

|   |       |                          |    |      |      |   |       |                          |    |      |      |
|---|-------|--------------------------|----|------|------|---|-------|--------------------------|----|------|------|
|   | 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 CONNECTOR      | DF1B-*S-2.5R     |
|                     | CURRENT                     | 3 A                     |                           |                  |

**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              | 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 IMMERSED.                                                    | X | — |

|                                                   |           |            |             |          |          |
|---------------------------------------------------|-----------|------------|-------------|----------|----------|
| REMARKS                                           | DRAWN     | DESIGNED   | CHECKED     | APPROVED | RELEASED |
| NOTE1: INCLUDE THE TEMPERATURE RISING BY CURRENT. | F.Matsuki | H. Umehara | T. Miyazaki | J. Ona   |          |
| 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 |                     | PART NO.         |     |
| <b>HRS</b> HIROSE ELECTRIC CO., LTD.                           | SPECIFICATION SHEET | DF1BZ- * P-2.5DS |     |
| CODE NO.(OLD)                                                  | DRAWING NO.         | PART NO.         | 1/1 |
| CL                                                             | ELC4-305814-01      | CL541            |     |

TO

