



**THE DATASHEET OF
DF1B-24DP-2.5DSA(01)**



Jul.1.2024 Copyright 2024 HIROSE ELECTRIC CO., LTD. All Rights Reserved.
 In case of consideration for using Automotive equipment / device which demand high reliability, kindly contact our sales window correspondents.

| COUNT | DESCRIPTION OF REVISIONS | BY | CHKD | DATE | COUNT | DESCRIPTION OF REVISIONS | BY | CHKD | DATE |
|--|-----------------------------|---|------|------|---|----------------------------------|--------------------------------|------------------------------------|-----------|
| △ | | | | | △ | | | | |
| △ | | | | | △ | | | | |
| APPLICABLE STANDARD | | | | | | | | | |
| RATING | OPERATING TEMPERATURE RANGE | -35 °C TO +85 °C(NOTE1) | | | STORAGE TEMPERATURE RANGE | -10 °C TO +60 °C | | | |
| | VOLTAGE | 250 V AC | | | APPLICABLE CONTACT | — | | | |
| | CURRENT | 3 A | | | APPLICABLE CONNECTOR | DF1B-*DS-2.5RC | | | |
| | | | | | APPLICABLE CABLE | — | | | |
| 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 VDC. | | | 1000 MΩ MIN. | | | x | — |
| VOLTAGE PROOF | | 650V AC FOR 1 min. | | | NO FLASHOVER OR BREAKDOWN. | | | x | — |
| MECHANICAL CHARACTERISTICS | | | | | | | | | |
| MECHANICAL OPERATION | | 50 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, - m/s ² AT 2 h, FOR 3 DIRECTIONS. | | | ① NO ELECTRICAL DISCONTINUITY OF 1 μs. | | | x | — |
| SHOCK | | 490 m/s ² DURATION OF PULSE 11 ms AT 3 TIMES FOR 3 DIRECTIONS. | | | ② CONTACT RESISTANCE: 30 mΩ MAX. ③ NO DAMAGE, CRACK OR LOOSENESS OF PARTS. | | | x | — |
| ENVIRONMENTAL CHARACTERISTICS | | | | | | | | | |
| RAPID CHANGE OF TEMPERATURE | | TEMPERATURE -55→ 5~35 →+85→ 5~35 °C TIME 30→10~15→ 30 →10~15 min UNDER 5 CYCLES. | | | ① CONTACT RESISTANCE: 30 mΩ MAX. ② INSULATION RESISTANCE: 500 MΩ MIN. ③ NO DAMAGE, CRACK OR LOOSENESS OF PARTS. | | | x | — |
| DAMP HEAT (STEADY STATE) | | EXPOSED AT 40 ± 2 °C, 90 ~ 95 %, 96 h. | | | ① CONTACT RESISTANCE: 30 mΩ MAX. ② INSULATION RESISTANCE: 500 MΩ MIN. ③ NO DAMAGE, CRACK OR LOOSENESS OF PARTS. | | | x | — |
| RESISTANCE TO SOLDERING HEAT | | SOLDER TEMPERATURE, 250°C, FOR IMMERSION, DURATION, 10 s. | | | NO DEFORMATION OF CASE OF EXCESSIVE LOOSENESS OF THE TERMINALS. | | | x | — |
| SOLDERABILITY | | SOLDERED AT SOLDER TEMPERATURE, 230±3 °C FOR INSERTION DURATION, 3 s. | | | SOLDER SHALL COVER A MINIMUM OF 95 % OF THE SURFACE BEING IMMersed. | | | x | — |
| REMARKS | | | | | | | | | |
| NOTE1: INCLUDE THE TEMPERATURE RISING BY CURRENT. | | | | | DRAWN | DESIGNED | CHECKED | APPROVED | RELEASED |
| | | | | | <i>M. Kurumadachi</i> 03.03.14 | <i>T. Kurumazumi</i> 03.03.14 | <i>T. Hiyajiki</i> 03.03.14 | <i>T. Hiyajiki</i> 03.03.14 | |
| Unless otherwise specified, refer to MIL-STD-1344. | | | | | | | | | |
| Note QT:Qualification Test AT:Assurance Test X:Applicable Test | | | | | | | | | |
| HRS LTD. | | HIROSE ELECTRIC CO., | | | SPECIFICATION SHEET | | | PART NO. DF1B- * DP-2.5DSA (01) | |
| CODE NO.(OLD) CL | | DRAWING NO. ELC4-071800-01 | | | PART NO. CL541 | | | 1 | 1 |

| |
|----|
| TO |
| |
| |
| |

Looking for pricing, stock, or lifecycle information?

Click below to explore more details on WIN SOURCE:

- [View DF1B-24DP-2.5DSA\(01\) on WIN SOURCE](#)
- [Hirose Electric Co Ltd Information](#)

Optimize Your Supply Chain with WIN SOURCE Solutions

- ✓ Global Sourcing Solution
- ✓ Obsolete Management
- ✓ Cost Control Management
- ✓ Shortage Management
- ✓ Alternative Solution
- ✓ Excess Inventory Management