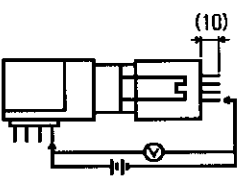


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In case of consideration for using Automotive equipment / device which demand high reliability, kindly contact our sales window correspondents.

| 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.  |      |      | 26.7 N MIN.<br>100.0 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 2 h, 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 |
| Unless otherwise specified, refer to JIS C 5402.  |                             |  |      |      | J. Kamaya   | J. Kamaya                | Y. Enami | H. Miura                   |          |
|   |                             |  |      |      | 03.10.21  | 03.10.21                 | 07.10.22 | 03.10.22                   |          |
| Note QT:Qualification Test AT:Assurance Test ○:Applicable Test  |                             |  |      |      |   |                          |          |                            |          |
| <b>HS</b> HIROSE ELECTRIC CO., LTD.   |                             |  |      |      | SPECIFICATION SHEET   |                          |          | PART NO.<br>DX10BM-68S(50) |          |
| CODE NO.(OLD)<br>CL   |                             | DRAWING NO.<br>ELC4-041441-01  |      |      | CODE NO.<br>CL230-5008-8-50   |                          |          | 1<br>1                     |          |

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