







THE DATASHEET OF DF1B-2022SC



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| APPLICABLE STANDARD | | | | | |
|---|--|---|---------------------------|---|---|
| RATING | VOLTAGE | 250 V AC/DC | CURRENT | AWG20 : 5 A AWG22 : 3 A | |
| | OPERATING TEMPERATURE RANGE | -35 °C TO +85 °C(NOTES 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) | |
| | APPLICABLE CABLE  | UL1007: 20-22 AWG | APPLICABLE CONNECTOR | DF1B-*S-2.5R DF1B-*DS-2.5RC DF1B-*(D)ES-2.5RC | |
| 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 MILLIVOLT LEVEL METHOD | 100 mA (DC OR 1000Hz). | 30 mΩ MAX. | X | - | |
| MECHANICAL CHARACTERISTICS | | | | | |
| CONTACT INSERTION AND EXTRACTION FORCE | <input type="checkbox"/> 0.635±0.002mm BY STEEL GAUGE. | INSERTION FORCE : 4.4 N MAX. EXTRACTION FORCE : 0.44 N MIN. | X | - | |
| MECHANICAL OPERATION | 30 TIMES INSERTIONS AND EXTRACTIONS. | ① CONTACT RESISTANCE: 30 mΩ MAX. 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. ② NO DAMAGE, CRACK OR LOOSENESS OF PARTS. | X | - | |
| SHOCK | 490 m/s ² DURATION OF PULSE 11 ms AT 3 TIMES FOR 3 DIRECTIONS. | | | | |
| ENVIRONMENTAL CHARACTERISTICS | | | | | |
| RAPID CHANGE OF TEMPERATURE | TEMPERATURE -55→5 TO 35→+85→5 TO35 °C TIME 30 →5 →30 →5 min UNDER 5 CYCLES. | ① CONTACT RESISTANCE: 30 mΩ MAX. ② 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: 30 mΩ MAX. ② NO DAMAGE, CRACK OR LOOSENESS OF PARTS. | X | - | |
| REMARKS | | | | | |
| NOTE 1:INCLUDING THE TEMPERATURE RISING BY CURRENT NOTE 2:NO CONDENSING. NOTE 3:APPLY TO THE CONDITION OF LONG TERM STORAGE FOR UNUSED PRODUCTS BEFORE MOUNTED ON PCB, AFTER MOUNTED ON PCB, OPERATINGTEMPERATURE AND HUMIDITY RANGE IS APPLIED FOR INTERIM STORAGE DURING TRANSPORTATION. | | | | | |
|  | COUNT | DESCRIPTION OF REVISIONS | DESIGNED | CHECKED | DATE |
| | 1 | | SN. MIWA | SZ. ONO | 20190508 |
| Unless otherwise specified, refer to IEC 60512. | | | APPROVED | KJ. KATAYOSE | 20050105 |
| | | | CHECKED | TY. OMA | 20050105 |
| | | | DESIGNED | TS. KUMAZAWA | 20050105 |
| | | | DRAWN | TS. KUMAZAWA | 20050105 |
| Note QT:Qualification Test AT:Assurance Test X:Applicable Test | | | DRAWING NO. | ELC-020461-00-00 | |
|  | SPECIFICATION SHEET | | PART NO. | DF1B-2022SC | |
| | HIROSE ELECTRIC CO., LTD. | | CODE NO. | CL541-0224-4-00 |  1/1 |

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