

# ABB BALDOR RELIANCE III

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## Customer information packet

HBEM3607T

32M 6P TEFC HOR 182T

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>            | 230.0 V @ 60 HZ<br>460.0 V @ 60 HZ                          |
| <b>Agency Approvals</b>               | NEMA PREMIUM<br>WEEE<br>CURUSEEV                            |
| <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>              | 2.400 A @ 460.0 V<br>4.800 A @ 230.0 V<br>5.000 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>         | 87.5 %                                                      |
| <b>Electrically Isolated Bearing</b>  | Electrically Isolated Bearings                              |
| <b>Feedback Device</b>                | NO FEEDBACK                                                 |
| <b>Front Shaft Indicator</b>          | None                                                        |
| <b>Heater Indicator</b>               | No Heater                                                   |

**Part Detail**

|                     |            |
|---------------------|------------|
| <b>Revision</b>     | G          |
| <b>Type</b>         | AC         |
| <b>Mech. spec.</b>  | 36T429     |
| <b>Base</b>         |            |
| <b>Status</b>       | PRD/A      |
| <b>Elec. spec.</b>  | 36WGS916   |
| <b>Layout</b>       | 36LYT429   |
| <b>Eff. date</b>    | 03-27-2026 |
| <b>CD Diagram</b>   | CD0005     |
| <b>Poles</b>        | 06         |
| <b>Leads</b>        | 9#16       |
| <b>Proprietary</b>  | False      |
| <b>Created date</b> | 01-05-2022 |

|                               |                     |
|-------------------------------|---------------------|
| High Voltage Full Load Amps   | 2.4 a               |
| Insulation Class              | H                   |
| Inverter Code                 | Not Inverter        |
| KVA Code                      | K                   |
| Lifting Lugs                  | No Lifting Lugs     |
| Locked Bearing Indicator      | No Locked Bearing   |
| Max Speed                     | 1800 rpm            |
| Motor Lead Quantity/Wire Size | 9 @ 16 AWG          |
| Motor Lead Termination        | Flying Leads        |
| Motor Standards               | NEMA                |
| Motor Type                    | 3632M               |
| Mounting Arrangement          | F1                  |
| Number of Poles               | 6                   |
| Overall Length                | 16.54 IN            |
| Power Factor                  | 67                  |
| Product Family                | General Purpose     |
| Pulley End Bearing Type       | Sealed Bearing      |
| Pulley Face Code              | Standard            |
| Pulley Shaft Indicator        | Standard            |
| Rodent Screen                 | None                |
| Service Factor                | 1.15                |
| Shaft Diameter                | 1.125 IN            |
| Shaft Ground Indicator        | No Shaft Grounding  |
| Shaft Rotation                | Reversible          |
| Shaft Slinger Indicator       | No Slinger          |
| Speed                         | 1165 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**

| NP4246A01A01 |              |       |        |         |      |         |       |      |       |     |               |      |  |
|--------------|--------------|-------|--------|---------|------|---------|-------|------|-------|-----|---------------|------|--|
| CAT #        | HBEM3607T    |       |        |         |      | WGT     | 72    |      | LBS   |     |               |      |  |
| SPEC         | 36T429S916G1 |       |        |         |      | ENCL    | TEFC  |      |       |     |               |      |  |
| SER #        |              |       |        |         |      | CC      | 010A  |      | IP    | 54  |               |      |  |
| HP           | 1.5          |       |        |         |      | MAG CUR | 3/1.5 |      |       |     |               |      |  |
| VOLTS        | 230/460      |       |        |         |      |         |       |      |       |     | NEMA NOM. EFF | 87.5 |  |
| AMPS         | 4.8/2.4      |       |        |         |      |         |       |      | PF    | 67  |               |      |  |
| RATING       | 40C AMB-CONT |       |        |         |      |         |       |      |       |     |               |      |  |
| RPM          | 1165         |       |        |         |      | MAX RPM |       |      | 1800  |     |               |      |  |
| FRAME        | 182T         |       | HZ     | 60      |      | CODE    | K     |      | CLASS | H   |               |      |  |
| SER.F.       | 1.15         |       | SF AMP | 5.4/2.7 |      |         | PH    |      | 3     | DES | B             |      |  |
| DE           | 6206         |       | ODE    |         | 6205 |         |       |      |       |     |               |      |  |
| LUBRICATION  | POLYREX EM   |       |        |         |      |         |       |      |       |     |               |      |  |
| ID LOGO      | INV TYPE:    |       | VPWM   |         | CHP  | 60      |       | TO   | 90    |     | 1.5:1         |      |  |
| ID LOGO      | WK2          | 0.301 | CT     | 6       | TO   | 60      |       | 10:1 |       |     |               |      |  |
| ID LOGO      | SL HZ        | 1.75  | VT     | 3       | TO   | 60      |       | 20:1 |       |     |               |      |  |
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**AC Induction Motor Performance Data**

Record # 92049

Typical performance - not guaranteed values

| Winding: 36WGS916-R055 |    |              |              | 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                  |    | 230/460      |              | Start Configuration                      |                       | direct on line  |        |
| Full Load Amps         |    | 4.8/2.4      |              | Breakdown Torque                         |                       | 23.8 LB-FT      |        |
| R.P.M.                 |    | 1165         |              | 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 |                 | 7.12 Ω |
| Rating - Duty          |    | 40C AMB-CONT |              | Temp. Rise @ Rated Load                  |                       | 34°C            |        |
| S.F. Amps              |    | 5.4/2.7      |              | Temp. Rise @ S.F. Load                   |                       | 40°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   | 60   | 67   | 71   | 74   | 69   |
| Efficiency      | 78.8 | 85.7 | 87.5 | 87.4 | 86.4 | 85.3 | 86.8 |
| Speed           | 1192 | 1185 | 1177 | 1168 | 1158 | 1148 | 1162 |
| Line amperes    | 1.57 | 1.77 | 2.07 | 2.43 | 2.88 | 3.36 | 2.7  |

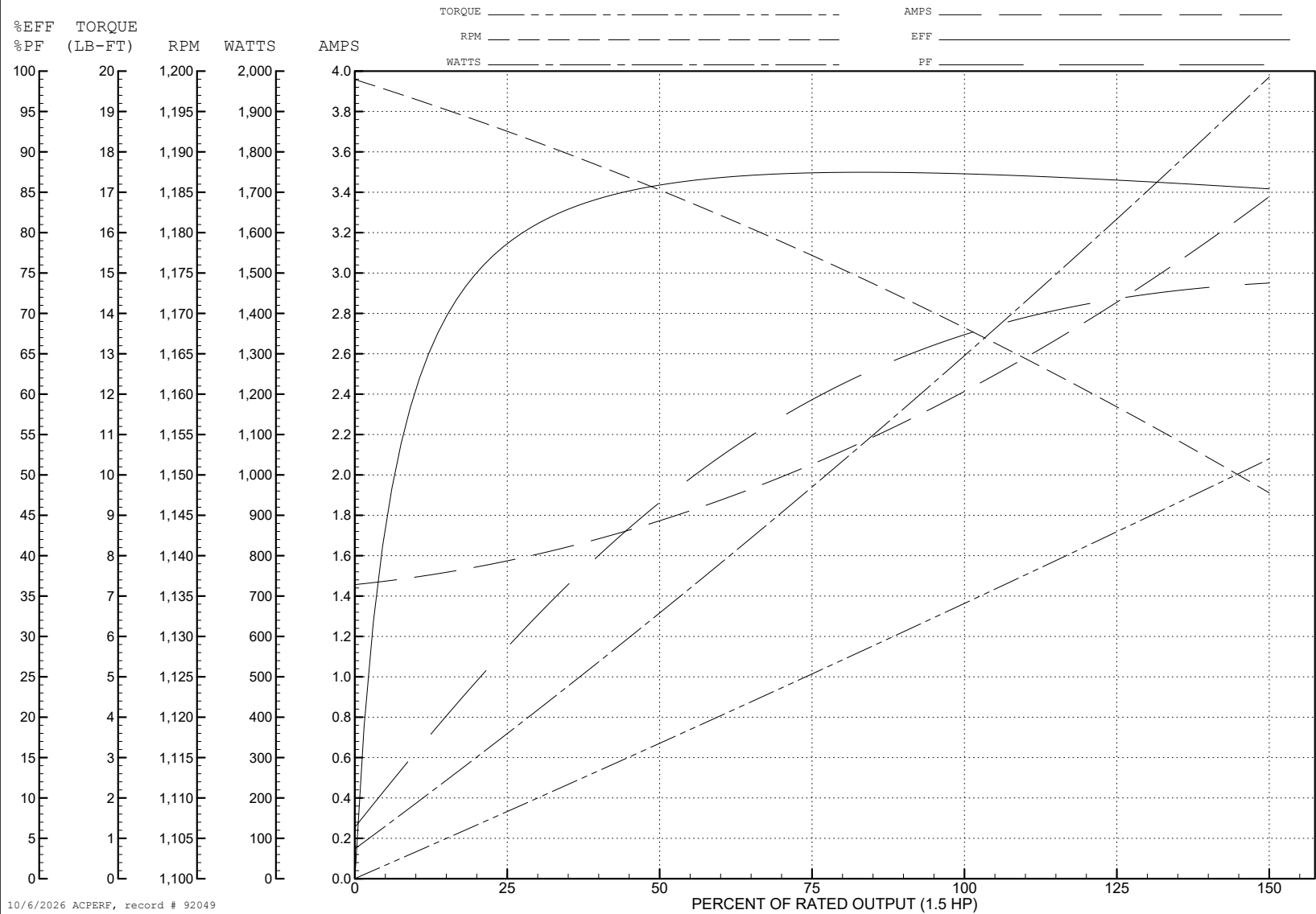
ABB Motors and Mechanical Inc.

WINDING # 36WGS916

Typical performance - not guaranteed values.

1.5 HP 3 PH 60 HZ 1165 RPM 460 V 3632M

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



10/6/2026 ACPERF, record # 92049

