

| COUNT  | DESCRIPTION OF REVISIONS    | BY  | CHKD | DATE | COUNT   | DESCRIPTION OF REVISIONS | BY       | CHKD               | DATE     |
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| △  |                             |   |      |      | △   |                          |          |                    |          |
| <b>APPLICABLE STANDARD</b>                                     |                             |   |      |      |   |                          |          |                    |          |
| RATING   | OPERATING TEMPERATURE RANGE | -25 °C TO +85 °C  |      |      | STORAGE TEMPERATURE RANGE   | -10 °C TO +60 °C         |          |                    |          |
|  | VOLTAGE                     | AC 250 V , DC 350 V   |      |      |   |                          |          |                    |          |
|  | CURRENT                     | 5 A   |      |      | APPLICABLE CABLE  |                          |          |                    |          |
| <b>SPECIFICATIONS</b>  |                             |   |      |      |   |                          |          |                    |          |
| ITEM   |                             | TEST METHOD   |      |      | REQUIREMENTS  |                          |          | QT                 | AT       |
| <b>CONSTRUCTION</b>  |                             |   |      |      |   |                          |          |                    |          |
| GENERAL EXAMINATION  |                             | VISUALLY AND BY MEASURING INSTRUMENT.   |      |      | ACCORDING TO DRAWING.   |                          |          | ○                  | ○        |
| MARKING  |                             | CONFIRMED VISUALLY.   |      |      |   |                          |          | ○                  | ○        |
| <b>ELECTRIC CHARACTERISTICS</b>                                |                             |   |      |      |   |                          |          |                    |          |
| CONTACT RESISTANCE   |                             | CONTACT SHALL BE MEASURED AT DC 1 A   |      |      | 5 mΩ MAX.   |                          |          | ○                  | ○        |
|  |                             | CONTACT SHALL BE MEASURED AT DC — A   |      |      | — mΩ MAX.   |                          |          | —                  | —        |
| INSULATION RESISTANCE  |                             | 500 V DC.   |      |      | 1000 MΩ MIN.  |                          |          | ○                  | ○        |
| VOLTAGE PROOF  |                             | 1000 V AC FOR 1 min.  |      |      | NO FLASHOVER OR BREAKDOWN.  |                          |          | ○                  | ○        |
| <b>MECHANICAL CHARACTERISTICS</b>                              |                             |   |      |      |   |                          |          |                    |          |
| CONTACT INSERTION AND WITHDRAWAL FORCES                        |                             | — BY STEEL GAUGE.   |      |      | INSERTION AND WITHDRAWAL FORCES : — N.  |                          |          | —                  | —        |
| CONNECTOR INSERTION AND WITHDRAWAL FORCES                      |                             | MEASURED BY APPLICABLE CONNECTOR.   |      |      | INSERTION AND WITHDRAWAL FORCES<br>LOCKING DEVICE WITH UNLOOK : 16.7 N MAX.<br>LOCKING DEVICE WITH LOOK : — N MAX.                                    |                          |          | ○                  | —        |
| MECHANICAL OPERATION   |                             | 500 TIMES INSERTIONS AND EXTRACTIONS.   |      |      | CONTACT RESISTANCE: 5 mΩ MAX.   |                          |          | ○                  | —        |
|  |                             |   |      |      | — RESISTANCE: — mΩ MAX.   |                          |          | —                  | —        |
| VIBRATION  |                             | FREQUENCY 10 TO 55 Hz, AMPLITUDE 0.75 mm,<br>— m/s <sup>2</sup> AT 2 h, FOR 3 DIRECTIONS.                         |      |      | ① NO ELECTRICAL DISCONTINUITY OF 10 μs.<br>② NO DAMAGE, CRACK AND LOOSENESS, OF PARTS.  |                          |          | ○                  | —        |
| SHOCK  |                             | 490 m/s <sup>2</sup> DIRECTIONS OF PULSE 11 ms AT 3 TIMES<br>FOR 6 DIRECTIONS.                                    |      |      | ① NO ELECTRICAL DISCONTINUITY OF 10 μs.<br>② NO DAMAGE, CRACK AND LOOSENESS, OF PARTS.  |                          |          | ○                  | —        |
| <b>ENVIRONMENTAL CHARACTERISTICS</b>                           |                             |   |      |      |   |                          |          |                    |          |
| DAMP HEAT (STEADY STATE)                                       |                             | EXPOSED AT 40 °C, 90 TO 95 %, 96 h.   |      |      | ① INSULATION RESISTANCE: 10 MΩ MIN (AT HIGH HUMIDITY).<br>② INSULATION RESISTANCE: 100 MΩ MIN (AT DRY).<br>③ NO DAMAGE, CRACK AND LOOSENESS OF PARTS. |                          |          | ○                  | —        |
| RAPID CHANGE OF TEMPERATURE                                    |                             | TEMPERATURE -40 → R/T <sup>(1)</sup> → +100 → R/T °C<br>TIME 30 → 10 TO 15 → 30 → 10 TO 15 min<br>UNDER 5 CYCLES. |      |      | ① INSULATION RESISTANCE: 100 MΩ MIN.<br>② NO DAMAGE, CRACK AND LOOSENESS OF PARTS.  |                          |          | ○                  | —        |
| CORROSION SALT MIST  |                             | EXPOSED IN 5 % SALT WATER SPRAY FOR 48 h.   |      |      | NO HEAVY CORROSION.   |                          |          | ○                  | —        |
| DRY HEAT   |                             | EXPOSED AT + 100 °C , 96 h.   |      |      | NO DAMAGE, CRACK AND LOOSENESS OF PARTS.  |                          |          | ○                  | —        |
| COLD   |                             | EXPOSED AT - 40 °C , 96 h.  |      |      | NO DAMAGE, CRACK AND LOOSENESS OF PARTS.  |                          |          | ○                  | —        |
| RESISTANCE TO SOLDERING HEAT                                   |                             | SOLDER TEMPERATURE, + 350 ± 10 °C , FOR SOLDERING DURATION, 5 ± 1 s.  |      |      | NO DEFORMATION OF CASE OF EXCESSIVE LOOSENESS OF THE TERMINALS.   |                          |          | ○                  | —        |
| SOLDERABILITY  |                             | SOLDERED AT SOLDER TEMPERATURE, + 350 ± 10 °C FOR SOLDERING DURATION, 2 ~ 3 s.                                    |      |      | NO DEFECT AS PINHOLE, NON-WETTING AND DE-WETTING OF SOLDER EXIS OR NOT ON THE SURFACE SOLDERING.  |                          |          | ○                  | —        |
| SEALING  |                             | EXPOSED AT A DEPTH OF — m FOR — h.  |      |      | NO WATER PENETRATION INSIDE CONNECTOR.  |                          |          | —                  | —        |
| AIRTIGHTNESS   |                             | APPLY AIR PRESSURE — kPa FOR — s TO INSIDE CONNECTOR.   |      |      | NO AIR BUBBLES INSIDE CONNECTOR.  |                          |          | —                  | —        |
| <b>REMARKS</b>   |                             |   |      |      |   |                          |          |                    |          |
| NOTE (1) R/T : ROOM TEMPERATURE                                |                             |   |      |      | DRAWN   | DESIGNED                 | CHECKED  | APPROVED           | RELEASED |
|  |                             |   |      |      | H.YOKOMIZO  | H.Kishi                  | M. Satoh | M. Yoshida         |          |
|  |                             |   |      |      | 98.4.17   | 98.4.17                  | 98.4.20  | 98.4.21            |          |
| 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. JR13RK-5P |          |
| CODE NO. (OLD)   |                             | DRAWING NO.   |      |      | CODE NO.  |                          |          | 1                  |          |
| CL   |                             | ELC4-024144   |      |      | CL114-0518-0  |                          |          | 1                  |          |

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