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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 | STORAGE TEMPERATURE RANGE | - °C TO - °C | |
| | VOLTAGE | 250 V AC | OPERATING HUMIDITY RANGE | - % TO - % | |
| | CURRENT | 1 A | APPLICABLE CABLE | - | |
| SPECIFICATIONS | | | | | |
| ITEM | TEST METHOD | | REQUIREMENTS | QT | AT |
| CONSTRUCTION | | | | | |
| GENERAL EXAMINATION | VISUALLY AND BY MEASURING INSTRUMENT. | | ACCORDING TO DRAWING. | <input type="radio"/> | <input type="radio"/> |
| MARKING | CONFIRMED VISUALLY. | | | <input type="radio"/> | <input type="radio"/> |
| ELECTRIC CHARACTERISTICS | | | | | |
| CONTACT RESISTANCE | 10 mA (DC OR 1000 Hz). | | 70 mΩ MAX. | <input type="radio"/> | <input type="radio"/> |
| INSULATION RESISTANCE | 250 V DC. | | 1000 MΩ MIN. | <input type="radio"/> | <input type="radio"/> |
| VOLTAGE PROOF | 500 V AC FOR 1 min. | | NO FLASHOVER OR BREAKDOWN. | <input type="radio"/> | <input type="radio"/> |
| MECHANICAL CHARACTERISTICS | | | | | |
| INSERTION AND WITHDRAWAL FORCES | MEASURED BY APPLICABLE CONNECTOR. | | INSERTION FORCE 78.4 N MAX. EXTRACTION FORCE 19.6 N MIN. | <input type="radio"/> | - |
| MECHANICAL OPERATION | 500 TIMES INSERTIONS AND EXTRACTIONS. | | 1) CONTACT RESISTANCE: 70 mΩ MAX. 2) NO DAMAGE, CRACK AND LOOSENESS OF PARTS. | <input type="radio"/> | - |
| VIBRATION | FREQUENCY 10 TO 500 Hz SINGLE AMPLITUDE 0.75 mm, AT 3h FOR 3 DIRECTIONS. | | 1) NO ELECTRICAL DISCONTINUITY OF 1μs. 2) CONTACT RESISTANCE: 70 mΩ MAX. 3) NO DAMAGE, CRACK AND LOOSENESS OF PARTS. | <input type="radio"/> | - |
| SHOCK | 490 m/s ² DIRECTIONS OF PULSE 11 ms AT 3 TIMES FOR 6 DIRECTIONS. | | | <input type="radio"/> | - |
| ENVIRONMENTAL CHARACTERISTICS | | | | | |
| RAPID CHANGE OF TEMPERATURE | TEMPERATURE -40 → 5~35 → 105 → 5~35 °C TIME 30 → 2~3 → 30 → 2~3 min. UNDER 10 CYCLES. | | 1) CONTACT RESISTANCE: 70 mΩ MAX. 2) NO DAMAGE, CRACK AND LOOSENESS OF PARTS. | <input type="radio"/> | - |
| CORROSION SALT MIST | EXPOSED IN 5 % SALT WATER SPRAY FOR 48 h. | | 1) CONTACT RESISTANCE: 70 mΩ MAX. 2) NO HEAVY CORROSION. | <input type="radio"/> | - |
| | | | | | |
| | COUNT | DESCRIPTION OF REVISIONS | DESIGNED | CHECKED | DATE |
| | | | | | |
| REMARK | | | APPROVED | HO.MIWA | 05.12.16 |
| | | | CHECKED | YH.ENAMI | 05.12.16 |
| | | | DESIGNED | TU.TANIGUCHI | 05.12.16 |
| | | | DRAWN | MT.ITANO | 05.12.15 |
| Unless otherwise specified, refer to JIS C 5402. | | | | | |
| Note QT:Qualification Test AT:Assurance Test X:Applicable Test | | | DRAWING NO. | ELC4-120440-01 | |
| | SPECIFICATION SHEET | | PART NO. | FI40B-20S (50) | |
| | HIROSE ELECTRIC CO., LTD. | | CODE NO. | CL230-0518-7-50 | 1/1 |