

# ABB BALDOR RELIANCE III

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## Customer information packet

### CESSWDM3545-H

1HP, 3450RPM, 3PH, 60HZ, 56HC, TENV, F1

Class - None

Division - Not Applicable

**Specifications**

|                                       |                                                             |
|---------------------------------------|-------------------------------------------------------------|
| <b>Enclosure</b>                      | TENV                                                        |
| <b>Frame</b>                          | 56HC                                                        |
| <b>Frame Material</b>                 | Stainless 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>             | 1.000 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>               | UR<br>CSA                                                   |
| <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>              | 1.300 A @ 460.0 V<br>2.600 A @ 230.0 V<br>2.800 A @ 208.0 V |
| <b>Design Code</b>                    | B                                                           |
| <b>Drip Cover</b>                     | No Drip Cover                                               |
| <b>Duty Rating</b>                    | CONT                                                        |
| <b>Efficiency @ 100% Load</b>         | 84.0 %                                                      |
| <b>Electrically Isolated Bearing</b>  | Not Electrically Isolated                                   |
| <b>Feedback Device</b>                | NO FEEDBACK                                                 |
| <b>Heater Indicator</b>               | No Heater                                                   |
| <b>High Voltage Full Load Amps</b>    | 1.3 a                                                       |
| <b>Insulation Class</b>               | F                                                           |

**Part Detail**

|                     |              |
|---------------------|--------------|
| <b>Revision</b>     | B            |
| <b>Type</b>         | AC           |
| <b>Mech. spec.</b>  |              |
| <b>Base</b>         |              |
| <b>Status</b>       | PRD/A        |
| <b>Elec. spec.</b>  | 35WGR090     |
| <b>Layout</b>       | 35LY-000-350 |
| <b>Eff. date</b>    | 06-14-2024   |
| <b>CD Diagram</b>   | CD0005       |
| <b>Poles</b>        | 02           |
| <b>Leads</b>        | 9#18         |
| <b>Proprietary</b>  | False        |
| <b>Created date</b> | 05-26-2020   |

|                                   |                               |
|-----------------------------------|-------------------------------|
| <b>Inverter Code</b>              | Not Inverter                  |
| <b>KVA Code</b>                   | L                             |
| <b>Lifting Lugs</b>               | No Lifting Lugs               |
| <b>Locked Bearing Indicator</b>   | Locked Bearing                |
| <b>Motor Finish</b>               | UNPAINTED                     |
| <b>Motor Lead Termination</b>     | Flying Leads                  |
| <b>Motor Standards</b>            | NEMA                          |
| <b>Motor Type</b>                 | 3520M                         |
| <b>Mounting Arrangement</b>       | F1                            |
| <b>Number of Poles</b>            | 2                             |
| <b>Overall Length</b>             | 11.97 IN                      |
| <b>Power Factor</b>               | 88                            |
| <b>Product Family</b>             | Wash Down All Stainless Steel |
| <b>Pulley Face Code</b>           | C-Face                        |
| <b>Rodent Screen</b>              | None                          |
| <b>Service Factor</b>             | 1.25                          |
| <b>Shaft Diameter</b>             | 0.625 IN                      |
| <b>Shaft Ground Indicator</b>     | No Shaft Grounding            |
| <b>Shaft Rotation</b>             | Reversible                    |
| <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**

| NP1953A01    |                |  |      |     |      |   |  |       |    |   |  |
|--------------|----------------|--|------|-----|------|---|--|-------|----|---|--|
| CAT.NO.      | CESSWDM3545-H  |  |      |     |      |   |  |       |    |   |  |
| SPEC.        | 35-0000-0796   |  |      |     |      |   |  |       |    |   |  |
| HP           | 1              |  |      |     |      |   |  |       |    |   |  |
| VOLTS        | 230/460        |  |      |     |      |   |  |       |    |   |  |
| AMP          | 2.6/1.3        |  |      |     |      |   |  |       |    |   |  |
| RPM          | 3450 SFA 3/1.5 |  |      |     |      |   |  |       |    |   |  |
| FRAME        | 56HC           |  |      | HZ  | 60   |   |  |       | PH | 3 |  |
| SER.F.       | 1.25           |  | CODE | L   | DES  | B |  | CLASS | F  |   |  |
| NEMA-NOM-EFF | 84             |  |      | PF  | 88   |   |  |       |    |   |  |
| RATING       | 40C AMB-CONT   |  |      |     |      |   |  |       |    |   |  |
| CC           | 010A           |  |      |     |      |   |  |       |    |   |  |
| DE           | 6205           |  |      | ODE | 6203 |   |  |       |    |   |  |
| ENCL         | TENV           |  | SN   |     |      |   |  |       |    |   |  |
|              | 4:1CT 20:1VT   |  |      |     |      |   |  |       |    |   |  |

**Parts List**

| Part number | Description                              | Quantity |
|-------------|------------------------------------------|----------|
| SA382420    | SA 35-0000-0796                          | 1.000 ea |
| RA372554    | RA 35-0000-0796                          | 1.000 ea |
| MN416A01    | TAG-INSTAL-MAINT no wire (2500 bx)11/25  | 1.000 ea |
| MJ1000A02   | GREASE, POLYREX EM EXXON                 | 0.050 lb |
| HA3100S24   | THRUBOLT 8.625 LENGTH 1.250 TH LENGTH SS | 1.000 ea |
| HA1049A01   | DUBO LOK WASHER SIZE 10 (NYLON LOCK SEAL | 4.000 ea |
| 35EP1913A01 | FRONT TENV 203 BRG NO GRSR S/P 9-2 (STAI | 1.000 ea |
| HW5100A03   | WAVY WASHER (W1543-017)                  | 1.000 ea |
| HW4500S33   | 1/8 NPT STAINLESS #304 SS PLUG           | 3.000 ea |
| HW5002A103  | RET RING N5002-206 WALDES KOHINOOR       | 1.000 ea |
| 35EP1935A05 | PULLEY 56HC ENCL 205 BRG WD4             | 1.000 ea |
| HW4606A02   | JM CLIPPER/SEAL (LWE-0938-1624-AL23)     | 1.000 ea |
| HA5027A02   | HA4054 T-DRAIN X2 BAGGED WITH LABEL      | 1.000 ea |
| HW4500S33   | 1/8 NPT STAINLESS #304 SS PLUG           | 3.000 ea |
| 35CB1004A01 | 15 CB W/.50 NPT @ 6 & #8-32 LID HOLES (S | 1.000 ea |
| 35GS1041    | 35 MOLDED GASKET W/LIP, 1.12 LEAD HOLE,  | 1.000 ea |
| 51XN1032A08 | 10-32 X 0.500 HX WS SL SR ZN             | 2.000 ea |
| 11XW1032G06 | 10-32 X .38, TAPTITE II, HEX WSHR SLTD U | 1.000 ea |
| 35CB4515    | 35 CB LID #304 STAINLESS STEEL           | 1.000 ea |
| 36GS3008SP  | WHITE NEOPRENE KO BOX LID GASKET         | 1.000 ea |
| 59XN0832S07 | 8/32 X 7/16 HX WS HD SER X               | 4.000 ea |
| NS2512A01   | INSULATOR, CONDUIT BOX X                 | 1.000 ea |
| MJ5001A02   | 732 CL SEALANT 3 OZ DIXIE BEARING 289100 | 0.001 ea |
| 36PA1000    | PKG GRP, PRINT PK1016A08                 | 1.000 ea |
| HW2502D13   | SS KEY, 3/16 SQ X 1.375                  | 1.000 ea |
| HA7000A04   | KEY RETAINER 0.625 DIA SHAFTS            | 1.000 ea |
| FE-0000007  | ZRTG FE ASSEMBLY                         | 1.000 ea |
| PE-0000012  | ZRTG PE ASSEMBLY                         | 1.000 ea |

ABB Motors and Mechanical Inc.

WINDING # 35WGL314

Typical performance - not guaranteed values.

1 HP 3 PH 60 HZ 3450 RPM 460 V 3520M

TORQUES (LB-FT): PO=8.51 PU=6.16 LR=8.01 LRA=15.1





