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|---|---|--|--|--|---|
| Applicable standard | | | | | |
| Rating | Operating temperature range  | -55 °C 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) | |
| | Applicable connector | DF63-*S-3.96C | Voltage | AC/DC 630V | |
| | Applicable cable | UL1015 AWG #16 to 18 UL1007 AWG #16 to 18 | Current | AWG #16 : 15A/pin AWG #18 : 13A/pin | |
| 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 | | 20mV MAX, 1mA (DC or 1000hz). | 10 mΩ MAX. | X | — |
| Mechanical characteristics | | | | | |
| Contact insertion and extraction forces | | <input type="checkbox"/> 1.14±0.002 mm by steel gauge. | Insertion force 10 N MAX. Extraction force 0.3 N MIN. | X | — |
| Mechanical operation | | 30 times insertion and extraction. | 1)Contact resistance: 20 mΩ MAX. 2)No damage, crack or looseness of parts. | 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. 2)No damage, crack or looseness of parts. | X | — |
| Shock | | 490 m/s ² duration of pulse 11 ms at 3 times each for 3 both axial directions. | | X | — |
| Environmental characteristics | | | | | |
| Damp heat (Steady state) | | Exposed at 40 ± 2°C , 90 to 95 %, 96 h. (After leaving the room temperature for 1-2h.) | 1)Contact resistance: 20 mΩ MAX. 2)No damage, crack or looseness of parts. | X | — |
| Rapid change of temperature | | Temperature -55°C→ +85°C Time 30min→ 30min Under 5 cycles. (The transferring time of the tank is 2-3 min) (After leaving the room temperature for 1-2h.) | | X | — |
| Remarks Note 1:Including the temperature rising by current. Note 2:No condensing Note 3:Apply to unused product on packaged condition. | | | | | |
|  | Count | Description of revisions | Designed | Checked | Date |
| | 1 | DIS-H-00009798 | TS. KUMAZAWA | SZ. ONO | 20210616 |
| Unless otherwise specified, refer to IEC 60512. | | | Approved | SJ. OKAMURA | 20210513 |
| | | | Checked | SZ. ONO | 20210513 |
| | | | Designed | TS. KUMAZAWA | 20210513 |
| | | | Drawn | TS. KUMAZAWA | 20210513 |
| Note QT:Qualification Test AT:Assurance Test X:Applicable Test | | | Drawing no. | ELC-393065-00-00 | |
|  | Specification sheet | | Part no. | DF63A-1618SC | |
| | Hirose electric co., ltd. | | Code no. | CL0680-0648-0-00 |  1/1 |