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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 |
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| 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 | |

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 | 500 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: 20 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. | × | — |

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| REMARKS NOTE(1) R/T : ROOM TEMPERATURE Unless otherwise specified, refer to JIS C 5402. Note QT:Qualification Test AT:Assurance Test ×:Applicable Test | DRAWN | DESIGNED | CHECKED | APPROVED | RELEASED |
| | 05.11.17 <i>B. Komatsu</i> | 05.11.18 <i>D. Matsume</i> | 05.11.22 <i>E. Kunii</i> | 05.11.25 <i>M. Sato</i> | |

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| HS HIROSE ELECTRIC CO., LTD. | SPECIFICATION SHEET | PART NO. HR10A-7R-4SB(73) |
| CODE NO. (OLD) CL | DRAWING NO. ELC4-022527-73 | CODE NO. CL110-0314-4-73 |

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