

Apr. 1.2026 Copyright 2026 HIROSE ELECTRIC CO., LTD. All Rights Reserved.
 In case of consideration for using Automotive equipment / device which demand high reliability, kindly contact our sales window correspondents.

| 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 | | φ 0.53 ± 0.003 BY STEEL GAUGE. | | | INSERTION AND WITHDRAWAL FORCES : 0.15 N MIN. | | | × | — |
| CONNECTOR INSERTION AND WITHDRAWAL FORCES | | MEASURED BY APPLICABLE CONNECTOR. | | | INSERTION AND WITHDRAWAL FORCES LOCKING DEVICE WITH LOCK : 35 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. | | | × | — |
| 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 MIN. 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. | | | × | — |
| RESISTANCE TO SOLDERING HEAT | | SOLDER TEMPERATURE, + 380 ± 10 °C , FOR SOLDERING DURATION, 3 ~ 4 s. | | | NO DEFORMATION OF CASE OF EXCESSIVE LOOSENESS OF THE TERMINALS. | | | × | — |
| SOLDERABILITY | | SOLDERED AT SOLDER TEMPERATURE, + 350 ± 10 °C FOR SOLDERING DURATION, 2 ~ 3 s. | | | WETTING ON SOLDER SURFACE. NO SOLDER CLUSTER. | | | × | — |
| REMARKS | | | | | DRAWN | DESIGNED | CHECKED | APPROVED | RELEASED |
| NOTE(1) R/T : ROOM TEMPERATURE | | | | | J. Komatsu | D. Matsume | E. Kurii | N. Sato | |
| Unless otherwise specified, refer to JIS C 5402. | | | | | 05.11.17 | 05.11.18 | 05.11.22 | 05.11.24 | |
| Note QT:Qualification Test AT:Assurance Test ×:Applicable Test | | | | | | | | | |
| HRS HIROSE ELECTRIC CO., LTD. | | | | | SPECIFICATION SHEET | | | PART NO. HR10A-7R-6S (73) | |
| CODE NO. (OLD) CL | | | DRAWING NO. ELC4-020540-73 | | | CODE NO. CL110-0307-9-73 | | | 1/1 |

| |
|----|
| TO |
| R |
| |
| |