

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

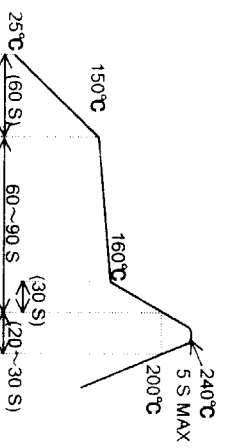
| COUNT | DESCRIPTION OF REVISIONS | BY | CHKD | DATE | COUNT | DESCRIPTION OF REVISIONS | BY | CHKD | DATE |
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| APPLICATION STANDARD | | OPERATING TEMPERATURE RANGE | STORAGE TEMPERATURE RANGE |
|----------------------|--|-----------------------------|---|
| | | -55 °C TO 85 °C | -10 °C TO 60 °C |
| RATING VOLTAGE | | AC 50 V | OPERATING HUMIDITY RANGE |
| CURRENT | | 0.3 A | RELATIVE HUMIDITY : 95 % MAX (NO DEW CONDENSATION IS PERMITTED) |

SPECIFICATIONS

| ITEM | TEST METHOD | REQUIREMENT | Q/T | A/T |
|-----------------------------------|--|---|-----|-----|
| 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 : 55.2 N MAX. WITHDRAWAL FORCE : 2.3 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 CHANGE OF TEMPERATURE | TEMPERATURE :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 | | REMARKS | |
|---|--|--|--|
| TO BE TESTED UNDER THE ABOVE CONDITIONS | | | |
| SOLDERED AT SOLDER TEMPERATURE, 235 °C FOR IMMERSION DURATION, 2 s. | | NO PINHOLE OR DEWETTING ON SOLDERED SURFACE. | |

| DRAWN | DESIGNED | CHECKED | APPROVED | RELEASED |
|---------------------|---------------------|------------------|--------------------|----------|
| <i>Y. Takahashi</i> | <i>Y. Takahashi</i> | <i>M. Ishida</i> | <i>S. Yamamoto</i> | |
| 99.10.25 | 99.10.25 | 99.10.26 | 99.10.26 | |

UNLESS OTHERWISE SPECIFIED, REFER TO JIS C 5402.
NOTE QT: QUALIFICATION TEST AT: ASSURANCE TEST X: APPLICABLE TEST

| | | | | | |
|--------------------------------------|--------------------|----------------------------|---|---------------------------------------|---|
| HRS HIROSE ELECTRIC CO., LTD. | | SPECIFICATION SHEET | | PART NO. FX11LB-92 S - SV (21) | |
| CODE NO.(OLD) | DRAWING NO. | CODE NO. | | | |
| CL | ELC4 - 152121 - 01 | CL 573 - 0153 - 2 - 21 | | | |
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