







# THE DATASHEET OF DF1B-2022SC



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| APPLICABLE STANDARD   |  |   |                           |   |   |
|---|--|---|---------------------------|---|---|
| RATING  | VOLTAGE  | 250 V AC/DC   | CURRENT                   | AWG20 : 5 A<br>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<br>DF1B-*DS-2.5RC<br>DF1B-*(D)ES-2.5RC |   |
| SPECIFICATIONS  |  |   |                           |   |   |
| ITEM  | TEST METHOD  | REQUIREMENTS  | QT                        | AT  |   |
| <b>CONSTRUCTION</b>   |  |   |                           |   |   |
| GENERAL EXAMINATION   | VISUALLY AND BY MEASURING INSTRUMENT.  | ACCORDING TO DRAWING.   | X                         | X   |   |
| MARKING   | CONFIRMED VISUALLY.  |   | X                         | X   |   |
| <b>ELECTRIC CHARACTERISTICS</b>   |  |   |                           |   |   |
| CONTACT RESISTANCE MILLIVOLT LEVEL METHOD   | 100 mA (DC OR 1000Hz).   | 30 mΩ MAX.  | X                         | -   |   |
| <b>MECHANICAL CHARACTERISTICS</b>   |  |   |                           |   |   |
| CONTACT INSERTION AND EXTRACTION FORCE  | <input type="checkbox"/> 0.635±0.002mm BY STEEL GAUGE.   | INSERTION FORCE : 4.4 N MAX.<br>EXTRACTION FORCE : 0.44 N MIN.                      | 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 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.                          |   |                           |   |   |
| <b>ENVIRONMENTAL CHARACTERISTICS</b>  |  |   |                           |   |   |
| RAPID CHANGE OF TEMPERATURE   | TEMPERATURE -55→5 TO 35→+85→5 TO35 °C<br>TIME 30 →5 →30 →5 min<br>UNDER 5 CYCLES.                  | ① CONTACT RESISTANCE: 30 mΩ MAX.<br>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.<br>② NO DAMAGE, CRACK OR LOOSENESS OF PARTS.       | X                         | -   |   |
| <b>REMARKS</b>  |  |   |                           |   |   |
| 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,<br>AFTER MOUNTED ON PCB, OPERATINGTEMPERATURE AND HUMIDITY RANGE IS APPLIED<br>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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