| APPLICABLE STANDARD | | | | |
|---|---|---|---|---|
| RATING | OPERATING TEMPERATURE RANGE | -55 °C TO +85 °C | STORAGE TEMPERATURE RANGE | -10 °C TO +60 °C |
| | VOLTAGE | AC 100 V | OPERATING HUMIDITY RANGE | RELATIVE HUMIDITY: 95% MAX (NO DEW CONDENSATION IS PERMITTED) |
| | CURRENT | SIGNAL: 0.5A | | |

# SPECIFICATIONS

| ITEM | TEST METHOD | REQUIREMENTS | QT | AT |
|---|---|---|---|---|
| **CONSTRUCTION** | | | | |
| GENERAL EXAMINATION | VISUAL AND WITH MEASURING INSTRUMENT | ACCORDING TO A DRAWING | X | X |
| MARKING | CONFIRM VISUALLY | | X | X |
| **ELECTRIC CHARACTERISTICS** | | | | |
| CONTACT RESISTANCE [EIA-364-23] | 100 mA | 50 mΩ MAX (*1)<br>MATED WITH ER8-40P-0.8SV-*H(**) | X | — |
| INSULATION RESISTANCE [EIA-364-21] | 100 V DC | 1000 MΩ MIN | X | — |
| VOLTAGE PROOF [EIA-364-20] | 300 V AC FOR 1 min | NO FLASHOVER OR BREAKDOWN | X | — |
| **MECHANICAL CHARACTERISTICS** | | | | |
| MECHANICAL OPERATION [EIA-364-09] | 100 TIMES INSERTION AND EXTRACTION | 1) CONTACT RESISTANCE CHANGE: 15 mΩ OR LESS<br>2) NO FLASHOVER OR BREAKDOWN<br>3) NO DAMAGE, CRACK OR LOOSENESS OF PARTS | X | — |
| RANDOM VIBRATION [EIA-364-28] | FREQUENCY: 20 TO 500 Hz<br>POWER SPECTRAL DENSITY: 0.02 $G^2$/Hz<br>FOR 90 min IN THREE DIRECTIONS | 1) NO ELECTRICAL DISCONTINUITY OF 1 μs OR MORE<br>2) NO DAMAGE, CRACK OR LOOSENESS OF PARTS | X | — |
| SHOCK [EIA-364-27] | 980 m/$s^2$, DURATION OF PULSE: 6 ms<br>18TIMES TOTAL, 3 EACH DIRECTION, 3 AXIS | | X | — |
| **ENVIRONMENTAL CHARACTERISTICS** | | | | |
| THERMAL SHOCK [EIA-364-32] | TEMPERATURE(°C): -55 →20 ~ 35 → 85 →20 ~ 35<br>TIME(min): 30 → 2 ~ 3 → 30 →2 ~ 3<br>UNDER 25 CYCLES | 1) CONTACT RESISTANCE CHANGE: 15 mΩ OR LESS<br>2) NO DAMAGE, CRACK OR LOOSENESS OF PARTS<br>3) NO FLASHOVER OR BREAKDOWN<br>4) INSURATION RESISTANCE:1000MΩ MIN | X | — |
| CYCLIC TEMPERATURE AND HUMIDITY [EIA-364-31] | @ 25 °C, 90-95% RH: 120 min DWELL TIME<br>↑ ↓ 120min RAMP TIME<br>@ 65 °C, 90-95% RH: 120 min DWELL TIME<br>UNDER 12CYCLES | | X | — |
| DRY HEAT [EIA-364-17] | EXPOSED AT 105 °C, 250 HOURS | 1) CONTACT RESISTANCE CHANGE: 15 mΩ OR LESS | X | — |
| GAS TIGHT [EIA-364-36] | Nitric acid vapor<br>60min | | X | — |

| △ | COUNT | DESCRIPTION OF REVISIONS | DESIGNED | CHECKED | DATE |
|---|---|---|---|---|---|
| 0 | | | | | |

REMARK
(*1) THE VALUE OF CONTACT RESISTANCE INCLUDES THE BULK RESISTANCE.

Unless otherwise specified, refer to IEC 60512.

| | | |
|---|---|---|
| APPROVED | TM. MATSUO | 20191205 |
| CHECKED | TM. MATSUO | 20191205 |
| DESIGNED | TF. SUGAWARA | 20191205 |
| DRAWN | TF. SUGAWARA | 20191205 |

NOTE -- QT: QUALIFICATION TEST; AT: ASSURANCE TEST; X: APPLICATION TEST

DRAWING NO. ELC-366019-00-00

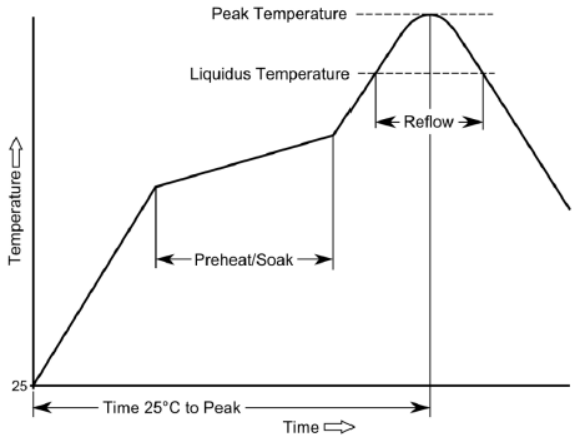
| | | | | |
|---|---|---|---|---|
| HRS | SPECIFICATION SHEET | PART NO. | ER8-40S-0.8SV-5H | |
| | HIROSE ELECTRIC CO., LTD. | CODE NO. | CL625-0016-0-00 | △0 1/2 |

FORM HD0011-2-1

# SPECIFICATIONS

| ITEM | TEST METHOD | REQUIREMENTS | QT | AT |
|---|---|---|---|---|
| RESISTANCE TO SOLDERING HEAT | RECOMMENDED TEMPERATURE FOR REFLOW<br><br>**Pb-Free Assembly** | NO MELTING OF RESIN WHICH AFFECTS THE PERFORMANCE OF COMPONENT. | X | — |

| Preheat/Soak (150°C-200°C) | Max Ramp Up Rate | Reflow Time (above 217°C) | Peak Temp | Time within 5°C of 260°C | Max Ramp Down Rate | Time 25°C to Peak Temp |
|---|---|---|---|---|---|---|
| 60-120 sec. | 3°C/s max. | 40-150 sec. | 260°C | 30 sec. max. | 6°C/s max. | 8 min. max. |




Note QT:Qualification Test AT:Assurance Test X:Applicable Test

| | | | |
|---|---|---|---|
| DRAWING NO. | ELC-366019-00-00 | | |
| HRS | SPECIFICATION SHEET | PART NO. | ER8-40S-0.8SV-5H |
| | HIROSE ELECTRIC CO., LTD. | CODE NO | CL625-0016-0-00 ⚠1 2/2 |

FORM HD0011-2-2