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| APPLICABLE STANDARD  |                             |   |                           |  |                       |
|--|-----------------------------|---|---------------------------|--|-----------------------|
| RATING<br><br>△<br>2   | 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>  |                             |   |                           |  |                       |
| MECHANICAL OPERATION   |                             | 30 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>   |                             |   |                           |  |                       |
| 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) △<br>2  |                             | 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<br>NOTE 2:NO CONDENSING.<br>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                  |
| △  | 2                           | 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-020865-00-00   |                       |
| <b>HRS</b>   | SPECIFICATION SHEET         |   | PART NO.                  | DF11-2428SC  |                       |
|  | HIROSE ELECTRIC CO., LTD.   |   | CODE NO.                  | CL543-0501-5-00  | △ 1/1                 |