

| APPLICABLE STANDARD | | | | |
|---------------------|-----------------------------|---------------------------|---------------------------|------------------------------|
| RATING | VOLTAGE | 150 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 | 20 % TO 70 % (NOTE3) |
| | APPLICABLE CONNECTOR | DF13-*S-1.25C | APPLICABLE CONTACT | DF13-2630SCFA, DF13-3032SCFA |

SPECIFICATIONS

| ITEM | TEST METHOD | REQUIREMENTS | QT | AT |
|------|-------------|--------------|----|----|
|------|-------------|--------------|----|----|

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 m A (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: 30mΩ 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 | - |
| SALT MIST | EXPOSED IN 5 % SALT WATER SPRAY 48 h. | ① CONTACT RESISTANCE: 30mΩ MAX. ② NO DEFECT SUCH AS CORROSION WHICH IMPAIRS THE FUNCTION OF CONNECTOR. | X | - |
| SULFUR DIOXIDE GAS | EXPOSED IN 10 PPM 96h. | | X | - |
| RESISTANCE TO SOLDERING HEAT | 1) REFLOW SOLDERING «REFLOW AREA» MAX250°C WITHIN 10 sec MIN 230°C WITHIN 60 sec «PREHEATING AREA» 170°C to 190°C 60 sec to 120 sec PUT THROUGH IN REFLOW FURNACE TWICE, LEAVE IN AMBIENT TEMPERATURE AND HUMIDITY FOR 1 HOUR. 2) MANUAL SOLDERING SOLDERING IRON TEMPERATURE :250 ± 10°C, SOLDERING TIME : 5sec. NO STRENGTH ON CONTACT. | NO DEFORMATION OF CASE OF EXCESSIVE LOOSENESS OF THE TERMINALS. | X | - |
| SOLDERABILITY | SOLDERED AT SOLDER TEMPERATURE, 230 ± 5°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.

| COUNT | DESCRIPTION OF REVISIONS | DESIGNED | CHECKED | DATE |
|---|--------------------------|----------|----------|----------------------|
| △ | | | | |
| Unless otherwise specified, refer to JIS C5402. | | | APPROVED | TY.OMA 06.05.11 |
| | | | CHECKED | HK.UMEHARA 06.05.11 |
| | | | DESIGNED | TS.KUMAZAWA 06.05.09 |
| | | | DRAWN | AK.MIURA 06.04.28 |

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|------|---|-------------|--------------------|-------|
| Note | QT:Qualification Test AT:Assurance Test X:Applicable Test | DRAWING NO. | ELC4-083664-02 | |
| | SPECIFICATION SHEET | PART NO. | DF13-*P-1.25V (50) | |
| | HIROSE ELECTRIC CO., LTD. | CODE NO. | CL536 | △ 1/1 |