

# ABB BALDOR RELIANCE III

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## Customer information packet

### DRX14244T

2/1.5HP, 1765//1455RPM, 3PH, 60//50HZ, 145T

Class - CLI GP C,D

Division - Division I

**Specifications**

|                                |                                                                                                       |
|--------------------------------|-------------------------------------------------------------------------------------------------------|
| Enclosure                      | XPFC                                                                                                  |
| Frame                          | 145T                                                                                                  |
| Frame Material                 | Steel                                                                                                 |
| Frequency                      | 50.00 Hz<br>60.00 Hz                                                                                  |
| Haz Area Class and Group       | CLI GP C,D                                                                                            |
| Haz Area Division              | Division I                                                                                            |
| Motor Letter Type              | Three Phase                                                                                           |
| Output @ Frequency             | 1.500 HP @ 60 HZ<br>2.000 HP @ 60 HZ                                                                  |
| Phase                          | 3                                                                                                     |
| Synchronous Speed @ Frequency  | 1800 RPM @ 60 HZ                                                                                      |
| Voltage @ Frequency            | 230.0 V @ 60 HZ<br>190.0 V @ 50 HZ<br>460.0 V @ 60 HZ<br>380.0 V @ 50 HZ                              |
| Agency Approvals               | CSA EEV<br>UL                                                                                         |
| 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                                                                                                  |
| Constant Torque Speed Range    | 6                                                                                                     |
| Current @ Voltage              | 5.600 A @ 230.0 V<br>5.800 A @ 208.0 V<br>5.200 A @ 190.0 V<br>2.800 A @ 460.0 V<br>2.600 A @ 380.0 V |
| Design Code                    | B                                                                                                     |
| Drip Cover                     | No Drip Cover                                                                                         |

**Part Detail**

|              |            |
|--------------|------------|
| Revision     | E          |
| Type         | AC         |
| Mech. spec.  |            |
| Base         |            |
| Status       | PRD/A      |
| Elec. spec.  | 35WGG073   |
| Layout       | 35LYX081   |
| Eff. date    | 08-17-2023 |
| CD Diagram   | CD0005     |
| Poles        | 04         |
| Leads        | 9#18       |
| Proprietary  | False      |
| Created date | 10-28-2021 |

|                                      |                                   |
|--------------------------------------|-----------------------------------|
| <b>Duty Rating</b>                   | <b>CONT</b>                       |
| <b>Efficiency @ 100% Load</b>        | <b>86.5 %</b>                     |
| <b>Electrically Isolated Bearing</b> | <b>Not Electrically Isolated</b>  |
| <b>Feedback Device</b>               | <b>NO FEEDBACK</b>                |
| <b>Haz Area Temp Code</b>            | <b>T3C</b>                        |
| <b>Heater Indicator</b>              | <b>No Heater</b>                  |
| <b>High Voltage Full Load Amps</b>   | <b>2.6 a</b>                      |
| <b>Insulation Class</b>              | <b>F</b>                          |
| <b>Inverter Code</b>                 | <b>Inverter Duty</b>              |
| <b>KVA Code</b>                      | <b>K</b>                          |
| <b>Lifting Lugs</b>                  | <b>No Lifting Lugs</b>            |
| <b>Locked Bearing Indicator</b>      | <b>Locked Bearing</b>             |
| <b>Max Speed</b>                     | <b>2700 rpm</b>                   |
| <b>Motor Lead Termination</b>        | <b>Flying Leads</b>               |
| <b>Motor Standards</b>               | <b>NEMA</b>                       |
| <b>Motor Type</b>                    | <b>3528M</b>                      |
| <b>Mounting Arrangement</b>          | <b>F1</b>                         |
| <b>Number of Poles</b>               | <b>4</b>                          |
| <b>Overall Length</b>                | <b>15.09 IN</b>                   |
| <b>Power Factor</b>                  | <b>77</b>                         |
| <b>Product Family</b>                | <b>General Purpose</b>            |
| <b>Pulley Face Code</b>              | <b>Standard</b>                   |
| <b>Rodent Screen</b>                 | <b>None</b>                       |
| <b>Service Factor</b>                | <b>1.00</b>                       |
| <b>Shaft Diameter</b>                | <b>0.875 IN</b>                   |
| <b>Shaft Ground Indicator</b>        | <b>No Shaft Grounding</b>         |
| <b>Shaft Rotation</b>                | <b>Reversible</b>                 |
| <b>Speed</b>                         | <b>1760 rpm</b>                   |
| <b>Speed Code</b>                    | <b>Single Speed</b>               |
| <b>Starting Method</b>               | <b>Direct on line</b>             |
| <b>Thermal Device - Bearing</b>      | <b>None</b>                       |
| <b>Thermal Device - Winding</b>      | <b>Normally Closed Thermostat</b> |
| <b>Vibration Sensor Indicator</b>    | <b>No Vibration Sensor</b>        |
| <b>Winding Thermal 1</b>             | <b>None</b>                       |

Winding Thermal 2

None

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**Nameplate**

| NP1401XPSLEV |                  |        |              |       |     |          |                      |         |          |    |  |  |
|--------------|------------------|--------|--------------|-------|-----|----------|----------------------|---------|----------|----|--|--|
| NO.          |                  |        |              |       |     |          | CC                   | 010A    |          |    |  |  |
| S/N          |                  |        |              |       |     |          | TEMP CODE            | T3C     |          |    |  |  |
| SPEC.        | 35-0000-1353     |        |              |       |     |          | INV.TYPE             | PWM     |          |    |  |  |
| CAT.NO.      | DRX14244T        |        |              |       |     |          | C HP FR              | 60      | C HP TO  | 90 |  |  |
| HP           | 2/1.5            |        |              |       |     |          | CT HZ FROM           | 6       | CT HZ TO | 60 |  |  |
| VOLTS        | 230/460//190/380 |        |              |       |     |          | VT HZ FROM           | 6       | VT HZ TO | 60 |  |  |
| AMPS         | 5.6/2.8//5.2/2.6 |        |              |       |     |          | MAG CUR              | 3.2/1.6 |          |    |  |  |
| RPM          | 1760//1465       |        |              |       |     |          | MX RPM               | 2700    |          |    |  |  |
| HZ           | 60//50           | PH     | 3            | CL    | F   | NOM.EFF. | 86.5                 |         |          |    |  |  |
| SER.F.       | 1.00             | DES    | B            | SL HZ | 1.3 | WK2      | 0.202                |         |          |    |  |  |
| FRAME        | 145T             | RATING | 40C AMB-CONT |       |     |          |                      |         |          |    |  |  |
|              | 55C AMB @ 1.0 SF |        |              |       |     |          |                      |         |          |    |  |  |
|              | 1.15 SF SINEWAVE |        |              |       |     |          | NEMA MG-1 PT 5, IP55 |         |          |    |  |  |

**Parts List**

| Part number   | Description                               | Quantity |
|---------------|-------------------------------------------|----------|
| SA400498      | SA 35-0000-1353                           | 1.000 ea |
| RA391661      | RA 35-0000-1353                           | 1.000 ea |
| LB1624        | COMBINED WARNING LABEL, ISO/ANSI PICTOGR  | 1.000 ea |
| LC0145B01     | CONNECTION LABEL                          | 1.000 ea |
| NP1401XPSLEV  | SS XP INV UL CSA-EEV CC CL-I GP-C&D       | 1.000 ea |
| 85XU0407S04   | 4X1/4 U DRIVE PIN STAINLESS               | 2.000 ea |
| 85XU0407S04   | 4X1/4 U DRIVE PIN STAINLESS               | 4.000 ea |
| MN416A01      | TAG-INSTAL-MAINT no wire (2500 bx)11/25   | 1.000 ea |
| LB1359F       | ALUM XP CAUTION LABEL                     | 1.000 ea |
| 35FH4005A01SP | IEC FH NO GREASER W/PRIMED                | 1.000 ea |
| 51XW1032A06   | 10-32 X .38, TAPTITE II, HEX WSHR SLTD S  | 3.000 ea |
| 35FN3002A05SP | EXFN, PLASTIC, 6.376 OD, .638 ID          | 1.000 ea |
| MJ1000A02     | GREASE, POLYREX EM EXXON                  | 0.050 lb |
| HA3104A08     | THRUBOLT 5/16-18 X 9.375 X                | 4.000 ea |
| XY3118A12     | 5/16-18 HEX NUT DIRECTIONAL SERRATION     | 4.000 ea |
| 35EP1715A08   | FREP XPFC 203 BRG GROUP "C" W/DRAIN       | 1.000 ea |
| HW5100A03     | WAVY WASHER (W1543-017)                   | 1.000 ea |
| HW4506A02     | BREATHING/DRAIN-EXP PROOF-.125-27 NPTF AI | 1.000 ea |
| HW3022E05     | .125 DIA X .500 ROLLED SPRING PIN         | 1.000 ea |
| 35EP3701B05   | PUEP X-PROOF - 205 BRG GROUP C&E          | 1.000 ea |
| HA2009A86     | SLINGER FOR GROUP E MTRS - 205 BRG.       | 1.000 ea |
| 80XN0632J06   | SET SCREW, 6-32 X 3/8", HEX SOCKET, AS    | 1.000 ea |
| HW4506A02     | BREATHING/DRAIN-EXP PROOF-.125-27 NPTF AI | 1.000 ea |
| HW3022E05     | .125 DIA X .500 ROLLED SPRING PIN         | 1.000 ea |
| 35CB1005A01   | CONDUIT BOX,MACH - GROUP "C" MTRS         | 1.000 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 |
| 35CB1501A01   | CONDUIT BOX LID, MACH. - GROUP "C" MTRS   | 1.000 ea |
| RM1020A41     | O-RING, -150 BUNA-N, .103 CS X 2.862 ID   | 1.000 ea |
| MG1500Y02     | WILKOPON PRIMER YELLOW                    | 0.001 ga |
| MG1025G29     | WILKOFAS, 789.229, DARK CHARCOAL GRAY     | 0.022 ga |

|           |                             |          |
|-----------|-----------------------------|----------|
| 36PA1000  | PKG GRP, PRINT PK1016A08    | 1.000 ea |
| HW2501D13 | KEY, 3/16 SQ X 1.375        | 1.000 ea |
| HA7000A01 | KEY RETAINER 7/8" DIA SHAFT | 1.000 ea |







