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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 | |
| | VOLTAGE | 250V AC | APPLICABLE CONNECTOR | MDF7-*P-2. 54DSA (**) | |
| | CURRENT | 3A | | | |
| 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 | 100mA (DC OR 1000 Hz). | 30mΩ MAX. | X | — | |
| INSULATION RESISTANCE | 500V DC. | 1000MΩ MIN. | X | — | |
| VOLTAGE PROOF | 650V AC FOR 1 min. | NO FLASHOVER OR BREAKDOWN. | X | — | |
| MECHANICAL CHARACTERISTICS | | | | | |
| CONTACT INSERTION AND EXTRACTION FORCES | □0.635±0.002 mm BY STEEL GAUGE. | INSERTION FORCE: 4.4 N MAX. EXTRACTION FORCE: 0.4 N MIN. | X | — | |
| MECHANICAL OPERATION | 50TIMES INSERTIONS AND EXTRACTIONS. | ① CONTACT RESISTANCE: 30mΩ 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 10μs. 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 10μs. ② NO DAMAGE, CRACK OR LOOSENESS OF PARTS. | X | — | |
| ENVIRONMENTAL CHARACTERISTICS | | | | | |
| RAPID CHANGE OF TEMPERATURE | TEMPERATURE -55→ 5 TO 35→85→5 TO 35°C TIME 30→10 TO 15→30→10TO15min UNDER 5 CYCLES. | ① CONTACT RESISTANCE: 30mΩ MAX. ② INSULATION RESISTANCE: 1000 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. | ① CONTACT RESISTANCE: 30mΩ MAX. ② INSULATION RESISTANCE: 500 MΩ MIN. ③ NO DAMAGE, CRACK OR LOOSENESS OF PARTS. | X | — | |
| CORROSION SALT MIST | EXPOSED IN 5% SALT WATER SPRAY FOR 48h. | ① CONTACT RESISTANCE: 60 mΩ MAX. ② NO HEAVY CORROSION. | X | — | |
| SULPHUR DIOXIDE | EXPOSED IN 10 PPM FOR 96 h. (TEST STANDARD:JEITA-39) | ① CONTACT RESISTANCE: 60 mΩ MAX. ② NO HEAVY CORROSION. | X | — | |
| RESISTANCE TO SOLDERING HEAT | 【FLOW CONDITION BY AUTOMATIC SOLDERING UNIT】 SOLDER TEMPERATURE 260±5°C, FOR IMMERSION DURATION 10s.(ONE TIME) 【RECOMMENDED MANUAL SOLDELING CONDITION】 SOLDERING IRON TEMPERATURE 350°C SOLDERING TIME : WITHIN 3 SECONDS. DO NOT APPLY ANY FORCE TO THE CONTACTS. | NO DEFORMATION OF CASE OF EXCESSIVE LOOSENESS OF THE TERMINALS. | X | — | |
| SOLDERABILITY | SOLDERED AT SOLDER TEMPERATURE 245±5°C FOR IMMERSION DURATION 5s. | SOLDER SHALL COVER A MINIMUM OF 95% OF THE SURFACE BEING IMMERSED. | X | — | |
| | | | | | |
| | COUNT | DESCRIPTION OF REVISIONS | DESIGNED | CHECKED | DATE |
| △ | 6 | DIS-H-006198 | YN. SAKAMOTO | TS. MIYAZAKI | 11. 10. 12 |
| REMARKS | | | APPROVED | KJ. KATAYOSE | 05. 01. 05 |
| NOTE 1:INCLUDING THE TEMPERATURE RISE BY CURRENT. | | | CHECKED | KI. AKIYAMA | 05. 01. 05 |
| UNLESS OTHERWISE SPECIFIED , REFER TO JIS C 5402 . | | | DESIGNED | TH. ARAI | 05. 01. 05 |
| | | | DRAWN | TH. ARAI | 05. 01. 05 |
| Note QT:Qualification Test AT:Assurance Test X:Applicable Test | | | DRAWING NO. | | ELC4-162738-11 |
| HRS | SPECIFICATION SHEET | | PART NO. | MDF7-*S-2. 54DSA (56) | |
| | HIROSE ELECTRIC CO., LTD. | | CODE NO. | △ | 1/1 |