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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 150 V , DC 200 V | ———— | ———— |
| | CURRENT | 2 A | APPLICABLE CABLE | φ5±0.2 |

# 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 | 10 mΩ MAX. | X | — |
| INSULATION RESISTANCE | 100 V DC. | 1000 MΩ MIN. | X | X |
| VOLTAGE PROOF | 500 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<br>LOCKING DEVICE WITH UNLOCK : — N MAX.<br>LOCKING DEVICE WITH LOCK : 35 N MAX. | X | — |
| MECHANICAL OPERATION | 1000 TIMES INSERTIONS AND EXTRACTIONS. | CONTACT RESISTANCE: 15 mΩ MAX. | X | — |
| VIBRATION | FREQUENCY: 10 TO 55 Hz, SINGLE AMPLITUDE 0.75 mm,<br>— m/s2 AT 2h, FOR 3 DIRECTIONS. | ①NO ELECTRICAL DISCONTINUITY OF 10 μs.<br>②NO DAMAGE, CRACK AND LOOSENESS, OF PARTS. | X | — |
| SHOCK | 490 m/s² DIRECTIONS OF PULSE 11 ms AT 3 TIMES<br>FOR 3 DIRECTIONS. | ① NO ELECTRICAL DISCONTINUITY OF 10 μs.<br>② NO DAMAGE, CRACK AND LOOSENESS, OF PARTS. | X | — |
| CONTACT RETENTION FORCE | APPLYING A PULL THE WIRE AFTER THE APPLICABLE CRIMPED<br>CONTACT IS ASSEMBLE THE BODY. | 20 N MIN. | X | — |
| **ENVIRONMENTAL CHARACTERISTICS** | | | | |
| DAMP HEAT (STEADY STATE) | EXPOSED AT 40 ℃, 90 TO 95 %, 96 h. | ① INSULATION RESISTANCE: 5 MΩ MIN (AT HIGH HUMIDITY).<br>② INSULATION RESISTANCE: 50 MΩ MIN (AT DRY).<br>③ NO DAMAGE. CRACK AND LOOSENESS OF PARTS. | X | — |
| RAPID CHANGE OF TEMPERATURE | TEMPERATURE -55→ R/T(1) → +85 → R/T ℃<br>TIME 30 → 10 TO 15 → 30 → 10 TO 15 min<br>UNDER 5 CYCLES. | ① INSULATION RESISTANCE: 1000 MΩ MIN..<br>② NO DAMAGE. CRACK AND LOOSENESS OF PARTS. | X | — |
| CORROSION SALT MIST | EXPOSED IN 5 % SALT WATER SPRAY FOR 48 h. | NO HEAVY CORROSIN RUIN THE FUNCTION. | X | — |
| DRY HEAT | EXPOSED AT + 85 ℃, 96 h. | NO DAMAGE, CRACK AND LOOSENESS OF PARTS. | X | — |
| COLD | EXPOSED AT - 55 ℃, 96 h. | NO DAMAGE, CRACK AND LOOSENESS OF PARTS. | X | — |

| | COUNT | DESCRIPTION OF REVISIONS | DESIGNED | CHECKED | DATE |
|---|---|---|---|---|---|
| A | | | | | |

REMARK

(1) ABOVE SPECIFICATIONS SHOWS THE VALUES IN ASSEMBLED CONDITION WITH APPLICABLE CRIMP CONTACTS.

NOTE (1) R/T : ROOM TEMPERATURE

Unless otherwise specified, refer to JIS C 5402.

| | | |
|---|---|---|
| APPROVED | MO. SATOH | 07.03.08 |
| CHECKED | EJ. KUNII | 07.03.08 |
| DESIGNED | TO. HORII | 07.03.08 |
| DRAWN | MK. SATO | 07.03.08 |

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

DRAWING NO. ELC4-021659-73

| | | | | |
|---|---|---|---|---|
| HRS | SPECIFICATION SHEET | PART NO. | HR10A-7P-4PC(73) | |
| | HIROSE ELECTRIC CO., LTD. | CODE NO. | CL110-0501-1-73 A | 1/1 |

FORM HD0011-2-1