

|                            |                             |                          |                           |                          |
|----------------------------|-----------------------------|--------------------------|---------------------------|--------------------------|
| <b>APPLICABLE STANDARD</b> |                             |                          |                           |                          |
| <b>RATING</b>              | OPERATING TEMPERATURE RANGE | -35 °C TO +85 °C(NOTE 1) | STORAGE TEMPERATURE RANGE | -10 °C TO +60 °C(NOTE 3) |
|                            | OPERATING HUMIDITY RANGE    | 40% TO 80%(NOTE 2)       | STORAGE HUMIDITY RANGE    | 40% TO 70%(NOTE 3)       |
|                            | VOLTAGE                     | AC 250 V                 | CURRENT                   | 0.5A                     |
|                            | APPLICABLE CABLE            | UL1007,UL1061 : AWG30    |                           |                          |

### 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 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

|   |  |  |   |   |
|---|--|--|---|---|
| CONTACT RESISTANCE MILLIVOLT LEVEL METHOD | □0.635±0.002 BY STEEL GAUGE.   | INSERTION FORCE 4.4 N MAX.<br>EXTRACTION FORCE 0.44 N MAX                            | X | — |
| MECHANICAL OPERATION                      | 30 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 1μs.<br>② NO DAMAGE, CRACK AND LOOSENESS, OF PARTS. | X | — |
| SHOCK                                     | 490 m/s <sup>2</sup> DURATION OF PULSE 11 ms AT 3 TIMES FOR 3 DIRECTIONS.  |  | 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 NO DAMAGE, CRACK OR LOOSENESS OF PARTS. | X | — |
| RAPID CHANGE OF TEMPERATURE | TEMPERATURE -55→ 5 TO 35→85→ 5 TO 35°C<br>TIME 30→ 10 → 30→ 10 min<br>UNDER 5 CYCLES. |  | X | — |


#### REMARKS

NOTE1:INCLUDING THE TEMPERATURE RISING BY CURRENT.  
 NOTE2:NO CONDENSING.  
 NOTE3:APPLY TO THE CONDITION OF LONG TERM STORAGE FOR UNUSED PRODUCTS BEFORE PCB ON BOARD AFTER PCBBOARD , OPERATING TEMPERATURE AND HUMIDITY RANGE IS APPLIED FOR INTERM STORAGE DURING TRANSPORTATION.

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

|  |          |             |          |
|--|----------|-------------|----------|
|  Unless otherwise specified, refer to JIS C 5402. | APPROVED | TS. SAKATA  | 07.08.29 |
|  | CHECKED  | HK. UMEHARA | 07.08.29 |
|  | DESIGNED | KT. ISHII   | 07.08.27 |
|  | DRAWN    | KT. ISHII   | 07.08.27 |

Note QT:Qualification Test AT:Assurance Test X:Applicable Test DRAWING NO. ELC4-080534-01

|            |                           |          |                 |   |     |
|------------|---------------------------|----------|-----------------|---|-----|
| <b>HRS</b> | SPECIFICATION SHEET       | PART NO. | DF1B-30SCF      |   |     |
|            | HIROSE ELECTRIC CO., LTD. | CODE NO. | CL541-0682-9-00 |  | 1/1 |