

| APPLICABLE STANDARD  |  |  |  |                    |   |            |
|--|--|--|--|--------------------|---|------------|
| RATING   | 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  | AC 250V  | UL · CSA   | VOLTAGE            | AC 30V  |            |
|  | CURRENT  | 2A   | RATING   | CURRENT            | 2A  |            |
| 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   | —          |
| INSULATION RESISTANCE  | 500V DC.   |  | 1000MΩ MIN.  |                    | X   | —          |
| VOLTAGE PROOF  | 650V AC FOR 1 min.   |  | NO FLASHOVER OR BREAKDOWN.   |                    | X   | —          |
| MECHANICAL CHARACTERISTICS   |  |  |  |                    |   |            |
| MECHANICAL OPERATION   | 30TIMES INSERTIONS AND EXTRACTIONS.  |  | ① CONTACT RESISTANCE: 30mΩ MAX.<br>② NO DAMAGE, CRACK OR LOOSENESS OF PARTS.   |                    | 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  |  |  |  |                    |   |            |
| DAMP HEAT (STEADY STATE)   | EXPOSED AT 40 ± 2 °C, 90 TO 95 %, 96 h.  |  | ① CONTACT RESISTANCE: 30mΩ MAX.<br>② INSULATION RESISTANCE: 500MΩ MIN.<br>③ NO DAMAGE, CRACK OR LOOSENESS OF PARTS.  |                    | X   | —          |
| RAPID CHANGE OF TEMPERATURE  | TEMPERATURE -55 → 5 TO 35 → +85 → 5 TO 35°C<br>TIME 30 → 5MAX → 30 → 5MAX min UNDER 5 CYCLES.  |  | ① CONTACT RESISTANCE: 30mΩ MAX.<br>② INSULATION RESISTANCE: 1000MΩ MIN.<br>③ NO DAMAGE, CRACK OR LOOSENESS OF PARTS. |                    | X   | —          |
| RESISTANCE TO SOLDERING HEAT   | 1)AUTOMATIC SOLDERING (FLOW)<br>SOLDER TEMPERATURE : 260°C FOR IMMERSION,DURATION , 10 sec .<br>2)MANUAL SOLDERING<br>SOLDERING IRON TEMPERATURE : 300°C<br>SOLDERING TIME : 2 sec.<br>NO STRENGTH ON CONTACT. |  | NO DEFORMATION OF CASE OF EXCESSIVE LOOSENESS OF THE TERMINALS.  |                    | X   | —          |
| SOLDERABILITY  | SOLDERED AT SOLDER TEMPERATURE, 230°C FOR INSERTION DURATION, 3sec.  |  | SOLDER SHALL COVER A MINIMUM OF 95 % OF THE SURFACE BEING IMMersed.  |                    | X   | —          |
|   | COUNT  | DESCRIPTION OF REVISIONS   | DESIGNED   | CHECKED            | DATE  |            |
|  | 1  | DIS-H-008540   | MI. SAKIMURA   | HK. UMEHARA        | 14. 02. 26  |            |
| REMARKS  |  |  |  | APPROVED           | TY. OMA   | 05. 10. 27 |
| NOTE1:INCLUDING THE TEMPERATURE RISE BY CURRENT  |  |  |  | CHECKED            | HK. UMEHARA   | 05. 10. 27 |
| NOTE2:APPLY TO THE CONDITION OF LONG TERM STORAGE FOR UNUSED PRODUCTS BEFORE PCB ON BOARD, AFTER PCB BOARD, OPERATING TEMPERATURE AND HUMIDITY RANGE IS APPLIED FOR INTERIM STORAGE DURING TRANSPORTATION. |  |  |  | DESIGNED           | IO. DENPOUYA  | 05. 10. 27 |
| NOTE3:NON-CONDENSING.<br>Unless otherwise specified , refer to IEC 60512.  |  |  |  | DRAWN              | AK. MIURA   | 05. 10. 27 |
| Note QT:Qualification Test AT:Assurance Test X:Applicable Test   |  |  | DRAWING NO.  |                    | ELC4-084779-01  |            |
|   | SPECIFICATION SHEET  |  | PART NO.   | DF11-**DP-2DS (24) |   |            |
|  | HIROSE ELECTRIC CO., LTD.  |  | CODE NO.   | CL543              |  | 1/1        |