

# ABB BALDOR RELIANCE III

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## Customer information packet

### EJMM3219T

7.5HP, 3480RPM, 3PH, 60HZ, 184JM, 3632M, OPSB

Class - None

Division - Not Applicable

**Specifications**

|                                       |                                                               |
|---------------------------------------|---------------------------------------------------------------|
| <b>Enclosure</b>                      | OPSB                                                          |
| <b>Frame</b>                          | 184JM                                                         |
| <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>             | 7.500 HP @ 60 HZ                                              |
| <b>Phase</b>                          | 3                                                             |
| <b>Synchronous Speed @ Frequency</b>  | 3600 RPM @ 60 HZ                                              |
| <b>Voltage @ Frequency</b>            | 208.0 V @ 60 HZ<br>230.0 V @ 60 HZ<br>460.0 V @ 60 HZ         |
| <b>Agency Approvals</b>               | CURUSEEV<br>NEMA PREMIUM                                      |
| <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>              | 8.810 A @ 460.0 V<br>19.500 A @ 208.0 V<br>17.600 A @ 230.0 V |
| <b>Design Code</b>                    | A                                                             |
| <b>Drip Cover</b>                     | No Drip Cover                                                 |
| <b>Duty Rating</b>                    | CONT                                                          |
| <b>Efficiency @ 100% Load</b>         | 88.5 %                                                        |
| <b>Electrically Isolated Bearing</b>  | Not Electrically Isolated                                     |
| <b>Feedback Device</b>                | NO FEEDBACK                                                   |
| <b>Front Shaft Indicator</b>          | None                                                          |
| <b>Heater Indicator</b>               | No Heater                                                     |

**Part Detail**

|                     |            |
|---------------------|------------|
| <b>Revision</b>     | A          |
| <b>Type</b>         | AC         |
| <b>Mech. spec.</b>  | 36G687     |
| <b>Base</b>         |            |
| <b>Status</b>       | PRD/A      |
| <b>Elec. spec.</b>  | 36WZ653    |
| <b>Layout</b>       | 36LYG687   |
| <b>Eff. date</b>    | 01-07-2026 |
| <b>CD Diagram</b>   | CD0005     |
| <b>Poles</b>        | 02         |
| <b>Leads</b>        | 9#16       |
| <b>Proprietary</b>  | False      |
| <b>Created date</b> | 11-06-2025 |

|                               |                     |
|-------------------------------|---------------------|
| High Voltage Full Load Amps   | 8.8 a               |
| Insulation Class              | F                   |
| Inverter Code                 | Not Inverter        |
| KVA Code                      | L                   |
| Lifting Lugs                  | No Lifting Lugs     |
| Locked Bearing Indicator      | Locked Bearing      |
| 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               | 2                   |
| Overall Length                | 16.50 IN            |
| Power Factor                  | 90                  |
| Product Family                | General Purpose     |
| Pulley End Bearing Type       | Ball                |
| Pulley Face Code              | C-Face              |
| Pulley Shaft Indicator        | Tapped & Key        |
| Rodent Screen                 | Included            |
| Service Factor                | 1.15                |
| Shaft Diameter                | 0.875 IN            |
| Shaft Ground Indicator        | No Shaft Grounding  |
| Shaft Rotation                | Reversible          |
| Shaft Slinger Indicator       | Shaft Slinger       |
| Speed                         | 3480 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**

| NP1259L      |                    |      |     |      |   |    |   |    |   |  |  |
|--------------|--------------------|------|-----|------|---|----|---|----|---|--|--|
| CAT.NO.      | EJMM3219T          |      |     |      |   |    |   |    |   |  |  |
| SPEC.        | 36G687Z653         |      |     |      |   |    |   |    |   |  |  |
| HP           | 7.5                |      |     |      |   |    |   |    |   |  |  |
| VOLTS        | 208-230/460        |      |     |      |   |    |   |    |   |  |  |
| AMP          | 19.5-17.6/8.81     |      |     |      |   |    |   |    |   |  |  |
| RPM          | 3480               |      |     |      |   |    |   |    |   |  |  |
| FRAME        | 184JM              |      | HZ  | 60   |   |    |   | PH | 3 |  |  |
| SER.F.       | 1.15               | CODE | L   | DES  | A | CL | F |    |   |  |  |
| NEMA-NOM-EFF | 88.5               | PF   | 90  |      |   |    |   |    |   |  |  |
| RATING       | 40C AMB-CONT       |      |     |      |   |    |   |    |   |  |  |
| CC           | 010A               |      |     |      |   |    |   |    |   |  |  |
| DE           | 6207               |      | ODE | 6205 |   |    |   |    |   |  |  |
| ENCL         | OPSB               | SN   |     |      |   |    |   |    |   |  |  |
|              | SFA 22.3-20.1/10.1 |      |     |      |   |    |   |    |   |  |  |

**Parts List**

| Part number | Description                              | Quantity |
|-------------|------------------------------------------|----------|
| SA443020    | SA 36G687Z653                            | 1.000 ea |
| RA435516    | RA 36G687Z653                            | 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 |
| 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, GRSSR  | 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 |
| 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 |
| 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 |
| HA3101A25   | THRUBOLT 1/4-20 X 11.000 OHIO ROD        | 4.000 ea |
| 36AD2004A01 | BAFFLE PLATE,MOD 36-SLTD BAND MTRS DELTA | 2.000 ea |
| MG1050Y01   | CELEROL BALDOR GOLD *5 GALLON BUCKET*    | 0.022 ga |

|            |                                          |          |
|------------|------------------------------------------|----------|
| LB1624     | COMBINED WARNING LABEL, ISO/ANSI PICTOGR | 1.000 ea |
| LC0005     | CONN.DIA.,TY M,9-LD,DUAL VOLT,REVERSING  | 1.000 ea |
| NP1259L    | ALUM SUPER-E UL CC NEMA PREMIUM A60      | 1.000 ea |
| 36PA1000   | PKG GRP, PRINT PK1016A08                 | 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 |

**AC Induction Motor Performance Data**

Record # 115763

Typical performance - not guaranteed values

| Winding: 36WGZ653-R001 |    |                | Type: 3632M                              |                       | Enclosure: OPSB         |            |      |
|------------------------|----|----------------|------------------------------------------|-----------------------|-------------------------|------------|------|
| Nameplate Data         |    |                | 460 V, 60 Hz:<br>High Voltage Connection |                       |                         |            |      |
| Rated Output (HP)      |    | 7.5            | Full Load Torque                         |                       | 11.36 LB-FT             |            |      |
| Volts                  |    | 208-230/460    | Start Configuration                      |                       | direct on line          |            |      |
| Full Load Amps         |    | 19.5-17.6/8.81 | Breakdown Torque                         |                       | 70.5 LB-FT              |            |      |
| R.P.M.                 |    | 3480           | Pull-up Torque                           |                       | 39.5 LB-FT              |            |      |
| Hz                     | 60 | Phase          | 3                                        | Locked-rotor Torque   |                         | 45.1 LB-FT |      |
| NEMA Design Code       |    | A              | KVA Code                                 | Starting Current      |                         | 88.3 A     |      |
| Service Factor (S.F.)  |    | 1.15           | No-load Current                          |                       | 3.3 A                   |            |      |
| NEMA Nom. Eff.         |    | 88.5           | Power Factor                             | Line-line Res. @ 25°C |                         | 1.6854 Ω   |      |
| Rating - Duty          |    | 40C            | AMB-CONT                                 |                       | Temp. Rise @ Rated Load |            | 46°C |
| S.F. Amps              |    | 22.3-20.1/10.1 | Temp. Rise @ S.F. Load                   |                       | 58°C                    |            |      |
|                        |    |                | Locked-rotor Power Factor                |                       | 49.9                    |            |      |

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

| % of Rated Load | 25     | 50     | 75     | 100  | 125  | 150  | S.F. |
|-----------------|--------|--------|--------|------|------|------|------|
| Power Factor    | 53     | 76     | 85     | 90   | 92   | 93   | 91   |
| Efficiency      | 87.3   | 91     | 91.2   | 90.3 | 89   | 87.3 | 89.5 |
| Speed           | 3571.7 | 3544.8 | 3514.9 | 3484 | 3450 | 3414 | 3464 |
| Line amperes    | 3.82   | 5.12   | 6.8    | 8.69 | 10.7 | 13   | 9.9  |

ABB Motors and Mechanical Inc.

WINDING # 36WGZ653

Typical performance - not guaranteed values.

7.5 HP 3 PH 60 HZ 3480 RPM 460 V 3632M

TORQUES (LB-FT): PO=70.5 PU=39.5 LR=45.1 LRA=88.3





