



**THE DATASHEET OF  
DF11CZ-8DS-2V(22)**



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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  | 30 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   |  |  |  |  |                          |   |            |
| RAPID CHANGE OF TEMPERATURE   | TEMPERATURE -55→5 TO 35→+85 →5 TO 35 °C<br>TIME 30→5 TO 15 →30 →5 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   | -          |
| 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   | -          |
|   |  |  |  |  |                          |   |            |
|   | COUNT  | DESCRIPTION OF REVISIONS   |  | DESIGNED   | CHECKED                  | DATE  |            |
|  | 1  | DIS-H-008540   |  | MI. SAKIMURA   | HK. UMEHARA              | 14. 02. 26  |            |
|   |  |  |  |  | APPROVED                 | TS. SAKATA  | 09. 06. 03 |
|   |  |  |  |  | CHECKED                  | TS. FUKUSHIMA   | 09. 06. 03 |
|   |  |  |  |  | DESIGNED                 | TH. YOSHI ZAWA  | 09. 05. 30 |
|   |  |  |  |  | DRAWN                    | YK. NAKATSU   | 09. 05. 27 |
| Note QT:Qualification Test AT:Assurance Test X:Applicable Test                      |  |  |  | DRAWING NO.  |                          | ELC4-314124-01  |            |
|  | SPECIFICATION SHEET  |  |  | PART NO.   | DF11CZ-*DS-2V (22)       |   |            |
|   | HIROSE ELECTRIC CO., LTD.  |  |  | CODE NO.   | CL543                    |  | 1/2        |

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| 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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| <b>HRS</b>   | SPECIFICATION SHEET  |  | PART NO.    | DF11GZ-*DS-2V (22) |                |
|  | HIROSE ELECTRIC CO., LTD.  |  | CODE NO     | CL543              | △ 2/2          |

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