

Feb.1.2023 Copyright 2023 HIROSE ELECTRIC CO., LTD. All Rights Reserved.
In case of consideration for using Automotive equipment / device which demand high reliability, kindly contact our sales window correspondents.

| APPLICABLE STANDARD | | | | | |
|--|---|--------------------------|---|---------------------------------|------------------|
| RATING | OPERATING TEMPERATURE RANGE | -35°C TO +85°C (NOTE 1) | STORAGE TEMPERATURE RANGE | -10°C TO +60°C (NOTE3) | |
| | OPERATING HUMIDITY RANGE | 20 % TO 80 % (NOTE 2) | STORAGE HUMIDITY RANGE | 40 % TO 70 % (NOTE3) | |
| | VOLTAGE | 150 V AC/DC | CURRENT | 1 A/pin | |
| | APPLICABLE CONNECTOR | DF13-*S-1.25C | APPLICABLE CONTACT | DF13(G)-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 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 | | | | | |
| 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→ 15 TO 35→+85→ 15 TO 35 °C TIME 30→ 2 TO 3→30→ 2 TO 3 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) SOLDER BATH METHOD 250°C, FOR 10 sec. 2) MANUAL SOLDERING SOLDERING IRON TEMPERATURE :300°C, SOLDERING TIME : 3sec. NO STRENGTH ON CONTACT. | | NO DEFORMATION OF CASE OF EXCESSIVE LOOSENESS OF THE TERMINALS. | X | - |
| SOLDERABILITY | SOLDERED AT SOLDER TEMPERATURE, 240°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 PACKED CONDITION. | | | | | |
| | COUNT | DESCRIPTION OF REVISIONS | DESIGNED | CHECKED | DATE |
| | | | | | |
| Unless otherwise specified, refer to IEC 60512. | | | APPROVED | SJ. OKAMURA | 20211217 |
| | | | CHECKED | SZ. ONO | 20211217 |
| | | | DESIGNED | HT. SATO | 20211217 |
| | | | DRAWN | SK. CHIBA | 20211217 |
| Note QT:Qualification Test AT:Assurance Test X:Applicable Test | | | DRAWING NO. | | ELC-083673-25-00 |
| | SPECIFICATION SHEET | | PART NO. | DF13-*P-1. 25DSA (25) | |
| | HIROSE ELECTRIC CO., LTD. | | CODE NO. | CL536 | 1/1 |