

Nov.1.2024 Copyright 2024 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.

| APPLICABLE STANDARD | | | | | |
|---|---|--|---------------------------|--------------------------------|----------|
| RATING | OPERATING TEMPERATURE RANGE | -55 °C TO 85 °C ⁽¹⁾ | STORAGE TEMPERATURE RANGE | -10 °C TO 60 °C ⁽²⁾ | |
| | VOLTAGE | 200 V AC | OPERATING HUMIDITY RANGE | 40 % TO 80 % | |
| | CURRENT | 3 A | STORAGE HUMIDITY RANGE | 40 % TO 70 % ⁽²⁾ | |
| 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 | 100 mA (DC OR 1000 Hz). | 15 mΩ MAX. | × | - | |
| INSULATION RESISTANCE | 500 V DC | 1000 MΩ MIN. | × | - | |
| VOLTAGE PROOF | 650 V AC FOR 1 min. | NO FLASHOVER OR BREAKDOWN. | × | - | |
| MECHANICAL CHARACTERISTICS | | | | | |
| MECHANICAL OPERATION | 500 TIMES INSERTIONS AND EXTRACTIONS. | ① CONTACT RESISTANCE: 15 mΩ MAX. ② NO DAMAGE, CRACK AND LOOSENESS OF PARTS. | × | - | |
| VIBRATION | FREQUENCY 10 TO 55 Hz, AMPLITUDE : 1.5mm, AT 2 h FOR 3 DIRECTIONS. | ① NO ELECTRICAL DISCONTINUITY OF 1 μs. ② NO DAMAGE, CRACK AND LOOSENESS OF PARTS. | × | - | |
| SHOCK | 490 m/s ² , DURATION OF PULSE 11 ms AT 3 TIMES FOR 3 DIRECTIONS. | | × | - | |
| ENVIRONMENTAL CHARACTERISTICS | | | | | |
| DAMP HEAT (STEADY STATE) | EXPOSED AT 40±2 °C, 90 ~ 95 %, 96 h. | ① CONTACT RESISTANCE: 15 mΩ MAX. ② INSULATION RESISTANCE: 1000 MΩ MIN. | × | - | |
| RAPID CHANGE OF TEMPERATURE | TEMPERATURE-65→+15~+35→+125→+15+35°C TIME 30 → 10~15 → 30 → 10~15 min 5 CYCLES. | ③ NO DAMAGE, CRACK AND LOOSENESS OF PARTS. | × | - | |
| CORROSION SALT MIST | EXPOSED IN 5 % SALT WATER SPRAY FOR 48 h. | ① CONTACT RESISTANCE: 15 mΩ MAX. ② NO HEAVY CORROSION. | × | - | |
| HYDROGEN SULPHIDE | EXPOSED IN 3 PPM FOR 96 h. (TEST STANDARD: JEIDA 38) | | × | - | |
| RESISTANCE TO SOLDERING HEAT | 1) SOLDER BATH: SOLDER TEMPERATURE, 260±5°C FOR IMMERSION, DURATION, 10±1s. 2) SOLDERING IRONS : 350 °C, FOR 3 s | NO DEFORMATION OF CASE OF EXCESSIVE LOOSENESS OF THE TERMINALS. | × | - | |
| SOLDERABILITY | SOLDERED AT SOLDER TEMPERATURE, 245±3°C, FOR IMMERSION DURATION, 2 s. | A NEW UNIFORM COATING OF SOLDER SHALL COVER A MINIMUM OF 95 % OF THE SURFACE BEING IMMersed. | × | - | |
| | | | | | |
| | COUNT | DESCRIPTION OF REVISIONS | DESIGNED | CHECKED | DATE |
| △ | | | | | |
| REMARK ⁽¹⁾ TEMPERATURE RISE INCLUDED WHEN ENERGIZED. ⁽²⁾ THIS STORAGE INDICATES A LONG-TERM STORAGE STATE FOR THE UNUSED PRODUCT BEFORE THE BOARD MOUNTED. | | | APPROVED | HS. OKAWA | 06.01.23 |
| | | | CHECKED | HS. OZAWA | 06.01.23 |
| | | | DESIGNED | KY. NAKAMURA | 06.01.23 |
| Unless otherwise specified, refer to MIL-STD-202. | | | DRAWN | KY. NAKAMURA | 06.01.23 |
| Note QT:Qualification Test AT:Assurance Test X:Applicable Test | | DRAWING NO. | ELC4-152791-21 | | |
| HRS | SPECIFICATION SHEET | | PART NO. | A1-*PA-2. 54DSA (71) | |
| | HIROSE ELECTRIC CO., LTD. | | CODE NO. | CL619 | △ 1/1 |