

# ABB BALDOR RELIANCE III

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## Customer information packet

JMEWDM3555T

2HP, 3490RPM, 3PH, 60HZ, 145JM, 3526M, TEFC, F1

Class - None

Division - Not Applicable

**Specifications**

|                                       |                                                             |
|---------------------------------------|-------------------------------------------------------------|
| <b>Enclosure</b>                      | TEFC                                                        |
| <b>Frame</b>                          | 145JM                                                       |
| <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>             | 2.000 HP @ 60 HZ                                            |
| <b>Phase</b>                          | 3                                                           |
| <b>Synchronous Speed @ Frequency</b>  | 3600 RPM @ 60 HZ                                            |
| <b>Voltage @ Frequency</b>            | 208.0 V @ 60 HZ<br>230.0 V @ 60 HZ<br>460.0 V @ 60 HZ       |
| <b>Agency Approvals</b>               | CSA EEV<br>CSA<br>UR                                        |
| <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>              | 2.500 A @ 460.0 V<br>5.000 A @ 230.0 V<br>5.300 A @ 208.0 V |
| <b>Design Code</b>                    | B                                                           |
| <b>Drip Cover</b>                     | No Drip Cover                                               |
| <b>Duty Rating</b>                    | CONT                                                        |
| <b>Efficiency @ 100% Load</b>         | 85.5 %                                                      |
| <b>Electrically Isolated Bearing</b>  | Not Electrically Isolated                                   |
| <b>Feedback Device</b>                | NO FEEDBACK                                                 |
| <b>Front Face Code</b>                | Standard                                                    |

**Part Detail**

|                     |            |
|---------------------|------------|
| <b>Revision</b>     | P          |
| <b>Type</b>         | AC         |
| <b>Mech. spec.</b>  | 35TT937    |
| <b>Base</b>         |            |
| <b>Status</b>       | PRD/A      |
| <b>Elec. spec.</b>  | 35WGM774   |
| <b>Layout</b>       | 35LYTT937  |
| <b>Eff. date</b>    | 01-17-2025 |
| <b>CD Diagram</b>   | CD0005     |
| <b>Poles</b>        | 02         |
| <b>Leads</b>        | 9#18       |
| <b>Proprietary</b>  | False      |
| <b>Created date</b> | 12-04-2014 |

|                               |                    |
|-------------------------------|--------------------|
| Front Shaft Indicator         | None               |
| Heater Indicator              | No Heater          |
| High Voltage Full Load Amps   | 2.5 a              |
| Insulation Class              | F                  |
| Inverter Code                 | Inverter Ready     |
| KVA Code                      | M                  |
| Lifting Lugs                  | No Lifting Lugs    |
| Locked Bearing Indicator      | Locked Bearing     |
| Motor Lead Exit               | Ko Box             |
| Motor Lead Quantity/Wire Size | 9 @ 18 AWG         |
| Motor Lead Termination        | Flying Leads       |
| Motor Standards               | NEMA               |
| Motor Type                    | 3526M              |
| Mounting Arrangement          | F1                 |
| Number of Poles               | 2                  |
| Overall Length                | 15.43 IN           |
| Power Factor                  | 88                 |
| Product Family                | Wash Down          |
| Pulley End Bearing Type       | Ball               |
| Pulley Face Code              | C-Face             |
| Pulley Shaft Indicator        | Tapped & Key       |
| Rodent Screen                 | None               |
| RoHS Status                   | ROHS COMPLIANT     |
| Service Factor                | 1.15               |
| Shaft Diameter                | 0.875 IN           |
| Shaft Extension Location      | Pulley End         |
| Shaft Ground Indicator        | No Shaft Grounding |
| Shaft Rotation                | Reversible         |
| Shaft Slinger Indicator       | Shaft Slinger      |
| Speed                         | 3490 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                |

**Nameplate**

| NP1669L      |                        |      |     |      |   |  |  |       |   |  |  |
|--------------|------------------------|------|-----|------|---|--|--|-------|---|--|--|
| CAT.NO.      | JMEWDM3555T            |      |     |      |   |  |  |       |   |  |  |
| SPEC.        | 35TT937M774G2          |      |     |      |   |  |  |       |   |  |  |
| HP           | 2                      |      |     |      |   |  |  |       |   |  |  |
| VOLTS        | 208-230/460            |      |     |      |   |  |  |       |   |  |  |
| AMP          | 5.3-5/2.5              |      |     |      |   |  |  |       |   |  |  |
| RPM          | 3490                   |      |     |      |   |  |  |       |   |  |  |
| FRAME        | 143JM                  |      | HZ  | 60   |   |  |  | PH    | 3 |  |  |
| SER.F.       | 1.15                   | CODE | M   | DES  | B |  |  | CLASS | F |  |  |
| NEMA-NOM-EFF | 85.5                   | PF   | 88  |      |   |  |  |       |   |  |  |
| RATING       | 40C AMB-CONT           |      |     |      |   |  |  |       |   |  |  |
| CC           | 010A                   |      |     |      |   |  |  |       |   |  |  |
| DE           | 6206                   |      | ODE | 6203 |   |  |  |       |   |  |  |
| ENCL         | TEFC                   | SN   |     |      |   |  |  |       |   |  |  |
| BLANK        | 20:1CT, 20:1VT, 1.00SF |      |     |      |   |  |  |       |   |  |  |

**Parts List**

| Part number   | Description                              | Quantity |
|---------------|------------------------------------------|----------|
| SA290681      | SA 35TT937M774G2                         | 1.000 ea |
| RA276837      | RA 35TT937M774G2                         | 1.000 ea |
| NS2512A01     | INSULATOR, CONDUIT BOX X                 | 1.000 ea |
| 35CB3010A01G  | 35 CB .75 NPT @ 6:00 (GRAY)              | 1.000 ea |
| 35GS1039      | 05 MOLDED GASKET W/LIP, 1.12 LEAD HOLE,  | 1.000 ea |
| 51XB1016A08   | 10-16X 1/2HXWSSLD SERTYB                 | 2.000 ea |
| 11XW1032G06   | 10-32 X .38, TAPTITE II, HEX WSHR SLTD U | 1.000 ea |
| 35EP3122B00W  | MASTER ODE,203 BRG,.683SH,.125NPT DRNS,F | 1.000 ea |
| HW4072A01     | BLACK DRAIN PLUG FOR .125 NPT            | 3.000 ea |
| HW4032A01     | BLACK DRAIN PLUG FOR WASH DOWN MOTORS    | 3.000 ea |
| HW5100A03     | WAVY WASHER (W1543-017)                  | 1.000 ea |
| 35EP3401T07MW | PU EP FOR SEAL W/"O" DRILLS & NO GRS, W/ | 1.000 ea |
| HW4600B50     | SEAL 1.156 X 1.874 X 0.250 SINGLE LIP DB | 1.000 ea |
| 12XN1032S16   | 10-32X1 HEX HD SLTD STAINLESS STEEL      | 2.000 ea |
| 35FH4005A32   | IEC FH NO GRSR W/3 HOLES - PRIMED        | 1.000 ea |
| 11XW1032S06   | 10-32 X .38, TAPTITE II, HEX WSHR SLTD U | 3.000 ea |
| HW4600B39SP   | V-RING SLINGER 0.550 X 0.790 X .18 VITON | 1.000 ea |
| HW4600B36SP   | V-RING SLINGER 1.188 X 1.380 X .24 VITON | 1.000 ea |
| 35CB4522      | 35 LIPPED CB LID PRIMED                  | 1.000 ea |
| 35GS1030A02   | 35 GS FOR CB LID - WHITE NEOPRENE        | 1.000 ea |
| 59XW0832S07   | TAPTITE II,HEX WSHR UNSLTD SER,410 S.S., | 4.000 ea |
| HW2502D13     | SS KEY, 3/16 SQ X 1.375                  | 1.000 ea |
| HA7000A01     | KEY RETAINER 7/8" DIA SHAFT              | 1.000 ea |
| 85XU0407S04   | 4X1/4 U DRIVE PIN STAINLESS              | 2.000 ea |
| MJ5001A27     | 32220KN GRAY SEALER *MIN BUY 4 QTS=1GAL  | 0.001 qt |
| LB1164        | LABEL,WARNING AND DRAIN                  | 1.000 ea |
| HA5027A02     | HA4054 T-DRAIN X2 BAGGED WITH LABEL      | 1.000 ea |
| MJ1000A02     | GREASE, POLYREX EM EXXON                 | 0.050 lb |
| 34FN3002B01   | EXTERNAL FAN, PLASTIC, .637/.639 HUB W/  | 1.000 ea |
| 51XB1214A16   | 12-14X1.00 HXWSSLD SERTYB                | 1.000 ea |
| MG1025W01     | WILKOFAS, 781.01, SIGNAL WHITE #9003     | 0.017 ga |

|            |                                         |          |
|------------|-----------------------------------------|----------|
| MG1500Y02  | WILKOPON PRIMER YELLOW                  | 0.017 ga |
| HA3100S07  | THRUBOLT 10-32 X 8.375 SS               | 4.000 ea |
| MN416A01   | TAG-INSTAL-MAINT no wire (2500 bx)11/25 | 1.000 ea |
| LC0005     | CONN.DIA.,TY M,9-LD,DUAL VOLT,REVERSING | 1.000 ea |
| NP1669L    | SS WD SUPER-E UL PREM REV MTG           | 1.000 ea |
| 36PA1001   | PKG GRP, PRINT PK1017A07                | 1.000 ea |
| FE-0000001 | ZRTG FE ASSEMBLY                        | 1.000 ea |

**AC Induction Motor Performance Data**

Record # 31837

Typical performance - not guaranteed values

| Winding: 35WGM774-R001 |    |              | Type: 3526M                              |                           | Enclosure: TEFC       |               |          |
|------------------------|----|--------------|------------------------------------------|---------------------------|-----------------------|---------------|----------|
| Nameplate Data         |    |              | 460 V, 60 Hz:<br>High Voltage Connection |                           |                       |               |          |
| Rated Output (HP)      |    | 2            | Full Load Torque                         |                           | 2.98 LB-FT            |               |          |
| Volts                  |    | 208-230/460  | Start Configuration                      |                           | direct on line        |               |          |
| Full Load Amps         |    | 5.3-5/2.5    | Breakdown Torque                         |                           | 14.2 LB-FT            |               |          |
| R.P.M.                 |    | 3490         | Pull-up Torque                           |                           | 6.33 LB-FT            |               |          |
| Hz                     | 60 | Phase        | 3                                        | Locked-rotor Torque       |                       | 11.2 LB-FT    |          |
| NEMA Design Code       |    | B            | KVA Code                                 | M                         | Starting Current      |               | 25.9 A   |
| Service Factor (S.F.)  |    | 1.15         |                                          | No-load Current           |                       | 0.912 A       |          |
| NEMA Nom. Eff.         |    | 85.5         | Power Factor                             | 88                        | Line-line Res. @ 25°C |               | 6.9119 Ω |
| Rating - Duty          |    | 40C AMB-CONT |                                          | Temp. Rise @ Rated Load   |                       | 44°C          |          |
| S.F. Amps              |    |              |                                          | Temp. Rise @ S.F. Load    |                       | 52°C          |          |
|                        |    |              |                                          | Locked-rotor Power Factor |                       | 50            |          |
|                        |    |              |                                          | Rotor inertia             |                       | 0.0719 LB-FT2 |          |

**Load Characteristics 460 V, 60 Hz, 2 HP**

| % of Rated Load | 25     | 50     | 75     | 100    | 125    | 150    | S.F. |
|-----------------|--------|--------|--------|--------|--------|--------|------|
| Power Factor    | 55     | 75     | 84     | 88     | 90     | 91     | 89   |
| Efficiency      | 74.3   | 83.5   | 85.9   | 86.4   | 85.9   | 84.8   | 86.1 |
| Speed           | 3571.7 | 3546.5 | 3520.2 | 3492.1 | 3460.7 | 3425.5 | 3473 |
| Line amperes    | 1.1    | 1.47   | 1.93   | 2.44   | 3      | 3.61   | 2.78 |



ABB Motors and Mechanical Inc.

WINDING # 35WGM774

Typical performance - not guaranteed values.

2 HP 3 PH 60 HZ 3490 RPM 460 V 3526M

TORQUES (LB-FT): PO=14.2 PU=6.33 LR=11.2 LRA=25.9





