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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 | -25 °C TO +85 °C | STORAGE TEMPERATURE RANGE | -10 °C TO +60 °C | |
| | VOLTAGE | AC 250 V , DC 350 V | | | |
| | CURRENT | 10 A | 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 | CONTACT SHALL BE MEASURED AT DC 1 A | | 5 mΩ MAX. | X | X |
| INSULATION RESISTANCE | 500 V DC. | | 1000 MΩ MIN. | X | X |
| VOLTAGE PROOF | 1000 V AC. FOR 1 min. | | NO FLASHOVER OR BREAKDOWN. | X | X |
| MECHANICAL CHARACTERISTICS | | | | | |
| CONTACT INSERTION AND WITHDRAWAL FORCES | _____ BY STEEL GAUGE. | | INSERTION AND WITHDRAWAL FORCES : - N MIN. | - | - |
| CONNECTOR INSERTION AND WITHDRAWAL FORCES | MEASURED BY APPLICABLE CONNECTOR. | | INSERTION AND WITHDRAWAL FORCES LOCKING DEVICE WITH UNLOCK : 14 N MAX. LOCKING DEVICE WITH LOCK : - N MAX. | X | - |
| MECHANICAL OPERATION | 500 TIMES INSERTIONS AND EXTRACTIONS. | | CONTACT RESISTANCE: 5 mΩ MAX. | X | - |
| VIBRATION | FREQUENCY: 10 TO 55 Hz, SINGLE AMPLITUDE 0.75 mm, _____ m/s ² AT 2h, FOR 3 DIRECTIONS. | | ① NO ELECTRICAL DISCONTINUITY OF 10 μs. ② NO DAMAGE, CRACK AND LOOSENESS, OF PARTS. | X | - |
| SHOCK | 490 m/s ² DIRECTIONS OF PULSE 11 ms AT 3 TIMES FOR 6 DIRECTIONS. | | ① NO ELECTRICAL DISCONTINUITY OF 10 μs. ② NO DAMAGE, CRACK AND LOOSENESS, OF PARTS. | X | - |
| ENVIRONMENTAL CHARACTERISTICS | | | | | |
| DAMP HEAT (STEADY STATE) | EXPOSED AT 40 °C, 90 TO 95 %, 96 h. | | ① INSULATION RESISTANCE: 10 MΩ MIN (AT HIGH HUMIDITY). ② INSULATION RESISTANCE: 100 MΩ MIN (AT DRY). ③ NO DAMAGE, CRACK AND LOOSENESS OF PARTS. | X | - |
| RAPID CHANGE OF TEMPERATURE | TEMPERATURE -40 → R/T ⁽¹⁾ → +100 → R/T °C TIME 30 → 10 TO 15 → 30 → 10 TO 15 min UNDER 5 CYCLES. | | ① INSULATION RESISTANCE: 1000 MΩ MIN. ② NO DAMAGE, CRACK AND LOOSENESS OF PARTS. | X | - |
| CORROSION SALT MIST | EXPOSED IN 5 % SALT WATER SPRAY FOR 500 h. | | NO HEAVY CORROSION RUIN THE FUNCTION. | X | - |
| DRY HEAT | EXPOSED AT + 100 °C, 96 h. | | NO DAMAGE, CRACK AND LOOSENESS OF PARTS. | X | - |
| COLD | EXPOSED AT - 40 °C, 96 h. | | NO DAMAGE, CRACK AND LOOSENESS OF PARTS. | X | - |
| RESISTANCE TO SOLDERING HEAT | SOLDER TEMPERATURE, + 380±10°C, FOR SOLDERING DURATION, 3 ⁺¹ 0 s. | | NO DEFORMATION OF CASE OF EXCESSIVE LOOSENESS OF THE TERMINALS. | X | - |
| SOLDERABILITY | SOLDERED AT SOLDER TEMPERATURE, + 350±10°C FOR SOLDERING DURATION, 2 TO 3 s. | | WETTING ON SOLDER SURFACE, NO SOLDER CLUSTER. | X | - |
| SEALING ⁽²⁾ | EXPOSED AT A DEPTH OF 1.8 m FOR 48 h. | | NO WATER PENETRATION INSIDE CONNECTOR. | X | - |
| AIRTIGHTNESS ⁽²⁾ | APPLY AIR PRESSURE 18 kPa FOR 30 S TO INSIDE CONNECTOR. | | NO AIR BUBBLES INSIDE CONNECTOR. | X | - |
| | COUNT | DESCRIPTION OF REVISIONS | DESIGNED | CHECKED | DATE |
| | ① | | | | |
| REMARK | | | APPROVED | HY. KOBAYASHI | 18.02.26 |
| NOTES(1) R/T : ROOM TEMPERATURE | | | CHECKED | HY. KOBAYASHI | 18.02.26 |
| (2) SEALING AND AIRTIGHTNESS SHALL BE TESTED BY APPLICABLE CONNECTOR. | | | DESIGNED | TH. KAMEYA | 18.02.22 |
| Unless otherwise specified, refer to IEC 60512 (JIS C 5402). | | | DRAWN | MK. INOUE | 18.02.13 |
| Note QT:Qualification Test AT:Assurance Test X:Applicable Test | | | DRAWING NO. | ELC-110456-31-00 | |
| HRS | SPECIFICATION SHEET | | PART NO. | JR13WP-3P (31) | |
| | HIROSE ELECTRIC CO., LTD. | | CODE NO. | CL114-2001-5-31 | ① 1/1 |