

# ABB BALDOR RELIANCE III

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## Customer information packet

### CEWDBM3611T

3HP, 1764RPM, 3PH, 60HZ, 182TC, 3630M, TEFC, F1

Class - None

Division - Not Applicable

**Specifications**

|                                       |                                                             |
|---------------------------------------|-------------------------------------------------------------|
| <b>Enclosure</b>                      | TEFC                                                        |
| <b>Frame</b>                          | 182TC                                                       |
| <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>                 | Rigid                                                       |
| <b>Bearing Grease Type</b>            | Polyrex EM (-20F +300F)                                     |
| <b>Blower</b>                         | None                                                        |
| <b>Current @ Voltage</b>              | 4.160 A @ 460.0 V<br>8.320 A @ 230.0 V<br>8.800 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>         | 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>    | 4.2 a                                                       |

**Part Detail**

|                     |            |
|---------------------|------------|
| <b>Revision</b>     | C          |
| <b>Type</b>         | AC         |
| <b>Mech. spec.</b>  | 36G566     |
| <b>Base</b>         |            |
| <b>Status</b>       | PRD/A      |
| <b>Elec. spec.</b>  | 36WGZ650   |
| <b>Layout</b>       | 36LYG566   |
| <b>Eff. date</b>    | 04-21-2026 |
| <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>                    | 3630M               |
| <b>Mounting Arrangement</b>          | F1                  |
| <b>Number of Poles</b>               | 4                   |
| <b>Overall Length</b>                | 21.77 IN            |
| <b>Power Factor</b>                  | 74                  |
| <b>Product Family</b>                | Wash Down           |
| <b>Pulley End Bearing Type</b>       | Sealed Bearing      |
| <b>Pulley Face Code</b>              | Other               |
| <b>Pulley Shaft Indicator</b>        | Standard            |
| <b>Rodent Screen</b>                 | None                |
| <b>Service Factor</b>                | 1.15                |
| <b>Shaft Diameter</b>                | 1.125 IN            |
| <b>Shaft Ground Indicator</b>        | No Shaft Grounding  |
| <b>Shaft Rotation</b>                | Reversible          |
| <b>Shaft Slinger Indicator</b>       | Shaft Slinger       |
| <b>Speed</b>                         | 1764 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

| NP1669L      |               |      |     |      |   |       |    |   |  |
|--------------|---------------|------|-----|------|---|-------|----|---|--|
| CAT.NO.      | CEWDBM3611T   |      |     |      |   |       |    |   |  |
| SPEC.        | 36G566Z650    |      |     |      |   |       |    |   |  |
| HP           | 3             |      |     |      |   |       |    |   |  |
| VOLTS        | 230/460       |      |     |      |   |       |    |   |  |
| AMP          | 8.4/4.2       |      |     |      |   |       |    |   |  |
| RPM          | 1765          |      |     |      |   |       |    |   |  |
| FRAME        | 182TC         |      | HZ  | 60   |   |       | PH | 3 |  |
| SER.F.       | 1.15          | CODE | K   | DES  | B | CLASS |    | F |  |
| NEMA-NOM-EFF | 89.5          | PF   | 74  |      |   |       |    |   |  |
| RATING       | 40C AMB-CONT  |      |     |      |   |       |    |   |  |
| CC           | 010A          |      |     |      |   |       |    |   |  |
| DE           | 6206          |      | ODE | 6205 |   |       |    |   |  |
| ENCL         | TEFC          | SN   |     |      |   |       |    |   |  |
| BLANK        | SFA 9.28/4.64 |      |     |      |   |       |    |   |  |

**AC Induction Motor Performance Data**

Record # 115759

Typical performance - not guaranteed values

| Winding: 36WGZ650-R001 |      |              | Type: 3630M                              |  | Enclosure: TEFC |  |
|------------------------|------|--------------|------------------------------------------|--|-----------------|--|
| Nameplate Data         |      |              | 460 V, 60 Hz:<br>High Voltage Connection |  |                 |  |
| Rated Output (HP)      |      | 3            | Full Load Torque                         |  | 8.942 LB-FT     |  |
| Volts                  |      | 230/460      | Start Configuration                      |  | direct on line  |  |
| Full Load Amps         |      | 8.4/4.2      | Breakdown Torque                         |  | 38.2 LB-FT      |  |
| R.P.M.                 |      | 1765         | Pull-up Torque                           |  | 19.1 LB-FT      |  |
| Hz                     | 60   | Phase        | Locked-rotor Torque                      |  | 22.4 LB-FT      |  |
| NEMA Design Code       | B    | KVA Code     | Starting Current                         |  | 32.2 A          |  |
| Service Factor (S.F.)  |      | 1.15         | No-load Current                          |  | 2.38 A          |  |
| NEMA Nom. Eff.         | 89.5 | Power Factor | Line-line Res. @ 25°C                    |  | 3.8717 Ω        |  |
| Rating - Duty          |      | 40C AMB-CONT | Temp. Rise @ Rated Load                  |  | 46°C            |  |
| S.F. Amps              |      | 9.4/4.7      | Temp. Rise @ S.F. Load                   |  | 56°C            |  |
|                        |      |              | Locked-rotor Power Factor                |  | 42.6            |  |
|                        |      |              | Rotor inertia                            |  | 0.279 lb-ft²    |  |

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

| % of Rated Load | 25     | 50     | 75     | 100    | 125    | 150    | S.F. |
|-----------------|--------|--------|--------|--------|--------|--------|------|
| Power Factor    | 33     | 54     | 67     | 74     | 79     | 81     | 77   |
| Efficiency      | 82.2   | 88.4   | 89.8   | 89.8   | 89     | 87.9   | 89.3 |
| Speed           | 1790.7 | 1781.4 | 1771.4 | 1761.2 | 1749.9 | 1738.7 | 1754 |
| Line amperes    | 2.54   | 2.94   | 3.51   | 4.2    | 4.99   | 5.87   | 4.67 |

ABB Motors and Mechanical Inc.

WINDING # 36WGZ650

Typical performance - not guaranteed values.

3 HP 3 PH 60 HZ 1765 RPM 460 V 3630M

TORQUES (LB-FT): PO=38.2 PU=19.1 LR=22.4 LRA=32.2





