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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 | | -10 °C TO +60 °C | | STORAGE TEMPERATURE RANGE | | -10 °C TO +60 °C | |
|--|-----------------------------|--|----------------------------|---|----------------------|------------------|-----|
| RATING | OPERATING TEMPERATURE RANGE | | | | | | |
| | VOLTAGE | AC 100 V , DC 140 V | | | | | |
| | CURRENT | — A | | APPLICABLE CABLE | φ5.8±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 | | 15 mΩ MAX. | | X | — |
| INSULATION RESISTANCE | | 250 V DC. | | 1000 MΩ MIN. | | | X |
| VOLTAGE PROOF | | 300 V AC. FOR 1 min. | | NO FLASHOVER OR BREAKDOWN. | | | 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 : — N MAX. LOCKING DEVICE WITH LOCK : 50 N MAX. | | X | — |
| MECHANICAL OPERATION | | 1000 TIMES INSERTIONS AND EXTRACTIONS. | | CONTACT RESISTANCE: 20 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 3 DIRECTIONS. | | ① NO ELECTRICAL DISCONTINUITY OF 10 μs. ② NO DAMAGE, CRACK AND LOOSENESS, OF PARTS. | | X | — |
| CONTACT RETENTION FORCE | | APPLYING A PULL FORCE THE WIRE AFTER THE APPLICABLE CRIMPED CONTACT IS ASSEMBLED WITH THE BODY. | | 20 N MIN. | | 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 -55 → R/T ⁽¹⁾ → +85 → R/T °C TIME 30 → 10 TO 15 → 30 → 10 TO 15 min UNDER 5 CYCLES. | | ① INSULATION RESISTANCE: 100 MΩ MIN. . ② NO DAMAGE, CRACK AND LOOSENESS OF PARTS. | | X | — |
| CORROSION SALT MIST | | EXPOSED IN 5 % SALT WATER SPRAY FOR 48 h. | | NO HEAVY CORROSION RUIN THE FUNCTION. | | X | — |
| DRY HEAT | | | EXPOSED AT + 85 °C , 96 h. | NO DAMAGE, CRACK AND LOOSENESS OF PARTS. | | X | — |
| COLD | | | EXPOSED AT - 55 °C , 96 h. | NO DAMAGE, CRACK AND LOOSENESS OF PARTS. | | X | — |
| | | | | | | | |
| | COUNT | DESCRIPTION OF REVISIONS | | DESIGNED | CHECKED | DATE | |
| | 4 | DIS-C-001413 | | TY. SUZUKI | HY. KISHI | 09. 09. 16 | |
| REMARK | | | | APPROVED | MR. YOSHIDA | 05. 01. 05 | |
| NOTE (1) ABOVE PERFORMANCE INDICATES AT THE STATE APPLICABLE CRIMP CONTACTS ARE INSTALLED. (2) R/T : ROOM TEMPERATURE Unless otherwise specified, refer to JIS C 5402. | | | | CHECKED | MO. SATOH | 05. 01. 05 | |
| | | | | DESIGNED | YH. YAMADA | 05. 01. 05 | |
| | | | | DRAWN | YH. YAMADA | 05. 01. 05 | |
| Note QT:Qualification Test AT:Assurance Test X:Applicable Test | | | | DRAWING NO. | | ELC4-009810-71 | |
| | SPECIFICATION SHEET | | | PART NO. | RP13A-12PA-13SC (71) | | |
| | HIROSE ELECTRIC CO., LTD. | | | CODE NO. | CL113-0182-4-71 | | 1/1 |