

# ABB BALDOR RELIANCE III

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## Customer information packet

### EJPM3558T

2HP, 1750RPM, 3PH, 60HZ, 145JP, 3526M, TEFC, F1

Class - None

Division - Not Applicable

**Specifications**

|                                       |                                                             |
|---------------------------------------|-------------------------------------------------------------|
| <b>Enclosure</b>                      | TEFC                                                        |
| <b>Frame</b>                          | 145JP                                                       |
| <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>  | 1800 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>              | 2.600 A @ 460.0 V<br>5.200 A @ 230.0 V<br>5.800 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>         | 86.5 %                                                      |
| <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>    | 2.6 a                                                       |

**Part Detail**

|                     |            |
|---------------------|------------|
| <b>Revision</b>     | -          |
| <b>Type</b>         | AC         |
| <b>Mech. spec.</b>  | 35E972     |
| <b>Base</b>         |            |
| <b>Status</b>       | PRD/A      |
| <b>Elec. spec.</b>  | 35WGZ165   |
| <b>Layout</b>       | 35LYE972   |
| <b>Eff. date</b>    | 02-19-2026 |
| <b>CD Diagram</b>   | CD0005     |
| <b>Poles</b>        | 04         |
| <b>Leads</b>        | 9#18       |
| <b>Proprietary</b>  | False      |
| <b>Created date</b> | 11-04-2025 |

|                                      |                     |
|--------------------------------------|---------------------|
| <b>Insulation Class</b>              | F                   |
| <b>Inverter Code</b>                 | Inverter Ready      |
| <b>KVA Code</b>                      | K                   |
| <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>               | 4                   |
| <b>Overall Length</b>                | 18.47 IN            |
| <b>Power Factor</b>                  | 82                  |
| <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>Service Factor</b>                | 1.15                |
| <b>Shaft Diameter</b>                | 0.875 IN            |
| <b>Shaft Ground Indicator</b>        | No Shaft Grounding  |
| <b>Shaft Rotation</b>                | Reversible          |
| <b>Shaft Slinger Indicator</b>       | Shaft Slinger       |
| <b>Speed</b>                         | 1750 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>                   | EJPM3558T                  |              |            |            |   |              |       |  |  |
| <b>SPEC</b>                      | 35E972Z165                 |              |            |            |   |              |       |  |  |
| <b>HP</b>                        | 2                          |              |            |            |   |              |       |  |  |
| <b>VOLTS</b>                     | 230/460                    |              |            |            |   |              |       |  |  |
| <b>AMPS</b>                      | 5.6/2.8                    |              |            |            |   |              |       |  |  |
| <b>RPM</b>                       | 1760                       |              |            |            |   |              |       |  |  |
| <b>FRAME</b>                     | 145JP                      |              | <b>HZ</b>  | 60         |   | <b>PH</b>    | 3     |  |  |
| <b>SF</b>                        | 1.15                       | <b>CODE</b>  | K          | <b>DES</b> | B | <b>CLASS</b> | F     |  |  |
| <b>NEMA NOM. EFF</b>             | 86.5                       | <b>PF</b>    | 78         |            |   |              |       |  |  |
| <b>RATING</b>                    | 40C AMB-CONT               |              |            |            |   |              |       |  |  |
| <b>CC</b>                        | 010A                       |              |            |            |   |              |       |  |  |
| <b>ENCL</b>                      | TEFC                       | <b>SER</b>   |            |            |   |              |       |  |  |
| <b>DE</b>                        | 6206                       |              | <b>ODE</b> | 6203       |   |              |       |  |  |
| <b>VPWM INVERTER READY</b>       |                            | SFA 6.3/3.15 |            |            |   |              |       |  |  |
| <b>CT6-60H(10:1)VT3-60H(20:1</b> |                            |              |            |            |   |              |       |  |  |
|                                  | 2HP 50HZ 190/380V 6.6/3.3A |              |            |            |   |              | SF1.0 |  |  |

**AC Induction Motor Performance Data**

Record # 114535

Typical performance - not guaranteed values

| Winding: 35WGZ165-R001 |    |         | Type: 3526M                              |                     | Enclosure: TEFC         |            |          |
|------------------------|----|---------|------------------------------------------|---------------------|-------------------------|------------|----------|
|                        |    |         |                                          |                     |                         |            |          |
| Nameplate Data         |    |         | 460 V, 60 Hz:<br>High Voltage Connection |                     |                         |            |          |
| Rated Output (HP)      |    | 2       | Full Load Torque                         |                     | 5.979 LB-FT             |            |          |
| Volts                  |    | 230/460 | Start Configuration                      |                     | direct on line          |            |          |
| Full Load Amps         |    | 5.2/2.6 | Breakdown Torque                         |                     | 18.4 LB-FT              |            |          |
| R.P.M.                 |    | 1750    | Pull-up Torque                           |                     | 13.7 LB-FT              |            |          |
| Hz                     | 60 | Phase   | 3                                        | Locked-rotor Torque |                         | 14.5 LB-FT |          |
| NEMA Design Code       |    | B       | KVA Code                                 | K                   | Starting Current        |            | 17.9 A   |
| Service Factor (S.F.)  |    | 1.15    | No-load Current                          |                     | 1.24 A                  |            |          |
| NEMA Nom. Eff.         |    | 86.5    | Power Factor                             | 82                  | Line-line Res. @ 25°C   |            | 10.857 Ω |
| Rating - Duty          |    | 40C     | AMB-CONT                                 |                     | Temp. Rise @ Rated Load |            | 59°C     |
| S.F. Amps              |    | 6/3     | Temp. Rise @ S.F. Load                   |                     | 75°C                    |            |          |
|                        |    |         | Locked-rotor Power Factor                |                     | 59.3                    |            |          |

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

| % of Rated Load | 25     | 50     | 75     | 100    | 125    | 150    | S.F. |
|-----------------|--------|--------|--------|--------|--------|--------|------|
| Power Factor    | 42     | 64     | 76     | 82     | 86     | 87     | 84   |
| Efficiency      | 82.7   | 87.6   | 87.8   | 86.6   | 84.6   | 82     | 85.4 |
| Speed           | 1788.4 | 1776.9 | 1763.5 | 1748.9 | 1731.7 | 1711.8 | 1739 |
| Line amperes    | 1.35   | 1.65   | 2.09   | 2.61   | 3.21   | 3.91   | 2.97 |

ABB Motors and Mechanical Inc.

WINDING # 35WGZ165

Typical performance - not guaranteed values.

2 HP 3 PH 60 HZ 1750 RPM 460 V 3526M

TORQUES (LB-FT): PO=18.4 PU=13.7 LR=14.5 LRA=17.9





