

| APPLICABLE STANDARD | | | | |
|---------------------|-----------------------------|---------------------------|---------------------------|------------------------------|
| RATING | VOLTAGE | 1 5 0 V AC | CURRENT | 1 A |
| | OPERATING TEMPERATURE RANGE | -35°C TO +85 °C (NOTES 1) | STORAGE TEMPERATURE RANGE | -10°C TO +60°C (NOTE3) |
| | OPERATING HUMIDITY RANGE | 20 % TO 80 % (NOTES 2) | STORAGE HUMIDITY RANGE | 40 % TO 70 % (NOTE3) |
| | APPLICABLE CONNECTOR | DF13-*S-1. 25C | APPLICABLE CONTACT | DF13-2630SCFA, DF13-3032SCFA |

SPECIFICATIONS

| ITEM | TEST METHOD | REQUIREMENTS | QT | AT |
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CONSTRUCTION

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| GENERAL EXAMINATION | VISUALLY AND BY MEASURING INSTRUMENT. | ACCORDING TO DRAWING. | X | X |
| MARKING | CONFIRMED VISUALLY. | | X | X |

ELECTRIC CHARACTERISTICS

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|-----------------------|-------------------------|----------------------------|---|---|
| CONTACT RESISTANCE | 100 mA (DC OR 1000 Hz). | 30 mΩ MAX. | X | - |
| INSULATION RESISTANCE | 100 V DC. | 500 MΩ MIN. | X | - |
| VOLTAGE PROOF | 500 V AC FOR 1 min. | NO FLASHOVER OR BREAKDOWN. | X | - |

MECHANICAL CHARACTERISTICS

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| MECHANICAL OPERATION | 50 TIMES INSERTIONS AND EXTRACTIONS. | ① CONTACT RESISTANCE: 30 mΩ MAX. 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 DIRECTIONS. | ① NO ELECTRICAL DISCONTINUITY OF 1μs. 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

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| RAPID CHANGE OF TEMPERATURE | TEMPERATURE -55 → 5 TO 35 → +85 → 5 TO 35 °C TIME 30 → 5 MAX → 30 → 5 MAX min UNDER 5 CYCLES. | ① CONTACT RESISTANCE: 30 mΩ MAX. ② INSULATION RESISTANCE: 500 MΩ MIN. ③ NO DAMAGE, CRACK OR LOOSENESS OF PARTS. | X | - |
| DAMP HEAT (STEADY STATE) | EXPOSED AT 40 ± 2 °C, 90 TO 95 %, 96 h. | | X | - |
| RESISTANCE TO SOLDERING HEAT | 1) REFLOW SOLDERING ◀REFLOW AREA▶ MAX240°C WITHIN 10 sec MIN 220°C 10sec to 30 sec ◀PREHEATING AREA▶ 140°C to 160°C 60 sec to 120 sec PUT THROUGH IN REFLOW FUMACE TWICE LEAVE IN AMBIENT TEMPERATURE AND HUMIDITY FOR 1 HOUR. CONNECTOR TEMPERATURE TO BE AMBIENT FOR SECOND REFLOW. 2) MANUAL SOLDERING SOLDERING IRON TEMPERATURE :290 ± 10°C, SOLDERING TIME : 3sec. NO STRENGTH ON CONTACT. | NO DEFORMATION OF CASE OF EXCESSIVE LOOSENESS OF THE TERMINALS. | X | - |
| SOLDERABILITY | SOLDERED AT SOLDER TEMPERATURE, 230 ± 3°C FOR INSERTION DURATION, 3sec. | SOLDER SHALL COVER A MINIMUM OF 95 % OF THE SURFACE BEING IMMersed. | X | - |

REMARKS

NOTE1: INCLUDE THE TEMPERATURE RISING BY CURRENT

NOTE2:NO CONDENSING

NOTE3:APPLY TO THE CONDITION OF LONG TERM STORAGE FOR UNUSED PRODUCTS BEFOR PCB ON BOARD.

AFTER PCB BOARD , OPERATING TEMPERATURE AND HUMIDITY RANGE IS APPLIED FOR INTERIM STRAGE DURING TRANSPORTATION

Unless otherwise specified, refer to JIS C 5402.

| COUNT | DESCRIPTION OF REVISIONS | DESIGNED | CHECKED | DATE |
|-------|--------------------------|----------|---------|------|
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| | APPROVED | TY.OMA | 05.03.16 |
| | CHECKED | HK.UMEHARA | 05.03.15 |
| | DESIGNED | TS.KUMAZAWA | 05.03.11 |
| | DRAWN | TS.KUMAZAWA | 05.03.11 |

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| Note | QT:Qualification Test AT:Assurance Test X:Applicable Test | DRAWING NO. | ELC4-083662-02 |
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| | SPECIFICATION SHEET | PART NO. | DF13-*P-1. 25H (50) |
| | HIROSE ELECTRIC CO., LTD. | CODE NO. | △ 1/1 |