

| COUNT  | DESCRIPTION OF REVISIONS    | BY  | CHKD | DATE                       | COUNT   | DESCRIPTION OF REVISIONS | BY                            | CHKD     | DATE |
|--|-----------------------------|---|------|----------------------------|---|--------------------------|-------------------------------|----------|------|
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| △  |                             |   |      |                            | △   |                          |                               |          |      |
| <b>APPLICABLE STANDARD</b>                                       |                             |   |      |                            |   |                          |                               |          |      |
| RATING   | OPERATING TEMPERATURE RANGE | -30 °C TO 85 °C(NOTE 1)   |      |                            | STORAGE TEMPERATURE RANGE   | -10°C TO 60 °C           |                               |          |      |
|  | VOLTAGE                     | 250 V AC  |      |                            | OPERATING HUMIDITY RANGE  |                          |                               |          |      |
|  | CURRENT                     | 3 A   |      |                            | APPLICABLE CONNECTOR  |                          |                               |          |      |
| <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   |                             | 100mA (DC OR 1000 Hz).  |      |                            | 30 mΩ MAX.  |                          |                               | ○        | —    |
| CONTACT RESISTANCE MILLIVOLT LEVEL METHOD.                       |                             | 20 mV MAX. mA(DC OR 1000 Hz).   |      |                            | m Ω MAX.  |                          |                               | —        | —    |
| INSULATION RESISTANCE  |                             | 500V DC.  |      |                            | 1000 MΩ MIN.  |                          |                               | ○        | —    |
| VOLTAGE PROOF  |                             | 650 V AC FOR 1 min.   |      |                            | NO FLASH OVER OR BREAKDOWN.   |                          |                               | ○        | —    |
| <b>MECHANICAL CHARACTERISTICS</b>                                |                             |   |      |                            |   |                          |                               |          |      |
| CONTACT INSERTION AND EXTRACTION FORCES                          |                             | BY STEEL GAUGE.   |      |                            | INSERTION FORCE N MAX.<br>EXTRACTION FORCE N MIN.   |                          |                               | —        | —    |
| INSERTION AND WITHDRAWAL FORCES                                  |                             | MEASURED BY APPLICABLE CONNECTOR.   |      |                            | INSERTION FORCE N MAX.<br>EXTRACTION FORCE N MIN.   |                          |                               | —        | —    |
| MECHANICAL OPERATION   |                             | 50 TIMES INSERTIONS AND EXTRACTIONS.  |      |                            | ① CONTACT RESISTANCE: 30 mΩ MAX.<br>② NO DAMAGE, CRACK AND LOOSENESS, OF PARTS.   |                          |                               | ○        | —    |
| VIBRATION  |                             | FREQUENCY 10 TO 55 Hz, SINGLE AMPLITUDE 0.75mm, — m/s <sup>2</sup> AT 2 h, FOR 3 DIRECTIONS.    |      |                            | ① NO ELECTRICAL DISCONTINUITY OF 1μs.   |                          |                               | ○        | —    |
| SHOCK  |                             | 490 m/s <sup>2</sup> DIRECTIONS OF PULSE 11 ms AT 3 TIME FOR 3 DIRECTION.                       |      |                            | ② CONTACT RESISTANCE: — mΩ MAX.<br>③ NO DAMAGE, CRACK AND LOOSENESS, OF PARTS.  |                          |                               | ○        | —    |
| <b>ENVIRONMENTAL CHARACTERISTICS</b>                             |                             |   |      |                            |   |                          |                               |          |      |
| RAPID CHANGE OF TEMPERATURE                                      |                             | TEMPERATURE -55 →5 TO 35→85 →5 TO 35 °C<br>TIME 30→10 TO 15→30 →10 TO 15 min<br>UNDER 5 CYCLES. |      |                            | ① CONTACT RESISTANCE: 30 mΩ MAX.<br>② INSULATION RESISTANCE: 1000 Ω MIN.<br>③ NO DAMAGE, CRACK AND LOOSENESS, OF PARTS. |                          |                               | ○        | —    |
| DAMP HEAT (STEADY STATE)   |                             | EXPOSED AT 40±2 °C, 90 TO 95 %, 96 h.   |      |                            | ① CONTACT RESISTANCE: 30 mΩ MAX.<br>② INSULATION RESISTANCE: 500 MΩ MIN.<br>③ NO DAMAGE, CRACK AND LOOSENESS, OF PARTS. |                          |                               | ○        | —    |
| CORROSION SALT MIST  |                             | EXPOSED IN 5 % SALT WATER SPRAY FOR 48 h.   |      |                            | ① CONTACT RESISTANCE: 60 mΩ MAX.<br>② NO HAEAVY CORROSION.  |                          |                               | ○        | —    |
| HYDROGEN SULPHIDE  |                             | EXPOSED IN — PPM FOR — h.<br>(TEST STANDARD: JEIDA-38)  |      |                            | ① CONTACT RESISTANCE: mΩ MAX.<br>② NO HAEAVY CORROSION.   |                          |                               | —        | —    |
| SULPHUR DIOXIDE  |                             | EXPOSED IN 10 PPM FOR 96 h.<br>(TEST STANDARD: JEIDA-39)  |      |                            | ① CONTACT RESISTANCE: 60 mΩ MAX.<br>② NO HAEAVY CORROSION.  |                          |                               | ○        | —    |
| SOLDERING HEAT   |                             | SOLDER TEMPERATURE, 260±5 °C FOR IMMERSION, DURATION, 10S                                       |      |                            | NO DEFORMATION ON CASE OR EXCESSIVE LOOSENESS OF THE TERMINALS  |                          |                               | ○        | —    |
| SOLDERABILITY  |                             | SOLDERED AT SOLDER TEMPERATURE, 230±5°C FOR IMMERSION DURATION, 3S.                             |      |                            | SOLDER SHALL COVER MINIMUM OF 95 % OF THE SURFACE BEING IMMERSED.   |                          |                               | ○        | —    |
| REMARKS  |                             |   |      | DRAWN                      | DESIGNED  | CHECKED                  | APPROVED                      | RELEASED |      |
| NOTE1: INCLUDE THE TEMPERATURE RISING BY CURRENT                 |                             |   |      | M. Tanaka                  | M. Tanaka   | K. Akayama               | K. Katayama                   |          |      |
| Unless otherwise specified, refer to MIL-STD-1344.               |                             |   |      | 99.5.28                    | 99.5.28   | '99.5.28                 | '99.5.31                      |          |      |
| Note QT: Qualification Test AT: Assurance Test ○:Applicable Test |                             |   |      |                            |   |                          |                               |          |      |
| <b>HRS</b> HIROSE ELECTRIC CO., LTD.                             |                             |   |      | <b>SPECIFICATION SHEET</b> |   |                          | PART NO.<br>DF3- * P-2DS (01) |          |      |
| CODE NO.(OLD)  |                             | DRAWING NO  |      |                            | PEART NO  |                          |                               | 1        | 1    |
| CL   |                             | ELC4- 1 6 2 3 9 7 - 0 1   |      |                            | CL5 4 3   |                          |                               |          |      |

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