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In case of consideration for using Automotive equipment / device which demand high reliability, kindly contact our sales window correspondents.

| COUNT | DESCRIPTION OF REVISIONS | BY | CHKD | DATE | COUNT | DESCRIPTION OF REVISIONS | BY | CHKD | DATE | |
|---|-----------------------------|---|------|-------------------|--|--------------------------|--------------|----------|------|---|
| APPLICATION STANDARD | | | | | | | | | | |
| RATING | OPERATING TEMPERATURE RANGE | -55 °C TO +85 °C | | | STORAGE TEMPERATURE RANGE | --- °C TO --- °C | | | | |
| | VOLTAGE | 200V AC | | | OPERATING HUMIDITY RANGE | --- % TO --- % | | | | |
| | CURRENT | 2 A | | | APPLICABLE CABLE | _____ | | | | |
| SPECIFICATIONS | | | | | | | | | | |
| ITEM | | TEST METHOD | | | REQUIREMENT | | | QT | AT | |
| CONSTRUCTION | | | | | | | | | | |
| GENERAL EXAMINATION | | VISUALLY AND BY MEASURING INSTRUMENT. | | | ACCORDING TO DRAWING | | | ○ | ○ | |
| MARKING | | CONFIRMED VISUALLY | | | | | | ○ | ○ | |
| ELECTRICAL CHARACTERISTICS | | | | | | | | | | |
| CONTACT RESISTANCE | | 100 mA (DC OR 1000 Hz) | | | 30 mΩ MAX. | | | ※ | ○ | - |
| CONTACT RESISTANCE MILLIVOLT LEVEL METHOD | | mV MAX, mA (DC OR Hz) | | | mΩ MAX. | | | | - | - |
| INSULATION RESISTANCE | | 500 V DC | | | 1000 MΩ MIN. | | | ○ | - | |
| VOLTAGE PROOF | | 650 V AC FOR 1 min. | | | NO FLASHOVER OR BREAKDOWN | | | ○ | - | |
| MECHANICAL CHARACTERISTICS | | | | | | | | | | |
| CONTACT INSERTION AND EXTRACTION FORCES | | BY STEEL GAUGE. | | | INSERTION FORCE: N MAX. EXTRACTION FORCE: N MIN. | | | - | - | |
| INSERTION AND WITHDRAWAL FORCES | | MEASURED BY APPLICABLE CONNECTOR. | | | INSERTION FORCE: 7.84 N MAX. WITHDRAWAL FORCE 0.49 N MIN. | | | ○ | - | |
| MECHANICAL OPERATION | | 100 TIMES INSERTION AND EXTRACTIONS. | | | 1) CONTACT RESISTANCE: 40 mΩ MAX. ※ 2) NO DAMAGE, CRACK AND LOOSENESS OF PART. | | | ○ | - | |
| VIBRATION | | FREQUENCY: 10 TO 55 Hz, AMPLITUDE: 1.52 mm, - m/s ² AT 2 h FOR 3 DIRECTIONS. | | | 1) NO ELECTRICAL DISCONTINUITY OF 1 μs 2) CONTACT RESISTANCE: - mΩ MAX. 3) NO DAMAGE, CRACK AND LOOSENESS OF PART. | | | ○ | - | |
| 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: 40 mΩ MAX. ※ 2) INSULATION RESISTANCE: 1000 MΩ MIN. | | | ○ | - | |
| RAPID CHAGE OF TEMPERTURE | | TEMPERTURE -55→+5~+35→+85→+5~+35 °C TIME 30 → 10~15 → 30 → 10~15 min. UNDER 5 CYCLES. | | | 3) NO DAMAGE, CRACK AND LOOSENESS OF PART. | | | ○ | - | |
| DAMP HEAT,CYCLIC | | EXPOSED AT TO °C, TO °C %,TOTAL CYCLES(h). | | | 1) CONTACT RESISTANCE: mΩ MAX. 2)INSULATION RESISTANCE: MΩ MIN.(AT HIGH HUMIDITY) 3)INSULATION RESISTANCE: MΩ MIN.(AT DRY) 4) NO DAMAGE, CRACK AND LOOSENESS OF PART. | | | - | - | |
| DRY HEAT | | EXPOSED AT °C, h. | | | 1) CONTACT RESISTANCE: mΩ MAX. 2) NO DAMAGE, CRACK AND LOOSENESS OF PART. | | | - | - | |
| CORROSION SALT MIST | | EXPOSED IN 5 % SALT WATER SPRAY FOR 48 h. | | | 1) CONTACT RESISTANCE: 40 mΩ MAX. ※ 2) NO HEAVY CORROSION. | | | ○ | - | |
| HYDROGEN SULPHIDE | | EXPOSED IN 3 PPM FOR 120 h. (TEST STANDARD:JEIDA-38) | | | | | | ○ | - | |
| SULPHUR DIOXIDE | | EXPOSED IN PPM FOR h. (TEST STANDARD:JEIDA-39) | | | | | | - | - | |
| RESISTANCE TO SOLDERING HEAT | | SOLDER TEMPERATURE, °C FOR IMMERSION,DURATION, s.(MIL-STD-202) | | | NO DEFORMATION OF CASE OF EXCESSIVE LOOSENESS OF THE TERMINAL. | | | - | - | |
| SOLDRABILITY | | SOLDERED AT SOLDER TEMPERATURE, °C FOR IMMERSION DURATION, s.(MIL-STD-202) | | | A NEW UNIFORM COATING OF SOLDER SHALL COVER A MINIMUM OF 95 % OF THE SURFACE BEING IMMersed. | | | - | - | |
| REMARKS | | | | DRAWN | DESIGNED | CHECKED | APPROVED | RELEASED | | |
| CONTACT RESISTANCE WITH ※ MARK IS THE VALUE INCLUDING 2POINTS OF CONTACT. | | | | J. Hirasawa | J. Hirasawa | H. Okawa | M. Yamaguchi | | | |
| UNLESS OTHERWISE SPECIFIED, REFER TO MIL-STD-1344 | | | | 97.12.1 | 97.12.1 | 97.12.01 | 97.12.04 | | | |
| NOTE QT: QUALIFICATION TEST AT: ASSURANCE TEST O: APPLICABLE TEST | | | | | | | | | | |
| HRS HIROSE ELECTRIC CO.,LTD. | | SPECIFICATION SHEET | | | PART NO. A3-SP(A) | | | | | |
| CODE NO.(OLD) | | DRAWING NO. | | CODE NO. | | 1 | | | | |
| CL | | ELC4- 020728 | | CL 621 - 0180 - 4 | | 1 | | | | |

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