

# ABB BALDOR RELIANCE III

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## Customer information packet

### EJMM3555T-G

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

Class - None

Division - Not Applicable

**Specifications**

|                                |                                                             |
|--------------------------------|-------------------------------------------------------------|
| Enclosure                      | TEFC                                                        |
| Frame                          | 145JM                                                       |
| Frame Material                 | Steel                                                       |
| Frequency                      | 60.00 Hz                                                    |
| Haz Area Class and Group       | None                                                        |
| Haz Area Division              | Not Applicable                                              |
| Motor Letter Type              | Three Phase                                                 |
| Output @ Frequency             | 2.000 HP @ 60 HZ                                            |
| Phase                          | 3                                                           |
| Synchronous Speed @ Frequency  | 3600 RPM @ 60 HZ                                            |
| Voltage @ Frequency            | 230.0 V @ 60 HZ<br>460.0 V @ 60 HZ                          |
| 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              | 2.500 A @ 460.0 V<br>5.000 A @ 230.0 V<br>5.300 A @ 208.0 V |
| Design Code                    | B                                                           |
| Drip Cover                     | No Drip Cover                                               |
| Duty Rating                    | CONT                                                        |
| Efficiency @ 100% Load         | 85.5 %                                                      |
| Electrically Isolated Bearing  | Not Electrically Isolated                                   |
| Feedback Device                | NO FEEDBACK                                                 |
| Front Shaft Indicator          | None                                                        |
| Heater Indicator               | No Heater                                                   |
| High Voltage Full Load Amps    | 2.5 a                                                       |
| Insulation Class               | F                                                           |
| Inverter Code                  | Inverter Ready                                              |

**Part Detail**

|              |            |
|--------------|------------|
| Revision     | K          |
| Type         | AC         |
| Mech. spec.  | 35E1603    |
| Base         |            |
| Status       | PRD/A      |
| Elec. spec.  | 35WGM774   |
| Layout       | 35LYE1603  |
| Eff. date    | 04-15-2026 |
| CD Diagram   | CD0005     |
| Poles        | 02         |
| Leads        | 9#18       |
| Proprietary  | False      |
| Created date | 04-02-2018 |

|                                      |                     |
|--------------------------------------|---------------------|
| <b>KVA Code</b>                      | <b>M</b>            |
| <b>Lifting Lugs</b>                  | No Lifting Lugs     |
| <b>Locked Bearing Indicator</b>      | Locked Bearing      |
| <b>Motor Lead Quantity/Wire Size</b> | 9 @ 18 AWG          |
| <b>Motor Lead Termination</b>        | Flying Leads        |
| <b>Motor Standards</b>               | NEMA                |
| <b>Motor Type</b>                    | 3526M               |
| <b>Mounting Arrangement</b>          | F1                  |
| <b>Number of Poles</b>               | 2                   |
| <b>Overall Length</b>                | 15.41 IN            |
| <b>Power Factor</b>                  | 88                  |
| <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>                | 0.875 IN            |
| <b>Shaft Ground Indicator</b>        | Shaft Grounding     |
| <b>Shaft Rotation</b>                | Reversible          |
| <b>Shaft Slinger Indicator</b>       | Shaft Slinger       |
| <b>Speed</b>                         | 3490 rpm            |
| <b>Speed Code</b>                    | Single Speed        |
| <b>Starting Method</b>               | Direct on line      |
| <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                  |               |     |      |      |     |   |       |   |       |
|----------------------------|---------------|-----|------|------|-----|---|-------|---|-------|
| CAT.NO.                    | EJMM3555T-G   |     |      |      |     |   |       |   |       |
| SPEC                       | 35E1603M774G1 |     |      |      |     |   |       |   |       |
| HP                         | 2             |     |      |      |     |   |       |   |       |
| VOLTS                      | 208-230/460   |     |      |      |     |   |       |   |       |
| AMPS                       | 5.3-5/2.5     |     |      |      |     |   |       |   |       |
| RPM                        | 3490          |     |      |      |     |   |       |   |       |
| FRAME                      | 145JM         |     | HZ   | 60   |     |   | PH    | 3 |       |
| SF                         | 1.15          |     | CODE | M    | DES | B | CLASS | H |       |
| NEMA NOM. EFF              | 85.5          |     | PF   | 88   |     |   |       |   |       |
| RATING                     | 40C AMB-CONT  |     |      |      |     |   |       |   |       |
| CC                         | 010A          |     |      |      |     |   |       |   |       |
| ENCL                       | TEFC          | SER |      |      |     |   |       |   |       |
| DE                         | 6206          |     | ODE  | 6203 |     |   |       |   |       |
| VPWM INVERTER READY        |               |     |      |      |     |   |       |   |       |
| CT6-60H(10:1)VT3-60H(20:1  |               |     |      |      |     |   |       |   |       |
| 50Hz 2HP 190/380V 5.8/2.9A |               |     |      |      |     |   |       |   | SF1.0 |

**AC Induction Motor Performance Data**

Record # 36069

Typical performance - not guaranteed values

| Winding: 35WGM774-R018 |    |              | 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





