

| APPLICABLE STANDARD | | | | | | | |
|--|--|--------------------------|---|---------------------|------------------|---|---|
| RATING | OPERATING TEMPERATURE RANGE | -35°C TO +85°C (NOTES 1) | STORAGE TEMPERATURE RANGE | -10°C TO +60°C | | | |
| | VOLTAGE | 30V AC | APPLICABLE CONNECTOR | DF37*-*DS-0.4V (**) | | | |
| | CURRENT | 0.3A | | | | | |
| SPECIFICATIONS | | | | | | | |
| ITEM | TEST METHOD | | REQUIREMENTS | QT | AT | | |
| CONSTRUCTION | | | | | | | |
| GENERAL EXAMINATION | CONFIRMED VISUALLY AND BY MEASURING INSTRUMENT. | | ACCORDING TO DRAWING. | X | X | | |
| MARKING | CONFIRMED VISUALLY. | | | X | X | | |
| ELECTRIC CHARACTERISTICS | | | | | | | |
| CONTACT RESISTANCE | 20mV AC OR LESS 1kHz, 1mA. | | 100mΩ MAX. | X | — | | |
| INSULATION RESISTANCE | 100V DC. | | 50MΩ MIN. | X | — | | |
| VOLTAGE PROOF | 100V AC FOR 1 min. | | NO FLASHOVER OR BREAKDOWN. | X | — | | |
| MECHANICAL CHARACTERISTICS | | | | | | | |
| INSERTION AND WITHDRAWAL FORCES | MEASURED BY APPLICABLE CONNECTOR. | | PIN COUNTS | INSERTION FORCE | WITHDRAWAL FORCE | X | — |
| | | | DF37C-*DS/DP-0.4V | (N MAX) | (N MIN) | | |
| | | | 10 | 15.4 | 2.6 | | |
| | | | 16 | 20.7 | 3.6 | | |
| | | | 20 | 24.3 | 4.4 | | |
| | | | 24 | 27.8 | 5.1 | | |
| | | | 30 | 33.1 | 6.2 | | |
| | | | 40 | 41.9 | 8 | | |
| 50 | 50.7 | 9.8 | | | | | |
| 60 | 59.5 | 11.7 | | | | | |
| MECHANICAL OPERATION | 10TIMES INSERTIONS AND EXTRACTIONS. | | ① CONTACT RESISTANCE: 100mΩ MAX. ② NO DAMAGE, CRACK OR LOOSENESS OF PARTS. | X | — | | |
| VIBRATION | FREQUENCY 10 TO 55 TO 10 Hz, APPROX 5min, SINGLE AMPLITUDE 0.75 mm, 10CYCLES, FOR 3 DIRECTIONS. | | ① NO ELECTRICAL DISCONTINUITY OF 1 μs. 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. | | ① NO ELECTRICAL DISCONTINUITY OF 1 μs. ② NO DAMAGE, CRACK OR LOOSENESS OF PARTS. | X | — | | |
| ENVIRONMENTAL CHARACTERISTICS | | | | | | | |
| RAPID CHANGE OF TEMPERATURE | TEMPERATURE -55 → +85 °C TIME 30 → 30 min UNDER 5 CYCLES. (RELOCATION TIME TO CHAMBER: WITHIN 2 ~3 MIN) | | ① CONTACT RESISTANCE: 100mΩ MAX. ② INSULATION RESISTANCE: 50MΩ MIN. ③ NO DAMAGE, CRACK OR LOOSENESS OF PARTS. | X | — | | |
| DAMP HEAT (STEADY STATE) | EXPOSED AT 40 ± 2 °C, 90 TO 95 %, 96 h. | | ① CONTACT RESISTANCE: 100mΩ MAX. ② INSULATION RESISTANCE: 25MΩ MIN. ③ NO DAMAGE, CRACK OR LOOSENESS OF PARTS. | X | — | | |
| SULPHUR DIOXIDE | EXPOSED IN 25 PPM FOR 96h, 25°C, 75%. (REFER TO JIS C 60068) | | ① CONTACT RESISTANCE: 100mΩ MAX. ② NO DAMAGE, CRACK OR LOOSENESS OF PARTS. | X | — | | |
| SALT MIST | EXPOSED IN 5% SALT MIST FOR 48h. | | ① CONTACT RESISTANCE: 100mΩ MAX. ② NO DAMAGE, CRACK OR LOOSENESS OF PARTS. | X | — | | |
| | COUNT | DESCRIPTION OF REVISIONS | DESIGNED | CHECKED | DATE | | |
| | | | | | | | |
| REMARKS | | | APPROVED | MO. NAKAMURA | 07.01.29 | | |
| NOTE1: INCLUDE THE TEMPERATURE RISING BY CURRENT | | | CHECKED | KH. IKEDA | 07.01.29 | | |
| Unless otherwise specified, refer to JIS C 5402 and IEC 60512 | | | DESIGNED | KY. MIDORIKAWA | 07.01.29 | | |
| | | | DRAWN | KY. MIDORIKAWA | 07.01.29 | | |
| Note QT:Qualification Test AT:Assurance Test X:Applicable Test | | | DRAWING NO. | | ELC4-314974-01 | | |
| | SPECIFICATION SHEET | | PART NO. | DF37C-*DP-0.4V (51) | | | |
| | HIROSE ELECTRIC CO., LTD. | | CODE NO. | | 1/1 | | |