

| COUNT   | DESCRIPTION OF REVISIONS    | BY  | CHKD | DATE | COUNT   | DESCRIPTION OF REVISIONS | BY       | CHKD                            | DATE     |
|---|-----------------------------|---|------|------|---|--------------------------|----------|---------------------------------|----------|
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| △   |                             |   |      |      | △   |                          |          |                                 |          |
| APPLICABLE STANDARD   |                             |   |      |      |   |                          |          |                                 |          |
| RATING  | OPERATING TEMPERATURE RANGE | -35 °C TO +85 °C(NOTE1)   |      |      | STORAGE TEMPERATURE RANGE   | -10 °C TO +60 °C(NOTE3)  |          |                                 |          |
|   | OPERATING MOISTURE RANGE    | 20 %TO 80 %(NOTE2)  |      |      | STORAGE MOISTURE RANGE  | 40 %TO 70 %(NOTE3)       |          |                                 |          |
|   | CURRENT                     | 1 A   |      |      | VOLTAGE   | 150 V AC(DC)             |          |                                 |          |
| 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).   |      |      | 30 mΩ MAX.  |                          |          |                                 |          |
| CONTACT RESISTANCE MILLIVOLT LEVEL METHOD.  |                             | 20 mV MAX, 1mA (DC OR 1000Hz)   |      |      |   |                          |          | ×                               | —        |
| INSULATION RESISTANCE   |                             | 100 V DC.   |      |      | 500 MΩ MIN.   |                          |          | ×                               | —        |
| VOLTAGE PROOF   |                             | 500 V AC FOR 1 min.   |      |      | NO FLASHOVER OR BREAKDOWN.  |                          |          | ×                               | —        |
| MECHANICAL CHARACTERISTICS  |                             |   |      |      |   |                          |          |                                 |          |
| MECHANICAL OPERATION  |                             | 50 TIMES INSERTIONS AND EXTRACTIONS.  |      |      | ① CONTACT RESISTANCE: 30 mΩ MAX.<br>② NO DAMAGE, CRACK OR LOOSENESS OF PARTS.   |                          |          | ×                               | —        |
| VIBRATION   |                             | FREQUENCY 10 TO 55 Hz, SINGLE AMPLITUDE 0.75 mm, AT 2 h, FOR 3 DIRECTIONS.  |      |      | ① NO ELECTRICAL DISCONTINUITY OF 1 μs.  |                          |          | ×                               | —        |
| SHOCK   |                             | 490 m/s <sup>2</sup> DURATION OF PULSE 11 ms AT 3 TIMES FOR 3 DIRECTIONS.   |      |      | ② NO DAMAGE, CRACK OR LOOSENESS OF PARTS.   |                          |          | ×                               | —        |
| ENVIRONMENTAL CHARACTERISTICS   |                             |   |      |      |   |                          |          |                                 |          |
| RAPID CHANGE OF TEMPERATURE   |                             | TEMPERATURE -55 →+5 TO 35 →+85 →+5 TO 35°C<br>TIME 30 →10 TO 15 →30 →10 TO15min<br>UNDER 5 CYCLES.  |      |      | ① CONTACT RESISTANCE: 30 mΩ MAX.<br>② INSULATION RESISTANCE: 500 MΩ MIN.<br>③ NO DAMAGE, CRACK OR LOOSENESS OF PARTS. |                          |          | ×                               | —        |
| DAMP HEAT (STEADY STATE)  |                             | EXPOSED AT 40 ± 2 °C, 90 ~ 95 %, 96 h.  |      |      |   |                          |          |                                 |          |
| RESISTANCE TO SOLDERING HEAT  |                             | (1) REFLOW SOLDERING<br>《REFLOW AREA》<br>MAX 250°C WITHIN 10 sec.<br>MIN 230°C WITHIN 60 sec<br>《PREHEATING AREA》<br>170°C to 190 °C 60 sec. To 120 sec.<br>PUT THROUGH IN REFLOW FUMACE TWICE.<br>LEAVE IN AMBIENT TEMPERATURE AND HUMIDITY FOR 1 HOUR.<br>CONNECTOR TEMPERATURE TO BE AMBIENT FOR SECOND REFLOW.<br>(2) MANUAL SOLDERING<br>SOLDERING IRON TEMPERATURE 350±5°C, FOR 5±1 sec.<br>NO STRENGTH ON CONTACT. |      |      | NO DEFORMATION OF CASE OF EXCESSIVE LOOSENESS OF THE TERMINALS.   |                          |          | ×                               | —        |
| SOLDERABILITY   |                             | SOLDERING TEMPERATURE : 235±5°C<br>DURATION OF IMMERSION :<br>SOLDERING, FOR 3 sec.   |      |      | A NEW UNIFORM COATING OF SOLDER SHALL COVER MINIMUM OF 95 % OF THE SURFACE BEING IMMERSED.                            |                          |          | ×                               | —        |
| REMARKS<br>NOTE1:INCLUDING THE TEMPERATURE RISE BY CURRENT.<br>NOTE2:NON-CONDENSING<br>NOTE3:APPLY TO THE CONDITION OF LONG TERM STORAGE FOR UNUSED PRODUCTS BEFORE PCB ON BOARD, AFTER PCB BOARD,OPERATING TEMPERATURE AND HUMIDITY RANGE IS APPLIED FOR INTERIM STORAGE DURING TRANSPORTATION.<br>Unless otherwise specified, refer to JIS C 5402 |                             |   |      |      | DRAWN   | DESIGNED                 | CHECKED  | APPROVED                        | RELEASED |
|   |                             |   |      |      | 76.10.2016  | 13.3.7                   | 13.03.25 | 13.03.25                        |          |
| Note QT:Qualification Test AT:Assurance Test ×:Applicable Test  |                             |   |      |      |   |                          |          |                                 |          |
| HRS HIROSE ELECTRIC CO., LTD.   |                             |   |      |      | SPECIFICATION SHEET   |                          |          | PART NO.<br>DF14- * P-1.25H(56) |          |
| CODE NO.(OLD)<br>CL   |                             | DRAWING NO.<br>ELC4-160307-18   |      |      | PART NO<br>CL538-   |                          |          | 1/1                             |          |