



**THE DATASHEET OF  
DF1BZ-8P-2.5DSA**



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TO

| COUNT  | DESCRIPTION OF REVISIONS    | BY   | CHKD           | DATE | COUNT   | DESCRIPTION OF REVISIONS | BY             | CHKD              | DATE            |
|--|-----------------------------|--|----------------|------|---|--------------------------|----------------|-------------------|-----------------|
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| △  |                             |  |                |      | △   |                          |                |                   |                 |
| <b>APPLICABLE STANDARD</b>                                     |                             |  |                |      |   |                          |                |                   |                 |
| <b>RATING</b>  | OPERATING TEMPERATURE RANGE | -35 °C TO +85 °C(NOTE1)  |                |      | STORAGE TEMPERATURE RANGE   | -10 °C TO +60 °C         |                |                   |                 |
|  | VOLTAGE                     | 250 V AC   |                |      | APPLICABLE CONNECTOR  | DF1B-*S-2.5R             |                |                   |                 |
|  | CURRENT                     | 3 A  |                |      |   |                          |                |                   |                 |
| <b>SPECIFICATIONS</b>  |                             |  |                |      |   |                          |                |                   |                 |
| <b>ITEM</b>  |                             | <b>TEST METHOD</b>   |                |      | <b>REQUIREMENTS</b>   |                          |                | <b>QT</b>         | <b>AT</b>       |
| <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   |                             | 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                 | —               |
| <b>MECHANICAL CHARACTERISTICS</b>                              |                             |  |                |      |   |                          |                |                   |                 |
| 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.  |                |      | ① NO ELECTRICAL DISCONTINUITY OF 1 μs.<br>② CONTACT RESISTANCE: 30 mΩ MAX.<br>③ NO DAMAGE, CRACK OR LOOSENESS OF PARTS. |                          |                | X                 | —               |
| <b>ENVIRONMENTAL CHARACTERISTICS</b>                           |                             |  |                |      |   |                          |                |                   |                 |
| RAPID CHANGE OF TEMPERATURE                                    |                             | TEMPERATURE -55→ 5 TO 35→+85→ 5 TO 35 °C<br>TIME 30→ 5 MAX → 30→ 5 MAX min<br>UNDER 5 CYCLES.  |                |      | ① CONTACT RESISTANCE: 30 mΩ MAX.<br>② INSULATION RESISTANCE: 1000 MΩ MIN.<br>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.<br>② INSULATION RESISTANCE: 1000 MΩ MIN.<br>③ NO DAMAGE, CRACK OR LOOSENESS OF PARTS.  |                          |                | X                 | —               |
| RESISTANCE TO SOLDERING HEAT                                   |                             | 1) AUTOMATIC SOLDERING (FLOW)<br>SOLDER TEMPERATURE, 260 °C FOR IMMERSION, DURATION, 5 sec.<br>2) MANUAL SOLDERING<br>SOLDERING IRON TEMPERATURE : 300 °C,<br>SOLDERING TIME : 3 sec.<br>NO STRENGTH ON CONTACT. |                |      | NO DEFORMATION OF CASE OF EXCESSIVE LOOSENESS OF THE TERMINALS.   |                          |                | X                 | —               |
| SOLDERABILITY  |                             | SOLDERED AT SOLDER TEMPERATURE, 235 °C FOR INSERTION DURATION, 5 s.  |                |      | SOLDER SHALL COVER A MINIMUM OF 95 % OF THE SURFACE BEING IMMERSSED.  |                          |                | X                 | —               |
| <b>REMARKS</b>   |                             |  |                |      | <b>DRAWN</b>  | <b>DESIGNED</b>          | <b>CHECKED</b> | <b>APPROVED</b>   | <b>RELEASED</b> |
| NOTE1: INCLUDE THE TEMPERATURE RISING BY CURRENT.              |                             |  |                |      | F.Matsuki   | H. Unehara               | T. Mizoguchi   | T. Ono            |                 |
| Unless otherwise specified, refer to JIS C 5402.               |                             |  |                |      | '04.03.25   | 04.03.25                 | 04.03.25       | 04.03.25          |                 |
| Note QT:Qualification Test AT:Assurance Test X:Applicable Test |                             |  |                |      |   |                          |                |                   |                 |
| <b>HRS</b> HIROSE ELECTRIC CO., LTD.                           |                             |  |                |      | <b>SPECIFICATION SHEET</b>  |                          |                | PART NO.          |                 |
|  |                             |  |                |      |   |                          |                | DF1BZ- * P-2.5DSA |                 |
| CODE NO.(OLD)  |                             |  | DRAWING NO.    |      | PART NO.  |                          |                | 1/1               |                 |
| CL   |                             |  | ELC4-303206-01 |      | CL541   |                          |                |                   |                 |



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