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| COUNT   | DESCRIPTION OF REVISIONS  | BY                      | CHKD                    | DATE | COUNT   | DESCRIPTION OF REVISIONS | BY                | CHKD               | DATE                  |   |
|---|---|-------------------------|-------------------------|------|---|--------------------------|-------------------|--------------------|-----------------------|---|
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| △   |   |                         |                         |      | △   |                          |                   |                    |                       |   |
| <b>APPLICABLE STANDARD</b>  |   |                         |                         |      |   |                          |                   |                    |                       |   |
| <b>RATING</b>   | 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>   |   |                         |                         |      |   |                          |                   |                    |                       |   |
| <b>ITEM</b>   | <b>TEST METHOD</b>  |                         |                         |      | <b>REQUIREMENTS</b>   |                          |                   |                    | <b>QT</b>   <b>AT</b> |   |
| <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.            |                    | —                     | — |
|   |   |                         |                         |      | EXTRACTION FORCE  |                          | N MIN.            |                    | —                     | — |
| INSERTION AND WITHDRAWAL FORCES                                   | MEASURED BY APPLICABLE CONNECTOR.   |                         |                         |      | INSERTION FORCE   |                          | N MAX.            |                    | —                     | — |
|   |   |                         |                         |      | 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.<br>② CONTACT RESISTANCE: — mΩ MAX.<br>③ NO DAMAGE, CRACK AND LOOSENESS, OF PARTS. |                          |                   |                    | ○                     | — |
| SHOCK   | 490 m/s <sup>2</sup> DIRECTIONS OF PULSE 11 ms AT 3 TIME FOR 3 DIRECTION.                       |                         |                         |      |   |                          |                   |                    | ○                     | — |
| <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.   |                          |                   |                    | ○                     | — |
| <b>REMARKS</b>  |   |                         |                         |      | <b>DRAWN</b>  | <b>DESIGNED</b>          | <b>CHECKED</b>    | <b>APPROVED</b>    | <b>RELEASED</b>       |   |
| NOTE1: INCLUDE THE TEMPERATURE RISING BY CURRENT                  |   |                         |                         |      | <i>M. Tanaka</i>  | <i>M. Tanaka</i>         | <i>K. Akayama</i> | <i>K. Katayama</i> |                       |   |
| 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 HIROSE ELECTRIC CO., LTD.</b>                              |   |                         |                         |      | <b>SPECIFICATION SHEET</b>  |                          |                   | <b>PART NO.</b>    |                       |   |
|   |   |                         |                         |      | DF3- * P - 2 DS (01)  |                          |                   |                    |                       |   |
| CODE NO.(OLD)   |   |                         | DRAWING NO              |      |   | PEART NO                 |                   |                    |                       |   |
| CL  |   |                         | ELC4- 1 6 2 3 9 7 - 0 1 |      |   | CL5 4 3                  |                   |                    |                       |   |
|   |   |                         |                         |      |   | 1 / 1                    |                   |                    |                       |   |

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