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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 | -55 °C TO 85 °C ⁽¹⁾ | STORAGE TEMPERATURE RANGE | -10 °C TO 60 °C ⁽²⁾ |
| | VOLTAGE | 125 V AC | OPERATING HUMIDITY RANGE | 40 % TO 80 % |
| | CURRENT | 0.5 A | STORAGE HUMIDITY RANGE | 40 % TO 70 % ⁽²⁾ |

SPECIFICATIONS

| ITEM | TEST METHOD | REQUIREMENTS | QT | AT |
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| CONSTRUCTION | | | | |
| GENERAL EXAMINATION | VISUALLY AND BY MEASURING INSTRUMENT. | ACCORDING TO DRAWING. | × | × |
| MARKING | CONFIRMED VISUALLY. | | × | × |

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| ELECTRICAL CHARACTERISTICS | | | | |
| CONTACT RESISTANCE | 100 mA (DC OR 1000 Hz). | 45 mΩ MAX. | × | |
| CONTACT RESISTANCE MILLIVOLT LEVEL METHOD | 20 mV MAX, 1 mA(DC OR 1000Hz) | 55 mΩ MAX. | × | |
| INSULATION RESISTANCE | 250 V DC. | 100 MΩ MIN. | × | |
| VOLTAGE PROOF | 300 V AC FOR 1 min. | NO FLASHOVER OR BREAKDOWN. | × | |

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| MECHANICAL CHARACTERISTICS | | | | |
| MECHANICAL OPERATION | 500 TIMES INSERTIONS AND EXTRACTIONS. | ① CONTACT RESISTANCE: 55 mΩ MAX. ② NO DAMAGE, CRACK AND LOOSENESS OF PARTS. | × | |
| VIBRATION | FREQUENCY 10 TO 55 Hz, AMPLITUDE : 1.52 mm, AT 2 h FOR 3 DIRECTION. | 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. | | × | |

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| ENVIRONMENTAL CHARACTERISTICS | | | | |
| DAMP HEAT (STEADY STATE) | EXPOSED AT 40±2 °C, 90 ~ 95 %, 96 h. | ① CONTACT RESISTANCE: 55 mΩ MAX. ② INSULATION RESISTANCE: 100 MΩ MIN. | × | |
| RAPID CHANGE OF TEMPERATURE | TEMPERATURE-55→+15~+35→+85→+15~+35°C TIME 30 → 10~15 → 30 → 10~15 min UNDER 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: 55 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 : 360°C FOR 5 s. | NO DEFORMATION OF CASE OF EXCESSIVE LOOSENESS OF THE TERMINAL. | × | |
| SOLDRABILITY | SOLDERED AT SOLDER TEMPERATURE 240±3°C FOR IMMERSION DURATION, 2s. | A NEW UNIFORM COATING OF SOLDER SHALL OVER A MINIMUM OF 95 % OF THE SURFACE BEING IMMERSSED. | × | |

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| REMARKS 1) TEMPERATURE RISE INCLUDED WHEN ENERGIZED. 2) THIS STORAGE INDICATES A LONG-TERM STORAGE STATE FOR THE UNUSED PRODUCT BEFORE THE BOARD MOUNTED. 3) * * INDICATES THE NUMBER OF CONTACTS. | DRAWN A.SUZUKAWA 05.03.24 | DESIGNED <i>K. Doi</i> 05.03.25 | CHECKED <i>T. Ogawa</i> 05.03.25 | APPROVED <i>T. Ogawa</i> 05.03.25 | RELEASED |
| | Unless otherwise specified, refer to MIL-STD-1344. | | | | |

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| Note QT:Qualification Test AT:Assurance Test ×:Applicable Test | | | | |
| HRS HIROSE ELECTRIC CO., LTD. | | SPECIFICATION SHEET | | PART NO. FX2-**P-1. 27DSL (71) |
| CODE NO.(OLD) CL | DRAWING NO. ELC4 - 083294-21 | CODE NO. CL 572 | 1/1 | |

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