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| Applicable standard   |   |  |  |                         |   |
|---|---|--|--|-------------------------|---|
| Rating  | Operating temperature range   | -40 °C to +85°C (Note1)  | Storage temperature range  | -10 °C to +60°C (Note3) |   |
|   | Operating humidity range  | 40% to 80% (Note2)   | Storage humidity range   | 40% to 70% (Note3)      |   |
|   | Voltage   | 250 V AC/DC  | Applicable connector   | DF1E(A)-*EP-2.5C        |   |
|   | Current   | 3A/pin   | Applicable cable  | UL 1007 AWG 20 to22     |   |
| Specifications  |   |  |  |                         |   |
| 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 millivolt level method   | 20mV MAX, 1mA (DC or 1000Hz).   | 30 mΩ MAX.   | X  | -                       |   |
| <b>Mechanical characteristics</b>   |   |  |  |                         |   |
| Mechanical operation  | 30 times insertion and extraction.  | 1)Contact resistance: 30 mΩ 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 direction.                     | 1)No electrical discontinuity of 1 μ s.<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  | -                       |   |
| <b>Environmental characteristics</b>  |   |  |  |                         |   |
| Damp heat (Steady state)  | Exposed at 40 ± 2°C , 90 to 95 %, 96 h.   | 1)Contact resistance: 30 mΩ MAX.<br>2)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→ 5 max → 30→ 5 max min<br>under 5 cycles. | 1)Contact resistance: 30 mΩ MAX.<br>2)No damage, crack or looseness of parts.        | X  | -                       |   |
| Remarks   |   |  |  |                         |   |
| Note 1: Include the temperature rising by current.                                  |   |  |  |                         |   |
| Note 2: No condensing   |   |  |  |                         |   |
| Note 3: Apply to the unused product on the packaged condition.                      |   |  |  |                         |   |
|  | Count   | Description of revisions   | Designed   | Checked                 | Date  |
|  | 2   | DIS-H-00010499   | KT. NUMATA   | SZ. ONO                 | 20210812  |
|  | Format change   |  | Approved   | KJ. KATAYOSE            | 20050105  |
|   |   |  | Checked  | TY. OMA                 | 20050105  |
|   |   |  | Designed   | TS. KUMAZAWA            | 20050105  |
|   |   |  | Drawn  | TS. KUMAZAWA            | 20050105  |
| Unless otherwise specifid , refer to IEC 60512.                                     |   |  |  |                         |   |
| Note  | QT:Qualification Test AT:Assurance Test X:Applicable Test                                     |  | Drawing no.  | ELC4-161021-00          |   |
|  | Specification sheet   |  | Part no.   | DF1E-2022PC             |   |
|   | Hirose electric co., ltd.   |  | Code no.   | CL0541-0938-0-00        |  1/1 |