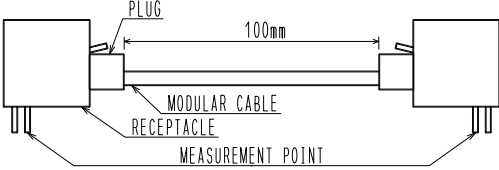


| APPLICABLE STANDARD                                                                                                                                                                   |                             |                                                                                                                                                                          |                                                                                                                                                                      |                        |          |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------|----------|
| RATING                                                                                                                                                                                | OPERATING TEMPERATURE RANGE | NOTE1 -55 °C TO +85 °C                                                                                                                                                   | STORAGE TEMPERATURE RANGE                                                                                                                                            | NOTE2 -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>(AN EXAMPLE OF CONNECTOR CONFIGURATION IS SHOWN.) | 200 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 : 220 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 2 HOURS FOR 3 DIRECTIONS.                                                                                       | ① NO ELECTRICAL DISCONTINUITY OF 5 μs.<br>② CONTACT RESISTANCE : 220 mΩ MAX.<br>③ NO DAMAGE, CRACK AND LOOSENESS OF PARTS.                                           | X                      | —        |
| SHOCK                                                                                                                                                                                 |                             | 490 m/s <sup>2</sup> DURATION OF PULSE 11 ms<br>AT 3 TIMES FOR 3 DIRECTIONS.                                                                                             |                                                                                                                                                                      | X                      | —        |
| ENVIRONMENTAL CHARACTERISTICS                                                                                                                                                         |                             |                                                                                                                                                                          |                                                                                                                                                                      |                        |          |
| DAMP HEAT (STEADY STATE)                                                                                                                                                              |                             | EXPOSED AT +40 °C, 90 TO 95 % , 500 h                                                                                                                                    | ① CONTACT RESISTANCE : 220 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 °C<br>TIME<br>30 TO 35 → 5 MAX → 30 TO 35 → 5 MAX min<br>UNDER 5 CYCLES.                                                 | ① CONTACT RESISTANCE : 220 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 : 220 mΩ MAX.<br>② NO HEAVY CORROSION.                                                                                                          | X                      | —        |
| RESISTANCE TO SOLDERING HEAT                                                                                                                                                          |                             | SOLDER TEMPERATURE, 260 ± 5 °C FOR IMMERSION, DURATION 10 ± 1 S.                                                                                                         | 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                      | —        |
| NOTE1 THE OPERATION TEMPERATURE INCLUDES THE RYSE BY CURRENT CARRYING.                                                                                                                |                             |                                                                                                                                                                          |                                                                                                                                                                      |                        |          |
| NOTE2 STORAGE TEMPERATURE RANGE SHOWS STORAGE CONDITION FOR UNUSED PRODUCTS INCLUDING PACKING MATERIALS. FOLLOW THE OPERATING TEMPERATURE RANGE FOR STORAGE CONDITION AFTER MOUNTING. |                             |                                                                                                                                                                          |                                                                                                                                                                      |                        |          |
|                                                                                                                                                                                       | COUNT                       | DESCRIPTION OF REVISIONS                                                                                                                                                 | DESIGNED                                                                                                                                                             | CHECKED                | DATE     |
| △                                                                                                                                                                                     |                             |                                                                                                                                                                          |                                                                                                                                                                      |                        |          |
| REMARK                                                                                                                                                                                |                             |                                                                                                                                                                          | APPROVED                                                                                                                                                             | MN. KENJO              | 20211126 |
|                                                                                                                                                                                       |                             |                                                                                                                                                                          | CHECKED                                                                                                                                                              | KG. OKITA              | 20211125 |
|                                                                                                                                                                                       |                             |                                                                                                                                                                          | DESIGNED                                                                                                                                                             | MO. SHIMOYAMA          | 20211125 |
|                                                                                                                                                                                       |                             |                                                                                                                                                                          | DRAWN                                                                                                                                                                | NK. OOSHIMA            | 20211124 |
| Unless otherwise specified, refer to IEC 60512.                                                                                                                                       |                             |                                                                                                                                                                          |                                                                                                                                                                      |                        |          |
| Note QT:Qualification Test AT:Assurance Test X:Applicable Test                                                                                                                        |                             |                                                                                                                                                                          | DRAWING NO.                                                                                                                                                          | ELC-022419-60-00       |          |
| <b>HRS</b>                                                                                                                                                                            | SPECIFICATION SHEET         |                                                                                                                                                                          | PART NO.                                                                                                                                                             | TM2RE-1212 (60)        |          |
|                                                                                                                                                                                       | HIROSE ELECTRIC CO., LTD.   |                                                                                                                                                                          | CODE NO.                                                                                                                                                             | CL0222-0757-3-60       | △ 1/1    |