

|   |       |                          |    |      |      |   |       |                          |    |      |      |
|---|-------|--------------------------|----|------|------|---|-------|--------------------------|----|------|------|
| △ | COUNT | DESCRIPTION OF REVISIONS | BY | CHKD | DATE | △ | COUNT | DESCRIPTION OF REVISIONS | BY | CHKD | DATE |
| △ |       |                          |    |      |      | △ |       |                          |    |      |      |

|                     |                             |                 |                 |  |         |                           |              |  |  |  |  |
|---------------------|-----------------------------|-----------------|-----------------|--|---------|---------------------------|--------------|--|--|--|--|
| APPLICABLE STANDARD |                             |                 |                 |  |         |                           |              |  |  |  |  |
| RATING              | OPERATING TEMPERATURE RANGE | -25 °C TO 60 °C |                 |  |         | STORAGE TEMPERATURE RANGE | — °C TO — °C |  |  |  |  |
|                     | VOLTAGE                     | 125 V AC (TM)   | 10.5 V DC (PWJ) |  | CURRENT | 0.5 A DC (TM)             | 2 A DC (PWJ) |  |  |  |  |

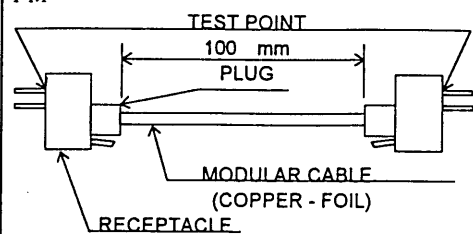
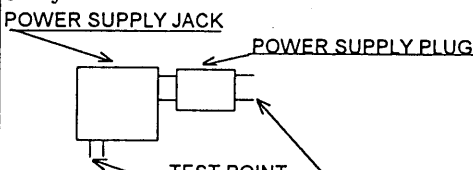
### SPECIFICATIONS

| ITEM | TEST METHOD | REQUIREMENTS | QT | AT |
|------|-------------|--------------|----|----|
|------|-------------|--------------|----|----|

#### CONSTRUCTION

|                     |                                       |                       |   |   |
|---------------------|---------------------------------------|-----------------------|---|---|
| GENERAL EXAMINATION | VISUALLY AND BY MEASURING INSTRUMENT. | ACCORDING TO DRAWING. | ○ | ○ |
| MARKING             | CONFIRMED VISUALLY.                   |                       | ○ | ○ |

#### ELECTRIC CHARACTERISTICS

|                       |   |                            |   |   |
|-----------------------|---|----------------------------|---|---|
| CONTACT RESISTANCE    | 100 mA DC (OR 1000 Hz AC).<br>MEASUREMENT POINTS SHALL BE AS FOLLOWS.<br>T M<br><br>(ONE EXAMPLE OF CONNECTOR CONFIGURATION IS SHOWN.) | 200 mΩ MAX.                | ○ | — |
|                       | 100 mA DC (OR 1000 Hz AC).<br>MEASUREMENT POINTS SHALL BE AS FOLLOWS.<br>P W J<br>POWER SUPPLY JACK<br>                              | 3 0 mΩ MAX.                | ○ | — |
| INSULATION RESISTANCE | 100 V DC.   | 100 MΩ MIN.                | ○ | — |
| VOLTAGE PROOF         | 500 V AC FOR 1 min.   | NO FLASHOVER OR BREAKDOWN. | ○ | ○ |

#### MECHANICAL CHARACTERISTICS

|   |   |   |   |   |
|---|---|---|---|---|
| MECHANICAL OPERATION                                  | T M<br>200 TIMES INSERTIONS AND EXTRACTIONS.  | ① CONTACT RESISTANCE: 220 mΩ MAX.<br>② NO DAMAGE, CRACK AND LOOSENESS, OF PARTS.  | ○ | — |
|   | P W J<br>200 TIMES INSERTIONS AND EXTRACTIONS.<br>(EIAJ RC - 5320-8)                            | ① CONTACT RESISTANCE: 100 mΩ MAX.<br>② NO DAMAGE, CRACK AND LOOSENESS, OF PARTS.  | ○ | — |
| VIBRATION   | FREQUENCY 10 TO 55 Hz, SINGLE AMPLITUDE<br>1.5 mm, — m/s <sup>2</sup> AT 2 h, FOR 3 DIRECTIONS. | ① NO ELECTRICAL DISCONTINUITY OF — μs.<br>② CONTACT RESISTANCE: — mΩ MAX.         | ○ | — |
| SHOCK   | 490 m/s <sup>2</sup> DIRECTIONS OF PULSE 11 ms AT 3 TIME FOR 3 DIRECTION.                       | ③ NO DAMAGE, CRACK AND LOOSENESS, OF PARTS.                                       | ○ | — |
| CONTACT INSERTION AND EXTRACTION FORCES (PWJ CONTACT) | OUTER DIAMETER : 4.8±0.06<br>INNER DIAMETER : 1.75±0.06<br>(EIAJ RC - 5320-8)                   | INSERTION FORCE<br>5 N MIN TO 20 N MAX<br>EXTRACTION FORCE<br>4 N MIN TO 15 N MAX | ○ | — |

REMARKS

8/16/04  
Unless otherwise specified, refer to JIS C 5402.

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

|                                      |                                    |                                     |
|--------------------------------------|------------------------------------|-------------------------------------|
| <b>HRS</b> HIROSE ELECTRIC CO., LTD. | SPECIFICATION SHEET                | PART NO.<br><b>TM5RT1 - 1204PWJ</b> |
| CODE NO.(OLD)<br>CL                  | DRAWING NO.<br><b>ELC4 - 43183</b> | CODE NO.<br><b>222-3539-9</b>       |
|                                      |                                    | 1/2                                 |



# SPECIFICATIONS

| ITEM                                 | TEST METHOD  | REQUIREMENTS   | QT | AT |
|--------------------------------------|--|--|----|----|
| <b>ENVIRONMENTAL CHARACTERISTICS</b> |  |  |    |    |
| DAMP HEAT (STEADY STATE)             | EXPOSED AT 60 °C, 90 TO 95 %, 500 h.   | ① CONTACT RESISTANCE: $\leq 10 \text{ m}\Omega$ MAX.<br>② INSULATION RESISTANCE: 1 M $\Omega$ MIN. (AT HIGH HUMIDITY)<br>③ INSULATION RESISTANCE: 10 M $\Omega$ MIN. (AT DRY)<br>④ NO DAMAGE, CRACK AND LOOSENESS, OF PARTS. | ○  | —  |
| RAPID CHANGE OF TEMPERATURE          | TEMPERATURE -55 $\pm$ 3 $\rightarrow$ 5 TO 35 $\rightarrow$ 85 $\pm$ 2 $\rightarrow$ 5 TO 35°C<br>TIME 30 TO 35 $\rightarrow$ 5 MAX $\rightarrow$ 30 TO 35 $\rightarrow$ 5 MAX min UNDER 5 CYCLES. | ① CONTACT RESISTANCE: $\leq 10 \text{ m}\Omega$ MAX.<br>② INSULATION RESISTANCE: $\geq 1 \text{ M}\Omega$ MIN.<br>③ NO DAMAGE, CRACK AND LOOSENESS, OF PARTS.  | ○  | —  |
| CORROSION SALT MIST                  | EXPOSED IN 5 % SALT WATER SPRAY FOR 48 h.  | ① CONTACT RESISTANCE: $\leq 10 \text{ m}\Omega$ MAX.<br>② NO DAMAGE, CRACK AND LOOSENESS, OF PARTS.  | ○  | —  |
| RESISTANCE TO SOLDERING HEAT         | SOLDER TEMPERATURE, 260 $\pm$ 5 °C FOR IMMERSION, DURATION, 5 $\pm$ 1 s. (WHEN USING FLOW SOLDER)  | NO DEFORMATION OF CASE AND EXCESSIVE LOOSENESS OF THE TERMINALS.   | ○  | —  |
| DIP CONDITION                        | PRE-HEAT SOLDER TEMPERATURE: 90°C ~ 130°C<br>IMMERSION TIME 3 $\pm$ 0.5 sec.<br>SOLDER TEMPERATURE: 230°C $\pm$ 5°C (WHEN USING FLOW SOLDER)   | NO DEFORMATION IN APPEARANCE OR SOLDERLESS ON CONTACT SURFACE ETC.   | ○  | —  |
| REMARKS                              |  |  |    |    |

REMARKS

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8/16/04 (長)

Unless otherwise specified, refer to JIS C 5402.

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

|                                      |                                    |                                     |
|--------------------------------------|------------------------------------|-------------------------------------|
| <b>HRS</b> HIROSE ELECTRIC CO., LTD. | SPECIFICATION SHEET                | PART NO.<br><b>TM5RT1 - 1204PWJ</b> |
| CODE NO.(OLD)<br>CL                  | DRAWING NO.<br><b>ELC4 - 43183</b> | CODE NO.<br><b>222-3539-9</b>       |
|                                      |                                    | 2/2                                 |



