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| APPLICABLE STANDARD   |   |  |                           |                          |          |
|---|---|--|---------------------------|--------------------------|----------|
| RATING<br><br>△ <sub>2</sub>  | OPERATING TEMPERATURE RANGE   | -40°C TO + 85°C (NOTE 1)   | STORAGE TEMPERATURE RANGE | -10°C TO + 60°C (NOTE 3) |          |
|   | OPERATING HUMIDITY RANGE  | 40% TO + 80% (NOTE 2)  | STORAGE HUMIDITY RANGE    | 40% TO + 70% (NOTE 3)    |          |
|   | VOLTAGE   | 250V AC/DC   | APPLICABLE CONNECTOR      | DF11-**DS-2C (##)        |          |
|   | CURRENT   | AWG24 : 2.5A<br>AWG26 : 2.0A<br>AWG28 : 1.0A                                       | APPLICABLE CABLE          | UL1061, 1007 AWG24 TO 28 |          |
| <b>SPECIFICATIONS</b>   |   |  |                           |                          |          |
| ITEM  | TEST METHOD   | REQUIREMENTS   | QT                        | AT                       |          |
| <b>CONSTRUCTION</b>   |   |  |                           |                          |          |
| GENERAL EXAMINATION   | VISUALLY AND BY MEASURING INSTRUMENT.   | ACCORDING TO DRAWING.  | X                         | X                        |          |
| MARKING   | CONFIRMED VISUALLY.   |  | X                         | X                        |          |
| <b>ELECTRIC CHARACTERISTICS</b>   |   |  |                           |                          |          |
| CONTACT RESISTANCE  | 100mA (DC OR 1000 Hz).  | 30mΩ MAX.  | X                         | -                        |          |
| <b>MECHANICAL CHARACTERISTICS</b> △ <sub>2</sub>  |   |  |                           |                          |          |
| MECHANICAL OPERATION  | 50 TIMES INSERTIONS AND EXTRACTIONS.  | ① CONTACT RESISTANCE: 30mΩ MAX.<br>② NO DAMAGE, CRACK OR LOOSENESS OF PARTS.       | X                         | -                        |          |
| CONTACT INSERTION AND EXTRACTION FORCE  | □0.5±0.002 BY STEEL GAUGE.  | INSERTION FORCE 4.4N MAX<br>EXTRACTION FORCE 0.3N MIN                              | X                         | -                        |          |
| VIBRATION   | FREQUENCY 10 TO 55 Hz, SINGLE AMPLITUDE 0.75 mm, AT 2 h, FOR 3 DIRECTIONS.                      | ① NO ELECTRICAL DISCONTINUITY OF 1μs.<br>② NO DAMAGE, CRACK OR LOOSENESS OF PARTS. | X                         | -                        |          |
| SHOCK   | 490 m/s <sup>2</sup> DURATION OF PULSE 11 ms AT 3 TIMES FOR 3 DIRECTIONS.                       | ① NO ELECTRICAL DISCONTINUITY OF 1μs.<br>② NO DAMAGE, CRACK OR LOOSENESS OF PARTS. | X                         | -                        |          |
| <b>ENVIRONMENTAL CHARACTERISTICS</b> △ <sub>2</sub>   |   |  |                           |                          |          |
| RAPID CHANGE OF TEMPERATURE   | TEMPERATURE -55→ 5 TO 35→ 85→ 5 TO 35 °C<br>TIME 30→10 TO 15→30→10 TO 15 min<br>UNDER 5 CYCLES. | ① CONTACT RESISTANCE: 30mΩ MAX.<br>② NO DAMAGE, CRACK OR LOOSENESS OF PARTS.       | X                         | -                        |          |
| DAMP HEAT (STEADY STATE)  | EXPOSED AT 40 ± 2 °C, 90 TO 95 %, 96 h.   | ① CONTACT RESISTANCE: 30mΩ MAX.<br>② NO DAMAGE, CRACK OR LOOSENESS OF PARTS.       | X                         | -                        |          |
| <b>REMARKS</b>  |   |  |                           |                          |          |
| NOTE 1:INCLUDING THE TEMPERATURE RISE BY CURRENT  |   |  |                           |                          |          |
| NOTE 2:NO CONDENSING.   |   |  |                           |                          |          |
| NOTE 3:APPLY TO THE CONDITION OF LONG TERM STORAGE FOR UNUSED PRODUCTS BEFORE MOUNTED ON PCB,<br>AFTER MOUNTED ON PCB, OPERATION TEMPERATURE AND HUMIDITY RANGE IS APPLIED FOR INTERIM STORAGE DURING TRANSPORTATION. |   |  |                           |                          |          |
|   | COUNT   | DESCRIPTION OF REVISIONS   | DESIGNED                  | CHECKED                  | DATE     |
| △   | 3   | DIS-H-00004374   | TS. MIYAKI                | SZ. ONO                  | 20181102 |
| Unless otherwise specifid , refer to IEC 60512.   |   |  | APPROVED                  | KJ. KATAYOSE             | 20050105 |
|   |   |  | CHECKED                   | TY. OMA                  | 20050105 |
|   |   |  | DESIGNED                  | IO. DENPOUYA             | 20050105 |
|   |   |  | DRAWN                     | IO. DENPOUYA             | 20050105 |
| Note QT:Qualification Test AT:Assurance Test X:Applicable Test  |   |  | DRAWING NO.               | ELC-080088-00-00         |          |
| <b>HRS</b>  | SPECIFICATION SHEET   |  | PART NO.                  | DF11-2428SCA             |          |
|   | HIROSE ELECTRIC CO., LTD.   |  | CODE NO.                  | CL543-0551-3-00          | △ 1/1    |