

In case of consideration for using Autom otive equipm ent/device which dem and high reliability, kindly contactour sales w indow correspondents.

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| TO |
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| 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) |
|                           | VOLTAGE                     | 250 V AC                |
|                           | CURRENT                     | 3 A                     |
| STORAGE TEMPERATURE RANGE |                             | -10 °C TO +60 °C        |
| APPLICABLE CONNECTOR      |                             | DF1B-*DS-2.5RC          |

**SPECIFICATIONS**

**REQUIREMENTS**

Q/T AT

**CONSTRUCTION**

|                     |                                       |                       |   |   |
|---------------------|---------------------------------------|-----------------------|---|---|
| GENERAL EXAMINATION | VISUALLY AND BY MEASURING INSTRUMENT. | ACCORDING TO DRAWING. | X | X |
| MARKING             | CONFIRMED VISUALLY.                   |                       | X | X |

**ELECTRIC CHARACTERISTICS**

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

**MECHANICAL CHARACTERISTICS**

|                      |  |   |   |   |
|----------------------|--|---|---|---|
| MECHANICAL OPERATION | 30 TIMES INSERTIONS AND EXTRACTATIONS.                                     | 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, AT 2 h, FOR 3 DIRECTIONS. | ① NO ELECTRICAL DISCONTINUITY OF 1 μs.<br>② NO DAMAGE, CRACK OR LOOSENESS OF PARTS.                                     | X | — |
| 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. | X | — |

**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 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. | X | — |
| 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. | X | — |
| 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, SOLDERING TIME : 3 sec.<br>NO STRENGTH ON CONTACT. | NO DEFORMATION OF CASE OF EXCESSIVE LOOSENESS OF THE TERMINALS.  | X | — |

|               |   |  |   |   |
|---------------|---|--|---|---|
| SOLDERABILITY | SOLDERED AT SOLDER TEMPERATURE, 235 °C FOR INSERTION DURATION, 5 s. | SOLDER SHALL COVER A MINIMUM OF 95 % OF THE SURFACE BEING IMMERSERD. | X | — |
|---------------|---|--|---|---|

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|---------|---|--|--|--|
| REMARKS | NOTE1: INCLUDE THE TEMPERATURE RISING BY CURRENT. |  |  |  |
|---------|---|--|--|--|

Unless otherwise specified, refer to JIS C 5402.

|       |           |          |                  |         |                    |          |                |          |
|-------|-----------|----------|------------------|---------|--------------------|----------|----------------|----------|
| DRAWN | F.Matsuki | DESIGNED | <i>H. Uehara</i> | CHECKED | <i>T. Miyamoto</i> | APPROVED | <i>T. Goto</i> | RELEASED |
|       | '04.03.25 |          | '04.03.25        |         | '04.03.25          |          | '04.03.25      |          |

|            |                           |                   |                     |
|------------|---------------------------|-------------------|---------------------|
| Code       | QT:Qualification Test     | AT:Assurance Test | X:Applicable Test   |
| <b>HRS</b> | HIROSE ELECTRIC CO., LTD. |                   | SPECIFICATION SHEET |
|            | PART NO.                  |                   | DF1BZ.* DP-2.5DS    |

|               |                |          |   |
|---------------|----------------|----------|---|
| CODE NO.(OLD) | DRAWING NO.    | PART NO. | 1 |
| CL            | ELC4-305815-01 | CL541    | 1 |

