| APPLICABLE STANDARD | | | | |
|---|---|---|---|---|
| RATING | OPERATING TEMPERATURE RANGE | -55 °C TO 85 °C (1) | STORAGE TEMPERATURE RANGE | -10 °C TO 60 °C (2) |
| | VOLTAGE | 30 V AC | OPERATING HUMIDITY RANGE | 95 % RH MAX. (NO DEW CONDENSATION IS PERMITTED) |
| | 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). | 100 mΩ MAX. | × | |
| INSULATION RESISTANCE | 100 V DC | 50 MΩ MIN. | × | |
| VOLTAGE PROOF | 100 V AC FOR 1 min. | NO FLASHOVER OR BREAKDOWN. | × | |
| **MECHANICAL CHARACTERISTICS** | | | | |
| INSERTION AND WITHDRAWAL FORCE △1 | MEASURED BY APPLICABLE CONNECTOR. | PIN / INSERTION FORCE (MAX) / WITHDRAWAL FORCE (MIN): 24 — 49.6N — 4.96 N; 40 — 56 N — 5.6 N; 60 — 64 N — 6.4 N | × | |
| MECHANICAL OPERATION | 30 TIMES INSERTIONS AND EXTRACTIONS. | ① CONTACT RESISTANCE: 120 mΩ MAX.<br>② NO DAMAGE, CRACK AND LOOSENESS OF PARTS. | × | |
| VIBRATION | FREQUENCY 10 TO 55 Hz,<br>SINGLE AMPLITUDE : 0.75 mm,<br>10 CYCLES IN 3 AXIAL DIRECTIONS. | ① NO ELECTRICAL DISCONTINUITY OF 1 μs MIN.<br>② NO DAMAGE, CRACK AND LOOSENESS OF PARTS. | × | |
| SHOCK | 490 m/s², DURATION OF PULSE 11 ms<br>FOR 3 TIMES IN 3 BOTH AXIAL DIRECTIONS. | | × | |
| **ENVIRONMENTAL CHARACTERISTICS** | | | | |
| DAMP HEAT (STEADY STATE) | EXPOSED AT 40±2 °C, 90 ～ 95 %, 96 hrs. | ① CONTACT RESISTANCE: 120 mΩ MAX.<br>② INSULATION RESISTANCE: 25 MΩ MIN.<br>③ NO DAMAGE, CRACK AND LOOSENESS OF PARTS. | × | |
| RAPID CHANGE OF TEMPERATURE △1 | TEMPERATURE -55→+15～+35→+85→+15～+35°C<br>TIME 30 → 2～3 → 30 → 2～3 min.<br>5 CYCLES. | ① CONTACT RESISTANCE: 120 mΩ MAX.<br>② INSULATION RESISTANCE: 50 MΩ MIN.<br>③ NO DAMAGE, CRACK AND LOOSENESS OF PARTS. | × | |
| CORROSION SALT MIST | EXPOSED IN 5 % SALT WATER SPRAY FOR 48 hrs. | NO HEAVY CORROSION. | × | |
| SULPHUR DIOXIDE | EXPOSED IN 25 PPM FOR 96 hrs.<br>(TEST STANDARD: JIS C 0090) | | × | |
| RESISTANCE TO SOLDERING HEAT | 1) REFLOW SOLDERING : 250 °C MAX,<br>: 220 °C MIN,<br>FOR 60 sec. | NO DEFORMATION OF CASE OF EXCESSIVE LOOSENESS OF THE TERMINALS. | × | |
| | 2) SOLDERING IRONS : 360 °C,<br>FOR 5 sec. | | × | |
| SOLDERABILITY | SOLDERED AT SOLDER TEMPERATURE, 240°C,<br>FOR IMMERSION DURATION, 3 sec. | A NEW UNIFORM COATING OF SOLDER SHALL COVER A MINIMUM OF 95% OF THE SURFACE BEING IMMERSED. | × | |
| | | | | |

| | COUNT | DESCRIPTION OF REVISIONS | DESIGNED | CHECKED | DATE |
|---|---|---|---|---|---|
| △1 | 2 | DIS-F-006120 | TS. OONO | HT. YAMAGUCHI | 12. 03. 26 |

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.

| | | |
|---|---|---|
| APPROVED | HS. OKAWA | 06. 04. 11 |
| CHECKED | HT. YAMAGUCHI | 06. 04. 11 |
| DESIGNED | TH. NODA | 06. 04. 10 |
| DRAWN | TH. NODA | 06. 04. 10 |

Note QT:Qualification Test AT:Assurance Test X:Applicable Test

DRAWING NO. ELC4-156245-00

| | | | |
|---|---|---|---|
| HRS | SPECIFICATION SHEET | PART NO. | FX12B-*S-0. 4SV |
| | HIROSE ELECTRIC CO., LTD. | CODE NO. | △1 1/1 |

FORM HD0011-2-1