

# ABB BALDOR RELIANCE III

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## Customer information packet

### EM3219T

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

Class - None

Division - Not Applicable

**Specifications**

|                                       |                                         |
|---------------------------------------|-----------------------------------------|
| <b>Enclosure</b>                      | OPSB                                    |
| <b>Frame</b>                          | 184T                                    |
| <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>            | 230.0 V @ 60 HZ<br>460.0 V @ 60 HZ      |
| <b>Agency Approvals</b>               | NEMA PREMIUM<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>              | 17.600 A @ 230.0 V<br>8.810 A @ 460.0 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                               |
| <b>High Voltage Full Load Amps</b>    | 8.8 a                                   |
| <b>Insulation Class</b>               | F                                       |

**Part Detail**

|                     |            |
|---------------------|------------|
| <b>Revision</b>     | A          |
| <b>Type</b>         | AC         |
| <b>Mech. spec.</b>  | 36G548     |
| <b>Base</b>         |            |
| <b>Status</b>       | PRD/A      |
| <b>Elec. spec.</b>  | 36WGZ653   |
| <b>Layout</b>       | 36LYG548   |
| <b>Eff. date</b>    | 03-31-2026 |
| <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 |

|                                      |                       |
|--------------------------------------|-----------------------|
| <b>Inverter Code</b>                 | Not Inverter          |
| <b>KVA Code</b>                      | L                     |
| <b>Lifting Lugs</b>                  | Standard Lifting Lugs |
| <b>Locked Bearing Indicator</b>      | No Locked Bearing     |
| <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>               | 2                     |
| <b>Overall Length</b>                | 14.99 IN              |
| <b>Power Factor</b>                  | 90                    |
| <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>RoHS Status</b>                   | ROHS COMPLIANT        |
| <b>Service Factor</b>                | 1.15                  |
| <b>Shaft Diameter</b>                | 1.125 IN              |
| <b>Shaft Ground Indicator</b>        | No Shaft Grounding    |
| <b>Shaft Rotation</b>                | Reversible            |
| <b>Shaft Slinger Indicator</b>       | No Slinger            |
| <b>Speed</b>                         | 3480 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**

| NP3553LUA                 |                                |               |     |      |   |       |   |  |  |
|---------------------------|--------------------------------|---------------|-----|------|---|-------|---|--|--|
| CAT.NO.                   | EM3219T                        |               |     |      |   |       |   |  |  |
| SPEC.                     | 36G548Z653                     |               |     |      |   |       |   |  |  |
| HP                        | 7.5                            |               |     |      |   |       |   |  |  |
| VOLTS                     | 230/460                        |               |     |      |   |       |   |  |  |
| AMPS                      | 17.6/8.81                      |               |     |      |   |       |   |  |  |
| RPM                       | 3480                           |               |     |      |   |       |   |  |  |
| FRAME                     | 184T                           |               | HZ  | 60   |   | PH    | 3 |  |  |
| SF                        | 1.15                           | CODE          | L   | DES  | A | CLASS | F |  |  |
| NEMA NOM. EFF             | 88.5                           | PF            | 90  |      |   |       |   |  |  |
| RATING                    | 40C AMB-CONT                   |               |     |      |   |       |   |  |  |
| CC                        | 010A                           |               |     |      |   |       |   |  |  |
| ENCL                      | OPSB                           | SN            |     |      |   |       |   |  |  |
| DE                        | 6206                           |               | ODE | 6205 |   |       |   |  |  |
| VPWM INVERTER READY       |                                | SFA 20.1/10.1 |     |      |   |       |   |  |  |
| CT30-60(2:1) VT3-60(20:1) |                                |               |     |      |   |       |   |  |  |
| USABLE AT                 | 50HZ 7.5HP 190/380V 21.2/10.6A |               |     |      |   |       |   |  |  |
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**Parts List**

| Part number | Description                              | Quantity |
|-------------|------------------------------------------|----------|
| SA443018    | SA 36G548Z653                            | 1.000 ea |
| RA435514    | RA 36G548Z653                            | 1.000 ea |
| 36CB3004    | 36 CB CASTING W/1.09 DIA LEAD HOLE @ 6:0 | 1.000 ea |
| 51XB1016A07 | 10-16 X 7/16 HXWSSLD SERTYB              | 2.000 ea |
| 11XW1032G06 | 10-32 X .38, TAPTITE II, HEX WSHR SLTD U | 1.000 ea |
| 36EP3204B00 | MASTER ODE,205 BRG,GRSR                  | 1.000 ea |
| HW4500A01   | 1641B(ALEMITE)400 UNIV, GREASE FITT      | 1.000 ea |
| HW5100A05   | WVY WSHR F/205 & 304 BRGS                | 1.000 ea |
| 36EP3205D00 | MASTER DE,206 BRG,1.197SH,GRSR           | 1.000 ea |
| HW4500A01   | 1641B(ALEMITE)400 UNIV, GREASE FITT      | 1.000 ea |
| XY2520A12   | 1/4-20 HEX NUT, DIRECTIONAL SERRATIONS   | 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 |
| HW2501E19   | STD SQUARE KEY .25 SQUARE X 2.125 LONG   | 1.000 ea |
| 85XU0407S04 | 4X1/4 U DRIVE PIN STAINLESS              | 2.000 ea |
| HA6362ZP    | LIFTING LUG FOR 36 FRAME MOTORS.         | 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 |
| LC0005      | CONN.DIA.,TY M,9-LD,DUAL VOLT,REVERSING  | 1.000 ea |
| NP3553LUA   | ALUM SUPER-E VPWM INV READY UL CC NEMA P | 1.000 ea |
| 36PA1000    | PKG GRP, PRINT PK1016A08                 | 1.000 ea |
| MN416A01    | TAG-INSTAL-MAINT no wire (2500 bx)11/25  | 1.000 ea |
| LB1624      | COMBINED WARNING LABEL, ISO/ANSI PICTOGR | 1.000 ea |
| FE-0000001  | ZRTG FE ASSEMBLY                         | 1.000 ea |
| PE-0000001  | ZRTG PE ASSEMBLY                         | 1.000 ea |

**Accessories**

| Part number   | Description  | Multiplier |
|---------------|--------------|------------|
| 36-3403       | C FACE KIT   | A8         |
| 36EP1405A09SP | D-FLANGE KIT | A8         |

**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





