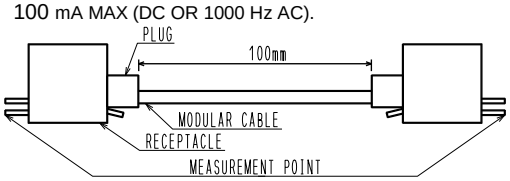
| APPLICABLE STANDARD | | | | |
|---|---|---|---|---|
| RATING | OPERATING TEMPERATURE RANGE | 1 -55 °C TO +85 °C △3 | STORAGE TEMPERATURE RANGE | -25 °C TO +60 °C |
| | VOLTAGE | 125 V AC | OPERATING HUMIDITY RANGE | 95 % MAX |
| | CURRENT | 500 mA | APPLICABLE CABLE | — |

# 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 AC).<br>  <br><br>(AN 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.<br>② NO DAMAGE, CRACK AND LOOSENESS OF PARTS. | X | — |
| VIBRATION | FREQUENCY 10 TO 55 Hz<br>SINGLE AMPLITUDE 0.75 mm,<br>AT 10 CYCLES. | ① NO ELECTRICAL DISCONTINUITY OF 5 μs.<br>② CONTACT RESISTANCE: 250 mΩ MAX.<br>③ NO DAMAGE, CRACK AND LOOSENESS OF PARTS. | X | — |
| SHOCK | 490 m/s$^2$ DURATION OF PULSE 11 ms<br>AT 3 TIMES FOR 3 DIRECTIONS. | | X | — |
| **ENVIRONMENTAL CHARACTERISTICS** | | | | |
| DAMP HEAT,CYCLIC | EXPOSED AT +60 °C, 90 TO 95 % , 500 h | ① CONTACT RESISTANCE: 250 mΩ MAX.<br>② INSULATION RESISTANCE:<br>1 MΩ MIN. (AT HIGH HUMIDITY)<br>10 MΩ MIN. (AT DRY)<br>③ NO DAMAGE, CRACK AND LOOSENESS OF PARTS. | X | — |
| RAPID CHANGE OF TEMPERATURE | TEMPERATURE<br>-55±3 → 5 TO 35 → 85±2 → 5 TO 35 TIME<br>30 → 5 MAX → 30 → 5 MAX MIN<br>UNDER 5 CYCLES. | ① CONTACT RESISTANCE: 250 mΩ MAX.<br>② INSULATION RESISTANCE: 100 MΩ MIN.<br>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.<br>② NO HEAVY CORROSION. | X | — |
| RESISTANCE TO SOLDERING HEAT | SOLDER TEMPERATURE, 260 ± 5 ℃ FOR IMMERSION, DURATION 10 ± 1 S. | NO DEFORMATION OF CASE AND EXCESSIVE LOOSENESS OF THE TERMINALS. | X | — |
| SOLDERABILITY | SOLDERED AT SOLDER TEMPERATURE, 245 ± 2 ℃ 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 |
|---|---|---|---|---|---|
| △3 | 2 | DIS-E-00002716 | TS. ITO | TU. TANIGUCHI | 20191127 |

REMARK

1 ①THE PRODUCT PERFORMANCE IS GUARANTEED ONLY IN THE TEMPERTUURE ADEQUATE TO PEOPLE'S ACTIVITIES.

②THE OPERATION TEMPERATURE INCLUDES THE RYSE BY CURRENT CARRYING.

Unless otherwise specified, refer to IEC 60512. △3

| | | |
|---|---|---|
| APPROVED | HO. MIWA | 20050105 |
| CHECKED | TH. KAMEYA | 20050105 |
| DESIGNED | SS. SATOH | 20050105 |
| DRAWN | SS. SATOH | 20050105 |

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

DRAWING NO. ELC-022667-50-01

| | | | | |
|---|---|---|---|---|
| HRS | SPECIFICATION SHEET | PART NO. | TM3RA-88(50) | |
| | HIROSE ELECTRIC CO., LTD. | CODE NO. | CL222-1012-9-50 △3 | 1/1 |

FORM HD0011-2-1