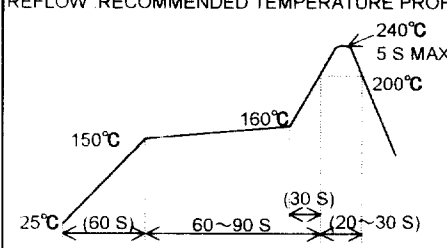


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 In case of consideration for using Automotive equipment / device which demand high reliability, kindly contact our sales window correspondents.

| 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 | -10 °C TO 60 °C | | | |
| | VOLTAGE | AC 50 V | | | OPERATING HUMIDITY RANGE | RELATIVE HUMIDITY: 95 % MAX (NO DEW CONDENSATION IS PERMITTED) | | | |
| | CURRENT | 0.3 A | | | | | | | |
| 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). | | | 60 mΩ MAX. | | | X | X |
| INSULATION RESISTANCE | | 100 V DC. | | | 100 MΩ MIN. | | | X | - |
| VOLTAGE PROOF | | 150 V AC FOR 1 min. | | | NO FLASHOVER OR BREAKDOWN. | | | X | X |
| MECHANICAL CHARACTERISTICS | | | | | | | | | |
| INSERTION AND WITHDRAWAL FORCES | | MEASURED BY APPLICABLE CONNECTOR. | | | INSERTION FORCE: 40.8 N MAX. WITHDRAWAL FORCE: 1.7 N MIN | | | X | - |
| MECHANICAL OPERATION | | 50 TIMES INSERTION AND EXTRACTIONS. | | | 1) CONTACT RESISTANCE: 70 mΩ MAX. 2) NO DAMAGE, CRACK AND LOOSENESS OF PART. | | | X | - |
| VIBRATION | | FREQUENCY: 10 TO 55 Hz, SINGLE AMPLITUDE: 0.75 mm, - m/s ² AT 10 CYCLES FOR 3 DIRECTIONS. | | | 1) NO ELECTRICAL DISCONTINUITY OF 1 μs MIN. 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: 70 mΩ MAX. 2) INSULATION RESISTANCE: 100 MΩ MIN. | | | X | - |
| RAPID CHAGE OF TEMPERTURE | | TEMPERTURE -55→15~35→ 85→15~35°C TIME 30→ 2~ 3→ 30→ 2~ 3 min. UNDER 5 CYCLES. | | | 3) NO DAMAGE, CRACK AND LOOSENESS OF PART. | | | X | - |
| DRY HEAT | | EXPOSED AT 85 °C, 96 h. | | | 1) CONTACT RESISTANCE: 70 mΩ MAX. | | | X | - |
| COLD | | EXPOSED AT -55 °C, 96 h. | | | 2) NO DAMAGE, CRACK AND LOOSENESS OF PART. | | | X | - |
| CORROSION SALT MIST | | EXPOSED IN 5 % SALT WATER SPRAY FOR 48 h. | | | NO HEAVY CORROSION. | | | X | - |
| SULPHUR DIOXIDE | | EXPOSED IN 10 PPM FOR 96 h. (TEST STANDARD: JIS C 0090) | | | 1) CONTACT RESISTANCE: 70 mΩ MAX. 2) NO HEAVY CORROSION. | | | X | - |
| RESISTANCE TO SOLDERING HEAT | | REFLOW RECOMMENDED TEMPERATURE PROFILE  | | | NO MELTING OF RESIN WHICH AFFECTS THE PERFORMANCE OF COMPONENT. | | | X | - |
| SOLDRABILITY | | SOLDERED AT SOLDER TEMPERATURE, 235 °C FOR IMMERSION DURATION, 2 s. | | | NO PINHOLE OR DEWETTING ON SOLDERED SURFACE. | | | X | - |
| REMARKS | | | | DRAWN | DESIGNED | CHECKED | APPROVED | RELEASED | |
| | | | | <i>M. Matsukawa</i> | <i>M. Matsukawa</i> | <i>S. Sakai</i> | <i>T. Yamamura</i> | | |
| UNLESS OTERWISE SPECIFIED, REFER TO JIS C 5402. | | | | 99.10.25 | 99.10.25 | 99.10.26 | 99.10.26 | | |
| NOTE QT: QUALIFICATION TEST AT: ASSURANCE TEST X: APPLICABLE TEST | | | | | | | | | |
| HRS HIROSE ELECTRIC CO., LTD. | | | | SPECIFICATION SHEET | | | PART NO. | | |
| | | | | FX11LA - 68S - SV (21) | | | | | |
| CODE NO.(OLD) | | DRAWING NO. | | | CODE NO. | | 1 | | |
| CL | | ELC4 - 152116 - 01 | | | CL 573 - 0142 - 6 - 21 | | 1 | | |

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