

# ABB BALDOR RELIANCE III

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## Customer information packet

### EBM3154T

1.5HP, 1770RPM, 3PH, 60HZ, 145T, 3524M, OPEN, F

Class - None

Division - Not Applicable

**Specifications**

|                                       |                                                             |
|---------------------------------------|-------------------------------------------------------------|
| <b>Enclosure</b>                      | OPEN                                                        |
| <b>Frame</b>                          | 145T                                                        |
| <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>  | 1800 RPM @ 60 HZ                                            |
| <b>Voltage @ Frequency</b>            | 230.0 V @ 60 HZ<br>460.0 V @ 60 HZ                          |
| <b>Agency Approvals</b>               | CSA EEV<br>NEMA PREMIUM<br>NEMA_PREMIUM<br>UR               |
| <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>              | 4.640 A @ 208.0 V<br>4.600 A @ 230.0 V<br>2.300 A @ 460.0 V |
| <b>Design Code</b>                    | B                                                           |
| <b>Drip Cover</b>                     | No Drip Cover                                               |
| <b>Duty Rating</b>                    | CONT                                                        |
| <b>Efficiency @ 100% Load</b>         | 86.5 %                                                      |
| <b>Electrically Isolated Bearing</b>  | Not Electrically Isolated                                   |
| <b>Feedback Device</b>                | NO FEEDBACK                                                 |
| <b>Front Shaft Indicator</b>          | None                                                        |

**Part Detail**

|                     |            |
|---------------------|------------|
| <b>Revision</b>     | E          |
| <b>Type</b>         | AC         |
| <b>Mech. spec.</b>  | 35BB021    |
| <b>Base</b>         |            |
| <b>Status</b>       | PRD/A      |
| <b>Elec. spec.</b>  | 35WGL955   |
| <b>Layout</b>       | 35LYBB021  |
| <b>Eff. date</b>    | 01-12-2026 |
| <b>CD Diagram</b>   | CD0005     |
| <b>Poles</b>        | 04         |
| <b>Leads</b>        | 9#18       |
| <b>Proprietary</b>  | False      |
| <b>Created date</b> | 01-10-2022 |

|                               |                     |
|-------------------------------|---------------------|
| Heater Indicator              | No Heater           |
| High Voltage Full Load Amps   | 2.3 a               |
| Insulation Class              | F                   |
| Inverter Code                 | Inverter Ready      |
| KVA Code                      | M                   |
| Lifting Lugs                  | No Lifting Lugs     |
| Locked Bearing Indicator      | No Locked Bearing   |
| Motor Lead Quantity/Wire Size | 9 @ 18 AWG          |
| Motor Lead Termination        | Flying Leads        |
| Motor Standards               | NEMA                |
| Motor Type                    | 3524M               |
| Mounting Arrangement          | F1                  |
| Number of Poles               | 4                   |
| Overall Length                | 16.37 IN            |
| Power Factor                  | 72                  |
| Product Family                | General Purpose     |
| Pulley End Bearing Type       | Ball                |
| Pulley Face Code              | Standard            |
| Pulley Shaft Indicator        | Standard            |
| Rodent Screen                 | None                |
| Service Factor                | 1.15                |
| Shaft Diameter                | 0.875 IN            |
| Shaft Ground Indicator        | No Shaft Grounding  |
| Shaft Rotation                | Reversible          |
| Shaft Slinger Indicator       | No Slinger          |
| Speed                         | 1770 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.      | EBM3154T      |      |     |      |   |    |   |    |   |  |  |
| SPEC.        | 35BB021L955G1 |      |     |      |   |    |   |    |   |  |  |
| HP           | 1.5           |      |     |      |   |    |   |    |   |  |  |
| VOLTS        | 230/460       |      |     |      |   |    |   |    |   |  |  |
| AMP          | 4.6/2.3       |      |     |      |   |    |   |    |   |  |  |
| RPM          | 1770          |      |     |      |   |    |   |    |   |  |  |
| FRAME        | 145T          |      | HZ  | 60   |   |    |   | PH | 3 |  |  |
| SER.F.       | 1.15          | CODE | M   | DES  | B | CL | F |    |   |  |  |
| NEMA-NOM-EFF | 86.5          | PF   | 72  |      |   |    |   |    |   |  |  |
| RATING       | 40C AMB-CONT  |      |     |      |   |    |   |    |   |  |  |
| CC           | 010A          |      |     |      |   |    |   |    |   |  |  |
| DE           | 6205          |      | ODE | 6203 |   |    |   |    |   |  |  |
| ENCL         | OPEN          | SN   |     |      |   |    |   |    |   |  |  |
|              | SFA 4.88/2.44 |      |     |      |   |    |   |    |   |  |  |

**Parts List**

| Part number | Description                              | Quantity |
|-------------|------------------------------------------|----------|
| SA401935    | SA 35BB021L955G1                         | 1.000 ea |
| RA393198    | RA 35BB021L955G1                         | 1.000 ea |
| 34FN3002B01 | EXTERNAL FAN, PLASTIC, .637/.639 HUB W/  | 1.000 ea |
| NS2512A01   | INSULATOR, CONDUIT BOX X                 | 1.000 ea |
| 35CB3009    | 35 CB W/1.09 DIA. LEAD HOLE @ 6:         | 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 |
| 35EP3900A02 | SPL FACE MTD FR EP-OPEN-W/STEARNS BRAKE  | 1.000 ea |
| HW4500A01   | 1641B(ALEMITE)400 UNIV, GREASE FITT      | 1.000 ea |
| HW5100A03   | WAVY WASHER (W1543-017)                  | 1.000 ea |
| 35EP3210A00 | MASTER DE,205 BRG,1.000SH,GRSR           | 1.000 ea |
| HW4500A01   | 1641B(ALEMITE)400 UNIV, GREASE FITT      | 1.000 ea |
| XY1032A02   | 10-32 HEX NUT DIRECTIONAL SERRATION      | 4.000 ea |
| HW2501D10   | KEY, 3/16 SQ X 1.000                     | 1.000 ea |
| 35CB4521    | 35 LIPPED CB LID (GALV & PHOSPH)         | 1.000 ea |
| 51XW0832A07 | 8-32 X .44, TAPTITE II, HEX WSHR SLTD SE | 4.000 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 |
| 84XN3816J28 | HEX SOC HD, 3/8-16 X 1.75 LONG           | 2.000 ea |
| MG1050Y01   | CELEROL BALDOR GOLD *5 GALLON BUCKET*    | 0.017 ga |
| HA3100A18   | THRUBOLT 10-32 X 9.250                   | 4.000 ea |
| 76BK3100BQF | 1-056-031-00-BQF BRAKE TDR# 79345        | 1.000 ea |
| 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 |
| PE-0000001  | ZRTG PE ASSEMBLY                         | 1.000 ea |

ABB Motors and Mechanical Inc.

WINDING # 35WGL955

Typical performance - not guaranteed values.

1.5 HP 3 PH 60 HZ 1770 RPM 460 V 3524M

TORQUES (LB-FT): PO=18.8 PU=9.6 LR=12.6 LRA=19.7





