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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 | -55 °C TO 85 °C ⁽¹⁾ | STORAGE TEMPERATURE RANGE | -10 °C TO 60 °C ⁽²⁾ | |
| | VOLTAGE | 125 V AC | OPERATING HUMIDITY RANGE | 40 % TO 80 % | |
| | CURRENT | 0.5 A | STRAGE HUMIDITY RANGE | 40 % TO 70 % ⁽²⁾ | |
| | APPLICABLE CABLE | AWG #28 (JACKET SIZE : 0.9±0.1mm) | | | |
| SPECIFICATIONS | | | | | |
| ITEM | TEST METHOD | REQUIREMENTS | QT | AT | |
| CONSTRUCTION | | | | | |
| GENERAL EXAMINATION | VISUALLY AND BY MEASURING INSTRUMENT. | ACCORDING TO DRAWING. | × | × | |
| MARKING | CONFIRMED VISUALLY. | | × | × | |
| ELECTRIC CHARACTERISTICS | | | | | |
| CONTACT RESISTANCE | 100 mA (DC OR 1000 Hz). | 45 mΩ MAX . | × | — | |
| CONTACT RESISTANCE MILLIVOLT LEVEL METHOD | 20 mV MAX, 1 mA(DC OR 1000Hz) | 55 mΩ MAX . | × | — | |
| INSULATION RESISTANCE | 250 V DC | 100 MΩ MIN. | × | — | |
| VOLTAGE PROOF | 300 V AC FOR 1 min. | NO FLASHOVER OR BREAKDOWN. | × | — | |
| MECHANICAL CHARACTERISTICS | | | | | |
| INSERTION AND WITHDRAWAL FORCES | MEASURED BY APPLICABLE CONNECTOR. | INSERTION FORCE: 28 N MAX. WITHDRAWAL FORCE: 3.1 N MIN. | × | — | |
| MECHANICAL OPERATION | 500 TIMES INSERTIONS AND EXTRactions. | ① CONTACT RESISTANCE: 55 mΩ MAX. ② NO DAMAGE, CRACK AND LOOSENESS OF PARTS. | × | — | |
| VIBRATION | FREQUENCY 10 TO 55 Hz, AMPLITUDE : 0.76 mm, AT 2 h FOR 3 DIRECTIONS. | ① NO ELECTRICAL DISCONTINUITY OF 1 μs. ② NO DAMAGE, CRACK AND LOOSENESS OF PARTS. | × | — | |
| SHOCK | 490 m/s ² , DURATION OF PULSE 11 ms AT 3 TIMES FOR 3 DIRECTIONS. | | × | — | |
| ENVIRONMENTAL CHARACTERISTICS | | | | | |
| DAMP HEAT (STEADY STATE) | EXPOSED AT 40±2 °C, 90 ~ 95 %, 96 h. | ① CONTACT RESISTANCE: 55 mΩ MAX. ② INSULATION RESISTANCE: 100 MΩ MIN. | × | — | |
| RAPID CHANGE OF TEMPERATURE | TEMPERATURE-55→+15~+35→+85→+15~+35°C TIME 30 → 10~15 → 30 → 10~15 min. UNDER 5 CYCLES. | ③ NO DAMAGE, CRACK AND LOOSENESS OF PARTS. | × | — | |
| CORROSION SALT MIST | EXPOSED IN 5 % SALT WATER SPRAY FOR 48 h. | ① CONTACT RESISTANCE: 55 mΩ MAX. ② NO HEAVY CORROSION. | × | — | |
| HYDROGEN SULPHIDE | EXPOSED IN 3 PPM FOR 96 h. (TEST STANDARD: JEIDA 38) | | × | — | |
| | | | | | |
| | COUNT | DESCRIPTION OF REVISIONS | DESIGNED | CHECKED | DATE |
| | △ | | | | |
| REMARK ⁽¹⁾ TEMPERATURE RISE INCLUDED WHEN ENERGIZED. ⁽²⁾ THIS STORAGE INDICATES A LONG-TERM STORAGE STATE FOR THE UNUSED PRODUCT BEFORE THE BOARD MOUNTED. | | | APPROVED | HS. OKAWA | 08.06.16 |
| | | | CHECKED | HT. YAMAGUCHI | 08.06.16 |
| Unless otherwise specified, refer to MIL-STD-1344. | | | DESIGNED | KN. SHIBUYA | 08.06.16 |
| | | | DRAWN | AH. EDASHIGE | 08.06.13 |
| Note QT:Qualification Test AT:Assurance Test X:Applicable Test | | DRAWING NO. | ELC4-150611-00 | | |
| HRS | SPECIFICATION SHEET | | PART NO. | FX2B-32SA-1. 27R | |
| | HIROSE ELECTRIC CO., LTD. | | CODE NO. | CL572-0622-5-00 | △ 1/1 |