

| APPLICABLE STANDARD | | | | | | |
|--|-----------------------------|---|---------------------------|--|----------------|---|
| RATING | OPERATING TEMPERATURE RANGE | -35 °C TO +85°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 | 50 V AC/DC | APPLICABLE CONTACT | DF57H-*S-1.2C | | |
| | CURRENT | AWG28 : 2.5 A AWG30 : 1.5 A | APPLICABLE CABLE | AWG28 TO AWG 30 | | |
| | | | INSULATION DIAMETER | φ 0.5-0.63 mm | | |
| 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 | | 20 mV MAX, 1 mA(DC OR 1000 Hz). | | 10 mΩMAX. | X | — |
| MECHANICAL CHARACTERISTICS | | | | | | |
| CONTACT INSERTION AND EXTRACTION FORCES | | T=0.2±0.002 mm BY STEEL GAUGE. | | INSERTION FORCE 5 N MAX. EXTRACTION FORCE 0.1 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 FOR 3 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. (AFTER LEAVING THE ROOM TEMPERATURE FOR 1-2h.) | | | X | — |
| | | | | | | |
| NOTE 1: INCLUDE THE TEMPERATURE RISING BY CURRENT. NOTE2:NO CONDENSING NOTE3: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 INTERIM STORAGE DURING TRANSPORTATION. | | | | | | |
| | COUNT | DESCRIPTION OF REVISIONS | DESIGNED | CHECKED | DATE | |
|  | | | | | | |
| REMARKS Unless otherwise specified, refer to IEC 60512. | | | APPROVED | KI. AKIYAMA | 14. 07. 31 | |
| | | | CHECKED | TS. FUKUSHIMA | 14. 07. 30 | |
| | | | DESIGNED | TS. MIYAKI | 14. 07. 30 | |
| | | | DRAWN | TS. MIYAKI | 14. 07. 30 | |
| Note QT:Qualification Test AT:Assurance Test X:Applicable Test | | | DRAWING NO. | | ELC4-346818-00 | |
|  | SPECIFICATION SHEET | | PART NO. | DF57-2830SCFA | | |
| | HIROSE ELECTRIC CO., LTD. | | CODE NO. | CL666-0034-3-00 | |  1/1 |