

|                            |                             |                           |                           |                         |
|----------------------------|-----------------------------|---------------------------|---------------------------|-------------------------|
| <b>APPLICABLE STANDARD</b> |                             |                           |                           |                         |
| <b>RATING</b>              | OPERATING TEMPERATURE RANGE | -40 °C TO +85 °C(NOTE1)△2 | STORAGE TEMPERATURE RANGE | -10 °C TO +60 °C(NOTE2) |
|                            | OPERATING TEMPERATURE RANGE | 40 % TO 80 %              | STORAGE TEMPERATURE RANGE | 40 % TO 70 % (NOTE2)    |
|                            | VOLTAGE                     | 250 V AC                  | CURRENT                   | 2A                      |

### 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

|                      |  |  |   |   |
|----------------------|--|--|---|---|
| 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 1μs.<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.  |  | 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: 500 MΩ MIN.<br>③ 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 →5 TO 15 →30 →5 TO 15 min<br>UNDER 5 CYCLES.  | ① CONTACT RESISTANCE: 30 mΩ MAX.<br>② INSULATION RESISTANCE: 1000MΩ MIN.<br>③ NO DAMAGE, CRACK OR LOOSENESS OF PARTS. | X | — |
| RESISTANCE TO SOLDERING HEAT | 1)AUTOMATIC SOLDERING (FLOW)<br>SOLDER TEMPERATURE : 260±3°C FOR IMMERSION,DURATION : 10 sec.<br>2)MANUAL SOLDERING<br>SOLDERING IRON TEMPERATURE : 290±10°C<br>SOLDERING TIME : 2 sec.<br>NO STRENGTH ON CONTACT. | NO DEFORMATION OF CASE OF EXCESSIVE LOOSENESS OF THE TERMINALS.   | X | — |
| SOLDERABILITY                | SOLDERED AT SOLDER TEMPERATURE,240°C FOR IMMERSION DURATION,3 sec.   | SOLDER SHALL COVER A MINIMUM OF 95% OF THE SURFACE BEING IMMERSED   | X | — |

#### REMARKS

NOTE1:INCLUDE THE TEMPERATURE RISING BY CURRENT.  
NOTE2: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       |
|-------|--------------------------|--------------|-------------|------------|
| △ 1   | DIS-H-008540             | MI. SAKIMURA | HK. UMEHARA | 14. 02. 26 |

Unless otherwise specified, refer to IEC 60512.

|          |             |            |
|----------|-------------|------------|
| APPROVED | TY. OMA     | 06. 07. 26 |
| CHECKED  | HK. UMEHARA | 06. 07. 25 |
| DESIGNED | NS. HIROSE  | 06. 07. 25 |
| DRAWN    | AK. MIURA   | 06. 07. 24 |

|  |             |                |
|--|-------------|----------------|
| Note QT:Qualification Test AT:Assurance Test X:Applicable Test | DRAWING NO. | ELC4-162390-03 |
|--|-------------|----------------|

|            |                           |          |                   |       |
|------------|---------------------------|----------|-------------------|-------|
| <b>HRS</b> | SPECIFICATION SHEET       | PART NO. | DF11-*DP-2DS (52) |       |
|            | HIROSE ELECTRIC CO., LTD. | CODE NO. | CL543             | △ 1/1 |