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|----------------------------------------------------------------|-----------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|------|-------------------------------------------------------------------------------------------------------------------------|--------------------------|------------------------|-------------------|----------|
| COUNT                                                          | DESCRIPTION OF REVISIONS    | BY                                                                                                                                                                                                               | CHKD | DATE | COUNT                                                                                                                   | DESCRIPTION OF REVISIONS | BY                     | CHKD              | DATE     |
| △                                                              |                             |                                                                                                                                                                                                                  |      |      | △                                                                                                                       |                          |                        |                   |          |
| △                                                              |                             |                                                                                                                                                                                                                  |      |      | △                                                                                                                       |                          |                        |                   |          |
| APPLICABLE STANDARD                                            |                             |                                                                                                                                                                                                                  |      |      |                                                                                                                         |                          |                        |                   |          |
| RATING                                                         | OPERATING TEMPERATURE RANGE | -35 °C TO +85 °C(NOTE1)                                                                                                                                                                                          |      |      | STORAGE TEMPERATURE RANGE                                                                                               | -10 °C TO +60 °C         |                        |                   |          |
|                                                                | VOLTAGE                     | 250 V AC                                                                                                                                                                                                         |      |      | APPLICABLE CONNECTOR                                                                                                    | DF1B-*S-2.5R             |                        |                   |          |
|                                                                | CURRENT                     | 3 A                                                                                                                                                                                                              |      |      |                                                                                                                         |                          |                        |                   |          |
| 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.                                                                                                              |                          |                        | ×                 | —        |
| INSULATION RESISTANCE                                          |                             | 500 V DC.                                                                                                                                                                                                        |      |      | 1000 MΩ MIN.                                                                                                            |                          |                        | ×                 | —        |
| VOLTAGE PROOF                                                  |                             | 650 V AC FOR 1 min.                                                                                                                                                                                              |      |      | NO FLASHOVER OR BREAKDOWN.                                                                                              |                          |                        | ×                 | —        |
| MECHANICAL CHARACTERISTICS                                     |                             |                                                                                                                                                                                                                  |      |      |                                                                                                                         |                          |                        |                   |          |
| MECHANICAL OPERATION                                           |                             | 30 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.<br>② NO DAMAGE, CRACK OR LOOSENESS OF PARTS.                                     |                          |                        | ×                 | —        |
| SHOCK                                                          |                             | 490 m/s <sup>2</sup> DURATION OF PULSE 11 ms AT 3 TIMES FOR 3 DIRECTIONS.                                                                                                                                        |      |      | ① NO ELECTRICAL DISCONTINUITY OF 1 μs.<br>② CONTACT RESISTANCE: 30 mΩ MAX.<br>③ 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→ 5 MAX → 30→ 5 MAX min<br>UNDER 5 CYCLES.                                                                                                                    |      |      | ① CONTACT RESISTANCE: 30 mΩ MAX.<br>② INSULATION RESISTANCE: 1000 MΩ MIN.<br>③ NO DAMAGE, CRACK OR LOOSENESS OF PARTS.  |                          |                        | ×                 | —        |
| DAMP HEAT (STEADY STATE)                                       |                             | EXPOSED AT 40 ± 2 °C, 90 ~ 95 %, 96 h.                                                                                                                                                                           |      |      | ① CONTACT RESISTANCE: 30 mΩ MAX.<br>② INSULATION RESISTANCE: 1000 MΩ MIN.<br>③ NO DAMAGE, CRACK OR LOOSENESS OF PARTS.  |                          |                        | ×                 | —        |
| RESISTANCE TO SOLDERING HEAT                                   |                             | 1) AUTOMATIC SOLDERING (FLOW)<br>SOLDER TEMPERATURE, 260 °C FOR IMMERSION, DURATION, 5 sec.<br>2) MANUAL SOLDERING<br>SOLDERING IRON TEMPERATURE : 300 °C,<br>SOLDERING TIME : 3 sec.<br>NO STRENGTH ON CONTACT. |      |      | NO DEFORMATION OF CASE OF EXCESSIVE LOOSENESS OF THE TERMINALS.                                                         |                          |                        | ×                 | —        |
| SOLDERABILITY                                                  |                             | SOLDERED AT SOLDER TEMPERATURE, 235 °C FOR INSERTION DURATION, 5 s.                                                                                                                                              |      |      | SOLDER SHALL COVER A MINIMUM OF 95 % OF THE SURFACE BEING IMMERSSED.                                                    |                          |                        | ×                 | —        |
| REMARKS                                                        |                             |                                                                                                                                                                                                                  |      |      |                                                                                                                         |                          |                        |                   |          |
| NOTE1: INCLUDE THE TEMPERATURE RISING BY CURRENT.              |                             |                                                                                                                                                                                                                  |      |      | DRAWN                                                                                                                   | DESIGNED                 | CHECKED                | APPROVED          | RELEASED |
| Unless otherwise specified, refer to JIS C 5402.               |                             |                                                                                                                                                                                                                  |      |      | F.Matsuki<br>'04.03.25                                                                                                  | H.Umehara<br>04.03.25    | T.Miyazaki<br>04.03.25 | T.Ono<br>04.03.25 |          |
| Note QT:Qualification Test AT:Assurance Test ×:Applicable Test |                             |                                                                                                                                                                                                                  |      |      |                                                                                                                         |                          |                        |                   |          |
| HS HIROSE ELECTRIC CO., LTD.                                   |                             |                                                                                                                                                                                                                  |      |      | SPECIFICATION SHEET                                                                                                     |                          |                        |                   |          |
| CODE NO.(OLD)<br>CL                                            |                             |                                                                                                                                                                                                                  |      |      | PART NO.<br>DF1BZ- * P-2.5DSA                                                                                           |                          |                        |                   |          |
| DRAWING NO.<br>ELC4-303206-01                                  |                             |                                                                                                                                                                                                                  |      |      | PART NO.<br>CL541                                                                                                       |                          |                        |                   |          |
|                                                                |                             |                                                                                                                                                                                                                  |      |      | 1/1                                                                                                                     |                          |                        |                   |          |