

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

| APPLICABLE STANDARD | | TEST METHOD | | REQUIREMENTS | | QT | AT | | |
|---|---|---------------------------------------|--|--|--------------------------------|-------------------|----|-----|---|
| 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. | | | | |
| | CURRENT | 0.3 A | | (NO DEW CONDENSATION IS PERMITTED) | | | | | |
| SPECIFICATIONS | | | | | | | | | |
| ITEM | TEST METHOD | | | REQUIREMENTS | | | QT | AT | |
| CONSTRUCTION | | VISUALLY AND BY MEASURING INSTRUMENT. | | | ACCORDING TO DRAWING. | | | X | X |
| MARKING | | CONFIRMED VISUALLY. | | | | | | X | X |
| ELECTRIC CHARACTERISTICS | | | | | | | | | |
| CONTACT RESISTANCE | 100 mA (DC OR 1000 Hz). | | 70 mΩ MAX. | X | | | - | | |
| INSULATION RESISTANCES | 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 FORCE | MEASURED BY APPLICABLE CONNECTOR. | | | INSERTION FORCE: | 48 N MAX. | | X | - | |
| MECHANICAL OPERATION | 50 TIMES INSERTIONS AND EXTRACTIONS. | | | WITHDRAWAL FORCE: | 2 N MIN. | | X | - | |
| VIBRATION | FREQUENCY 10 TO 55 Hz, SINGLE AMPLITUDE : 0.75 mm, AT 10 CYCLES FOR 3 DIRECTIONS. | | | ① CONTACT RESISTANCE: 80 mΩ MAX. ② NO DAMAGE, CRACK AND LOOSENESS OF PARTS. | | | X | - | |
| SHOCK | 490 ms ² , DURATION OF PULSE 11 ms AT 3 TIMES FOR 3 DIRECTIONS. | | | ① NO ELECTRICAL DISCONTINUITY OF 1 μs MIN. ② NO DAMAGE, CRACK AND LOOSENESS OF PARTS. | | | X | - | |
| 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. | | | | X | - | |
| RAPID CHANGE OF TEMPERATURE | TEMPERATURE -55→+15~+35→+85→+15~+35°C TIME 30 → 2~3 → 30 → 2~3 min. UNDER 5 CYCLES. | | | | | | X | - | |
| DRY HEAT | EXPOSED AT 85 °C, 96 h. | | ① CONTACT RESISTANCE: 80 mΩ MAX. ② NO DAMAGE, CRACK AND LOOSENESS OF PARTS. | | | | X | - | |
| COLD | EXPOSED AT -55 °C, 96 h. | | | | | | 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: 80 mΩ MAX. ② NO HEAVY CORROSION. | | | | X | - | |
| RESISTANCE TO SOLDERING HEAT | 1) REFLOW SOLDERING : 250 °C MAX, : 220 °C MIN, FOR 60 s 2) SOLDERING IRONS : 360 °C, FOR 5 s | | NO DEFORMATION OF CASE OF EXCESSIVE LOOSENESS OF THE TERMINAL. | | | | X | - | |
| SOLDERABILITY | SOLDERED AT SOLDER TEMPERATURE, 240±3°C, FOR IMMERSION DURATION, 3 s. | | A NEW UNIFORM COATING OF SOLDER SHALL COVER A MINIMUM OF 95 % OF THE SURFACE BEING IMMERSED. | | | | X | - | |
| 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. | | | | | | | | | |
| Unless otherwise specified, refer to JIS C 5402. | | | | | | | | | |
| Note QT:Qualification Test AT:Assurance Test X:Applicable Test | | DRAWING NO. | | ELC4-152613-02 | | | | | |
| HRS | | SPECIFICATION SHEET | | PART NO. | | FX11B-80P-SV (22) | | | |
| | | HIROSE ELECTRIC CO., LTD. | | CODE NO. | | CL573-0558-4-22 | | | |
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