

| | | | | | |
|--|-----------------------------|---|-------------|---|------------------------|
| APPLICABLE STANDARD | | | | | |
| RATING | OPERATING TEMPERATURE RANGE | -20°C TO +85°C | | STORAGE TEMPERATURE RANGE | -20°C TO +85°C |
| | VOLTAGE | AC 200 V , DC 250 V | | | |
| | CURRENT | 3 A | | APPLICABLE CABLE | (φ8.0 TO φ9.0) |
| 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 (MIL-C-2316) | | 20 mΩ MAX. | X X |
| INSULATION RESISTANCE | | DC 500 V (MIL-STD-1344 3003) | | 1000 MΩ MIN. | X X |
| VOLTAGE PROOF | | AC 900 V FOR 1 min. (MIL-STD-1344 3001) | | NO FLASHOVER OR BREAKDOWN. | X X |
| MECHANICAL CHARACTERISTICS | | | | | |
| CONTACT INSERTION AND WITHDRAWAL FORCES | | φ0.736 ⁰ _{-0.003} BY STEEL GAUGE. | | INSERTION AND WITHDRAWAL FORCES : 0.2 N MIN. | X — |
| CONNECTOR INSERTION AND WITHDRAWAL FORCES | | MEASURED BY APPLICABLE CONNECTOR. LOCKING DEVICE WITH UNLOCK | | INSERTION FORCE : 70 N MAX. WITHDRAWAL FORCE : 50 N MAX. | X — |
| MECHANICAL OPERATION | | 500 TIMES INSERTIONS AND EXTRACTIONS. (MIL-C-5015 4.6.12.2) | | CONTACT RESISTANCE : 30 mΩ MAX. | X — |
| VIBRATION | | FREQUENCY 10 TO 500 Hz, SINGLE AMPLITUDE 0.75 mm, 98 m/s ² AT 3 h, FOR 3 DIRECTIONS. (MIL-STD-1344 2005, CONDITION II) | | ① NO ELECTRICAL DISCONTINUITY OF 10 μs. ② NO DAMAGE, CRACK AND LOOSENESS OF PARTS. | X — |
| SHOCK | | 490 m/s ² DURATION OF PULSE 11ms AT 3 TIMES FOR 3 DIRECTIONS. (MIL-STD-1344 2004, CONDITION E) | | ① NO ELECTRICAL DISCONTINUITY OF 10 μs. ② NO DAMAGE, CRACK AND LOOSENESS OF PARTS. | X — |
| ENVIRONMENTAL CHARACTERISTICS | | | | | |
| RAPID CHANGE OF TEMPERATURE | | TEMPERATURE -55→ R/T ⁽¹⁾ → +85 → R/T °C TIME 30 → 2 TO 3 → 30 → 2 TO 3 min UNDER 5 CYCLES. (MIL-C-5015 4.6.4) | | ① INSULATION RESISTANCE: 500 MΩ MIN. ② NO DAMAGE, CRACK AND LOOSENESS OF PARTS. | X — |
| DAMP HEAT (STEADY STATE) | | EXPOSED AT 71 °C, 95 %, 336 h. (MIL-C-5015 4.6.10) | | ① INSULATION RESISTANCE: 50 MΩ MIN (AT HIGH HUMIDITY). ② INSULATION RESISTANCE: 500MΩ MIN (AT DRY). ② NO DAMAGE, CRACK AND LOOSENESS OF PARTS. | X — |
| SEALING ⁽²⁾ | | EXPOSED AT A DEPTH OF 1 m FOR 0.5 h. (JIS B 6015) | | NO WATER PENETRATION INSIDE CONNECTOR. | X — |
| AIRTIGHTNESS ⁽²⁾ | | APPLY AIR PRESSURE 40 kPa FOR 30 SEC TO INSIDE CONNECTOR. | | NO AIR BUBBLES FROM CONNECTOR INTERFACE. | X — |
| OIL RESISTING ⁽²⁾ | | DROP CUTTING OIL FOR 48 HOURS | | NO OIL SEEPAGE INSIDE CONNECTOR. | X — |
| RESISTANCE TO SOLDERING HEAT | | SOLDER TEMPERATURE, +380±10°C ,FOR IMMERSION DURATION, 3 TO 4 sec. | | NO DEFORMATION OF CASE OF EXCESSIVE LOOSENESS OF THE TERMINALS. | X — |
| SOLDER ABILITY | | SOLDERED AT SOLDER TEMPERATURE, +350±10°C for IMMERSION DURATION, 2 TO 3 SEC. | | WETTING ON SOLDER SURFACE. NO SOLDER CLUSTER. | X — |
| CORROSION SALT MIST | | EXPOSED IN 5% SALT WATER SPRAY FOR 48h. (MIL-STD-1344 3001, CONDITION B) | | 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 |
| 0 | | | | | |
| REMARK | | | | APPROVED | HY. KOBAYASHI 18.03.16 |
| NOTE(1) R/T : ROOM TEMPERATURE | | | | CHECKED | HY. KOBAYASHI 18.03.16 |
| | | | | DESIGNED | DS. MATSUNE 18.03.16 |
| Unless otherwise specified, refer to IEC 60512(JIS C5402). | | | | DRAWN | DS. MATSUNE 18.03.16 |
| Note QT:Qualification Test AT:Assurance Test X:Applicable Test | | | DRAWING NO. | | ELC-117298-31-00 |
| HRS | SPECIFICATION SHEET | | PART NO. | HR08D-12WLPK-10S (31) | |
| | HIROSE ELECTRIC CO., LTD. | | CODE NO. | CL108-0264-1-31 | △ 1/1 |