

| 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 | 125 V AC | | | OPERATING HUMIDITY RANGE | — % TO — % | | | |
| | CURRENT | 0.5 A | | | APPLICABLE CABLE | AWG28 | | | |
| SPECIFICATIONS | | | | | | | | | |
| ITEM | | TEST METHOD | | | REQUIREMENT | | | QT | AT |
| CONSTRUCTION | | | | | | | | | |
| GENERAL EXAMINATION | | VISUALLY AND BY MEASURING INSTRUMENT. | | | ACCORDING TO DRAWING | | | X | X |
| MARKING | | CONFIRMED VISUALLY | | | | | | X | X |
| ELECTRICAL CHARACTERISTICS | | | | | | | | | |
| CONTACT RESISTANCE | | 100 mA (DC OR 1000 Hz) | | | 45 mΩ MAX. | | | X | — |
| CONTACT RESISTANCE MILLIVOLT LEVEL METHOD | | 20 mV MAX, 1 mA (DC OR 1000 Hz) | | | 55 mΩ MAX. | | | X | — |
| INSULATION RESISTANCE | | 250 V DC | | | 100 MΩ MIN. | | | X | — |
| VOLTAGE PROOF | | 300 V AC FOR 1 min. | | | NO FLASHOVER OR BREAKDOWN | | | X | — |
| MECHANICAL CHARACTERISTICS | | | | | | | | | |
| INSERTION AND WITHDRAWAL FORCES | | MEASURED BY APPLICABLE CONNECTOR. (EXCEPT FOR THE PART OF LOCK) | | | INSERTION FORCE: 60N MAX. WITHDRAWAL FORCE 6.7N MIN. | | | X | X |
| MECHANICAL OPERATION | | 500 TIMES INSERTION AND EXTRACTIONS | | | 1) CONTACT RESISTANCE: 55 mΩ MAX. 2) NO DAMAGE, CRACK AND LOOSENESS OF PART. | | | X | — |
| VIBRATION | | FREQUENCY: 10 TO 55 Hz, SINGLE AMPLITUDE: 0.76 mm AT 2 h FOR 3 DIRECTIONS. | | | 1) NO ELECTRICAL DISCONTINUITY OF 1 μs 2) NO DAMAGE, CRACK AND LOOSENESS OF PART. | | | X | — |
| SHOCK | | 490 m/s ² DURATION OF PULSE 11 ms AT 3 TIMES FOR 3 DIRECTIONS. | | | | | | X | — |
| 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. | | | X | — |
| 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 PART. | | | X | — |
| CORROSION SALT MIST | | EXPOSED IN 5 % SALT WATER SPRAY FOR 48 h. | | | 1) CONTACT RESISTANCE: 55 mΩ MAX. 2) NO HEAVY CORROSION. | | | X | — |
| HYDROGEN SULPHIDE | | EXPOSED IN 3 PPM FOR 96 h. (TEST STANDARD:JEIDA-38) | | | | | | X | — |
| | | | | | | | | | |
| REMARKS | | | | | DRAWN | DESIGNED | CHECKED | APPROVED | RELEASED |
| | | | | | <i>K. Kiriya</i> 00.09.13 | <i>T. Niisawa</i> 00.09.13 | <i>H. Okawa</i> 00.09.13 | <i>T. Takahashi</i> 00.09.13 | |
| UNLESS OTHERWISE SPECIFIED, REFER TO MIL-STD-1344. | | | | | | | | | |
| NOTE QT: QUALIFICATION TEST AT: ASSURANCE TEST X: APPLICABLE TEST | | | | | | | | | |
| HRS HIROSE ELECTRIC CO.,LTD. | | SPECIFICATION SHEET | | | PART NO. FX2B-68SA-1.27R | | | | |
| CODE NO.(OLD) CL | | DRAWING NO. ELC4-150615 | | | CODE NO. CL 572 - 0629 - 4 | | | 1 | 1 |