

| APPLICABLE STANDARD | | | | |
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| RATING | OPERATING TEMPERATURE RANGE | -35°C TO + 85°C (NOTE1) | STORAGE TEMPERATURE RANGE | -10°C TO + 60°C (NOTE3) |
| | OPERATING HUMIDITY RANGE | 20 % TO 80 % (NOTE2) | STORAGE HUMIDITY RANGE | 40 % TO 70 % (NOTE3) |
| | VOLTAGE | AC/DC 100V | APPLICABLE CONNECTOR | DF50A-*S-1C |
| | CURRENT | AWG 28 : 1.0 A AWG 30 : 0.9 A | APPLICABLE CONTACT | DF50-2830SCFA |

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 |

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| ELECTRIC CHARACTERISTICS | | | | |
| CONTACT RESISTANCE | AC 20mV MAX 1mA (DC OR 1000 Hz). | 30mΩ MAX. | X | — |
| INSULATION RESISTANCE | 100V DC. | 500MΩ MIN. | X | — |
| VOLTAGE PROOF | 300V AC FOR 1 min. | NO FLASHOVER OR BREAKDOWN. | X | — |

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| MECHANICAL CHARACTERISTICS | | | | |
| MECHANICAL OPERATION | 30TIMES INSERTIONS AND EXTRACTIONS. | ① CONTACT RESISTANCE: 50mΩ MAX. ② NO DAMAGE, CRACK OR LOOSENESS OF PARTS. ③ NO ELECTRICAL DISCONTINUITY OF 1μs. ④ NO DAMAGE, CRACK OR LOOSENESS OF PARTS. | X | — |
| VIBRATION | FREQUENCY 10 TO 55 Hz, SINGLE AMPLITUDE 0.75 mm, AT 10 CYCLE FOR EACH, FOR 3 DIRECTIONS. | | X | — |
| SHOCK | 490 m/s ² DURATION OF PULSE 11 ms AT 3 TIMES FOR 3 DIRECTIONS. | | | |


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| ENVIRONMENTAL CHARACTERISTICS | | | | |
| DAMP HEAT (STEADY STATE) | EXPOSED AT 40 ± 2 °C, 90 TO 95 %, 96 h. | ① CONTACT RESISTANCE: 50mΩ MAX. ② INSULATION RESISTANCE: 100MΩ MIN. ③ NO DAMAGE, CRACK OR LOOSENESS OF PARTS. ④ CONTACT RESISTANCE: 50mΩ MAX. ⑤ INSULATION RESISTANCE: 500MΩ MIN. ⑥ NO DAMAGE, CRACK OR LOOSENESS OF PARTS. | X | — |
| RAPID CHANGE OF TEMPERATURE | TEMPERATURE -55→+85°C TIME 30→30min. UNDER 5 CYCLES. THE TRANSFERRING TIME OF THE TANK IS 2~3 min. | | X | — |

| COUNT | DESCRIPTION OF REVISIONS | DESIGNED | CHECKED | DATE |
|-------|--------------------------|----------|---------|------|
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| | APPROVED | KI. AKIYAMA | 12.06.26 |
| | CHECKED | HK. UMEHARA | 12.06.26 |
| | DESIGNED | ST. SATO | 12.06.26 |
| | DRAWN | ST. SATO | 12.06.26 |

Note QT:Qualification Test AT:Assurance Test X:Applicable Test DRAWING NO. ELC4-346572-01

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| HRS | SPECIFICATION SHEET | PART NO. | DF50A-*P-1H(51) | |
| | HIROSE ELECTRIC CO., LTD. | CODE NO. | CL665- | △ 1/2 |

| SPECIFICATIONS | | | | |
|--|--|--|----------|--|
| ITEM | TEST METHOD | REQUIREMENTS | QT | AT |
| SOLDERABILITY | SOLDERED AT SOLDER TEMPERATURE, 245°C FOR INSERTION DURATION, 5 sec. | SOLDER SHALL COVER A MINIMUM OF 95 % OF THE SURFACE BEING IMMersed. | X | — |
| RESISTANCE TO SOLDERING HEAT | 1) REFLOW SOLDERING 《REFLOW AREA》 MAX250°C WITHIN 10 sec MIN 220°C WITHIN 60 sec 《PREHEATING AREA》 150~180°C 90~120s 2) MANUAL SOLDERING SOLDERING IPON TEMPERATURE 350±10°C SOLDERING TIME 3~4s. NO STRENGTH ON CONTACT. | NO DEFORMATION OF CASE OF EXCESSIVE LOOSENESS OF THE TERMINALS. | X | — |
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| REMARKS NOTE 1: INCLUDING THE TEMPERATURE RISE BY CURRENT. NOTE 2: NON-CONDENSING NOTE 3: 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 | | | | |
| Unless otherwise specifid , refer to JIS C 5402. | | | | |
| Note QT:Qualification Test AT:Assurance Test X:Applicable Test | | DRAWING NO. | | ELC4-346572-01 |
| HRS | SPECIFICATION SHEET | | PART NO. | DF50A-*P-1H(51) |
| | HIROSE ELECTRIC CO., LTD. | | CODE NO | CL665-  2/2 |