

# ABB BALDOR RELIANCE III

---

## Customer information packet

### EM3607T-G

1.5HP, 1165RPM, 3PH, 60HZ, 182T, 3632M, TEFC, F

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>             | 1.500 HP @ 60 HZ                                            |
| <b>Phase</b>                          | 3                                                           |
| <b>Synchronous Speed @ Frequency</b>  | 1200 RPM @ 60 HZ                                            |
| <b>Voltage @ Frequency</b>            | 460.0 V @ 60 HZ<br>230.0 V @ 60 HZ                          |
| <b>Agency Approvals</b>               | CSA<br>CSA EEV<br>UR                                        |
| <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>              | 4.800 A @ 230.0 V<br>5.000 A @ 208.0 V<br>2.400 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>         | 87.5 %                                                      |
| <b>Electrically Isolated Bearing</b>  | Not Electrically Isolated                                   |
| <b>Feedback Device</b>                | NO FEEDBACK                                                 |
| <b>Front Face Code</b>                | Standard                                                    |
| <b>Front Shaft Indicator</b>          | None                                                        |

**Part Detail**

|                     |            |
|---------------------|------------|
| <b>Revision</b>     | U          |
| <b>Type</b>         | AC         |
| <b>Mech. spec.</b>  | 36M524     |
| <b>Base</b>         |            |
| <b>Status</b>       | PRD/A      |
| <b>Elec. spec.</b>  | 36WGS916   |
| <b>Layout</b>       | 36LYM524   |
| <b>Eff. date</b>    | 02-19-2026 |
| <b>CD Diagram</b>   | CD0005     |
| <b>Poles</b>        | 06         |
| <b>Leads</b>        | 9#16       |
| <b>Proprietary</b>  | False      |
| <b>Created date</b> | 05-16-2012 |

|                                      |                     |
|--------------------------------------|---------------------|
| <b>Heater Indicator</b>              | No Heater           |
| <b>High Voltage Full Load Amps</b>   | 2.4 a               |
| <b>Insulation Class</b>              | H                   |
| <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 Exit</b>               | Ko Box              |
| <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>                    | 3632M               |
| <b>Mounting Arrangement</b>          | F1                  |
| <b>Number of Poles</b>               | 6                   |
| <b>Overall Length</b>                | 16.54 IN            |
| <b>Power Factor</b>                  | 67                  |
| <b>Product Family</b>                | General Purpose     |
| <b>Pulley End Bearing Type</b>       | Ball                |
| <b>Pulley Face Code</b>              | Standard            |
| <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 Extension Location</b>      | Pulley End          |
| <b>Shaft Ground Indicator</b>        | Shaft Grounding     |
| <b>Shaft Rotation</b>                | Reversible          |
| <b>Shaft Slinger Indicator</b>       | No Slinger          |
| <b>Speed</b>                         | 1165 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                |

Winding Thermal 2

None

---

**Nameplate**

| NP3441LUA                        |                              |             |            |            |   |              |       |  |  |
|----------------------------------|------------------------------|-------------|------------|------------|---|--------------|-------|--|--|
| <b>CAT.NO.</b>                   | EM3607T-G                    |             |            |            |   |              |       |  |  |
| <b>SPEC</b>                      | 36M524S916G1                 |             |            |            |   |              |       |  |  |
| <b>HP</b>                        | 1.5                          |             |            |            |   |              |       |  |  |
| <b>VOLTS</b>                     | 208-230/460                  |             |            |            |   |              |       |  |  |
| <b>AMPS</b>                      | 5-4.8/2.4                    |             |            |            |   |              |       |  |  |
| <b>RPM</b>                       | 1170                         |             |            |            |   |              |       |  |  |
| <b>FRAME</b>                     | 182T                         |             | <b>HZ</b>  | 60         |   | <b>PH</b>    | 3     |  |  |
| <b>SF</b>                        | 1.15                         | <b>CODE</b> | K          | <b>DES</b> | B | <b>CLASS</b> | H     |  |  |
| <b>NEMA NOM. EFF</b>             | 87.5                         | <b>PF</b>   | 67         |            |   |              |       |  |  |
| <b>RATING</b>                    | 40C AMB-CONT                 |             |            |            |   |              |       |  |  |
| <b>CC</b>                        | 010A                         |             |            |            |   |              |       |  |  |
| <b>ENCL</b>                      | TEFC                         | <b>SER</b>  |            |            |   |              |       |  |  |
| <b>DE</b>                        | 6206                         |             | <b>ODE</b> | 6205       |   |              |       |  |  |
| <b>VPWM INVERTER READY</b>       |                              |             |            |            |   |              |       |  |  |
| <b>CT6-60H(10:1)VT3-60H(20:1</b> |                              |             |            |            |   |              |       |  |  |
|                                  | 50HZ 1.5HP 190/380V 4.8/2.4A |             |            |            |   |              | SF1.0 |  |  |

**AC Induction Motor Performance Data**

Record # 102078

Typical performance - not guaranteed values

| Winding: 36WGS916-R063 |    |             | Type: 3632M                              |                     | Enclosure: TEFC           |            |              |
|------------------------|----|-------------|------------------------------------------|---------------------|---------------------------|------------|--------------|
| Nameplate Data         |    |             | 460 V, 60 Hz:<br>High Voltage Connection |                     |                           |            |              |
| Rated Output (HP)      |    | 1.5         | Full Load Torque                         |                     | 6.86 LB-FT                |            |              |
| Volts                  |    | 208-230/460 | Start Configuration                      |                     | direct on line            |            |              |
| Full Load Amps         |    | 5-4.8/2.4   | Breakdown Torque                         |                     | 23.8 LB-FT                |            |              |
| R.P.M.                 |    | 1170        | Pull-up Torque                           |                     | 12.5 LB-FT                |            |              |
| Hz                     | 60 | Phase       | 3                                        | Locked-rotor Torque |                           | 15.3 LB-FT |              |
| NEMA Design Code       |    | B           | KVA Code                                 | K                   | Starting Current          |            | 15.8 A       |
| Service Factor (S.F.)  |    | 1.15        | No-load Current                          |                     | 1.47 A                    |            |              |
| NEMA Nom. Eff.         |    | 87.5        | Power Factor                             | 67                  | Line-line Res. @ 25°C     |            | 7.3716 Ω     |
| Rating - Duty          |    | 40C         | AMB-CONT                                 |                     | Temp. Rise @ Rated Load   |            | 34°C         |
| S.F. Amps              |    |             |                                          |                     | Temp. Rise @ S.F. Load    |            | 41°C         |
|                        |    |             |                                          |                     | Locked-rotor Power Factor |            | 30.1         |
|                        |    |             |                                          |                     | Rotor inertia             |            | 0.301 lb-ft² |

**Load Characteristics 460 V, 60 Hz, 1.5 HP**

| % of Rated Load | 25     | 50     | 75     | 100    | 125    | 150    | S.F. |
|-----------------|--------|--------|--------|--------|--------|--------|------|
| Power Factor    | 30     | 48     | 59     | 67     | 71     | 74     | 69   |
| Efficiency      | 79.1   | 86     | 87.5   | 87.5   | 86.5   | 85.2   | 86.9 |
| Speed           | 1192.2 | 1184.8 | 1176.8 | 1168.1 | 1158.2 | 1147.5 | 1162 |
| Line amperes    | 1.57   | 1.77   | 2.07   | 2.43   | 2.88   | 3.36   | 2.7  |

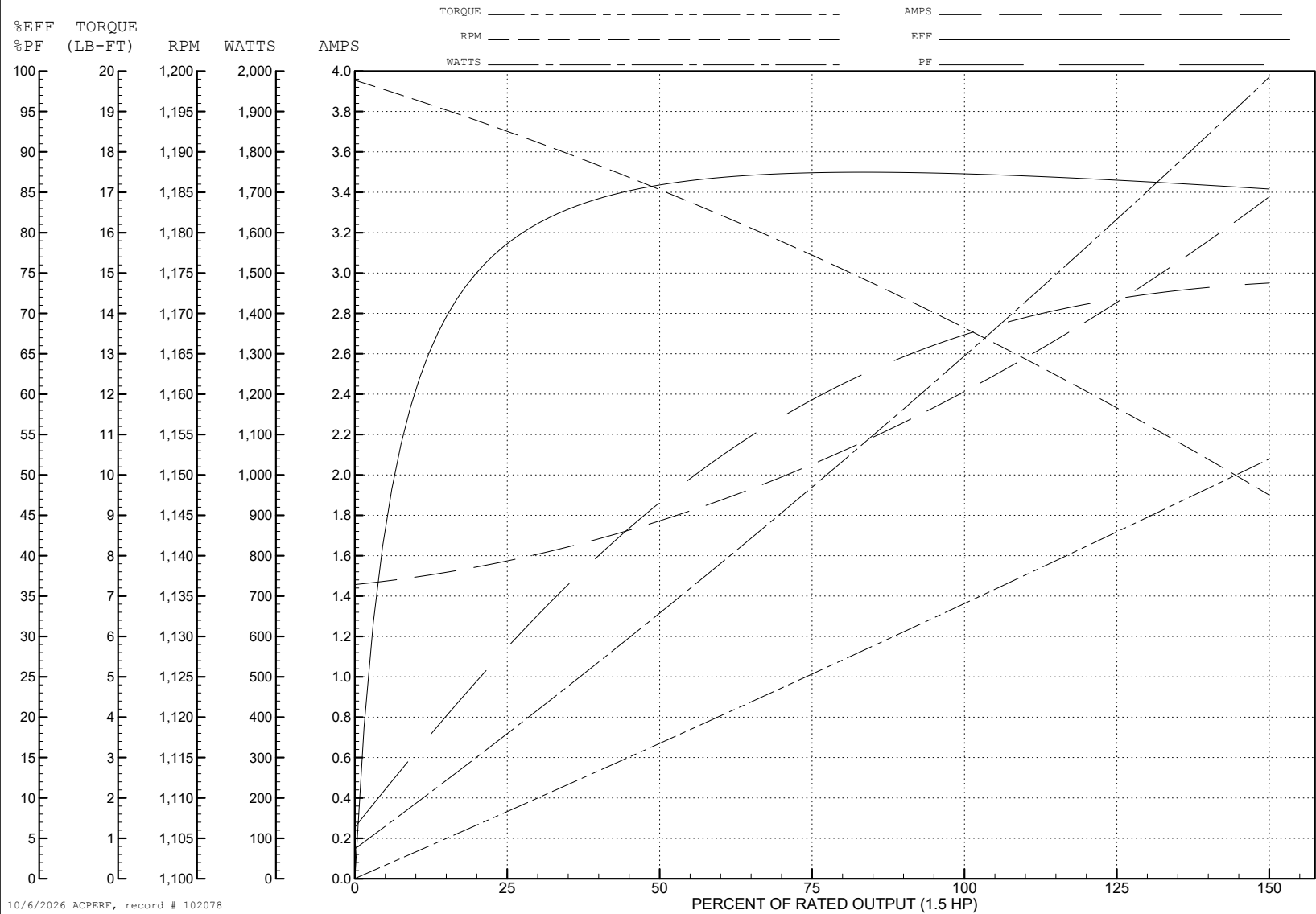
ABB Motors and Mechanical Inc.

WINDING # 36WGS916

Typical performance - not guaranteed values.

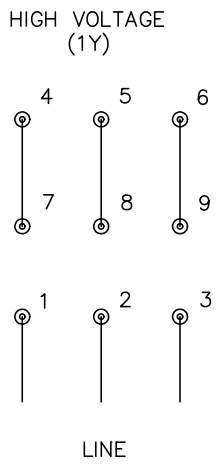
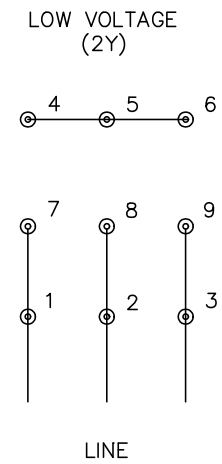
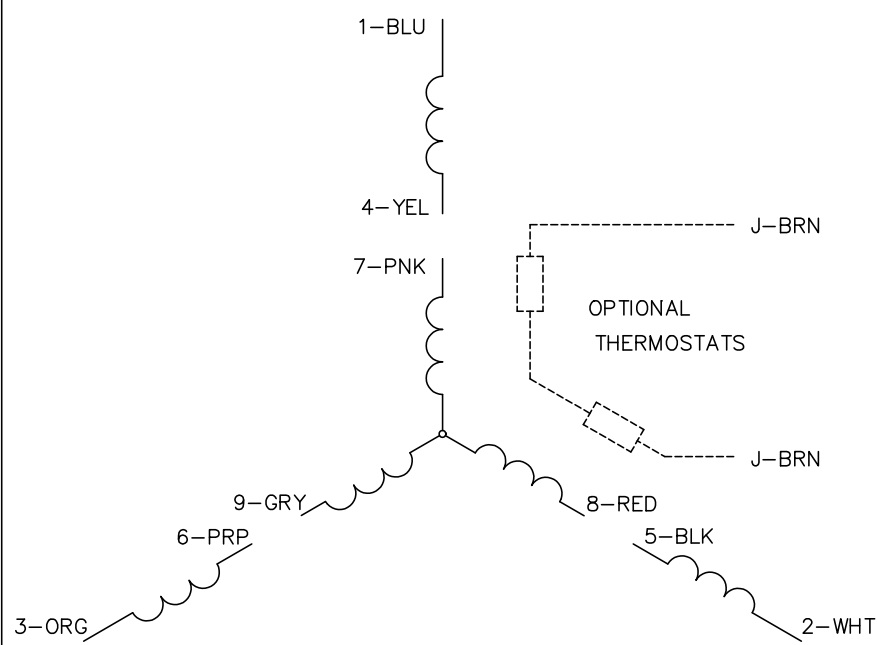
1.5 HP 3 PH 60 HZ 1170 RPM 460 V 3632M

TORQUES (LB-FT): PO=23.8 PU=12.5 LR=15.3 LRA=15.8





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