 | 1.000 ea |
| NP1263L    | AUX, GP, ALUM, CC, LASER ETCHED          | 1.000 ea |
| 36PA1000   | PKG GRP, PRINT PK1016A08                 | 1.000 ea |
| MN416A01   | TAG-INSTAL-MAINT no wire (2500 bx)11/25  | 1.000 ea |
| FE-0000004 | ZRTG FE ASSEMBLY                         | 1.000 ea |
| PE-0000004 | ZRTG PE ASSEMBLY                         | 1.000 ea |
| LB1624     | COMBINED WARNING LABEL, ISO/ANSI PICTOGR | 1.000 ea |

**AC Induction Motor Performance Data**

Record # 10868

Typical performance - not guaranteed values

| Winding: 36GW873-R001 |  |              | Type: 3634C                           |                         | Enclosure: OPAO |                       |           |                             |
|-----------------------|--|--------------|---------------------------------------|-------------------------|-----------------|-----------------------|-----------|-----------------------------|
|                       |  |              |                                       |                         |                 |                       |           |                             |
| Nameplate Data        |  |              | 230 V, 60 Hz:<br>Single Voltage Motor |                         |                 |                       |           |                             |
| Rated Output (HP)     |  | 5-7 AIR OVER | Full Load Torque                      |                         | 10.7 LB-FT      |                       |           |                             |
| Volts                 |  | 230          | Start Configuration                   |                         | direct on line  |                       |           |                             |
| Full Load Amps        |  | 19.5-29      | Breakdown Torque                      |                         | 22 LB-FT        |                       |           |                             |
| R.P.M.                |  | 3450         | Pull-up Torque                        |                         | 1.3 LB-FT       |                       |           |                             |
| Hz                    |  | 60           | Phase                                 |                         | 1               | Locked-rotor Torque   | 1.5 LB-FT |                             |
| NEMA Design Code      |  | -            | KVA Code                              |                         | C               | Starting Current      |           | 125 A                       |
| Service Factor (S.F.) |  |              | 1                                     | No-load Current         |                 | 2.9 A                 |           |                             |
| NEMA Nom. Eff.        |  | 79           | Power Factor                          |                         | 97              | Line-line Res. @ 25°C |           | 0.356 Ω A Ph<br>1.24 Ω B Ph |
| Rating - Duty         |  | 40C AMB-CONT |                                       | Temp. Rise @ Rated Load |                 |                       |           |                             |

**Load Characteristics 230 V, 60 Hz, 7 HP**

| % of Rated Load | 25   | 50   | 75   | 100  | 125  | 150  |
|-----------------|------|------|------|------|------|------|
| Power Factor    | 97   | 99   | 99   | 98   | 97   | 96   |
| Efficiency      | 72.2 | 82.5 | 84.6 | 83.7 | 81   | 76.3 |
| Speed           | 3563 | 3527 | 3485 | 3437 | 3376 | 3291 |
| Line amperes    | 8.1  | 14   | 20.5 | 27.7 | 36   | 46.5 |



ABB Motors and Mechanical Inc.

WINDING # 36WG873

Typical performance - not guaranteed values.

7 HP 1 PH 60 HZ 3450 RPM 230 V 3634C

TORQUES (LB-FT): PO=22 PU=1.3 LR=1.5 LRA=125





