

# ABB BALDOR RELIANCE III

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## Customer information packet

### M1725T

7.5/3.3HP, 1760/1160RPM, 3PH, 60HZ, 254T

Class - None

Division - Not Applicable

**Specifications**

|                                       |                                      |
|---------------------------------------|--------------------------------------|
| <b>Enclosure</b>                      | TEFC                                 |
| <b>Frame</b>                          | 254T                                 |
| <b>Frame Material</b>                 | Iron                                 |
| <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>             | 7.500 HP @ 60 HZ<br>3.300 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                      |
| <b>Agency Approvals</b>               | 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>                 | Rigid                                |
| <b>Bearing Grease Type</b>            | Polyrex EM (-20F +300F)              |
| <b>Blower</b>                         | None                                 |
| <b>Current @ Voltage</b>              | 10.300 A @ 460.0 V                   |
| <b>Design Code</b>                    | A                                    |
| <b>Drip Cover</b>                     | No Drip Cover                        |
| <b>Duty Rating</b>                    | CONT                                 |
| <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                                 |
| <b>Heater Indicator</b>               | No Heater                            |
| <b>High Voltage Full Load Amps</b>    | 5.7 a                                |
| <b>Insulation Class</b>               | F                                    |
| <b>Inverter Code</b>                  | Not Inverter                         |

**Part Detail**

|                     |            |
|---------------------|------------|
| <b>Revision</b>     | AU         |
| <b>Type</b>         | AC         |
| <b>Mech. spec.</b>  | 09C101     |
| <b>Base</b>         |            |
| <b>Status</b>       | PRD/A      |
| <b>Elec. spec.</b>  | 09WGX206   |
| <b>Layout</b>       | 09LYC101   |
| <b>Eff. date</b>    | 10-07-2024 |
| <b>CD Diagram</b>   | CD0013     |
| <b>Poles</b>        | 04/06      |
| <b>Leads</b>        | 6#12       |
| <b>Proprietary</b>  | False      |
| <b>Created date</b> | 01-01-0001 |

|                                      |                       |
|--------------------------------------|-----------------------|
| <b>KVA Code</b>                      | J                     |
| <b>Lifting Lugs</b>                  | Standard Lifting Lugs |
| <b>Locked Bearing Indicator</b>      | Locked Bearing        |
| <b>Motor Lead Exit</b>               | Ko Box                |
| <b>Motor Lead Quantity/Wire Size</b> | 6 @ 12 AWG            |
| <b>Motor Lead Termination</b>        | Flying Leads          |
| <b>Motor Standards</b>               | NEMA                  |
| <b>Motor Type</b>                    | 0928M                 |
| <b>Mounting Arrangement</b>          | F1                    |
| <b>Number of Poles</b>               | 4<br>6                |
| <b>Overall Length</b>                | 23.28 IN              |
| <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>                | 1.625 IN              |
| <b>Shaft Extension Location</b>      | Pulley End            |
| <b>Shaft Ground Indicator</b>        | No Shaft Grounding    |
| <b>Shaft Rotation</b>                | Reversible            |
| <b>Shaft Slinger Indicator</b>       | Shaft Slinger         |
| <b>Speed</b>                         | 1160 rpm<br>1760 rpm  |
| <b>Speed Code</b>                    | 2S-2W-VT              |
| <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**

| NP1256L      |              |      |     |      |   |       |    |   |  |
|--------------|--------------|------|-----|------|---|-------|----|---|--|
| CAT.NO.      | M1725T       |      |     |      |   |       |    |   |  |
| SPEC.        | 09C101X206   |      |     |      |   |       |    |   |  |
| HP           | 7.5/3.3      |      |     |      |   |       |    |   |  |
| VOLTS        | 460          |      |     |      |   |       |    |   |  |
| AMP          | 10.3/5.7     |      |     |      |   |       |    |   |  |
| RPM          | 1760/1160    |      |     |      |   |       |    |   |  |
| FRAME        | 254T         |      | HZ  | 60   |   |       | PH | 3 |  |
| SER.F.       | 1.15         | CODE | J   | DES  | A | CLASS | F  |   |  |
| NEMA-NOM-EFF |              | PF   |     |      |   |       |    |   |  |
| RATING       | 40C AMB-CONT |      |     |      |   |       |    |   |  |
| CC           |              |      |     |      |   |       |    |   |  |
| DE           | 6309         |      | ODE | 6208 |   |       |    |   |  |
| ENCL         | TEFC         | SN   |     |      |   |       |    |   |  |

**Parts List**

| Part number  | Description                              | Quantity |
|--------------|------------------------------------------|----------|
| SA011436     | SA 09C101X206                            | 1.000 ea |
| RA007636     | RA 09C101X206                            | 1.000 ea |
| HW1002A63    | WASHER, 5/8 HI-COLLAR SPRLCKWASHER       | 1.000 ea |
| 09GS1000     | GASKET-CONDUIT BOX, 1/16 THICK LEXIDE    | 1.000 ea |
| 09CB3003     | CB W/1.75" DIA LD HL - 37, 39, 307 & 309 | 1.000 ea |
| 51XW2520A12  | .25-20 X .75, TAPTITE II, HEX WSHR SLTD  | 4.000 ea |
| 09EP1101A136 | PU ENDPLATE, MACH                        | 1.000 ea |
| 10XN3816K28  | 3/8-16 X 1.75 HEX HD CAP SCREW, GRADE 5  | 4.000 ea |
| WD1000B16    | T&B CX70TN OR L70P TERMINAL LUG          | 1.000 ea |
| 59XW2520G07  | .25-20X.44,HEX SER WSHR,TAPTITE 2,GREEN  | 1.000 ea |
| HW4500A05    | 1669B ALEM/UNIV860 GR FTG X              | 1.000 ea |
| HW4500A17    | 317400 ALEMITE GREASE RELIEF             | 1.000 ea |
| 09EP1100A208 | ENDPLATE, MACH                           | 1.000 ea |
| HA3400A33    | STUD- 3/8-16 X 4.96 HEX                  | 4.000 ea |
| HW4600B44    | V-RING SLINGER 1.500 X 1.810 X .28 VITON | 1.000 ea |
| HW1001A38    | LOCKWASHER 3/8, ZINC PLT .688 OD, .382 I | 4.000 ea |
| XY3816A12    | 3/8-16 FINISHED NUT W/SERRATIONS         | 4.000 ea |
| HW1001A38    | LOCKWASHER 3/8, ZINC PLT .688 OD, .382 I | 4.000 ea |
| HW5100A08    | W3118-035 WVY WSHR (WB)                  | 1.000 ea |
| 10XN2520K36  | 1/4-20 X 2.25" HX HD SCRWGRADE 5, ZINC P | 4.000 ea |
| HW1001A25    | LOCKWASHER 1/4, ZINC PLT .493 OD, .255 I | 4.000 ea |
| HW1001A38    | LOCKWASHER 3/8, ZINC PLT .688 OD, .382 I | 4.000 ea |
| 09FH4000SP   | 309 FH - BLACK PRIMER                    | 1.000 ea |
| 09CB3501SP   | CONDUIT BOX LID FOR 09CB3001 & 09CB3002  | 1.000 ea |
| 09GS1013SP   | GS FOR 09CB3501, 12CB1500 & 12CB1503 LID | 1.000 ea |
| 51XW2520A12  | .25-20 X .75, TAPTITE II, HEX WSHR SLTD  | 2.000 ea |
| HW2501G25    | KEY, 3/8 SQ X 2.875                      | 1.000 ea |
| MN416A01     | TAG-INSTAL-MAINT no wire (2500 bx)11/25  | 1.000 ea |
| LD7020D06    | LEAD SET, 12AWG, 6 LEAD, 20" LONG LEADS  | 1.000 ea |
| HA4051A00    | PLASTIC CAP FOR GREASE FITTING           | 1.000 ea |
| HW4500A03    | GREASE FITTING, .125 NPT 1610(ALEMITE) 8 | 1.000 ea |

|               |                                          |          |
|---------------|------------------------------------------|----------|
| HW4500A17     | 317400 ALEMITE GREASE RELIEF             | 1.000 ea |
| HA4066A01     | PUSH IN T-DRAIN FITTING (BLACK)          | 1.000 ea |
| MG1050G01     | CELEROL MEDIUM CHARCOAL METALLIC GRAY    | 0.070 ga |
| HA4066A01     | PUSH IN T-DRAIN FITTING (BLACK)          | 1.000 ea |
| MJ1000A02     | GREASE, POLYREX EM EXXON                 | 0.080 lb |
| HA4051A00     | PLASTIC CAP FOR GREASE FITTING           | 1.000 ea |
| 85XU0407S04   | 4X1/4 U DRIVE PIN STAINLESS              | 2.000 ea |
| 09FN3001A01SP | EXTERNAL FAN, PLASTIC (COMES W/SCREW FRO | 1.000 ea |
| HW2500A25     | WOODRUFF KEY USA #1008 #BLOW CARBON STEE | 1.000 ea |
| LB1624        | COMBINED WARNING LABEL, ISO/ANSI PICTOGR | 1.000 ea |
| LC0013        | CONNECTION LABEL                         | 1.000 ea |
| NP1256L       | ALUM UL CC INDUSTRIAL MOTOR A60          | 1.000 ea |
| 09PA1000      | PACKAGING GROUP COMBINED PRINT           | 1.000 ea |
| PE-0000003    | ZRTG PE ASSEMBLY                         | 1.000 ea |
| FE-0000013    | ZRTG FE ASSEMBLY                         | 1.000 ea |

**Accessories**

| Part number | Description | Multiplier |
|-------------|-------------|------------|
| 09-1309     | C FACE KIT  | A8         |

**AC Induction Motor Performance Data**

Record # 36431

Typical performance - not guaranteed values

| Winding: 09WGX206-R002 |    |              | Type: 0928M  |                                        | Enclosure: TEFC |                |
|------------------------|----|--------------|--------------|----------------------------------------|-----------------|----------------|
| Nameplate Data         |    |              |              | 460 V, 60 Hz:<br>High Speed Connection |                 |                |
| Rated Output (HP)      |    | 7.5/3.3      |              | Full Load Torque                       |                 | 22.2 LB-FT     |
| Volts                  |    | 460          |              | Start Configuration                    |                 | direct on line |
| Full Load Amps         |    | 10.3/5.7     |              | Breakdown Torque                       |                 | 81 LB-FT       |
| R.P.M.                 |    | 1760/1160    |              | Pull-up Torque                         |                 | 47 LB-FT       |
| Hz                     | 60 | Phase        | 3            | Locked-rotor Torque                    |                 | 55 LB-FT       |
| NEMA Design Code       |    | B            | KVA Code     | Starting Current                       |                 | 72 A           |
| Service Factor (S.F.)  |    | 1.15         |              | No-load Current                        |                 | 5.4 A          |
| NEMA Nom. Eff.         |    | 0            | Power Factor | Line-line Res. @ 25°C                  |                 | 2.4 Ω          |
| Rating - Duty          |    | 40C AMB-CONT |              | Temp. Rise @ Rated Load                |                 | 63°C           |
| S.F. Amps              |    |              |              | Temp. Rise @ S.F. Load                 |                 | 73°C           |

**Load Characteristics 460 V, 60 Hz, 7.5 HP**

| % of Rated Load | 25   | 50   | 75   | 100  | 125  | 150  | S.F. |
|-----------------|------|------|------|------|------|------|------|
| Power Factor    | 42   | 63   | 75   | 82   | 86   | 88   | 84   |
| Efficiency      | 70.9 | 80.8 | 83.8 | 84.7 | 84.5 | 83.8 | 84.6 |
| Speed           | 1793 | 1787 | 1780 | 1773 | 1766 | 1758 | 1769 |
| Line amperes    | 5.9  | 6.9  | 8.4  | 10.3 | 12.1 | 14.3 | 11.3 |

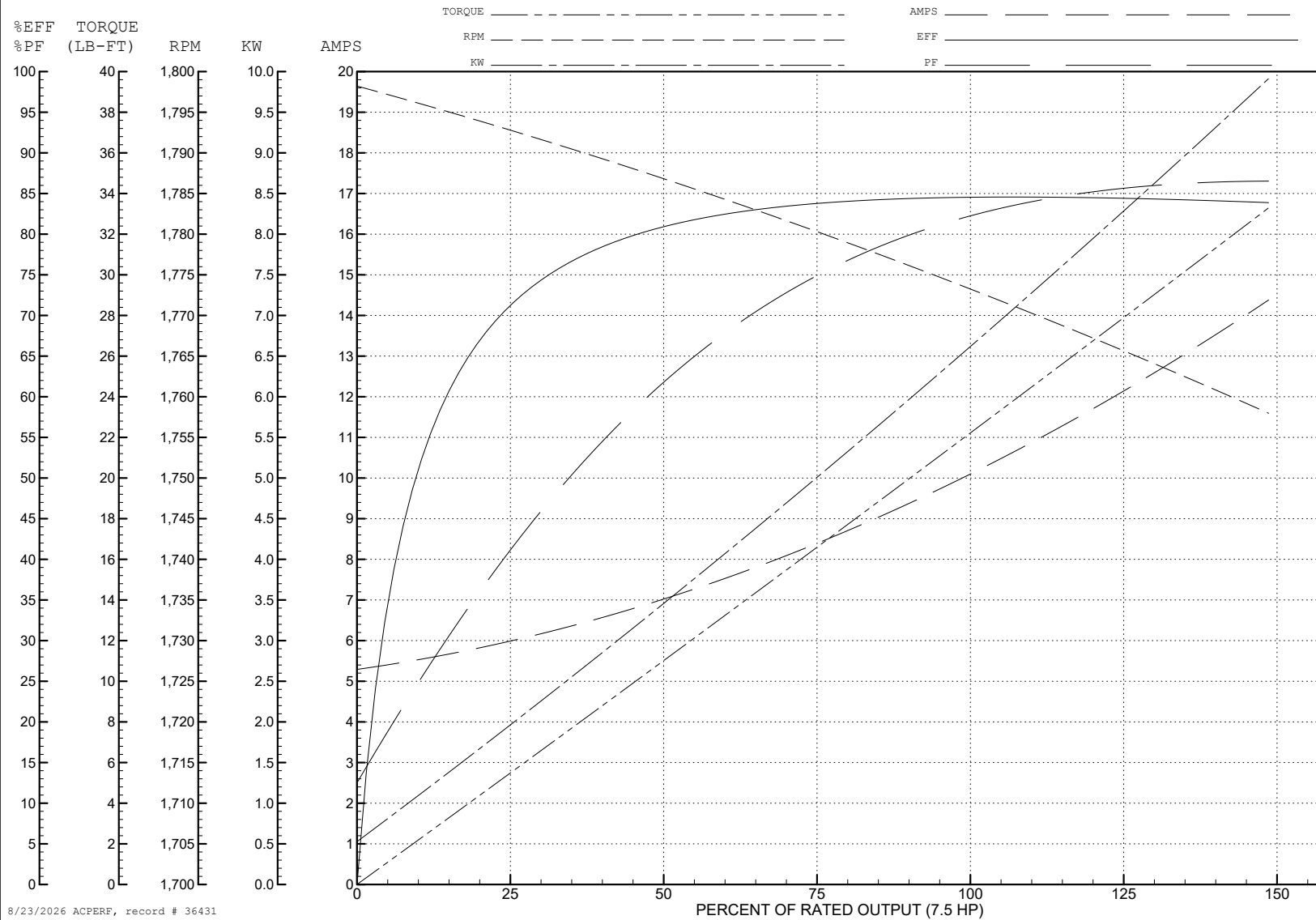
ABB Motors and Mechanical Inc.

WINDING # 09WGX206

Typical performance - not guaranteed values.

7.5 HP 3 PH 60 HZ 1773 RPM 460 V 0928M

TORQUES (LB-FT) : PO=81 PU=47 LR=55 LRA=72



**AC Induction Motor Performance Data**

Record # 36432

Typical performance - not guaranteed values

| Winding: 09WGX206-R002 |    |              | Type: 0928M  |                                       | Enclosure: TEFC |                       |        |
|------------------------|----|--------------|--------------|---------------------------------------|-----------------|-----------------------|--------|
| Nameplate Data         |    |              |              | 460 V, 60 Hz:<br>Low Speed Connection |                 |                       |        |
| Rated Output (HP)      |    | 7.5/3.3      |              | Full Load Torque                      |                 | 14.7 LB-FT            |        |
| Volts                  |    | 460          |              | Start Configuration                   |                 | direct on line        |        |
| Full Load Amps         |    | 10.3/5.7     |              | Breakdown Torque                      |                 | 52 LB-FT              |        |
| R.P.M.                 |    | 1760/1160    |              | Pull-up Torque                        |                 | 26 LB-FT              |        |
| Hz                     | 60 | Phase        | 3            | Locked-rotor Torque                   |                 | 31 LB-FT              |        |
| NEMA Design Code       |    | B            | KVA Code     | H                                     |                 | Starting Current      | 32 A   |
| Service Factor (S.F.)  |    | 1.15         |              | No-load Current                       |                 | 4.4 A                 |        |
| NEMA Nom. Eff.         |    | 0            | Power Factor | 0                                     |                 | Line-line Res. @ 25°C | 5.91 Ω |
| Rating - Duty          |    | 40C AMB-CONT |              | Temp. Rise @ Rated Load               |                 | 54°C                  |        |
| S.F. Amps              |    |              |              | Temp. Rise @ S.F. Load                |                 | 60°C                  |        |

**Load Characteristics 460 V, 60 Hz, 3.3 HP**

| % of Rated Load | 25   | 50   | 75   | 100  | 125  | 150  | S.F. |
|-----------------|------|------|------|------|------|------|------|
| Power Factor    | 29   | 45   | 57   | 67   | 74   | 78   | 71   |
| Efficiency      | 58.5 | 72   | 77.2 | 79.2 | 79.8 | 79.4 | 79.6 |
| Speed           | 1195 | 1191 | 1187 | 1182 | 1177 | 1172 | 1179 |
| Line amperes    | 4.5  | 4.8  | 5.2  | 5.7  | 6.6  | 7.5  | 6.32 |

ABB Motors and Mechanical Inc.

WINDING # 09WGX206

Typical performance - not guaranteed values.

3.3 HP 3 PH 60 HZ 1182 RPM 460 V 0928M

TORQUES (LB-FT) : PO=52 PU=26 LR=31 LRA=32

