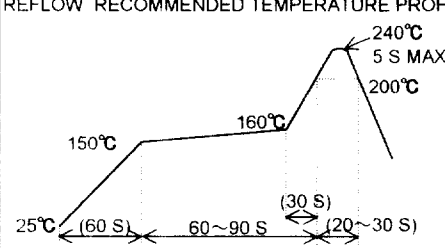


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| COUNT   | DESCRIPTION OF REVISIONS    | BY   | CHKD               | DATE                         | COUNT   | DESCRIPTION OF REVISIONS   | BY                              | CHKD     | DATE      |           |
|---|-----------------------------|--|--------------------|------------------------------|---|--|---------------------------------|----------|-----------|-----------|
| △   |                             |  |                    |                              | △   |  |                                 |          |           |           |
| △   |                             |  |                    |                              | △   |  |                                 |          |           |           |
| <b>APPLICATION STANDARD</b>                                       |                             |  |                    |                              |   |  |                                 |          |           |           |
| <b>RATING</b>   | OPERATING TEMPERATURE RANGE | -55 °C TO 85 °C  |                    |                              | STORAGE TEMPERATURE RANGE   | -10 °C TO 60 °C  |                                 |          |           |           |
|   | VOLTAGE                     | AC 50 V  |                    |                              | OPERATING HUMIDITY RANGE  | RELATIVE HUMIDITY : 95 % MAX<br>(NO DEW CONDENSATION IS PERMITTED) |                                 |          |           |           |
|   | CURRENT                     | 0.3 A  |                    |                              |   |  |                                 |          |           |           |
| <b>SPECIFICATIONS</b>   |                             |  |                    |                              |   |  |                                 |          |           |           |
| <b>ITEM</b>   | <b>TEST METHOD</b>          |  |                    |                              | <b>REQUIREMENT</b>  |  |                                 |          | <b>QT</b> | <b>AT</b> |
| <b>CONSTRUCTION</b>   |                             |  |                    |                              |   |  |                                 |          |           |           |
| GENERAL EXAMINATION   |                             | VISUALLY AND BY MEASURING INSTRUMENT.  |                    |                              | ACCORDING TO DRAWING  |  |                                 |          | X         | X         |
| MARKING   |                             | CONFIRMED VISUALLY.  |                    |                              |   |  |                                 |          | X         | X         |
| <b>ELECTRICAL CHARACTERISTICS</b>                                 |                             |  |                    |                              |   |  |                                 |          |           |           |
| CONTACT RESISTANCE  |                             | 100 mA (DC OR 1000 Hz).  |                    |                              | 60 mΩ MAX.  |  |                                 |          | X         | X         |
| INSULATION RESISTANCE   |                             | 100 V DC.  |                    |                              | 100 MΩ MIN.   |  |                                 |          | X         | -         |
| VOLTAGE PROOF   |                             | 150 V AC FOR 1 min.  |                    |                              | NO FLASHOVER OR BREAKDOWN.  |  |                                 |          | X         | X         |
| <b>MECHANICAL CHARACTERISTICS</b>                                 |                             |  |                    |                              |   |  |                                 |          |           |           |
| INSERTION AND WITHDRAWAL FORCES                                   |                             | MEASURED BY APPLICABLE CONNECTOR.  |                    |                              | INSERTION FORCE: 84 N MAX.<br>WITHDRAWAL FORCE: 3.5 N MIN.                                |  |                                 |          | X         | -         |
| MECHANICAL OPERATION  |                             | 50 TIMES INSERTION AND EXTRACTIONS.  |                    |                              | 1) CONTACT RESISTANCE: 70 mΩ MAX.<br>2) NO DAMAGE, CRACK AND LOOSENESS OF PART.           |  |                                 |          | X         | -         |
| VIBRATION   |                             | FREQUENCY: 10 TO 55 Hz, SINGLE<br>AMPLITUDE: 0.75 mm, - m/s <sup>2</sup><br>AT 10 CYCLES FOR 3 DIRECTIONS.   |                    |                              | 1) NO ELECTRICAL DISCONTINUITY OF 1 μs MIN.<br>2) NO DAMAGE, CRACK AND LOOSENESS OF PART. |  |                                 |          | X         | -         |
| SHOCK   |                             | 490 m/s <sup>2</sup> DURATION OF PULSE 11 ms AT 3 TIMES FOR 3 DIRECTIONS.  |                    |                              |   |  |                                 |          | X         | -         |
| <b>ENVIRONMENTAL CHARACTERISTICS</b>                              |                             |  |                    |                              |   |  |                                 |          |           |           |
| DAMP HEAT (STEADY STATE)  |                             | EXPOSED AT 40±2 °C, 90~95 %, 96 h.   |                    |                              | 1) CONTACT RESISTANCE: 70 mΩ MAX.<br>2) INSULATION RESISTANCE: 100 MΩ MIN.                |  |                                 |          | X         | -         |
| RAPID CHAGE OF TEMPERTURE   |                             | TEMPERTURE -55→15~35→ 85→15~35°C<br>TIME 30→ 2~ 3→ 30→ 2~ 3 min.<br>UNDER 5 CYCLES.  |                    |                              | 3) NO DAMAGE, CRACK AND LOOSENESS OF PART.  |  |                                 |          | X         | -         |
| DRY HEAT  |                             | EXPOSED AT 85 °C, 96 h.  |                    |                              | 1) CONTACT RESISTANCE: 70 mΩ MAX.   |  |                                 |          | X         | -         |
| COLD  |                             | EXPOSED AT -55 °C, 96 h.   |                    |                              | 2) NO DAMAGE, CRACK AND LOOSENESS OF PART.  |  |                                 |          | X         | -         |
| CORROSION SALT MIST   |                             | EXPOSED IN 5 % SALT WATER SPRAY FOR 48 h.  |                    |                              | NO HEAVY CORROSION.   |  |                                 |          | X         | -         |
| SULPHUR DIOXIDE   |                             | EXPOSED IN 10 PPM FOR 96 h.<br>(TEST STANDARD: JIS C 0090)   |                    |                              | 1) CONTACT RESISTANCE: 70 mΩ MAX.<br>2) NO HEAVY CORROSION.                               |  |                                 |          | X         | -         |
| RESISTANCE TO SOLDERING HEAT                                      |                             | REFLOW RECOMMENDED TEMPERATURE PROFILE<br><br>TO BE TESTED UNDER THE ABOVE CONDITIONS |                    |                              | NO MELTING OF RESIN WHICH AFFECTS THE PERFORMANCE OF COMPONENT.                           |  |                                 |          | X         | -         |
| SOLDRABILITY  |                             | SOLDERED AT SOLDER TEMPERATURE, 235 °C FOR IMMERSION DURATION, 2 s.  |                    |                              | NO PINHOLE OR DEWETTING ON SOLDERED SURFACE.  |  |                                 |          | X         | -         |
| REMARKS   |                             |  |                    | DRAWN                        | DESIGNED  | CHECKED  | APPROVED                        | RELEASED |           |           |
|   |                             |  |                    | <i>Matsukawa</i><br>99.10.25 | <i>Matsukawa</i><br>99.10.25  | <i>M. Sakida</i><br>99.10.26                                       | <i>T. Yoshimura</i><br>99.10.26 |          |           |           |
| UNLESS OTERWISE SPECIFIED, REFER TO JIS C 5402.                   |                             |  |                    |                              |   |  |                                 |          |           |           |
| NOTE QT: QUALIFICATION TEST AT: ASSURANCE TEST X: APPLICABLE TEST |                             |  |                    |                              |   |  |                                 |          |           |           |
| <b>HRS</b> HIROSE ELECTRIC CO., LTD.                              |                             |  |                    | <b>SPECIFICATION SHEET</b>   |   |  |                                 | PART NO. |           |           |
|   |                             |  |                    | FX11LB -140 S - SV (21)      |   |  |                                 |          |           |           |
| CODE NO.(OLD)   |                             |  | DRAWING NO.        |                              |   | CODE NO.   |                                 |          | 1         |           |
| CL  |                             |  | ELC4 - 152123 - 01 |                              |   | CL 573 - 0155 - 8 - 21   |                                 |          | 1         |           |

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