

# ABB BALDOR RELIANCE III

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## Customer information packet

### VEJMM3211T

3HP, 1760RPM, 3PH, 60HZ, 182JM, 3628M, ODP, F1

Class - None

Division - Not Applicable

**Specifications**

|                                       |                                                             |
|---------------------------------------|-------------------------------------------------------------|
| <b>Enclosure</b>                      | ODP                                                         |
| <b>Frame</b>                          | 182JM                                                       |
| <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>             | 3.000 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>                 | No Mounting                                                 |
| <b>Bearing Grease Type</b>            | Polyrex EM (-20F +300F)                                     |
| <b>Blower</b>                         | None                                                        |
| <b>Current @ Voltage</b>              | 4.300 A @ 460.0 V<br>8.500 A @ 208.0 V<br>8.600 A @ 230.0 V |
| <b>Design Code</b>                    | B                                                           |
| <b>Drip Cover</b>                     | Drip Cover                                                  |
| <b>Duty Rating</b>                    | CONT                                                        |
| <b>Efficiency @ 100% Load</b>         | 89.5 %                                                      |
| <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>    | 4.3 a                                                       |

**Part Detail**

|                     |            |
|---------------------|------------|
| <b>Revision</b>     | A          |
| <b>Type</b>         | AC         |
| <b>Mech. spec.</b>  | 36Q830     |
| <b>Base</b>         |            |
| <b>Status</b>       | PRD/A      |
| <b>Elec. spec.</b>  | 36WGZ649   |
| <b>Layout</b>       | 36LYQ830   |
| <b>Eff. date</b>    | 01-12-2026 |
| <b>CD Diagram</b>   | CD0005     |
| <b>Poles</b>        | 04         |
| <b>Leads</b>        | 9#16       |
| <b>Proprietary</b>  | False      |
| <b>Created date</b> | 11-05-2025 |

|                                      |                     |
|--------------------------------------|---------------------|
| <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 @ 16 AWG          |
| <b>Motor Lead Termination</b>        | Flying Leads        |
| <b>Motor Standards</b>               | NEMA                |
| <b>Motor Type</b>                    | 3628M               |
| <b>Mounting Arrangement</b>          | F1                  |
| <b>Number of Poles</b>               | 4                   |
| <b>Overall Length</b>                | 18.04 IN            |
| <b>Power Factor</b>                  | 78                  |
| <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>                 | Included            |
| <b>RoHS Status</b>                   | ROHS COMPLIANT      |
| <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>                         | 1760 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**

| NP3553LUA                 |                            |             |     |      |   |       |    |   |       |
|---------------------------|----------------------------|-------------|-----|------|---|-------|----|---|-------|
| CAT.NO.                   | VEJMM3211T                 |             |     |      |   |       |    |   |       |
| SPEC.                     | 36Q830Z649                 |             |     |      |   |       |    |   |       |
| HP                        | 3                          |             |     |      |   |       |    |   |       |
| VOLTS                     | 230/460                    |             |     |      |   |       |    |   |       |
| AMPS                      | 8.6/4.3                    |             |     |      |   |       |    |   |       |
| RPM                       | 1760                       |             |     |      |   |       |    |   |       |
| FRAME                     | 182JM                      |             | HZ  | 60   |   |       | PH | 3 |       |
| SF                        | 1.15                       | CODE        | K   | DES  | B | CLASS | F  |   |       |
| NEMA NOM. EFF             | 89.5                       | PF          | 78  |      |   |       |    |   |       |
| RATING                    | 40C AMB-CONT               |             |     |      |   |       |    |   |       |
| CC                        | 010A                       |             |     |      |   |       |    |   |       |
| ENCL                      | ODP                        | SN          |     |      |   |       |    |   |       |
| DE                        | 6207                       |             | ODE | 6205 |   |       |    |   |       |
| VPWM INVERTER READY       |                            | SFA 9.6/4.8 |     |      |   |       |    |   |       |
| CT30-60(2:1) VT3-60(20:1) |                            |             |     |      |   |       |    |   |       |
| USABLE AT                 | 50HZ 3HP 190/380V 9.8/4.9A |             |     |      |   |       |    |   | SF1.0 |

**AC Induction Motor Performance Data**

Record # 115739

Typical performance - not guaranteed values

| Winding: 36WGZ649-R001 |  |         | Type: 3628M                              |  | Enclosure: OPSB |                           |            |
|------------------------|--|---------|------------------------------------------|--|-----------------|---------------------------|------------|
| Nameplate Data         |  |         | 460 V, 60 Hz:<br>High Voltage Connection |  |                 |                           |            |
| Rated Output (HP)      |  | 3       | Full Load Torque                         |  | 8.953 LB-FT     |                           |            |
| Volts                  |  | 230/460 | Start Configuration                      |  | direct on line  |                           |            |
| Full Load Amps         |  | 8.6/4.3 | Breakdown Torque                         |  | 35.1 LB-FT      |                           |            |
| R.P.M.                 |  | 1760    | Pull-up Torque                           |  | 19.1 LB-FT      |                           |            |
| Hz                     |  | 60      | Phase                                    |  | 3               | Locked-rotor Torque       | 21.2 LB-FT |
| NEMA Design Code       |  | B       | KVA Code                                 |  | K               | Starting Current          | 30.9 A     |
| Service Factor (S.F.)  |  | 1.15    |                                          |  |                 | No-load Current           | 2.49 A     |
| NEMA Nom. Eff.         |  | 89.5    | Power Factor                             |  | 78              | Line-line Res. @ 25°C     | 4.2111 Ω   |
| Rating - Duty          |  | 40C     | AMB-CONT                                 |  |                 | Temp. Rise @ Rated Load   | 25°C       |
| S.F. Amps              |  | 9.6/4.8 |                                          |  |                 | Temp. Rise @ S.F. Load    | 30°C       |
|                        |  |         |                                          |  |                 | Locked-rotor Power Factor | 44.1       |

**Load Characteristics 460 V, 60 Hz, 3 HP**

| % of Rated Load | 25     | 50   | 75     | 100    | 125    | 150  | S.F. |
|-----------------|--------|------|--------|--------|--------|------|------|
| Power Factor    | 32     | 52   | 66     | 73     | 78     | 81   | 76   |
| Efficiency      | 82.9   | 88.8 | 90.2   | 90.1   | 89.4   | 88.2 | 89.7 |
| Speed           | 1791.6 | 1783 | 1773.2 | 1763.4 | 1753.4 | 1742 | 1757 |
| Line amperes    | 2.65   | 3.04 | 3.59   | 4.26   | 5.03   | 5.89 | 4.72 |

ABB Motors and Mechanical Inc.

WINDING # 36WGZ649

Typical performance - not guaranteed values.

3 HP 3 PH 60 HZ 1760 RPM 460 V 3628M

TORQUES (LB-FT): PO=35.1 PU=19.1 LR=21.2 LRA=30.9





