

|  |                             |   |             |  |                         |          |
|--|-----------------------------|---|-------------|--|-------------------------|----------|
| Applicable standard  |                             |   |             |  |                         |          |
| Rating   | Operating Temperature Range | -55 to +105°C (Note1)   |             | Storage Temperature Range  | -10 °C to +60°C (Note3) |          |
|  | Operating Humidity Range    | 20% to 80% (Note2)  |             | Storage Humidity Range   | 40% to 70% (Note3)      |          |
|  | Voltage                     | 250 V AC/DC   |             | UL • C-UL Rating   | Voltage<br>30 V AC/DC   |          |
|  | Current                     | AWG 22 to 24 : 2.0A<br>AWG 26 : 1.5A<br>AWG 28 : 1.0A<br>AWG 30 : 0.5A  |             | Current  | 2.0A                    |          |
|  |                             |   |             | Applicable Connector   | DF51-26DS-2C            |          |
|  |                             |   |             | Applicable Contact   | DF11-****SC(F)A(##)     |          |
| <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<br>Millivolt Level Method   |                             | 20mV MAX, 1mA (DC or 1000Hz).   |             | 30 mΩ MAX.   | X —                     |          |
| Insulation Resistance  |                             | 500 V DC.   |             | 1000 MΩ MIN.   | X —                     |          |
| Voltage Proof  |                             | 650 V AC for 1 min.   |             | No flashover or breakdown.   | X —                     |          |
| <b>Mechanical Characteristics</b>  |                             |   |             |  |                         |          |
| Mechanical Operation   |                             | 50 times insertion and extraction.  |             | 1.Contact resistance: 30 mΩ MAX.<br>2.No damage, crack or looseness of parts.  | X —                     |          |
| Mating and unmating force  |                             | It takes out and inserts with a conformity connector.   |             | 1.Insertion Force :72.3 N MAX.<br>2.Extraction Force :6.5 N MIN.   | X —                     |          |
| Vibration  |                             | Frequency 10 to 55 Hz, single amplitude 0.75 mm, at 10 cycles for 3 direction.  |             | 1.No electrical discontinuity of 1 μ s.<br>2.No damage, crack or looseness of parts.                                   | X —                     |          |
| Shock  |                             | Acceleration 490 m/s <sup>2</sup> duration of pulse 11 ms at 3 times for 3 directions.  |             |  | X —                     |          |
| <b>Environmental Characteristics</b>   |                             |   |             |  |                         |          |
| Damp Heat<br>(Steady State)  |                             | Exposed at 40 ± 2°C, humidity 90 to 95 %, 96 h.<br>(After leaving the room temperature for 1 to 2h.)  |             | 1.Contact resistance: 30 mΩ MAX.<br>2.Insulation resistance: 500 MΩ MIN.<br>3.No damage, crack or looseness of parts.  | X —                     |          |
| Rapid Change Of Temperature  |                             | Temperature -55°C→ +105°C<br>Time 30min→ 30min<br>Under 5 Cycles.<br>(The transferring time of the tank is 2 to 3 MIN)<br>(After leaving the room temperature for 1 to 2h.) |             | 1.Contact resistance: 30 mΩ MAX.<br>2.Insulation resistance: 1000 MΩ MIN.<br>3.No damage, crack or looseness of parts. | X —                     |          |
| Dry Heat   |                             | Exposed at 105±2°C, 96h   |             | 1.Contact resistance: 30 mΩ MAX.<br>2.Insulation resistance: 1000 MΩ MIN.<br>3.No damage, crack or looseness of parts. | X —                     |          |
| Cold   |                             | Exposed at -55±3°C, 96h   |             | 1.Contact resistance: 30 mΩ MAX.<br>2.Insulation resistance: 1000 MΩ MIN.<br>3.No damage, crack or looseness of parts. | X —                     |          |
| <b>Remarks</b><br>Note 1:Include the temperature rising by current.<br>Note 2:No condensing<br>Note 3:Apply to the condition of long term storage for unused products before mount on pcb,<br>After mounted on pcb, operating temperature and humidity range is applied for interim storage during transportation. |                             |   |             |  |                         |          |
|  | COUNT                       | DESCRIPTION OF REVISIONS  | DESIGNED    | CHECKED  | DATE                    |          |
| △2   | 2                           | DIS-H-00005270  | TS. MIYAKI  | SZ. ONO  | 20190912                |          |
| Unless otherwise specified, refer to IEC 60512.  |                             |   |             | APPROVED   | HS. OKAWA               | 20180517 |
|  |                             |   |             | CHECKED  | ST. WADA                | 20180517 |
|  |                             |   |             | DESIGNED   | TH. SATO                | 20180517 |
|  |                             |   |             | DRAWN  | TH. SATO                | 20180517 |
| Note QT:Qualification Test AT:Assurance Test X:Applicable Test   |                             |   | DRAWING NO. |  | ELC-363514-01-00        |          |
| <b>HRS</b>   | SPECIFICATION SHEET         |   | PART NO.    | DF51A-26DP-2DSA (01)   |                         |          |
|  | HIROSE ELECTRIC CO., LTD.   |   | CODE NO.    | CL543-5054-0-01  | △2 1/2                  |          |

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