

# ABB BALDOR RELIANCE III

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## Customer information packet

### EM3555

2HP, 3490RPM, 3PH, 60HZ, 56, 3526M, TEFC, F1, N

Class - None

Division - Not Applicable

**Specifications**

|                                       |                                                             |
|---------------------------------------|-------------------------------------------------------------|
| <b>Enclosure</b>                      | TEFC                                                        |
| <b>Frame</b>                          | 56                                                          |
| <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>            | 230.0 V @ 60 HZ<br>460.0 V @ 60 HZ                          |
| <b>Agency Approvals</b>               | CURUSEEV<br>NEMA PREMIUM                                    |
| <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>              | 5.300 A @ 208.0 V<br>5.000 A @ 230.0 V<br>2.500 A @ 460.0 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                                                    |
| <b>Front Shaft Indicator</b>          | None                                                        |
| <b>Heater Indicator</b>               | No Heater                                                   |

**Part Detail**

|                     |            |
|---------------------|------------|
| <b>Revision</b>     | T          |
| <b>Type</b>         | AC         |
| <b>Mech. spec.</b>  | 35T696     |
| <b>Base</b>         |            |
| <b>Status</b>       | PRD/A      |
| <b>Elec. spec.</b>  | 35WGM774   |
| <b>Layout</b>       | 35LYT696   |
| <b>Eff. date</b>    | 09-10-2026 |
| <b>CD Diagram</b>   | CD0005     |
| <b>Poles</b>        | 02         |
| <b>Leads</b>        | 9#18       |
| <b>Proprietary</b>  | False      |
| <b>Created date</b> | 07-19-2010 |

|                               |                     |
|-------------------------------|---------------------|
| 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      | No 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                | 13.23 IN            |
| Power Factor                  | 88                  |
| Product Family                | General Purpose     |
| Pulley End Bearing Type       | Ball                |
| Pulley Face Code              | Standard            |
| Pulley Shaft Indicator        | Standard            |
| Rodent Screen                 | None                |
| Service Factor                | 1.15                |
| Shaft Diameter                | 0.625 IN            |
| Shaft Extension Location      | Pulley End          |
| Shaft Ground Indicator        | No Shaft Grounding  |
| Shaft Rotation                | Reversible          |
| Shaft Slinger Indicator       | No 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**

| NP3441LUA                  |              |     |      |      |     |   |       |   |       |
|----------------------------|--------------|-----|------|------|-----|---|-------|---|-------|
| CAT.NO.                    | EM3555       |     |      |      |     |   |       |   |       |
| SPEC                       | 35T696M774E7 |     |      |      |     |   |       |   |       |
| HP                         | 2            |     |      |      |     |   |       |   |       |
| VOLTS                      | 230/460      |     |      |      |     |   |       |   |       |
| AMPS                       | 5/2.5        |     |      |      |     |   |       |   |       |
| RPM                        | 3490         |     |      |      |     |   |       |   |       |
| FRAME                      | 56           |     | HZ   | 60   |     |   | PH    | 3 |       |
| SF                         | 1.15         |     | CODE | M    | DES | B | CLASS | F |       |
| NEMA NOM. EFF              | 85.5         |     | PF   | 88   |     |   |       |   |       |
| RATING                     | 40C AMB-CONT |     |      |      |     |   |       |   |       |
| CC                         | 010A         |     |      |      |     |   |       |   |       |
| ENCL                       | TEFC         | SER |      |      |     |   |       |   |       |
| DE                         | 6205         |     | ODE  | 6203 |     |   |       |   |       |
| VPWM INVERTER READY        | SFA 5.6/2.8  |     |      |      |     |   |       |   |       |
| CT6-60H(10:1)VT3-60H(20:1  |              |     |      |      |     |   |       |   |       |
| 50Hz 2HP 190/380V 5.8/2.9A |              |     |      |      |     |   |       |   | SF1.0 |

**Accessories**

| Part number   | Description  | Multiplier |
|---------------|--------------|------------|
| 35-8762       | C FACE KIT   | A8         |
| 35EP1604A01SP | D-FLANGE KIT |            |

**AC Induction Motor Performance Data**

Record # 52479

Typical performance - not guaranteed values

| Winding: 35WGM774-R004 |    |              | 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                  |    | 230/460      | Start Configuration                      |                           | direct on line        |               |        |
| Full Load Amps         |    | 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 |               | 6.88 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 |                       | 49.9          |        |
|                        |    |              |                                          | 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      | 73.4 | 83.6 | 85.8 | 86.3 | 85.8 | 84.7 | 86   |
| Speed           | 3572 | 3547 | 3520 | 3492 | 3461 | 3426 | 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





