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| | COUNT | DESCRIPTION OF REVISIONS | BY | CHKD | DATE | | COUNT | DESCRIPTION OF REVISIONS | BY | CHKD | DATE |
| △ | | | | | | △ | | | | | |
| △ | | | | | | △ | | | | | |
| APPLICABLE STANDARD | | | | | | | | | | | |
| RATING | OPERATING TEMPERATURE RANGE | | -25 °C TO +85 °C | | | STORAGE TEMPERATURE RANGE | | -10 °C TO +60 °C | | | |
| | VOLTAGE | | AC 100 V , DC 140 V | | | | | | | | |
| | CURRENT | | 2 A | | | APPLICABLE CABLE | | | | | |
| 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 | | CONTACT SHALL BE MEASURED AT DC 1 A | | | | 10 mΩ MAX. | | | | × | × |
| INSULATION RESISTANCE | | 100 V DC. | | | | 1000 MΩ MIN. | | | | × | × |
| VOLTAGE PROOF | | 300 V AC FOR 1 min. | | | | NO FLASHOVER OR BREAKDOWN. | | | | × | × |
| 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 LOCK : 70 N MAX. | | | | × | — |
| MECHANICAL OPERATION | | 1000 TIMES INSERTIONS AND EXTRACTIONS. | | | | CONTACT RESISTANCE: 15 mΩ MAX. | | | | × | — |
| VIBRATION | | FREQUENCY 10 TO 55 Hz, SINGLE AMPLITUDE 0.75 mm, — m/s ² AT 2 h, FOR 3 DIRECTIONS. | | | | ① NO ELECTRICAL DISCONTINUITY OF 10 μs. ② NO DAMAGE, CRACK AND LOOSENESS, OF PARTS. | | | | × | — |
| SHOCK | | 490 m/s ² DIRECTIONS OF PULSE 11 ms AT 3 TIMES FOR 3 DIRECTIONS. | | | | ① NO ELECTRICAL DISCONTINUITY OF 10 μs. ② NO DAMAGE, CRACK AND LOOSENESS, OF PARTS. | | | | × | — |
| CONTACT RETENTION FORCE | | APPLYING A PULL FORCE THE WIRE AFTER THE APPLICABLE CRIMPED CONTACT IS ASSEMBLE THE BODY. | | | | 20 N MIN. | | | | × | — |
| ENVIRONMENTAL CHARACTERISTICS | | | | | | | | | | | |
| DAMP HEAT (STEADY STATE) | | EXPOSED AT 40 °C, 90 TO 95 %, 96 h. | | | | ① INSULATION RESISTANCE: 5 MΩ MIN (AT HIGH HUMIDITY). ② INSULATION RESISTANCE: 50 MΩ MIN (AT DRY). ③ NO DAMAGE, CRACK AND LOOSENESS OF PARTS. | | | | × | — |
| RAPID CHANGE OF TEMPERATURE | | TEMPERATURE -55 → R/T ^① → +85 → R/T °C TIME 30 → 10 TO 15 → 30 → 10 TO 15 min UNDER 5 CYCLES. | | | | ① INSULATION RESISTANCE: 1000 MΩ MAX. 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 + 85 °C, 96 h. | | | | NO DAMAGE, CRACK AND LOOSENESS OF PARTS. | | | | × | — |
| COLD | | EXPOSED AT - 55 °C, 96 h. | | | | NO DAMAGE, CRACK AND LOOSENESS OF PARTS. | | | | × | — |
| | | | | | | | | | | | |
| REMARKS | | | | | | DRAWN | DESIGNED | CHECKED | APPROVED | RELEASED | |
| NOTE(1) R/T : ROOM TEMPERATURE (2) ABOVE PERFORMANCE INDICATES AT THE STATE APPLICABLE CRIMP CONTACTS ARE INSTALLED. | | | | | | D. Matsume | D. Matsume | E. Kunii | M. Sato | | |
| Unless otherwise specified, refer to JIS C 5402. | | | | | | '05.10.01 | '05.10.01 | '05.10.03 | '05.10.14 | | |
| Note QT:Qualification Test AT:Assurance Test ×:Applicable Test | | | | | | | | | | | |
| HS HIROSE ELECTRIC CO., LTD. | | | | | | SPECIFICATION SHEET | | | PART NO. HR10A-13R-20PC (73) | | |
| CODE NO. (OLD) CL | | DRAWING NO. ELC4-027149-73 | | | | CODE NO. CL110-0704-9-73 | | | | 1 1 | |