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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 | 50 V AC | OPERATING HUMIDITY RANGE | 95 % RH MAX. <small>(NO DEW CONDENSATION IS PERMITTED)</small> | |
| | CURRENT | 0.3 A | | | |
| 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). | | 70 mΩ MAX. | × | - |
| INSULATION RESISTANCES | 100 V DC | | 100 MΩ MIN. | × | - |
| VOLTAGE PROOF | 150 V AC FOR 1 min. | | NO FLASHOVER OR BREAKDOWN. | × | × |
| MECHANICAL CHARACTERISTICS | | | | | |
| INSERTION AND WITHDRAWAL FORCE | MEASURED BY APPLICABLE CONNECTOR. | | INSERTION FORCE: 72 N MAX. WITHDRAWAL FORCE: 4.8 N MIN. | × | - |
| MECHANICAL OPERATION | 50 TIMES INSERTIONS AND EXTRACTIONS. | | ① CONTACT RESISTANCE: 80 mΩ MAX. ② NO DAMAGE, CRACK AND LOOSENESS OF PARTS. | × | - |
| VIBRATION | FREQUENCY 10 TO 55 Hz, SINGLE AMPLITUDE : 0.75 mm, AT 10 CYCLES FOR 3 DIRECTIONS. | | ① NO ELECTRICAL DISCONTINUITY OF 1 μs MIN. 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: 80 mΩ MAX. ② INSULATION RESISTANCE: 100 MΩ MIN. ③ NO DAMAGE, CRACK AND LOOSENESS OF PARTS. | × | - |
| RAPID CHANGE OF TEMPERATURE | TEMPERATURE -55→+15~+35→+85→+15~+35°C TIME 30 → 2~3 → 30 → 2~3 min. UNDER 5 CYCLES. | | | × | - |
| DRY HEAT | EXPOSED AT 85 °C, 96 h. | | ① CONTACT RESISTANCE: 80 mΩ MAX. ② NO DAMAGE, CRACK AND LOOSENESS OF PARTS. | × | - |
| COLD | EXPOSED AT -55 °C, 96 h. | | | × | - |
| CORROSION SALT MIST | EXPOSED IN 5 % SALT WATER SPRAY FOR 48 h. | | NO HEAVY CORROSION. | × | - |
| SULPHUR DIOXIDE | EXPOSED IN 10 PPM FOR 96 h. (TEST STANDARD: JIS C 0090) | | ① CONTACT RESISTANCE: 80 mΩ MAX. ② NO HEAVY CORROSION. | × | - |
| RESISTANCE TO SOLDERING HEAT | 1) REFLOW SOLDERING : 250 °C MAX, : 220 °C MIN, FOR 60 s | | NO MELTING OF RESIN WHICH AFFECTS THE PERFORMANCE OF COMPONENT. | × | - |
| | 2) SOLDERING IRONS : 360 °C, FOR 5 s | | | × | - |
| SOLDERABILITY | SOLDERED AT SOLDER TEMPERATURE, 240±3°C, FOR IMMERSION DURATION, 3 s. | | A NEW UNIFORM COATING OF SOLDER SHALL OVER A MINIMUM OF 95 % OF THE SURFACE BEING IMMersed. | × | - |
| | | | | | |
| △ | 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 | 06.05.13 |
| | | | CHECKED | HS.OZAWA | 06.05.13 |
| | | | DESIGNED | KY.NAKAMURA | 06.05.13 |
| Unless otherwise specified, refer to JIS C 5402. | | | DRAWN | SY.KAMIGA | 06.05.12 |
| Note QT:Qualification Test AT:Assurance Test X:Applicable Test | | | DRAWING NO. | | ELC4-152602-25 |
| HRS | SPECIFICATION SHEET | | PART NO. | FX11B-80P/8-SV (71) | |
| | HIROSE ELECTRIC CO., LTD. | | CODE NO. | CL573-0513-6-71 | △ 1/1 |