

| APPLICABLE STANDARD | | | | | |
|---|--|--|---------------------------|----------------------------|----------------|
| RATING | VOLTAGE | AC 150 V | 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 | DF13-2630SCF, DF13-3032SCF | |
| 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 | 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 | | | | | |
| MECHANICAL OPERATION | 30 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 | | | | | |
| 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 | - | |
| 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. CONNECTOR TEMPERATURE TO BE AMBIENT FOR SECOND REFLOW. 2) MANUAL SOLDERING SOLDERING IRON TEMPERATURE :350°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 IMMERSSED. | 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 HUMIDITTY RANGE IS APPLIED FOR INTERIM STRAGE DURING TRANSPORTATION. | | | | | |
| | COUNT | DESCRIPTION OF REVISIONS | DESIGNED | CHECKED | DATE |
| | | | | | |
| Unless otherwise specified, refer to JIS C 5402. | | | APPROVED | TY.OMA | 06.10.23 |
| | | | CHECKED | HK.UMEHARA | 06.10.19 |
| | | | DESIGNED | TS.KUMAZAWA | 06.10.18 |
| | | | DRAWN | AK.MIURA | 06.10.18 |
| Note QT:Qualification Test AT:Assurance Test X:Applicable Test | | | DRAWING NO. | | ELC4-083664-03 |
| | SPECIFICATION SHEET | | PART NO. | DF13-*P-1.25V (20) | |
| | HIROSE ELECTRIC CO., LTD. | | CODE NO. | CL536 | 1/1 |