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| 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%   |  | STORAGE HUMIDITY RANGE   | 40% TO + 70% (NOTE 2)    |   |     |
|   | VOLTAGE                     | 250V AC  |  | UL • CSA RATING  | VOLTAGE                  | 30V AC  |     |
|   | CURRENT                     | AWG 22 TO 26 : 2A<br>AWG 28 : 1A<br>AWG 30 : 0.5A  |  |  | CURRENT                  | AWG 22 : 2A<br>AWG 24 TO 28 : 1A<br>AWG 30 : 0.5A                                     |     |
| 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  |                             | 50 TIMES 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.                                  |  |  |                          | 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→10 TO 15 →30 →10 TO 15 min<br>UNDER 5 CYCLES.           |  | ① CONTACT RESISTANCE: 30mΩ MAX.<br>② INSULATION RESISTANCE: 1000MΩ MIN.<br>③ NO DAMAGE, CRACK OR LOOSENESS OF PARTS. |                          | X   | -   |
|   |                             |  |  |  |                          |   |     |
|   | COUNT                       | DESCRIPTION OF REVISIONS   |  | DESIGNED   | CHECKED                  | DATE  |     |
|  | 2                           | DIS-H-008928   |  | HT. SATO   | TS. FUKUSHIMA            | 14. 07. 16  |     |
|   |                             |  |  | APPROVED   | TS. SAKATA               | 08. 04. 01  |     |
|   |                             |  |  | CHECKED  | TS. KUMAZAWA             | 08. 04. 01  |     |
|   |                             |  |  | DESIGNED   | KT. ISHII                | 08. 04. 01  |     |
|   |                             |  |  | DRAWN  | YK. NAKATSU              | 08. 03. 13  |     |
| Note QT:Qualification Test AT:Assurance Test X:Applicable Test                      |                             |  |  | DRAWING NO.  |                          | ELC4-163554-05  |     |
|  | SPECIFICATION SHEET         |  |  | PART NO.   | DF11C-*DP-2V (57)        |   |     |
|   | HIROSE ELECTRIC CO., LTD.   |  |  | CODE NO.   | CL543                    |  | 1/2 |

| SPECIFICATIONS   |  |  |             |                   |   |
|--|--|--|-------------|-------------------|---|
| ITEM   | TEST METHOD  | REQUIREMENTS   | QT          | AT                |   |
| RESISTANCE TO SOLDERING HEAT   | 1) AUTOMATIC SOLDERING (REFLOW)<br>《REFLOW AREA》<br>MAX 250°C WITHIN 10 sec.<br>MIN 230°C WITHIN 60 sec.<br>《PREHEATING AREA》<br>150 TO 180°C 90 TO 120 sec.<br>PUT THROUGH IN REFLOW FURNACE TWICE.<br>LEAVE IN AMBIENT TEMPERATURE AND HUMIDITY FOR 1 HOUR. CONNECTOR TEMPERATURE TO BE AMBIENT FOR SECOND REFLOW.<br>2) MANUAL SOLDERING<br>SOLDERING IRON TEMPERATURE :290±10°C,<br>SOLDERING TIME :3s.<br>NO STRENGTH ON CONTACT. | NO DEFORMATION OF CASE OF EXCESSIVE LOOSENESS OF THE TERMINALS.                            | X           | —                 |   |
| SOLDERABILITY  | SOLDERED AT SOLDER TEMPERATURE, 230±5°C FOR IN IMMERSION , DURATION, 3 s.  | A NEW UNIFORM COATING OF SOLDER SHALL COVER MINIMUM OF 95 % OF THE SURFACE BEING IMMersed. | X           | —                 |   |
| REMARKS<br>NOTE 1:INCLUDING THE TEMPERATURE RISE BY CURRENT.<br>NOTE 2: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 INTERM STORAGE DURING TRANSPORTATION.<br>NOTE 3:THE TEMPERATURE PROFILE SHALL BE APPLIED WITHIN 168 HOURS AFTER OPENING MOISTURE-PROOF PACKAGING. WHEN 168 HOURS PASSED AFTER OPENING , APPLY THE BOTTOM REQUIREMENTS.<br>《REFLOW AREA》<br>MAX 240°C WITHIN 10 sec.<br>MIN 230°C WITHIN 60 sec.<br>《PREHEATING AREA》<br>150 TO 180°C 90 TO 120 s. |  |  |             |                   |   |
| Unless otherwise specified , refer to IEC 60512   |  |  |             |                   |   |
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