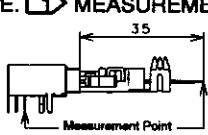


| COUNT                                                                                                                                                                        | DESCRIPTION OF REVISIONS    | BY                                                                                            | CHKD | DATE | COUNT                                                                                                                             | DESCRIPTION OF REVISIONS | BY          | CHKD     | DATE     |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------|-----------------------------------------------------------------------------------------------|------|------|-----------------------------------------------------------------------------------------------------------------------------------|--------------------------|-------------|----------|----------|
| △                                                                                                                                                                            |                             |                                                                                               |      |      | △                                                                                                                                 |                          |             |          |          |
| △                                                                                                                                                                            |                             |                                                                                               |      |      | △                                                                                                                                 |                          |             |          |          |
| <b>APPLICABLE STANDARD</b>                                                                                                                                                   |                             |                                                                                               |      |      |                                                                                                                                   |                          |             |          |          |
| RATING                                                                                                                                                                       | OPERATING TEMPERATURE RANGE | - 25 °C TO 60 °C                                                                              |      |      | STORAGE TEMPERATURE RANGE                                                                                                         | °C TO °C                 |             |          |          |
|                                                                                                                                                                              | VOLTAGE                     | 125 V AC , 175 V DC                                                                           |      |      | OPERATING HUMIDITY RANGE                                                                                                          | % TO %                   |             |          |          |
|                                                                                                                                                                              | CURRENT                     | 0.5 A                                                                                         |      |      | APPLICABLE CABLE                                                                                                                  |                          |             |          |          |
| <b>SPECIFICATIONS</b>                                                                                                                                                        |                             |                                                                                               |      |      |                                                                                                                                   |                          |             |          |          |
| ITEM                                                                                                                                                                         |                             | TEST METHOD                                                                                   |      |      | REQUIREMENTS                                                                                                                      |                          |             | QT       | AT       |
| <b>CONSTRUCTION</b>                                                                                                                                                          |                             |                                                                                               |      |      |                                                                                                                                   |                          |             |          |          |
| GENERAL EXAMINATION                                                                                                                                                          |                             | VISUALLY AND BY MEASURING INSTRUMENT.                                                         |      |      | ACCORDING TO DRAWING.                                                                                                             |                          |             | ○        | ○        |
| MARKING                                                                                                                                                                      |                             | CONFIRMED VISUALLY.                                                                           |      |      |                                                                                                                                   |                          |             | ○        | ○        |
| <b>ELECTRIC CHARACTERISTICS</b>                                                                                                                                              |                             |                                                                                               |      |      |                                                                                                                                   |                          |             |          |          |
| CONTACT RESISTANCE                                                                                                                                                           |                             | 1 mA (DC OR 1000 Hz). ①                                                                       |      |      | 35 mΩ MAX.                                                                                                                        |                          |             | ○        | ○        |
| INSULATION RESISTANCE                                                                                                                                                        |                             | 100 V DC.                                                                                     |      |      | 250 MΩ MIN.                                                                                                                       |                          |             | ○        | ○        |
| VOLTAGE PROOF                                                                                                                                                                |                             | 300 V AC FOR 1 min.                                                                           |      |      | NO FLASHOVER OR BREAKDOWN.                                                                                                        |                          |             | ○        | ○        |
| <b>MECHANICAL CHARACTERISTICS</b>                                                                                                                                            |                             |                                                                                               |      |      |                                                                                                                                   |                          |             |          |          |
| INSERTION AND WITHDRAWAL FORCES                                                                                                                                              |                             | MEASURED BY APPLICABLE CONNECTOR.                                                             |      |      | 2.4 N MIN.<br>11.2 N MAX.                                                                                                         |                          |             | ○        | —        |
| MECHANICAL OPERATION                                                                                                                                                         |                             | 1000 TIMES INSERTIONS AND EXTRACTIONS. ①                                                      |      |      | ① CONTACT RESISTANCE: 35 mΩ MAX.<br>② NO DAMAGE, CRACK AND LOOSENESS, OF PARTS.                                                   |                          |             | ○        | —        |
| VIBRATION                                                                                                                                                                    |                             | FREQUENCY 10 TO 55 Hz, SINGLE AMPLITUDE 0.75 mm, — m/s <sup>2</sup> AT 2 h, FOR 3 DIRECTIONS. |      |      | ① NO ELECTRICAL DISCONTINUITY OF 10 μs.<br>② NO DAMAGE, CRACK AND LOOSENESS, OF PARTS.                                            |                          |             | ○        | —        |
| SHOCK                                                                                                                                                                        |                             | 490 m/s <sup>2</sup> DURATION OF PULSE 11 ms AT 3 TIMES FOR 3 DIRECTIONS.                     |      |      | ① REMAIN ENGAGED WHILE THE FORCE IS APPLIED.<br>② NO DEFECT AT MATING AREA AFTER THE TEST.                                        |                          |             | ○        | —        |
| LOCK RETENTION FORCE                                                                                                                                                         |                             | APPLY 68.6 N PULL FORCE TO THE MATING DIRECTION.                                              |      |      |                                                                                                                                   |                          |             | ○        | —        |
| <b>ENVIRONMENTAL CHARACTERISTICS</b>                                                                                                                                         |                             |                                                                                               |      |      |                                                                                                                                   |                          |             |          |          |
| RAPID CHANGE OF TEMPERATURE                                                                                                                                                  |                             | TEMPERATURE -55 → -5~35 → 85 → -5~35 °C<br>TIME 30 → 2~3 → 30 → 2~3 min<br>UNDER 5 CYCLES.    |      |      | NO DAMAGE, CRACK AND LOOSENESS, OF PARTS.                                                                                         |                          |             | ○        | —        |
| DAMP HEAT (STEADY STATE)                                                                                                                                                     |                             | EXPOSED AT 40 °C, 90~95 %, 96 h.                                                              |      |      | ① INSULATION RESISTANCE:<br>1 MΩ MIN. (AT HIGH HUMIDITY.)<br>100 MΩ MIN. (AT DRY.)<br>② NO DAMAGE, CRACK AND LOOSENESS, OF PARTS. |                          |             | ○        | —        |
| CORROSION SALT MIST                                                                                                                                                          |                             | EXPOSED IN 5 % SALT WATER SPRAY FOR 48 h.                                                     |      |      | NO HEAVY CORROSION.                                                                                                               |                          |             | ○        | —        |
| RESISTANCE TO SOLDERING HEAT                                                                                                                                                 |                             | SOLDER TEMPERATURE, 260 ± 5 °C FOR IMMERSION, DURATION 10 ± 1 S.                              |      |      | NO DEFORMATION OF CASE AND EXCESSIVE LOOSENESS OF THE TERMINALS.                                                                  |                          |             | ○        | —        |
| SOLDERABILITY                                                                                                                                                                |                             | SOLDERED AT SOLDER TEMPERATURE, 245 ± 2 °C FOR IMMERSION, DURATION 3 ± 1 S.                   |      |      | MIN. 95 % OF SOLDER IMMERSED AREA SHALL BE COVERED NEW SOLDER COATING.                                                            |                          |             | ○        | —        |
| <b>REMARKS</b>                                                                                                                                                               |                             |                                                                                               |      |      | DRAWN                                                                                                                             | DESIGNED                 | CHECKED     | APPROVED | RELEASED |
| NOTE. ① MEASUREMENT POINT OF CONTACT RESISTANCE                                                                                                                              |                             |                                                                                               |      |      | ① Hamaya                                                                                                                          | ① Hamaya                 | J. Watanabe | H. Miwa  |          |
|  <p>(WITHOUT BULK RESISTANCE)</p> <p>Unless otherwise specified, refer to JIS C 5402.</p> |                             |                                                                                               |      |      | 03.12.10                                                                                                                          | 03.12.10                 | 03.12.11    | 03.12.12 |          |
| Note QT:Qualification Test AT:Assurance Test ○:Applicable Test                                                                                                               |                             |                                                                                               |      |      |                                                                                                                                   |                          |             |          |          |
| <b>HRS HIROSE ELECTRIC CO., LTD.</b>                                                                                                                                         |                             |                                                                                               |      |      | <b>SPECIFICATION SHEET</b>                                                                                                        |                          |             |          |          |
| CODE NO.(OLD)<br>CL                                                                                                                                                          |                             |                                                                                               |      |      | PART NO.<br>3110-8S(50)                                                                                                           |                          |             |          |          |
| DRAWING NO.<br>ELC4-045469-01                                                                                                                                                |                             |                                                                                               |      |      | CODE NO.<br>CL231-3001-4-50                                                                                                       |                          |             |          |          |
|                                                                                                                                                                              |                             |                                                                                               |      |      | 1/1                                                                                                                               |                          |             |          |          |