

# ABB BALDOR RELIANCE III

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## Customer information packet

### EMVM3611D

2.2KW, 1764RPM, 3PH, 60HZ, D100D, 3630M, TEFC

Class - None

Division - Not Applicable

**Specifications**

|                                       |                                                             |
|---------------------------------------|-------------------------------------------------------------|
| <b>Enclosure</b>                      | TEFC                                                        |
| <b>Frame</b>                          | D100D                                                       |
| <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>             | 2.200 KW @ 60 HZ                                            |
| <b>Phase</b>                          | 3                                                           |
| <b>Synchronous Speed @ Frequency</b>  | 1800 RPM @ 60 HZ                                            |
| <b>Voltage @ Frequency</b>            | 460.0 V @ 60 HZ<br>230.0 V @ 60 HZ                          |
| <b>Agency Approvals</b>               | NEMA PREMIUM<br>NEMA PREMIUM (OLD LOGO)<br>UR<br>CSA        |
| <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>              | 8.320 A @ 230.0 V<br>8.800 A @ 208.0 V<br>4.160 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>         | 89.5 %                                                      |
| <b>Electrically Isolated Bearing</b>  | Not Electrically Isolated                                   |
| <b>Feedback Device</b>                | NO FEEDBACK                                                 |
| <b>Frame Prefix</b>                   | D                                                           |

**Part Detail**

|                     |            |
|---------------------|------------|
| <b>Revision</b>     | B          |
| <b>Type</b>         | AC         |
| <b>Mech. spec.</b>  | 36G244     |
| <b>Base</b>         |            |
| <b>Status</b>       | PRD/A      |
| <b>Elec. spec.</b>  | 36WGZ650   |
| <b>Layout</b>       | 36LYG244   |
| <b>Eff. date</b>    | 04-16-2026 |
| <b>CD Diagram</b>   | CD0005     |
| <b>Poles</b>        | 04         |
| <b>Leads</b>        | 9#16       |
| <b>Proprietary</b>  | False      |
| <b>Created date</b> | 11-07-2025 |

|                               |                     |
|-------------------------------|---------------------|
| Front Shaft Indicator         | None                |
| Heater Indicator              | No Heater           |
| High Voltage Full Load Amps   | 4.2 a               |
| Insulation Class              | F                   |
| Inverter Code                 | Inverter Ready      |
| KVA Code                      | K                   |
| Lifting Lugs                  | No Lifting Lugs     |
| Locked Bearing Indicator      | Locked Bearing      |
| Motor Lead Quantity/Wire Size | 9 @ 16 AWG          |
| Motor Lead Termination        | Flying Leads        |
| Motor Standards               | IEC                 |
| Motor Type                    | 3630M               |
| Mounting Arrangement          | B5                  |
| Number of Poles               | 4                   |
| Overall Length                | 17.91 IN            |
| Power Factor                  | 74                  |
| Product Family                | General Purpose     |
| Pulley End Bearing Type       | Ball                |
| Pulley Face Code              | D-Flange            |
| Pulley Shaft Indicator        | Standard            |
| Rodent Screen                 | None                |
| RoHS Status                   | ROHS COMPLIANT      |
| Service Factor                | 1.15                |
| Shaft Diameter                | 1.103 IN            |
| Shaft Ground Indicator        | No Shaft Grounding  |
| Shaft Rotation                | Reversible          |
| Shaft Slinger Indicator       | No Slinger          |
| Speed                         | 1764 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

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Nameplate

| NP2672L      |               |  |                |  |      |  |      |      |     |
|--------------|---------------|--|----------------|--|------|--|------|------|-----|
| CAT.NO.      | EMVM3611D     |  |                |  |      |  |      |      |     |
| SPEC.        | 36G244Z650    |  |                |  |      |  |      |      |     |
| IEC FRAME    | D100D         |  | KW             |  | 2.2  |  |      |      |     |
| VOLTS        | 230/460       |  |                |  |      |  |      |      |     |
| AMP          | 8.4/4.2       |  |                |  |      |  |      |      |     |
| RPM          | 1765          |  |                |  | ENCL |  |      | TEFC |     |
| HZ           | 60            |  | PH             |  | 3    |  | CL   |      | F   |
| SER.F.       | 1.15          |  | DES            |  | B    |  | CODE |      | K   |
| NEMA-NOM-EFF | 89.5          |  | I.P.           |  | 54   |  |      |      |     |
| RATING       | 40C AMB-CONT  |  |                |  |      |  |      |      |     |
| CC           | 010A          |  | USABLE AT 208V |  |      |  |      |      | N/A |
| DE           | 6206          |  | ODE            |  | 6205 |  |      |      |     |
| SER. #       |               |  |                |  |      |  |      |      |     |
|              | 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 | 3            | Locked-rotor Torque                      |                       | 22.4 LB-FT      |          |
| NEMA Design Code       | B        | KVA Code     | K                                        | Starting Current      |                 | 32.2 A   |
| Service Factor (S.F.)  |          | 1.15         | No-load Current                          |                       | 2.38 A          |          |
| NEMA Nom. Eff.         | 89.5     | Power Factor | 74                                       | 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 |

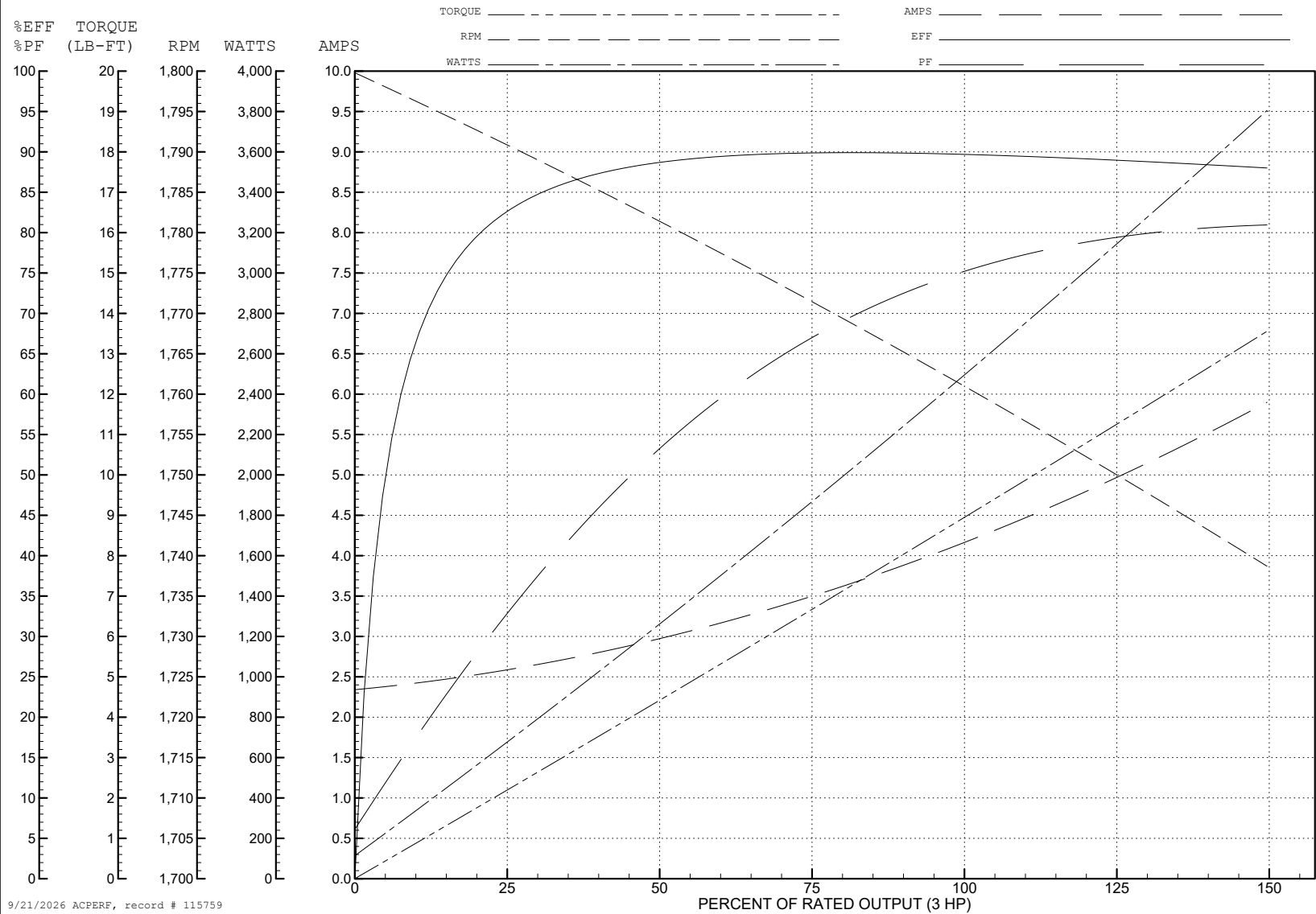
ABB Motors and Mechanical Inc.

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



9/21/2026 ACPERF, record # 115759

