

|   |       |                          |    |      |      |   |       |                          |    |      |      |
|---|-------|--------------------------|----|------|------|---|-------|--------------------------|----|------|------|
|   | 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 CONTACT        | —                |
|                     | CURRENT                     | 3 A                     | APPLICABLE CONNECTOR      | DF1B-*DS-2.5RC   |
|                     |                             |                         | APPLICABLE CABLE          | —                |

### SPECIFICATIONS

| ITEM | TEST METHOD | REQUIREMENTS | QT | AT |
|------|-------------|--------------|----|----|
|------|-------------|--------------|----|----|

|                     |                                       |                       |   |   |
|---------------------|---------------------------------------|-----------------------|---|---|
| <b>CONSTRUCTION</b> |                                       |                       |   |   |
| GENERAL EXAMINATION | VISUALLY AND BY MEASURING INSTRUMENT. | ACCORDING TO DRAWING. | X | X |
| MARKING             | CONFIRMED VISUALLY.                   |                       | X | X |


|                                 |                         |                            |   |   |
|---------------------------------|-------------------------|----------------------------|---|---|
| <b>ELECTRIC CHARACTERISTICS</b> |                         |                            |   |   |
| CONTACT RESISTANCE              | 100 mA (DC OR 1000 Hz). | 30 mΩ MAX.                 | X | — |
| INSULATION RESISTANCE           | 500 VDC.                | 1000 MΩ MIN.               | X | — |
| VOLTAGE PROOF                   | 650V AC FOR 1 min.      | NO FLASHOVER OR BREAKDOWN. | X | — |

|                                   |   |   |   |   |
|-----------------------------------|---|---|---|---|
| <b>MECHANICAL CHARACTERISTICS</b> |   |   |   |   |
| MECHANICAL OPERATION              | 50 TIMES INSERTIONS AND EXTRACTIONS.  | ① CONTACT RESISTANCE: 30 mΩ MAX.<br>② NO DAMAGE, CRACK OR LOOSENESS OF PARTS. | X | — |
| VIBRATION                         | FREQUENCY 10 TO 55 Hz, SINGLE AMPLITUDE 0.75 mm, - m/s <sup>2</sup> AT 2 h, FOR 3 DIRECTIONS. | ① NO ELECTRICAL DISCONTINUITY OF 1 μs.  | X | — |
| SHOCK                             | 490 m/s <sup>2</sup> DURATION OF PULSE 11 ms AT 3 TIMES FOR 3 DIRECTIONS.                     | ② CONTACT RESISTANCE: 30 mΩ MAX.<br>③ NO DAMAGE, CRACK OR LOOSENESS OF PARTS. | X | — |

|                                      |  |   |   |   |
|--------------------------------------|--|---|---|---|
| <b>ENVIRONMENTAL CHARACTERISTICS</b> |  |   |   |   |
| RAPID CHANGE OF TEMPERATURE          | TEMPERATURE -55→ 5~35 →+85→ 5~35 °C<br>TIME 30→10~15→ 30 →10~15 min<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. | X | — |
| DAMP HEAT (STEADY STATE)             | EXPOSED AT 40 ± 2 °C, 90 ~ 95 %, 96 h.   | ① CONTACT RESISTANCE: 30 mΩ MAX.<br>② INSULATION RESISTANCE: 500 MΩ MIN.<br>③ NO DAMAGE, CRACK OR LOOSENESS OF PARTS. | X | — |
| RESISTANCE TO SOLDERING HEAT         | SOLDER TEMPERATURE, 250°C, FOR IMMERSION, DURATION, 10 s.                              | NO DEFORMATION OF CASE OF EXCESSIVE LOOSENESS OF THE TERMINALS.   | X | — |
| SOLDERABILITY                        | SOLDERED AT SOLDER TEMPERATURE, 230±3 °C FOR INSERTION DURATION, 3 s.                  | SOLDER SHALL COVER A MINIMUM OF 95 % OF THE SURFACE BEING IMMersed.   | X | — |

|  |                       |                      |                    |                    |          |
|--|-----------------------|----------------------|--------------------|--------------------|----------|
| REMARKS  | DRAWN                 | DESIGNED             | CHECKED            | APPROVED           | RELEASED |
| NOTE1: INCLUDE THE TEMPERATURE RISING BY CURRENT.  | <i>M. Kurumadachi</i> | <i>T. Kurumazawa</i> | <i>T. Miyazaki</i> | <i>T. Miyazaki</i> |          |
| Unless otherwise specified, refer to MIL-STD-1344. | 03.03.14              | 03.03.14             | 03.03.14           | 03.03.14           |          |

Note QT:Qualification Test AT:Assurance Test X:Applicable Test

|   |                      |                     |          |                        |
|---|----------------------|---------------------|----------|------------------------|
|  | HIROSE ELECTRIC CO., | SPECIFICATION SHEET | PART NO. | DF1B- * DP-2.5DSA (01) |
|   | CODE NO.(OLD)        | DRAWING NO.         | PART NO. |                        |
| CL  | ELC4-071800-01       | CL541               |          | 1/1                    |

Apr.1.2017 Copyright 2017 HIROSE ELECTRIC CO., LTD. All Rights Reserved.

TO