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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 | -35°C TO 85°C(NOTE 1) | STORAGE TEMPERATURE RANGE | -10°C TO 60°C |
| | VOLTAGE | 50V AC/DC | APPLICABLE CONNECTOR | BM22-6S-V(**) |
| | CURRENT | SIGNAL CONTACT : 0.3A<br>POWER CONTACT : 4.0A | | |

# SPECIFICATIONS

| ITEM | TEST METHOD | REQUIREMENTS | QT | AT |
|---|---|---|---|---|
| **CONSTRUCTION** | | | | |
| GENERAL EXAMINATION | VISUALLY AND BY MEASURING INSTRUMENT. | ACCORDING TO DRAWING. | X | X |
| MARKING | CONFIRMED VISUALLY. | | X | X |
| **ELECTRIC CHARACTERISTICS** | | | | |
| CONTACT RESISTANCE | 20mV AC OR LESS 1kHz,1m A . | Signal contact resistance: 50 mΩMAX.<br>Power contact resistance: 30 mΩMAX. | X | — |
| INSULATION RESISTANCE | 100V DC. | 100MΩ MIN. | X | — |
| VOLTAGE PROOF | 150V AC FOR 1 min. | NO FLASHOVER OR BREAKDOWN. | X | — |
| **MECHANICAL CHARACTERISTICS** | | | | |
| MECHANICAL OPERATION | 10TIMES INSERTIONS AND EXTRACTIONS. | ① Signal contact resistance: 50 mΩMAX.<br>Power contact resistance: 30 mΩMAX.<br>② NO DAMAGE, CRACK OR LOOSENESS OF PARTS. | X | — |
| VIBRATION | FREQUENCY 10 TO 55 TO 10 Hz,APPROX 5min, SINGLE AMPLITUDE 0.75 mm,10CYCLES, FOR 3 DIRECTIONS. | ① NO ELECTRICAL DISCONTINUITY OF 1 μs.<br>② NO DAMAGE, CRACK OR LOOSENESS OF PARTS. | X | — |
| SHOCK | 490 $m/s^2$ DURATION OF PULSE 11 ms AT 3 TIMES FOR 3 DIRECTIONS. | ① NO ELECTRICAL DISCONTINUITY OF 1 μs.<br>② NO DAMAGE, CRACK OR LOOSENESS OF PARTS. | X | — |
| **ENVIRONMENTAL CHARACTERISTICS** | | | | |
| RAPID CHANGE OF TEMPERATURE | TEMPERATURE -55 → +85℃<br>TIME 30 → 30 min<br>UNDER 5 CYCLES.<br>(RELOCATION TIME TO CHANBER : WITHIN 2-3 min) | ① Signal contact resistance: 50 mΩMAX.<br>Power contact resistance: 30 mΩMAX.<br>② INSULATION RESISTANCE: 100MΩ MIN.<br>③ NO DAMAGE, CRACK OR LOOSENESS OF PARTS. | X | — |
| DAMP HEAT (STEADY STATE) | EXPOSED AT 40 ± 2 °C, 90 TO 95 %, 96 h. | ① Signal contact resistance: 50 mΩMAX.<br>Power contact resistance: 30 mΩMAX.<br>② INSULATION RESISTANCE: 50MΩ MIN.<br>③ NO DAMAGE, CRACK OR LOOSENESS OF PARTS. | X | — |
| SULPHUR DIIOXIDE | EXPOSED IN 25 PPM FOR 96h,25℃,75%.<br>(REFER TO JIS C 60068) | ① Signal contact resistance: 50 mΩMAX.<br>Power contact resistance: 30 mΩMAX.<br>② NO EVIDENCE OF CORROSION WHICH AFFECTS TO OPERATION OF CONNECTOR. | X | — |
| | | | | |

| | COUNT | DESCRIPTION OF REVISIONS | DESIGNED | CHECKED | DATE |
|---|---|---|---|---|---|
| 0 | | | | | |

REMARKS
NOTE1: INCLUDE THE TEMPERATURE RISING BY CURRENT

Unless otherwise specified, refer to JIS C 5402 and IEC 60512.

| | | |
|---|---|---|
| APPROVED | KH. IKEDA | 14.01.10 |
| CHECKED | TS.MIYAZAKI | 14.01.10 |
| DESIGNED | YK.SATAKE | 14.01.10 |
| DRAWN | YK.SATAKE | 14.01.10 |

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

DRAWING NO. ELC4-356262-01

| | | | | |
|---|---|---|---|---|
| HRS | SPECIFICATION SHEET | PART NO. | BM22L-6P-V(51) | |
| | HIROSE ELECTRIC CO., LTD. | CODE NO. | CL677-1007-0-51 | 0 1/1 |

FORM HD0011-2-1