

| APPLICABLE STANDARD |                             |  |                           |                       |
|---------------------|-----------------------------|--|---------------------------|-----------------------|
| RATING              | OPERATING TEMPERATURE RANGE | -35°C TO +85°C(NOTE1)                                    | STORAGE TEMPERATURE RANGE | -10°C TO +60°C(NOTE3) |
|                     | OPERATING HUMIDITY RANGE    | 40% TO 80%(NOTE2)  | STORAGE HUMIDITY RANGE    | 40% TO 70%(NOTE3)     |
|                     | VOLTAGE                     | AC 250V  | APPLICABLE CONTACT        | DF1B-*S-2.5R          |
|                     | CURRENT                     | AWG20 TO 24: 3A<br>AWG26: 2A<br>AWG28: 1A<br>AWG30: 0.5A |                           |                       |

### SPECIFICATIONS

| ITEM | TEST METHOD | REQUIREMENTS | QT | 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 1000HZ). | 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 | 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, 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 NO DAMAGE, CRACK OR LOOSENESS OF PARTS.                                     | X | - |

#### ENVIRONMENTAL CHARACTERISTICS

|                              |   |   |   |   |
|------------------------------|---|---|---|---|
| DAMP HEAT (STEADY STATE)     | EXPOSED AT 40 ± 2 °C, 90 TO 95 %, 96 h.   | ① CONTACT RESISTANCE: 30 mΩ MAX.<br>② INSULATION RESISTANCE: 1000 MΩ MIN. | X | - |
| RAPID CHANGE OF TEMPERATURE  | TEMPERATURE -55 →5 TO 35 →+85→5 TO35°C<br>TIME 30 → 10 → 30 → 10min<br>UNDER 5 CYCLES.  | 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,<br>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 ±5°C FOR INSERTION DURATION, 3s.  | SOLDER SHALL COVER MINIMUM OF 95 % OF THE SURFACE BEING IMMERSSED.        | X | - |

#### REMARKS

NOTE1: INCLUDING THE TEMPERATURE RISE BY CURRENT.

NOTE2:NO CONDENSING.

NOTE3:APPLY TO THE CONDITION OF LONG TERM STORAGE FOR UNUSED PRODUCTS BEFORE PCB ON BOARD,  
AFTER PCB BOARD,OPERATING TEMPERATURE AND HUMIDITY RANGE IS APPLIED FOR INTERIM STORAGE DURING TRANSPORTATION.

| △ | COUNT | DESCRIPTION OF REVISIONS | DESIGNED | CHECKED | DATE |
|---|-------|--------------------------|----------|---------|------|
|---|-------|--------------------------|----------|---------|------|

Unless otherwise specified, refer to JIS C 5402.

|          |             |          |
|----------|-------------|----------|
| APPROVED | TY.OMA      | 06.08.05 |
| CHECKED  | HK.UMEHARA  | 06.08.05 |
| DESIGNED | AH.MIYAZAKI | 06.08.05 |
| DRAWN    | AK.MIURA    | 06.08.05 |

|  |             |                |
|--|-------------|----------------|
| Note QT:Qualification Test AT:Assurance Test X:Applicable Test | DRAWING NO. | ELC4-071798-01 |
|--|-------------|----------------|

|            |                           |          |                     |   |     |
|------------|---------------------------|----------|---------------------|---|-----|
| <b>HRS</b> | SPECIFICATION SHEET       | PART NO. | DF1B-*P-2.5DSA (01) |   |     |
|            | HIROSE ELECTRIC CO., LTD. | CODE NO. | CL541               | △ | 1/1 |