| APPLICABLE STANDARD | | | | |
|---|---|---|---|---|
| RATING | OPERATING TEMPERATURE RANGE | -25 °C TO +85 °C | STORAGE TEMPERATURE RANGE | -10 °C TO +60 °C |
| | VOLTAGE | AC 300 V , DC 420 V | ———— | ———— |
| | CURRENT | 30 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. | 10000 MΩ MIN. | X | X |
| VOLTAGE PROOF | 3000 V AC. FOR 1 min. | NO FLASHOVER OR BREAKDOWN. | X | X |
| **MECHANICAL CHARACTERISTICS** | | | | |
| CONTACT INSERTION AND WITHDRAWAL FORCES | φ3.58 ±0.003 BY STEEL GAUGE. | INSERTION AND WITHDRAWAL FORCES : 3.3 N MIN. | X | — |
| CONNECTOR INSERTION AND WITHDRAWAL FORCES | MEASURED BY APPLICABLE CONNECTOR. | INSERTION AND WITHDRAWAL FORCES<br>LOCKING DEVICE WITH UNLOCK : 49 N MAX.<br>LOCKING DEVICE WITH LOCK : —— N MAX. | X | — |
| MECHANICAL OPERATION | 500 TIMES INSERTIONS AND EXTRACTIONS. | CONTACT RESISTANCE: 5 mΩ MAX. | X | — |
| VIBRATION | FREQUENCY: 10 → 55 → 10 (Hz) (1CYC,5min),<br>SINGLE AMPLITUDE 0.75 mm, AT 10 CYC, FOR 3 DIRECTIONS. | ①NO ELECTRICAL DISCONTINUITY OF 10 μs.<br>②NO DAMAGE, CRACK AND LOOSENESS, OF PARTS. | X | — |
| SHOCK | IN OPPOSITE DIRECTIONS OF EACH 3 DEMENSION AXIS FOR 3 TIMES AT 490 m/s² DURATIONS OF PULSE 11 ms. | ① NO ELECTRICAL DISCONTINUITY OF 10 μs.<br>② NO DAMAGE, CRACK AND LOOSENESS, OF PARTS. | X | — |
| **ENVIRONMENTAL CHARACTERISTICS** | | | | |
| DAMP HEAT (STEADY STATE) | EXPOSED AT 40 ℃, 90 TO 95 %, 96 h. | ① INSULATION RESISTANCE: 100 MΩ MIN (AT HIGH HUMIDITY).<br>② INSULATION RESISTANCE: 1000 MΩ MIN (AT DRY).<br>③ NO DAMAGE. CRACK AND LOOSENESS OF PARTS. | X | — |
| RAPID CHANGE OF TEMPERATURE | TEMPERATURE -40→ R/T(1) → +100 → R/T ℃<br>TIME 30 → 2 TO 3 → 30 → 2 TO 3 min UNDER 5 CYCLES. | ① INSULATION RESISTANCE: 10000 MΩ MIN.<br>② NO DAMAGE, CRACK AND LOOSENESS OF PARTS. | X | — |
| CORROSION SALT MIST | EXPOSED IN 5 % SALT WATER SPRAY FOR 500 h. | NO HEAVY CORROSIN RUIN THE FUNCTION. | X | — |
| DRY HEAT | EXPOSED AT + 100 ℃ , 96 h. | NO DAMAGE, CRACK AND LOOSENESS OF PARTS. | X | — |
| COLD | EXPOSED AT - 40 ℃ , 96 h. | NO DAMAGE, CRACK AND LOOSENESS OF PARTS. | X | — |
| RESISTANCE TO SOLDERING HEAT | SOLDERED AT SOLDERING IRON BIT TEMPERATURE +380± 10℃ FOR 3 TO 4 s. | NO DEFORMATION OF CASE OF EXCESSIVE LOOSENESS OF THE TERMINALS. | X | — |
| SOLDERABILITY | SOLDERED AT SOLDERING IRON BIT TEMPERATURE +350± 10℃ FOR 2 TO 3 s. | WETTING ON SOLDER SURFACE.<br>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 |
|---|---|---|---|---|---|
| A | | | | | |

REMARK

NOTES

(1) R/T : ROOM TEMPERATURE.

(2) SEALING AND AIRTIGHTNESS SHALL BE TESTED UNDER MATED CONDITION WITH AN APPLICABLE CONNECTOR.

Unless otherwise specified, refer to JIS C 5402.

| | | |
|---|---|---|
| APPROVED | EJ.KUNII | 13.01.30 |
| CHECKED | HY.KISHI | 13.01.30 |
| DESIGNED | HK.NAMAI | 13.01.30 |
| DRAWN | HK.NAMAI | 13.01.30 |

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

DRAWING NO. ELC4-118063-00

| | | | | |
|---|---|---|---|---|
| HRS | SPECIFICATION SHEET | PART NO. | JR25WPH-4S | |
| | HIROSE ELECTRIC CO., LTD. | CODE NO. | CL114-2183-4-00 | A 1/1 |

FORM HD0011-2-1