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|  |                             |   |                           |  |                      |          |
|--|-----------------------------|---|---------------------------|--|----------------------|----------|
| APPLICABLE STANDARD  |                             |   |                           |  |                      |          |
| RATING<br><div>△<br/>2</div>   | OPERATING TEMPERATURE RANGE | -40°C TO + 85°C (NOTE 1)  | STORAGE TEMPERATURE RANGE | -10°C TO + 60°C (NOTE 2)   |                      |          |
|  | OPERATING HUMIDITY RANGE    | 40% TO + 80% (NOTE 3)   | STORAGE HUMIDITY RANGE    | 40% TO + 70% (NOTE 2)  |                      |          |
|  | VOLTAGE                     | 250V AC/DC  | APPLICABLE CONNECTOR      | DF11-*DS-2C  |                      |          |
|  | CURRENT                     | 3A  | APPLICABLE CABLE          | AWG22  |                      |          |
| SPECIFICATIONS   |                             |   |                           |  |                      |          |
| ITEM   |                             | TEST METHOD   |                           | REQUIREMENTS   | QT                   | AT       |
| CONSTRUCTION   |                             |   |                           |  |                      |          |
| GENERAL EXAMINATION  |                             | VISUALLY AND BY MEASURING INSTRUMENT.   |                           | ACCORDING TO DRAWING.  | X                    | X        |
| MARKING  |                             | CONFIRMED VISUALLY.   |                           |  | X                    | X        |
| ELECTRIC CHARACTERISTICS   |                             |   |                           |  |                      |          |
| CONTACT RESISTANCE   |                             | 100mA (DC OR 1000 Hz).  |                           | 30mΩ MAX.  | X                    | —        |
| MECHANICAL CHARACTERISTICS   |                             |   |                           |  |                      |          |
| CONTACT INSERTION AND EXTRACTION FORCE   |                             | □0.5±0.002 BY STEEL GAUGE.  |                           | INSERTION FORCE 4.4N MAX<br>EXTRACTION FORCE 0.3N MIN                              | X                    | —        |
| MECHANICAL OPERATION<br><div>△<br/>2</div>   |                             | 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                    | —        |
| ENVIRONMENTAL CHARACTERISTICS <div>△<br/>2</div>   |                             |   |                           |  |                      |          |
| 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                    | —        |
| REMARKS  |                             |   |                           |  |                      |          |
| NOTE 1:INCLUDING THE TEMPERATURE RISE BY CURRENT   |                             |   |                           |  |                      |          |
| NOTE 2: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<br>STORAGE DURING TRANSPORTATION. |                             |   |                           |  |                      |          |
| NOTE 3:NO CONDENSING. <div>△<br/>2</div>   |                             |   |                           |  |                      |          |
|  | COUNT                       | DESCRIPTION OF REVISIONS  | DESIGNED                  | CHECKED  | DATE                 |          |
| <div>△<br/>4</div>   | 4                           | DIS-H-00004269  | TS. MIYAKI                | HS. OKAWA  | 20180928             |          |
| 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-081372-00-00     |          |
| <div>HRS</div>   | SPECIFICATION SHEET         |   | PART NO.                  | DF11-22SCF   |                      |          |
|  | HIROSE ELECTRIC CO., LTD.   |   | CODE NO.                  | CL543-0601-0-00  | <div>△<br/>1/1</div> |          |