

# ABB BALDOR RELIANCE III

---

## Customer information packet

### EJMM3212T-5

5HP, 3450RPM, 3PH, 60HZ, 182JM, 3622M, OPSB, F1

Class - None

Division - Not Applicable

**Specifications**

|                                |                           |
|--------------------------------|---------------------------|
| Enclosure                      | OPSB                      |
| Frame                          | 182JM                     |
| Frame Material                 | Steel                     |
| Frequency                      | 60.00 Hz                  |
| Haz Area Class and Group       | None                      |
| Haz Area Division              | Not Applicable            |
| Motor Letter Type              | Three Phase               |
| Output @ Frequency             | 5.000 HP @ 60 HZ          |
| Phase                          | 3                         |
| Synchronous Speed @ Frequency  | 3600 RPM @ 60 HZ          |
| Voltage @ Frequency            | 575.0 V @ 60 HZ           |
| Agency Approvals               | CSA EEV<br>CSA<br>UR      |
| Ambient Temperature            | 40 °C                     |
| Auxiliary Box                  | NO AUXILLARY BOX          |
| Auxiliary Box Lead Termination | None                      |
| Base Indicator                 | Rigid                     |
| Bearing Grease Type            | Polyrex EM (-20F +300F)   |
| Blower                         | None                      |
| Current @ Voltage              | 4.800 A @ 575.0 V         |
| Design Code                    | A                         |
| Drip Cover                     | No Drip Cover             |
| Duty Rating                    | CONT                      |
| Efficiency @ 100% Load         | 86.5 %                    |
| Electrically Isolated Bearing  | Not Electrically Isolated |
| Feedback Device                | NO FEEDBACK               |
| Front Face Code                | Standard                  |
| Front Shaft Indicator          | None                      |
| Heater Indicator               | No Heater                 |
| High Voltage Full Load Amps    | 4.8 a                     |
| Insulation Class               | F                         |

**Part Detail**

|              |            |
|--------------|------------|
| Revision     | M          |
| Type         | AC         |
| Mech. spec.  | 36G687     |
| Base         |            |
| Status       | PRD/A      |
| Elec. spec.  | 36WGS532   |
| Layout       | 36LYG687   |
| Eff. date    | 07-12-2024 |
| CD Diagram   | CD0006     |
| Poles        | 02         |
| Leads        | 3#16       |
| Proprietary  | False      |
| Created date | 08-13-2015 |

|                                      |                     |
|--------------------------------------|---------------------|
| <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> | 3 @ 16 AWG          |
| <b>Motor Lead Termination</b>        | Flying Leads        |
| <b>Motor Standards</b>               | NEMA                |
| <b>Motor Type</b>                    | 3622M               |
| <b>Mounting Arrangement</b>          | F1                  |
| <b>Number of Poles</b>               | 2                   |
| <b>Overall Length</b>                | 15.12 IN            |
| <b>Power Factor</b>                  | 91                  |
| <b>Product Family</b>                | General Purpose     |
| <b>Pulley End Bearing Type</b>       | Ball                |
| <b>Pulley Face Code</b>              | C-Face              |
| <b>Pulley Shaft Indicator</b>        | Tapped & Key        |
| <b>Rodent Screen</b>                 | Included            |
| <b>RoHS Status</b>                   | ROHS COMPLIANT      |
| <b>Service Factor</b>                | 1.15                |
| <b>Shaft Diameter</b>                | 0.875 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>                         | 3450 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                |
| <b>Winding Thermal 2</b>             | None                |

**Nameplate**

| NP1259L      |              |      |     |      |   |    |    |   |  |
|--------------|--------------|------|-----|------|---|----|----|---|--|
| CAT.NO.      | EJMM3212T-5  |      |     |      |   |    |    |   |  |
| SPEC.        | 36G687S532G1 |      |     |      |   |    |    |   |  |
| HP           | 5            |      |     |      |   |    |    |   |  |
| VOLTS        | 575          |      |     |      |   |    |    |   |  |
| AMP          | 4.8          |      |     |      |   |    |    |   |  |
| RPM          | 3450         |      |     |      |   |    |    |   |  |
| FRAME        | 182JM        |      | HZ  | 60   |   |    | PH | 3 |  |
| SER.F.       | 1.15         | CODE | K   | DES  | A | CL | F  |   |  |
| NEMA-NOM-EFF | 86.5         | PF   | 91  |      |   |    |    |   |  |
| RATING       | 40C AMB-CONT |      |     |      |   |    |    |   |  |
| CC           | 010A         |      |     |      |   |    |    |   |  |
| DE           | 6207         |      | ODE | 6205 |   |    |    |   |  |
| ENCL         | OPSB         | SN   |     |      |   |    |    |   |  |

**Parts List**

| Part number | Description                              | Quantity |
|-------------|------------------------------------------|----------|
| SA305549    | SA 36G687S532G1                          | 1.000 ea |
| RA292774    | RA 36G687S532G1                          | 1.000 ea |
| 36CB3004    | 36 CB CASTING W/1.09 DIA LEAD HOLE @ 6:0 | 1.000 ea |
| 51XB1016A07 | 10-16 X 7/16 HWSSLD SERTYB               | 2.000 ea |
| 11XW1032G06 | 10-32 X .38, TAPTITE II, HEX WSHR SLTD U | 1.000 ea |
| HW3001B01   | BRASS CUP WASHER, FOR #10 SCREW          | 1.000 ea |
| 36EP3204D00 | MASTER ODE,205 BRG,GRSR,RLF              | 1.000 ea |
| HA1103A08   | RODENT SCREEN, 36 FRAME, OPEN, FRONT END | 1.000 ea |
| 51XW1032A06 | 10-32 X .38, TAPTITE II, HEX WSHR SLTD S | 4.000 ea |
| HW1000A10   | #10 FLAT WASHER (SAE)                    | 4.000 ea |
| HW1000A10   | #10 FLAT WASHER (SAE)                    | 4.000 ea |
| HW4500A01   | 1641B(ALEMITE)400 UNIV, GREASE FITT      | 1.000 ea |
| HW4500A17   | 317400 ALEMITE GREASE RELIEF             | 1.000 ea |
| HW5100A05   | WVY WSHR F/205 & 304 BRGS                | 1.000 ea |
| 36EP3405A04 | PUEP 182-4C OPEN 207 BRG W/ TSLV, GRSR   | 1.000 ea |
| HA1102A07   | RODENT SCREEN 36 OPEN FACE               | 2.000 ea |
| 51XW1032A06 | 10-32 X .38, TAPTITE II, HEX WSHR SLTD S | 4.000 ea |
| HW4500A01   | 1641B(ALEMITE)400 UNIV, GREASE FITT      | 1.000 ea |
| HW4500A17   | 317400 ALEMITE GREASE RELIEF             | 1.000 ea |
| 10XN2520A24 | 1/4-20X 1 1/2 HEX HD X                   | 4.000 ea |
| HW1001A25   | LOCKWASHER 1/4, ZINC PLT .493 OD, .255 I | 4.000 ea |
| 36CB4516    | 750LIPPED CB LID - GALVANNEAL            | 1.000 ea |
| 51XW0832A07 | 8-32 X .44, TAPTITE II, HEX WSHR SLTD SE | 4.000 ea |
| HA1005A07   | SLINGER, OD 2.25, ID 1.344, 307 BRG      | 1.000 ea |
| HW2501D13   | KEY, 3/16 SQ X 1.375                     | 1.000 ea |
| HA7000A01   | KEY RETAINER 7/8" DIA SHAFT              | 1.000 ea |
| 85XU0407S04 | 4X1/4 U DRIVE PIN STAINLESS              | 2.000 ea |
| MJ1000A02   | GREASE, POLYREX EM EXXON                 | 0.050 lb |
| MG1050Y01   | CELEROL BALDOR GOLD *5 GALLON BUCKET*    | 0.022 ga |
| HA3101A23   | THRUBOLT 1/4-20 X 9.625 DEMBY            | 4.000 ea |
| 36AD2004A01 | BAFFLE PLATE,MOD 36-SLTD BAND MTRS DELTA | 2.000 ea |

|            |                                          |          |
|------------|------------------------------------------|----------|
| LC0006     | CONNECTION LABEL                         | 1.000 ea |
| NP1259L    | ALUM SUPER-E UL CC NEMA PREMIUM A60      | 1.000 ea |
| G7PA1000   | PKG GRP, PRINT PK1034A07                 | 1.000 ea |
| MN416A01   | TAG-INSTAL-MAINT no wire (2500 bx)11/25  | 1.000 ea |
| FE-0000004 | ZRTG FE ASSEMBLY                         | 1.000 ea |
| PE-0000004 | ZRTG PE ASSEMBLY                         | 1.000 ea |
| LB1624     | COMBINED WARNING LABEL, ISO/ANSI PICTOGR | 1.000 ea |

**AC Induction Motor Performance Data**

Record # 31647

Typical performance - not guaranteed values

| Winding: 36WGS532-R001 |  |      |  | Type: 3622M                           |  | Enclosure: OPSB           |  |
|------------------------|--|------|--|---------------------------------------|--|---------------------------|--|
| Nameplate Data         |  |      |  | 575 V, 60 Hz:<br>Single Voltage Motor |  |                           |  |
| Rated Output (HP)      |  | 5    |  | Full Load Torque                      |  | 7.65 LB-FT                |  |
| Volts                  |  | 575  |  | Start Configuration                   |  | direct on line            |  |
| Full Load Amps         |  | 4.8  |  | Breakdown Torque                      |  | 30.4 LB-FT                |  |
| R.P.M.                 |  | 3450 |  | Pull-up Torque                        |  | 18.1 LB-FT                |  |
| Hz                     |  | 60   |  | Phase                                 |  | 3                         |  |
| NEMA Design Code       |  | A    |  | KVA Code                              |  | K                         |  |
| Service Factor (S.F.)  |  | 1.15 |  | No-load Current                       |  | 1.54 A                    |  |
| NEMA Nom. Eff.         |  | 86.5 |  | Power Factor                          |  | 91                        |  |
| Rating - Duty          |  | 40C  |  | AMB-CONT                              |  | Temp. Rise @ Rated Load   |  |
| S.F. Amps              |  |      |  |                                       |  | Temp. Rise @ S.F. Load    |  |
|                        |  |      |  |                                       |  | Locked-rotor Power Factor |  |
|                        |  |      |  |                                       |  | Rotor inertia             |  |

**Load Characteristics 575 V, 60 Hz, 5 HP**

| % of Rated Load | 25   | 50   | 75   | 100  | 125  | 150  | S.F. |
|-----------------|------|------|------|------|------|------|------|
| Power Factor    | 62   | 80   | 88   | 91   | 92   | 93   | 92   |
| Efficiency      | 81.1 | 86.5 | 87.6 | 86.6 | 85.3 | 83.5 | 85.8 |
| Speed           | 3567 | 3537 | 3506 | 3469 | 3429 | 3387 | 3445 |
| Line amperes    | 1.96 | 2.75 | 3.71 | 4.81 | 6.01 | 7.27 | 5.53 |

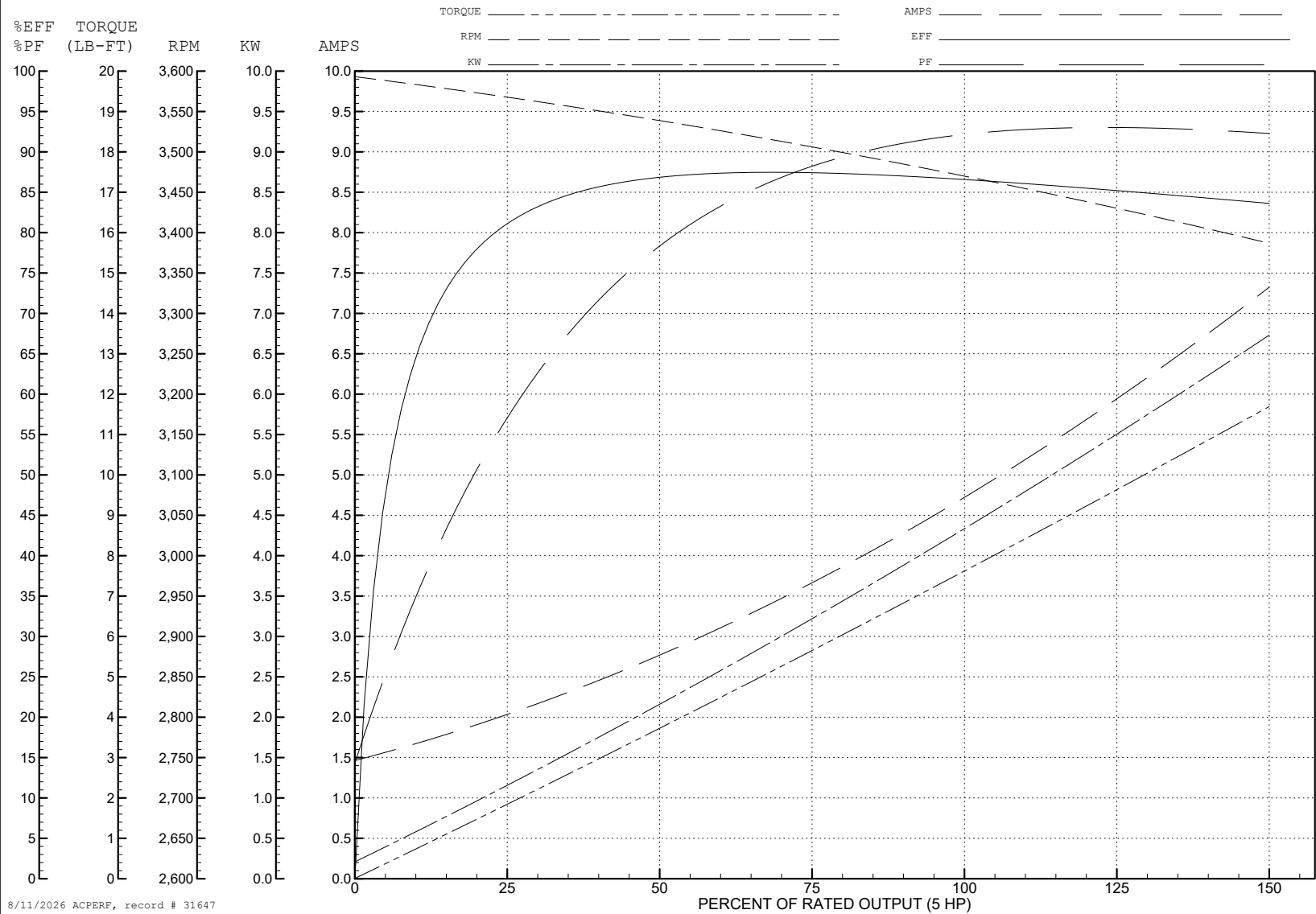
ABB Motors and Mechanical Inc.

WINDING # 36WGS532

Typical performance - not guaranteed values.

5 HP 3 PH 60 HZ 3450 RPM 575 V 3622M

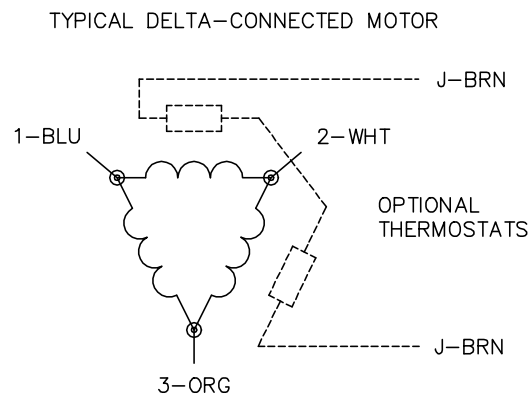
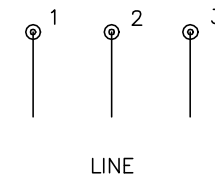
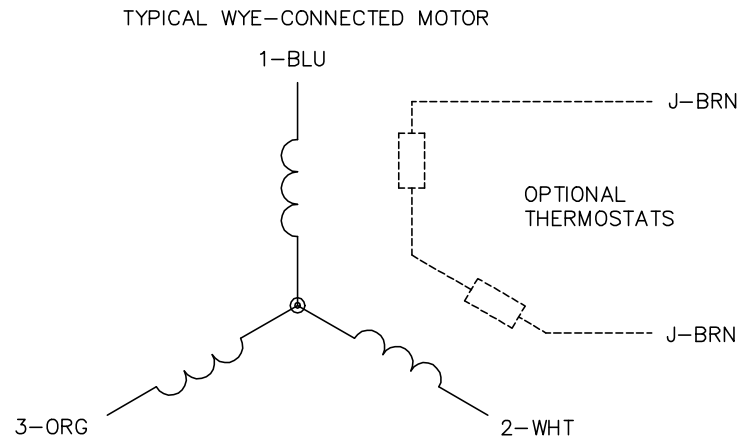
TORQUES (LB-FT): PO=30.4 PU=18.1 LR=22.4 LRA=40.5







CD0006



NOTES:

1. THREE LEAD MOTOR MAY BE EITHER WYE CONNECTED OR DELTA CONNECTED.
2. INTERCHANGE ANY TWO LINE LEADS TO REVERSE ROTATION.
3. OPTIONAL THERMOSTATS ARE PROVIDED WHEN SPECIFIED.
4. ACTUAL NUMBER OF INTERNAL PARALLEL CIRCUITS MAY VARY.
5. LEAD COLORS ARE OPTIONAL. LEADS MUST BE NUMBERED AS SHOWN.

CD0006

REV. DESC: ADD CLASS CONN00000007

REV. LTR: E

VERSION: 01

TDR: 000001099922

FILE: \AAA\00005\141

REVISED: 10: 24: 49 02/19/2019

BY: ENBRIRO

MTL: -



**BALDOR - RELIANCE®**

3PH, SV, 3 LEADS, WYE OR DELTA CONNECTED

SH 1 of 1