

# ABB BALDOR RELIANCE III

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## Customer information packet

### EM3611T-9

3HP, 1750RPM, 3PH, 60HZ, 182T, 3636M, TEFC, F1

Class - None

Division - Not Applicable

**Specifications**

|                                       |                                                             |
|---------------------------------------|-------------------------------------------------------------|
| <b>Enclosure</b>                      | TEFC                                                        |
| <b>Frame</b>                          | 182T                                                        |
| <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>            | 460.0 V @ 60 HZ<br>230.0 V @ 60 HZ                          |
| <b>Agency Approvals</b>               | NEMA PREMIUM<br>NEMA_PREMIUM<br>UR<br>CSA EEV               |
| <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>              | 8.600 A @ 230.0 V<br>9.400 A @ 208.0 V<br>4.300 A @ 460.0 V |
| <b>Design Code</b>                    | C                                                           |
| <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 Face Code</b>                | Standard                                                    |

**Part Detail**

|                     |            |
|---------------------|------------|
| <b>Revision</b>     | F          |
| <b>Type</b>         | AC         |
| <b>Mech. spec.</b>  | 36Q306     |
| <b>Base</b>         |            |
| <b>Status</b>       | PRD/A      |
| <b>Elec. spec.</b>  | 36WGR666   |
| <b>Layout</b>       | 36LYQ306   |
| <b>Eff. date</b>    | 01-05-2026 |
| <b>CD Diagram</b>   | CD0005     |
| <b>Poles</b>        | 04         |
| <b>Leads</b>        | 9#16       |
| <b>Proprietary</b>  | False      |
| <b>Created date</b> | 10-28-2015 |

|                               |                            |
|-------------------------------|----------------------------|
| Front Shaft Indicator         | None                       |
| Heater Indicator              | No Heater                  |
| High Voltage Full Load Amps   | 4.3 a                      |
| Insulation Class              | F                          |
| Inverter Code                 | Not Inverter               |
| KVA Code                      | J                          |
| Lifting Lugs                  | No Lifting Lugs            |
| Locked Bearing Indicator      | No Locked Bearing          |
| Motor Lead Exit               | Ko Box                     |
| Motor Lead Quantity/Wire Size | 9 @ 16 AWG                 |
| Motor Lead Termination        | Flying Leads               |
| Motor Standards               | NEMA                       |
| Motor Type                    | 3636M                      |
| Mounting Arrangement          | F1                         |
| Number of Poles               | 4                          |
| Overall Length                | 18.04 IN                   |
| Power Factor                  | 74                         |
| Product Family                | WP Below Decks Marine Duty |
| Pulley End Bearing Type       | Ball                       |
| Pulley Face Code              | Standard                   |
| Pulley Shaft Indicator        | Standard                   |
| Rodent Screen                 | None                       |
| Service Factor                | 1.15                       |
| Shaft Diameter                | 1.125 IN                   |
| Shaft Extension Location      | Pulley End                 |
| Shaft Ground Indicator        | No Shaft Grounding         |
| Shaft Rotation                | Reversible                 |
| Shaft Slinger Indicator       | Shaft Slinger              |
| Speed                         | 1750 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**

| NP1267L      |              |      |     |      |   |    |    |   |  |
|--------------|--------------|------|-----|------|---|----|----|---|--|
| CAT.NO.      | EM3611T-9    |      |     |      |   |    |    |   |  |
| SPEC.        | 36Q306R666G1 |      |     |      |   |    |    |   |  |
| HP           | 3            |      |     |      |   |    |    |   |  |
| VOLTS        | 230/460      |      |     |      |   |    |    |   |  |
| AMP          | 8.6/4.3      |      |     |      |   |    |    |   |  |
| RPM          | 1750         |      |     |      |   |    |    |   |  |
| FRAME        | 182T         |      | HZ  | 60   |   |    | PH | 3 |  |
| SER.F.       | 1.15         | CODE | J   | DES  | C | CL | F  |   |  |
| NEMA-NOM-EFF | 89.5         | PF   | 74  |      |   |    |    |   |  |
| RATING       | 40C AMB-CONT |      |     |      |   |    |    |   |  |
| CC           | 010A         |      |     |      |   |    |    |   |  |
| DE           | 6206         |      | ODE | 6205 |   |    |    |   |  |
| ENCL         | TEFC         | SN   |     |      |   |    |    |   |  |

**AC Induction Motor Performance Data**

Record # 58092

Typical performance - not guaranteed values

| Winding: 36WGR666-R002 |    |         | Type: 3636M                              |                     | Enclosure: TEFC           |            |              |
|------------------------|----|---------|------------------------------------------|---------------------|---------------------------|------------|--------------|
| Nameplate Data         |    |         | 460 V, 60 Hz:<br>High Voltage Connection |                     |                           |            |              |
| Rated Output (HP)      |    | 3       | Full Load Torque                         |                     | 9.1 LB-FT                 |            |              |
| Volts                  |    | 230/460 | Start Configuration                      |                     | direct on line            |            |              |
| Full Load Amps         |    | 8.6/4.3 | Breakdown Torque                         |                     | 28.2 LB-FT                |            |              |
| R.P.M.                 |    | 1750    | Pull-up Torque                           |                     | 24.9 LB-FT                |            |              |
| Hz                     | 60 | Phase   | 3                                        | Locked-rotor Torque |                           | 31.6 LB-FT |              |
| NEMA Design Code       |    | C       | KVA Code                                 | J                   | Starting Current          |            | 27.5 A       |
| Service Factor (S.F.)  |    | 1.15    | No-load Current                          |                     | 2.28 A                    |            |              |
| NEMA Nom. Eff.         |    | 89.5    | Power Factor                             | 74                  | Line-line Res. @ 25°C     |            | 3.43 Ω       |
| Rating - Duty          |    | 40C     | AMB-CONT                                 |                     | Temp. Rise @ Rated Load   |            | 43°C         |
| S.F. Amps              |    |         |                                          |                     | Temp. Rise @ S.F. Load    |            | 52°C         |
|                        |    |         |                                          |                     | Locked-rotor Power Factor |            | 45.5         |
|                        |    |         |                                          |                     | Rotor inertia             |            | 0.335 LB-FT2 |

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

| % of Rated Load | 25   | 50   | 75   | 100  | 125  | 150  | S.F. |
|-----------------|------|------|------|------|------|------|------|
| Power Factor    | 35   | 56   | 67   | 74   | 78   | 80   | 76   |
| Efficiency      | 82.9 | 88.8 | 89.9 | 89.5 | 88.4 | 87.6 | 88.8 |
| Speed           | 1787 | 1777 | 1766 | 1753 | 1739 | 1725 | 1745 |
| Line amperes    | 2.46 | 2.92 | 3.52 | 4.27 | 5.12 | 6.02 | 4.78 |

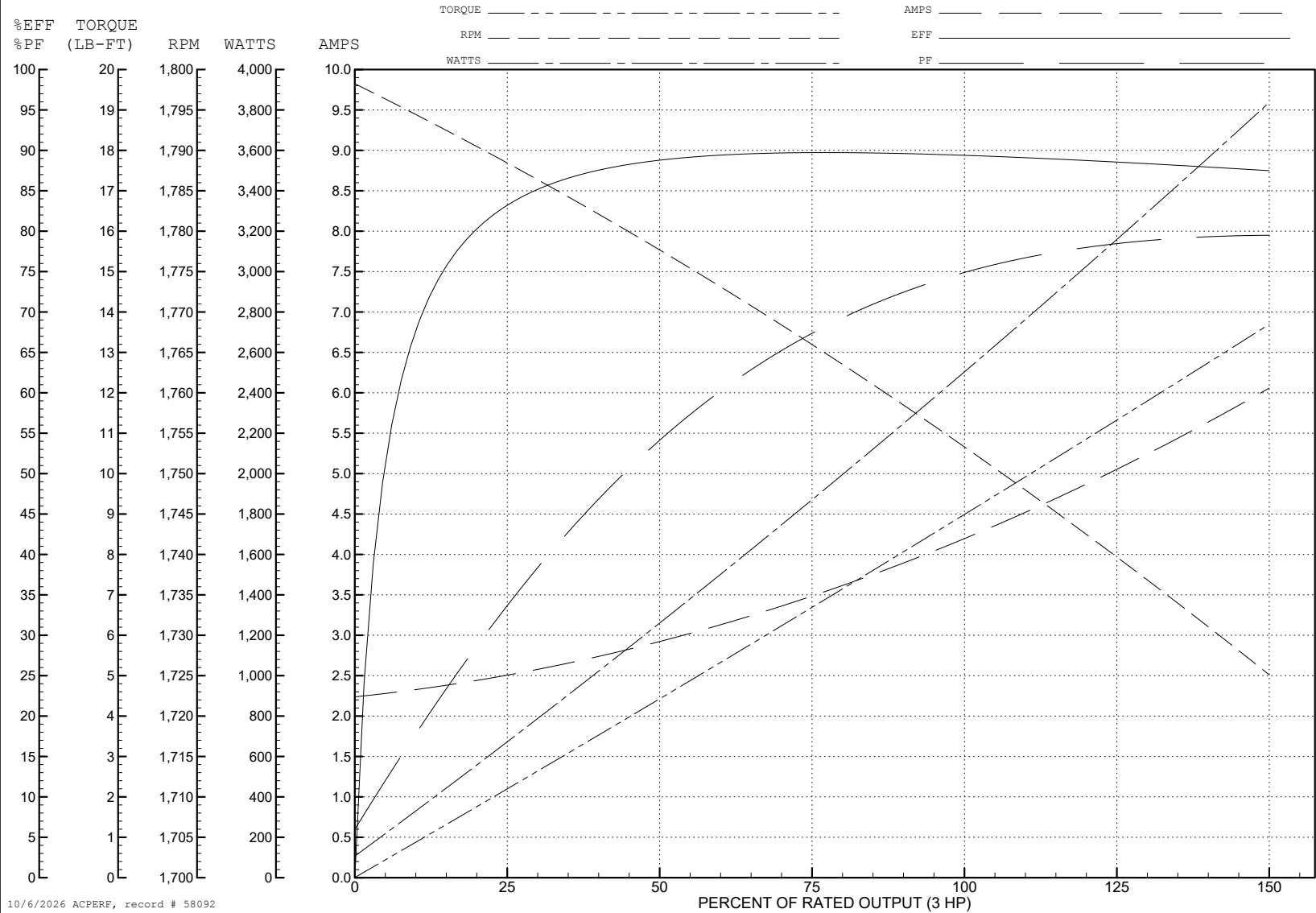
ABB Motors and Mechanical Inc.

WINDING # 36WGR666

Typical performance - not guaranteed values.

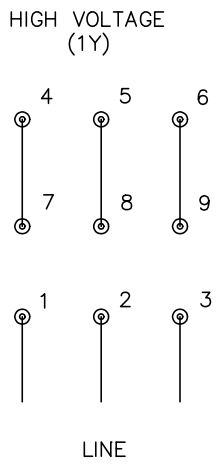
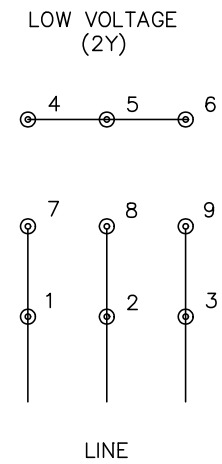
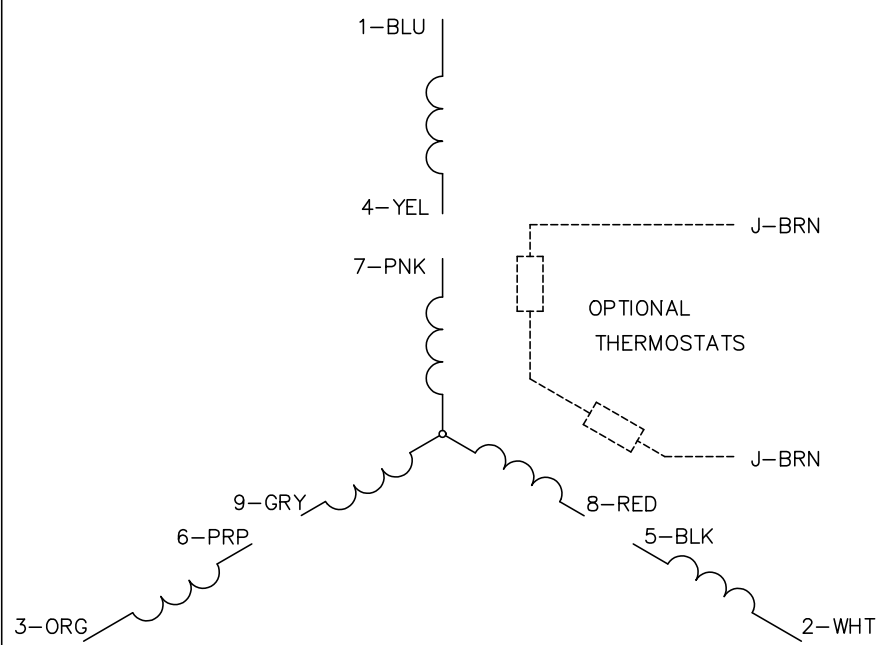
3 HP 3 PH 60 HZ 1750 RPM 460 V 3636M

TORQUES (LB-FT): PO=28.2 PU=24.9 LR=31.6 LRA=27.5





CD0005



- NOTES:
- 1. INTERCHANGE ANY TWO LINE LEADS TO REVERSE ROTATION.
  - 2. OPTIONAL THERMOSTATS ARE PROVIDED WHEN SPECIFIED.
  - 3. ACTUAL NUMBER OF INTERNAL PARALLEL CIRCUITS MAY BE A MULTIPLE OF THOSE SHOWN ABOVE.
  - 4. LEAD COLORS ARE OPTIONAL. LEADS MUST ALWAYS BE NUMBERED AS SHOWN.

|                                           |         |                         |              |
|-------------------------------------------|---------|-------------------------|--------------|
| REV. DESC: REVISE TO SHOW OPTIONAL COLORS |         |                         |              |
| REV. LTR: E                               | BY: JLP | REVISED: 01/19/99 10:15 | TDR: 0171435 |
| 900000                                    |         | FILE: AAA00005140       | MDL: -       |
|                                           |         | MTL: -                  |              |

**BALDOR ELECTRIC Co.**

3PH, DV, 9 LEADS

CD0005