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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 | -40°C TO 85°C(NOTE 1) | | STORAGE TEMPERATURE RANGE | -10°C TO 60°C | | |
| | VOLTAGE | 30V AC/DC | | APPLICABLE CONNECTOR | BM24-10DP/2-0.35V(51) | | |
| | CURRENT | SIGNAL CONTACT: 0.25A POWER CONTACT: 5.0A(NOTE 2) | | | | | |
| 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: 100 mΩ MAX. Power contact resistance: 15 mΩ MAX. | | 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: 100 mΩ MAX. Power contact resistance: 15 mΩ MAX. 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. 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. ② NO DAMAGE, CRACK OR LOOSENESS OF PARTS. | | X | - |
| ENVIRONMENTAL CHARACTERISTICS | | | | | | | |
| RAPID CHANGE OF TEMPERATURE | | TEMPERATURE -55 → +85°C TIME 30 → 30 min UNDER 5 CYCLES. (RELOCATION TIME TO CHANBER : WITHIN 2-3 min) | | ① Signal contact resistance: 100 mΩ MAX. Power contact resistance: 15 mΩ MAX. ② INSULATION RESISTANCE: 100MΩ MIN. 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: 100 mΩ MAX. Power contact resistance: 15 mΩ MAX. ② INSULATION RESISTANCE: 50MΩ MIN. ③ NO DAMAGE, CRACK OR LOOSENESS OF PARTS. | | X | - |
| SULPHUR DIOXIDE | | EXPOSED IN 25 PPM FOR 96h,25°C,75%. (REFER TO JIS C 60068) | | ① Signal contact resistance: 100 mΩ MAX. Power contact resistance: 15 mΩ MAX. ② NO EVIDENCE OF CORROSION WHICH AFFECTS TO OPERATION OF CONNECTOR. | | X | - |
| | | | | | | | |
| | COUNT | DESCRIPTION OF REVISIONS | | DESIGNED | | CHECKED | |
| △ | | | | | | | |
| REMARKS | | | | APPROVED | MO. ISHIDA | 15.12.14 | |
| NOTE1: INCLUDE THE TEMPERATURE RISING BY CURRENT | | | | CHECKED | TS. MIYAZAKI | 15.12.14 | |
| NOTE2: RATED CURRENT FOR POWER CONTACTS IS 4A/PIN IN CASE MAX 0.3A/PIN IS APPLIED TO SIGNAL CONTACTS. | | | | DESIGNED | NY. YAMASHIRO | 15.12.14 | |
| Unless otherwise specified, refer to JIS C 5402 and IEC 60512. | | | | DRAWN | KR. AJITO | 15.12.11 | |
| Note QT:Qualification Test AT:Assurance Test X:Applicable Test | | | | DRAWING NO. | | ELC-352540-53-01 | |
| HRS | SPECIFICATION SHEET | | | PART NO. | BM24-10DS/2-0.35V(53) | | |
| | HIROSE ELECTRIC CO., LTD. | | | CODE NO. | CL677-2002-1-53 | △ | 1/1 |