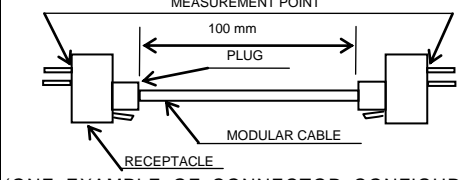


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In case of consideration for using Automotive equipment / device which demand high reliability, kindly contact our sales window correspondents.

| APPLICABLE STANDARD | | | | | |
|---|--|---------------------------|---|---------------------------|-----------------|
| RATING | OPERATING TEMPERATURE RANGE | -55°C TO 85°C \triangle | STORAGE TEMPERATURE RANGE | -25°C TO 60°C \triangle | |
| | VOLTAGE | 125 V AC | CURRENT | 0.5 A | |
| 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 | 100 mA MAX (DC OR 1000 Hz).  (ONE EXAMPLE OF CONNECTOR CONFIGURATION IS SHOWN.) | | 230 mΩ MAX. | X | X |
| INSULATION RESISTANCE | 100 V DC. | | 100 MΩ MIN. | X | X |
| VOLTAGE PROOF | 500 V AC FOR 1 min. | | NO FLASHOVER OR BREAKDOWN. | X | X |
| MECHANICAL CHARACTERISTICS | | | | | |
| MECHANICAL OPERATION | 200 TIMES INSERTIONS AND EXTRACTIONS. | | 1) CONTACT RESISTANCE: 250 mΩ MAX. 2) NO DAMAGE, CRACK AND LOOSENESS OF PARTS. | X | - |
| VIBRATION | FREQUENCY 10 TO 55 Hz SINGLE AMPLITUDE 0.75 mm, - m/s ² AT 2 HOURS FOR 3 DIRECTIONS. | | 1) NO ELECTRICAL DISCONTINUITY OF 5μs. 2) CONTACT RESISTANCE: 250 mΩ MAX. 3) NO DAMAGE, CRACK AND LOOSENESS OF PARTS. | X | - |
| SHOCK | 490 m/s ² DURATION OF PULSE 11 ms AT 3 TIMES FOR 3 DIRECTIONS. | | | X | - |
| ENVIRONMENTAL CHARACTERISTICS | | | | | |
| DAMP HEAT (STEADY STATE) | EXPOSED AT +40°C, 90~95 %, 500 h | | 1) CONTACT RESISTANCE: 250 mΩ MAX. 2) INSULATION RESISTANCE: 1 MΩ MIN. (AT HIGH HUMIDITY) 10 MΩ MIN. (AT DRY) 3) NO DAMAGE, CRACK AND LOOSENESS OF PARTS. | X | - |
| RAPID CHANGE OF TEMPERATURE | TEMPERATURE -55±3→5~35→85±2→5~35 °C TIME 30~35 → 5MAX→ 30~35 → 5MAX min UNDER 5 CYCLES. | | 1) CONTACT RESISTANCE: 250 mΩ MAX. 2) INSULATION RESISTANCE: 100 MΩ MIN. 3) NO DAMAGE, CRACK AND LOOSENESS OF PARTS. | X | - |
| CORROSION SALT MIST | EXPOSED IN 5 % SALT WATER SPRAY FOR 48 h. | | 1) CONTACT RESISTANCE: 250 mΩ MAX. 2) NO HEAVY CORROSION. | X | - |
| RESISTANCE TO SOLDERING HEAT | SOLDER TEMPERATURE, 260 ± 5 °C FOR IMMERSION, DURATION 10 ± 1 S. (FLOW) | | NO DEFORMATION OF CASE AND EXCESSIVE LOOSENESS OF THE TERMINALS. | X | - |
| SOLDERABILITY | SOLDERED AT SOLDER TEMPERATURE, 245 ± 2 °C FOR IMMERSION, DURATION 3 ± 1 S. | | MIN. 95 % OF SOLDER IMMERSED AREA SHALL BE COVERED NEW SOLDER COATING. | X | - |
| | | | | | |
| | COUNT | DESCRIPTION OF REVISIONS | DESIGNED | CHECKED | DATE |
| \triangle | 3 | DIS-E-00002716 | TS. ITO | TU. TANIGUCHI | 20191127 |
| REMARK | | | APPROVED | HO. MIWA | 20061031 |
| | | | CHECKED | HO. MIWA | 20061031 |
| | | | DESIGNED | TR. WATANABE | 20061030 |
| | | | DRAWN | TR. WATANABE | 20061030 |
| Unless otherwise specified, refer to IEC 60512. \triangle | | | | | |
| Note | QT:Qualification Test AT:Assurance Test X:Applicable Test | | DRAWING NO. | ELC-023509-50-01 | |
| HRS | SPECIFICATION SHEET | | PART NO. | TM5RJ1-88 (50) | |
| | HIROSE ELECTRIC CO., LTD. | | CODE NO. | CL222-1169-0-50 | \triangle 1/1 |