




| APPLICABLE STANDARD | | | | | |
|--|--|--|---|-------------------------------|---|
| RATING | OPERATING TEMPERATURE RANGE | -35°C TO + 85°C (NOTE 1) | STORAGE TEMPERATURE RANGE | -10°C TO + 60°C (NOTE3) | |
| | OPERATING HUMIDITY RANGE | 20 % TO 80 % (NOTE2) | STORAGE HUMIDITY RANGE | 40 % TO 70 % (NOTE3) | |
| | VOLTAGE | AC/DC 100V | APPLICABLE SOCKET | DF50A-*S-1C DF50(S)-*DS-1C | |
| | CURRENT  | AWG 28 : 2.0 A/pin AWG 30 : 0.9 A/pin | APPLICABLE CABLE | AWG 28-30 | |
| | | INSULATION DIAMETER | ϕ 0.58mm  | | |
| 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 | AC 20mV MAX 1mA (DC OR 1000 Hz). | 30m Ω MAX. | X | - | |
| MECHANICAL CHARACTERISTICS | | | | | |
| CONTACT INSERTION AND EXTRACTION FORCES | T=0.15 \pm 0.002 mm BY STEEL GAUGE. | INSERTION FORCE 1 N MAX. EXTRACTION FORCE 0.08 N MIN. | X | - | |
| MECHANICAL OPERATION | 30TIMES INSERTIONS AND EXTRACTIONS. | ① CONTACT RESISTANCE: 50m Ω 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 EACH, FOR 3 DIRECTIONS. | 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 FOR 3 DIRECTIONS. | | X | - | |
| ENVIRONMENTAL CHARACTERISTICS | | | | | |
| DAMP HEAT (STEADY STATE) | EXPOSED AT 40 \pm 2 °C, 90 TO 95 %, 96 h. | ① INSULATION RESISTANCE: 50m Ω MAX. ② NO DAMAGE, CRACK OR LOOSENESS OF PARTS. | X | - | |
| RAPID CHANGE OF TEMPERATURE | TEMPERATURE -55 \rightarrow +85°C TIME 30 \rightarrow 30min. UNDER 5 CYCLES. (THE TRANSFERRING TIME OF THE TANK IS 2~3 min) | | X | - | |
| REMARKS | | | | | |
| NOTE 1: INCLUDING THE TEMPERATURE RISE BY CURRENT. NOTE 2: NON-CONDENSING NOTE 3: APPLY TO PACKED CONDITION.  | | | | | |
|  | COUNT | DESCRIPTION OF REVISIONS | DESIGNED | CHECKED | DATE |
| | 3 | DIS-H-00010571 | HT. SATO | SZ. ONO | 20210823 |
| UNLESS OTHERWISE SPECIFIED, REFER TO IEC 60512 | | | APPROVED | KI. AKIYAMA | 20140109 |
| | | | CHECKED | HK. UMEHARA | 20140109 |
| | | | DESIGNED | KY. SHIMAKURA | 20140108 |
| | | | DRAWN | MI. SAKIMURA | 20140106 |
| Note QT:Qualification Test AT:Assurance Test X:Applicable Test | | | DRAWING NO. | | ELC4-335648-01 |
|  | SPECIFICATION SHEET | | PART NO. | DF50K-2830SCFA | |
| | HIROSE ELECTRIC CO., LTD. | | CODE NO. | CL0665-0017-8-00 |  1/1 |