

| APPLICABLE STANDARD |                             |                           |                           |                       |
|---------------------|-----------------------------|---------------------------|---------------------------|-----------------------|
| RATING              | OPERATING TEMPERATURE RANGE | -35 °C TO +85 °C (NOTE 1) | STORAGE TEMPERATURE RANGE | -10 °C TO +60 °C      |
|                     | VOLTAGE                     | 30V AC                    | APPLICABLE CONNECTOR      | DF30*-44DP-0. 4V (**) |
|                     | CURRENT                     | 0. 3A                     |                           |                       |

### 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    | 100m A (DC OR 1000 Hz). | 100mΩ MAX.                 | X | - |
| INSULATION RESISTANCE | 100V DC.                | 50MΩ MIN.                  | X | - |
| VOLTAGE PROOF         | 100V AC FOR 1 min.      | NO FLASHOVER OR BREAKDOWN. | X | - |

#### MECHANICAL CHARACTERISTICS

|                      |   |   |   |   |
|----------------------|---|---|---|---|
| MECHANICAL OPERATION | 50 TIMES INSERTIONS AND EXTRACTIONS.  | ① CONTACT RESISTANCE: 100mΩ MAX.<br>② NO DAMAGE, CRACK OR LOOSENESS OF PARTS.       | X | - |
| VIBRATION            | FREQUENCY 10 TO 55 Hz, SINGLE AMPLITUDE 0.75 mm, 10 CYCLES OF EACH 3 AXIAL DIRECTION FOR 5 min. | 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 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→10 TO 15→30→10 TO 15min<br>UNDER 5 CYCLES. | ① CONTACT RESISTANCE: 100mΩ MAX.<br>② INSULATION RESISTANCE: 50MΩ MIN.<br>③ NO DAMAGE, CRACK OR LOOSENESS OF PARTS. | X | - |
| DAMP HEAT (STEADY STATE)    | EXPOSED AT 40 ± 2 °C, 90 TO 95 %, 96 h.  | ① CONTACT RESISTANCE: 100mΩ MAX.<br>② INSULATION RESISTANCE: 25MΩ MIN.<br>③ NO DAMAGE, CRACK OR LOOSENESS OF PARTS. | X | - |
| CORROSION SALT MIST         | EXPOSED IN 5% SALT WATER SPPAY FOR 48h.<br>(TEST STANDARD: IEC60068)                           | ① CONTACT RESISTANCE: 100mΩ MAX.<br>② NO HEAVY CORROSION.   | X | - |
| SULPHUR DIOXIDE             | EXPOSED IN 25 PPM FOR 96h.<br>(TEST STANDARD: IEC60068)  | ① CONTACT RESISTANCE: 100mΩ MAX.<br>② NO HEAVY CORROSION.   | X | - |

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

|   |          |              |            |
|---|----------|--------------|------------|
| REMARKS<br>NOTE1: INCLUDE THE TEMPERATURE RISING BY CURRENT<br><br>Unless otherwise specified, refer to IEC60512. | APPROVED | MO. NAKAMURA | 07. 05. 11 |
|   | CHECKED  | TS. MIYAZAKI | 07. 05. 10 |
|   | DESIGNED | TH. YAMAMOTO | 07. 05. 10 |
|   | DRAWN    | NM. SATO     | 07. 05. 10 |

|  |             |                |
|--|-------------|----------------|
| Note QT:Qualification Test AT:Assurance Test X:Applicable Test | DRAWING NO. | ELC4-315941-01 |
|--|-------------|----------------|

|            |                           |          |                        |
|------------|---------------------------|----------|------------------------|
| <b>HRS</b> | SPECIFICATION SHEET       | PART NO. | DF30FB-44DS-0. 4V (81) |
|            | HIROSE ELECTRIC CO., LTD. | CODE NO. | CL684-1295-4-81        |