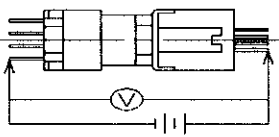


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In case of consideration for using Automotive equipment / device which demand high reliability, kindly contact our sales window correspondents.

| COUNT   | DESCRIPTION OF REVISIONS    | BY   | CHKD | DATE | COUNT  | DESCRIPTION OF REVISIONS | BY              | CHKD                        | DATE     |
|---|-----------------------------|--|------|------|--|--------------------------|-----------------|-----------------------------|----------|
| △   |                             |  |      |      | △  |                          |                 |                             |          |
| △   |                             |  |      |      | △  |                          |                 |                             |          |
| <b>APPLICABLE STANDARD</b>  |                             |  |      |      |  |                          |                 |                             |          |
| RATING  | OPERATING TEMPERATURE RANGE | -55 °C TO 85 °C  |      |      | STORAGE TEMPERATURE RANGE  | °C TO °C                 |                 |                             |          |
|   | VOLTAGE                     | 250 V AC   |      |      | OPERATING HUMIDITY RANGE   | % TO %                   |                 |                             |          |
|   | CURRENT                     | 0.5 A  |      |      | APPLICABLE CABLE   |                          |                 |                             |          |
| <b>SPECIFICATIONS</b>   |                             |  |      |      |  |                          |                 |                             |          |
| ITEM  |                             | TEST METHOD  |      |      | REQUIREMENTS   |                          |                 | QT                          | AT       |
| <b>CONSTRUCTION</b>   |                             |  |      |      |  |                          |                 |                             |          |
| GENERAL EXAMINATION   |                             | VISUALLY AND BY MEASURING INSTRUMENT.  |      |      | ACCORDING TO DRAWING.  |                          |                 | ○                           | ○        |
| MARKING   |                             | CONFIRMED VISUALLY.  |      |      |  |                          |                 | ○                           | ○        |
| <b>ELECTRIC CHARACTERISTICS</b>   |                             |  |      |      |  |                          |                 |                             |          |
| CONTACT RESISTANCE  |                             | 100 mA (DC OR 1000 Hz). <span style="border: 1px solid black; padding: 0 2px;">1</span>                |      |      | 35 mΩ MAX.   |                          |                 | ○                           | ○        |
| INSULATION RESISTANCE   |                             | 500 V DC.  |      |      | 500 MΩ MIN.  |                          |                 | ○                           | ○        |
| VOLTAGE PROOF   |                             | 500 V AC FOR 1 min.  |      |      | NO FLASHOVER OR BREAKDOWN.   |                          |                 | ○                           | ○        |
| <b>MECHANICAL CHARACTERISTICS</b>   |                             |  |      |      |  |                          |                 |                             |          |
| INSERTION AND WITHDRAWAL FORCES   |                             | MEASURED BY APPLICABLE CONNECTOR.  |      |      | 31.4 N MIN.<br>117.6 N MAX.  |                          |                 | ○                           | —        |
| MECHANICAL OPERATION  |                             | 1000 TIMES INSERTIONS AND EXTRACTIONS. <span style="border: 1px solid black; padding: 0 2px;">1</span> |      |      | ① CONTACT RESISTANCE: 35 mΩ MAX.<br>② NO DAMAGE, CRACK AND LOOSENESS, OF PARTS.  |                          |                 | ○                           | —        |
| VIBRATION   |                             | FREQUENCY 10 TO 55 Hz, SINGLE AMPLITUDE 0.75 mm, — m/s <sup>2</sup> AT 2h, FOR 3 DIRECTIONS.           |      |      | NO DAMAGE, CRACK AND LOOSENESS, OF PARTS.  |                          |                 | ○                           | —        |
| SHOCK   |                             | 490 m/s <sup>2</sup> DURATION OF PULSE 11 ms AT 3 TIMES FOR 6 DIRECTIONS.                              |      |      |  |                          |                 | ○                           | —        |
| <b>ENVIRONMENTAL CHARACTERISTICS</b>  |                             |  |      |      |  |                          |                 |                             |          |
| RAPID CHANGE OF TEMPERATURE   |                             | TEMPERATURE -55 → 5~35 → 85 → 5~35 °C<br>TIME 30 → 2~3 → 30 → 2~3 min<br>UNDER 5 CYCLES.               |      |      | NO DAMAGE, CRACK AND LOOSENESS, OF PARTS.  |                          |                 | ○                           | —        |
| DAMP HEAT (STEADY STATE)  |                             | EXPOSED AT 40 °C, 90~95 %, 96 h.   |      |      | INSULATION RESISTANCE:<br>1 MΩ MIN. (AT HIGH HUMIDITY.)<br>100 MΩ MIN. (AT DRY.) |                          |                 | ○                           | —        |
| CORROSION SALT MIST   |                             | EXPOSED IN 5 % SALT WATER SPRAY FOR 48 h.  |      |      | NO HEAVY CORROSION.  |                          |                 | ○                           | —        |
| RESISTANCE TO SOLDERING HEAT  |                             | SOLDER TEMPERATURE, 260 ± 5 °C FOR IMMERSION, DURATION 10 ± 1 S.                                       |      |      | NO DEFORMATION OF CASE AND EXCESSIVE LOOSENESS OF THE TERMINALS.                 |                          |                 | ○                           | —        |
| SOLDERABILITY   |                             | SOLDERED AT SOLDER TEMPERATURE, 245 ± 2 °C FOR IMMERSION, DURATION 3 ± 1 S.                            |      |      | MIN. 95 % OF SOLDER IMMersed AREA SHALL BE COVERED NEW SOLDER COATING.           |                          |                 | ○                           | —        |
| NOTE. <span style="border: 1px solid black; padding: 0 2px;">1</span> MEASUREMENT POINT OF CONTACT RESISTANCE |                             |  |      |      |  |                          |                 |                             |          |
|                           |                             |  |      |      |  |                          |                 |                             |          |
| REMARKS   |                             |  |      |      | DRAWN  | DESIGNED                 | CHECKED         | APPROVED                    | RELEASED |
|   |                             |  |      |      | <i>T. Hamezu</i>   | <i>T. Hamezu</i>         | <i>Y. Enami</i> | <i>H. Minoda</i>            |          |
| Unless otherwise specified, refer to JIS C 5402.  |                             |  |      |      | 03/10/21   | 03/10/21                 | 03.10.22        | 03.10.22                    |          |
| Note QT:Qualification Test AT:Assurance Test ○:Applicable Test  |                             |  |      |      |  |                          |                 |                             |          |
| <b>HS</b> HIROSE ELECTRIC CO., LTD.   |                             |  |      |      | SPECIFICATION SHEET  |                          |                 | PART NO.<br>DX20BM-100S(50) |          |
| CODE NO.(OLD)<br>CL   |                             | DRAWING NO.<br>ELC4-041447-01  |      |      | CODE NO.<br>CL230-5022-9-50  |                          |                 | 1/1                         |          |

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