

# ABB BALDOR RELIANCE III

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## Customer information packet

### EJPM3711T

10HP, 3490RPM, 3PH, 60HZ, 215JP, 3728M, TEFC, F

Class - None

Division - Not Applicable

**Specifications**

|                                       |                                          |
|---------------------------------------|------------------------------------------|
| <b>Enclosure</b>                      | TEFC                                     |
| <b>Frame</b>                          | 215JP                                    |
| <b>Frame Material</b>                 | Steel                                    |
| <b>Frequency</b>                      | 60.00 Hz                                 |
| <b>Haz Area Class and Group</b>       | None                                     |
| <b>Haz Area Division</b>              | Not Applicable                           |
| <b>Motor Letter Type</b>              | Three Phase                              |
| <b>Output @ Frequency</b>             | 10.000 HP @ 60 HZ                        |
| <b>Phase</b>                          | 3                                        |
| <b>Synchronous Speed @ Frequency</b>  | 3600 RPM @ 60 HZ                         |
| <b>Voltage @ Frequency</b>            | 230.0 V @ 60 HZ<br>460.0 V @ 60 HZ       |
| <b>Agency Approvals</b>               | NEMA PREMIUM<br>CURUSEEV                 |
| <b>Ambient Temperature</b>            | 40 °C                                    |
| <b>Auxiliary Box</b>                  | NO AUXILLARY BOX                         |
| <b>Auxiliary Box Lead Termination</b> | None                                     |
| <b>Base Indicator</b>                 | Rigid                                    |
| <b>Bearing Grease Type</b>            | Polyrex EM (-20F +300F)                  |
| <b>Blower</b>                         | None                                     |
| <b>Current @ Voltage</b>              | 12.000 A @ 460.0 V<br>24.100 A @ 230.0 V |
| <b>Design Code</b>                    | B                                        |
| <b>Drip Cover</b>                     | No Drip Cover                            |
| <b>Duty Rating</b>                    | CONT                                     |
| <b>Efficiency @ 100% Load</b>         | 90.2 %                                   |
| <b>Electrically Isolated Bearing</b>  | Not Electrically Isolated                |
| <b>Feedback Device</b>                | NO FEEDBACK                              |
| <b>Front Shaft Indicator</b>          | None                                     |
| <b>Heater Indicator</b>               | No Heater                                |
| <b>High Voltage Full Load Amps</b>    | 12.0 a                                   |
| <b>Insulation Class</b>               | F                                        |

**Part Detail**

|                     |            |
|---------------------|------------|
| <b>Revision</b>     | -          |
| <b>Type</b>         | AC         |
| <b>Mech. spec.</b>  | 37L079     |
| <b>Base</b>         |            |
| <b>Status</b>       | PRD/A      |
| <b>Elec. spec.</b>  | 37WGZ712   |
| <b>Layout</b>       | 37LYL079   |
| <b>Eff. date</b>    | 11-24-2025 |
| <b>CD Diagram</b>   | CD0005     |
| <b>Poles</b>        | 02         |
| <b>Leads</b>        | 9#14       |
| <b>Proprietary</b>  | False      |
| <b>Created date</b> | 11-10-2025 |

|                                      |                       |
|--------------------------------------|-----------------------|
| <b>Inverter Code</b>                 | Inverter Ready        |
| <b>KVA Code</b>                      | G                     |
| <b>Lifting Lugs</b>                  | Standard Lifting Lugs |
| <b>Locked Bearing Indicator</b>      | Locked Bearing        |
| <b>Motor Lead Quantity/Wire Size</b> | 9 @ 14 AWG            |
| <b>Motor Lead Termination</b>        | Flying Leads          |
| <b>Motor Standards</b>               | NEMA                  |
| <b>Motor Type</b>                    | 3728M                 |
| <b>Mounting Arrangement</b>          | F1                    |
| <b>Number of Poles</b>               | 2                     |
| <b>Overall Length</b>                | 23.64 IN              |
| <b>Power Factor</b>                  | 85                    |
| <b>Product Family</b>                | General Purpose       |
| <b>Pulley End Bearing Type</b>       | Ball                  |
| <b>Pulley Face Code</b>              | C-Face                |
| <b>Pulley Shaft Indicator</b>        | Tapped & Key          |
| <b>Rodent Screen</b>                 | None                  |
| <b>RoHS Status</b>                   | ROHS COMPLIANT        |
| <b>Service Factor</b>                | 1.15                  |
| <b>Shaft Diameter</b>                | 1.250 IN              |
| <b>Shaft Ground Indicator</b>        | No Shaft Grounding    |
| <b>Shaft Rotation</b>                | Reversible            |
| <b>Shaft Slinger Indicator</b>       | No Slinger            |
| <b>Speed</b>                         | 3490 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>      | None                  |
| <b>Vibration Sensor Indicator</b>    | No Vibration Sensor   |
| <b>Winding Thermal 1</b>             | None                  |
| <b>Winding Thermal 2</b>             | None                  |

**Nameplate**

| NP3441LUA                        |                               |  |               |      |            |   |              |       |  |
|----------------------------------|-------------------------------|--|---------------|------|------------|---|--------------|-------|--|
| <b>CAT.NO.</b>                   | EJPM3711T                     |  |               |      |            |   |              |       |  |
| <b>SPEC</b>                      | 37L079Z712                    |  |               |      |            |   |              |       |  |
| <b>HP</b>                        | 10                            |  |               |      |            |   |              |       |  |
| <b>VOLTS</b>                     | 230/460                       |  |               |      |            |   |              |       |  |
| <b>AMPS</b>                      | 24.1/12                       |  |               |      |            |   |              |       |  |
| <b>RPM</b>                       | 3490                          |  |               |      |            |   |              |       |  |
| <b>FRAME</b>                     | 215JP                         |  | <b>HZ</b>     | 60   |            |   | <b>PH</b>    | 3     |  |
| <b>SF</b>                        | 1.15                          |  | <b>CODE</b>   | G    | <b>DES</b> | B | <b>CLASS</b> | F     |  |
| <b>NEMA NOM. EFF</b>             | 90.2                          |  | <b>PF</b>     | 85   |            |   |              |       |  |
| <b>RATING</b>                    | 40C AMB-CONT                  |  |               |      |            |   |              |       |  |
| <b>CC</b>                        | 010A                          |  |               |      |            |   |              |       |  |
| <b>ENCL</b>                      | TEFC                          |  | <b>SER</b>    |      |            |   |              |       |  |
| <b>DE</b>                        | 6309                          |  | <b>ODE</b>    | 6206 |            |   |              |       |  |
| <b>VPWM INVERTER READY</b>       |                               |  | SFA 27.6/13.8 |      |            |   |              |       |  |
| <b>CT6-60H(10:1)VT3-60H(20:1</b> |                               |  |               |      |            |   |              |       |  |
|                                  | 50HZ 10HP 190/380V 28.2/14.1A |  |               |      |            |   |              | SF1.0 |  |

**Parts List**

| Part number   | Description                              | Quantity |
|---------------|------------------------------------------|----------|
| SA443108      | SA 37L079Z712                            | 1.000 ea |
| RA435604      | RA 37L079Z712                            | 1.000 ea |
| 36FN3000C02SP | EXFN, PLASTIC, 5.25 OD, 1.175 ID         | 1.000 ea |
| HW3200A01     | 3/8-16X3/4 EYEBOLT WELDED F/S            | 1.000 ea |
| 37CB3006      | 37 CB CASTING W/1.38 LEAD HOLE @ 6:00    | 1.000 ea |
| 37GS1000SP    | GASKET, CONDUIT BOX STD., .06 THICK LEXI | 1.000 ea |
| 51XW2520A12   | .25-20 X .75, TAPTITE II, HEX WSHR SLTD  | 2.000 ea |
| 11XW1032G06   | 10-32 X .38, TAPTITE II, HEX WSHR SLTD U | 1.000 ea |
| 37EP3101A29   | FR ENDPLATE, FOR ROUTING PURPOSES        | 1.000 ea |
| HW4500A01     | 1641B(ALEMITE)400 UNIV, GREASE FITT      | 1.000 ea |
| HW4500A17     | 317400 ALEMITE GREASE RELIEF             | 1.000 ea |
| HW5100A06     | W2420-025 WVY WSHR (WB)                  | 1.000 ea |
| 37EP3401T11   | EP PU ENCL 309 BRG W/GRSR & RELIEF       | 1.000 ea |
| HW4500A01     | 1641B(ALEMITE)400 UNIV, GREASE FITT      | 1.000 ea |
| HW4500A17     | 317400 ALEMITE GREASE RELIEF             | 1.000 ea |
| 10XN2520A36   | 1/4-20X 2 1/4 HEX HD X                   | 4.000 ea |
| HW1001A25     | LOCKWASHER 1/4, ZINC PLT .493 OD, .255 I | 4.000 ea |
| XY3118A12     | 5/16-18 HEX NUT DIRECTIONAL SERRATION    | 4.000 ea |
| 07FH4007SP    | PRIMED                                   | 1.000 ea |
| 51XW1032A06   | 10-32 X .38, TAPTITE II, HEX WSHR SLTD S | 3.000 ea |
| 37CB4516      | LIPPED LID FOR 37 FRAME NEC KOBX         | 1.000 ea |
| 37GS1008      | 37 GS FOR CB LID - LEXIDE                | 1.000 ea |
| 51XW0832A07   | 8-32 X .44, TAPTITE II, HEX WSHR SLTD SE | 4.000 ea |
| HW4600B67     | V-RING SLINGER 1.770 X 2.170 X .28 VITON | 1.000 ea |
| 80XN1032J06   | 10-32 X 3/8 SET SCREW, HEX SOC, CUP PT   | 1.000 ea |
| HW2501E22     | KEY, 1/4 SQ X 2.500                      | 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 |
| MJ1000A02     | GREASE, POLYREX EM EXXON                 | 0.050 lb |
| 51XB1214A20   | 12-14X1.25 HWSSLD SERTYB                 | 1.000 ea |
| MG1050Y01     | CELEROL BALDOR GOLD *5 GALLON BUCKET*    | 0.028 ga |

|            |                                          |          |
|------------|------------------------------------------|----------|
| HA3104A14  | THRUBOLT- 5/16-18 X12.125(OHIO)          | 4.000 ea |
| LC0005     | CONN.DIA.,TY M,9-LD,DUAL VOLT,REVERSING  | 1.000 ea |
| NP3441LUA  | AL SUPER-E VPWM INV RDY,UL EEV,NEMA PREM | 1.000 ea |
| G0PA1000   | PKG GRP, PRINT PK1026A06                 | 1.000 ea |
| PK3085X    | FOAM SHAFT SUPPORT PRECUT 4-1/4 X 6-3/4  | 1.000 ea |
| MN416A01   | TAG-INSTAL-MAINT no wire (2500 bx)11/25  | 1.000 ea |
| LB1624     | COMBINED WARNING LABEL, ISO/ANSI PICTOGR | 1.000 ea |
| PE-0000001 | ZRTG PE ASSEMBLY                         | 1.000 ea |

**AC Induction Motor Performance Data**

Record # 115764

Typical performance - not guaranteed values

| Winding: 37WGZ712-R001 |    |           | Type: 3728M                              |                     | Enclosure: TEFC         |            |          |
|------------------------|----|-----------|------------------------------------------|---------------------|-------------------------|------------|----------|
| Nameplate Data         |    |           | 460 V, 60 Hz:<br>High Voltage Connection |                     |                         |            |          |
| Rated Output (HP)      |    | 10        | Full Load Torque                         |                     | 15 LB-FT                |            |          |
| Volts                  |    | 230/460   | Start Configuration                      |                     | direct on line          |            |          |
| Full Load Amps         |    | 24.1/12   | Breakdown Torque                         |                     | 58.7 LB-FT              |            |          |
| R.P.M.                 |    | 3490      | Pull-up Torque                           |                     | 24.8 LB-FT              |            |          |
| Hz                     | 60 | Phase     | 3                                        | Locked-rotor Torque |                         | 27.4 LB-FT |          |
| NEMA Design Code       |    | B         | KVA Code                                 | G                   | Starting Current        |            | 77.5 A   |
| Service Factor (S.F.)  |    | 1.15      | No-load Current                          |                     | 4.12 A                  |            |          |
| NEMA Nom. Eff.         |    | 90.2      | Power Factor                             | 85                  | Line-line Res. @ 25°C   |            | 1.0708 Ω |
| Rating - Duty          |    | 40C       | AMB-CONT                                 |                     | Temp. Rise @ Rated Load |            | 81°C     |
| S.F. Amps              |    | 27.6/13.8 | Temp. Rise @ S.F. Load                   |                     | 104°C                   |            |          |
|                        |    |           | Locked-rotor Power Factor                |                     | 34.2                    |            |          |

**Load Characteristics 460 V, 60 Hz, 10 HP**

| % of Rated Load | 25     | 50     | 75     | 100    | 125    | 150    | S.F. |
|-----------------|--------|--------|--------|--------|--------|--------|------|
| Power Factor    | 52     | 75     | 83     | 87     | 88     | 89     | 88   |
| Efficiency      | 88.3   | 91.6   | 91.6   | 90.6   | 89     | 87.1   | 89.6 |
| Speed           | 3572.3 | 3544.9 | 3515.4 | 3482.5 | 3445.4 | 3404.5 | 3460 |
| Line amperes    | 4.96   | 6.75   | 9.13   | 11.8   | 14.8   | 18.1   | 13.6 |

ABB Motors and Mechanical Inc.

WINDING # 37WGZ712

Typical performance - not guaranteed values.

10 HP 3 PH 60 HZ 3490 RPM 460 V 3728M

TORQUES (LB-FT) : PO=58.7 PU=24.8 LR=27.4 LRA=77.5





