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In case that the application demands a high level of reliability, such as automotive,  
please contact a company representative for further information.

| 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 |  |  |
|                     | VOLTAGE                     | 250 V AC                |  |  |  | APPLICABLE CONNECTOR      | DF1B-*S-2.5R     |  |  |
|                     | CURRENT                     | 3 A                     |  |  |  |                           |                  |  |  |

| SPECIFICATIONS                                                 |                                                                                                                                                                                                                  |                                                                                                                         |           |             |          |          |
|----------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------|-----------|-------------|----------|----------|
| 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                                             | 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.                                                                                              | ×         | —           |          |          |
| <b>MECHANICAL CHARACTERISTICS</b>                              |                                                                                                                                                                                                                  |                                                                                                                         |           |             |          |          |
| 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. | ×         | —           |          |          |
| <b>ENVIRONMENTAL CHARACTERISTICS</b>                           |                                                                                                                                                                                                                  |                                                                                                                         |           |             |          |          |
| 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 IMMersed.                                                     | ×         | —           |          |          |
|                                                                |                                                                                                                                                                                                                  |                                                                                                                         |           |             |          |          |
| REMARKS                                                        |                                                                                                                                                                                                                  | DRAWN                                                                                                                   | DESIGNED  | CHECKED     | APPROVED | RELEASED |
| NOTE1: INCLUDE THE TEMPERATURE RISING BY CURRENT.              |                                                                                                                                                                                                                  | F.Matsuki                                                                                                               | H.Umehara | T.Mizoguchi | T.Ono    |          |
| Unless otherwise specified, refer to JIS C 5402.               |                                                                                                                                                                                                                  | 04.03.25                                                                                                                | 04.03.25  | 04.03.25    | 04.03.25 |          |
| Note QT:Qualification Test AT:Assurance Test ×:Applicable Test |                                                                                                                                                                                                                  |                                                                                                                         |           |             |          |          |
| <b>HS</b> HIROSE ELECTRIC CO., LTD.                            |                                                                                                                                                                                                                  | SPECIFICATION SHEET                                                                                                     |           | PART NO.    |          |          |
| CODE NO.(OLD)                                                  |                                                                                                                                                                                                                  | DRAWING NO.                                                                                                             |           | PART NO.    |          |          |
| CL                                                             |                                                                                                                                                                                                                  | ELC4-303206-01                                                                                                          |           | CL541       |          |          |
|                                                                |                                                                                                                                                                                                                  |                                                                                                                         |           | 1/1         |          |          |