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|                                                                   |                             | DESCRIPTION OF REVISIONS                                                                         | BY | CHKD                        | DATE | COUNT                                                                                                                   |                                    |                                 | DESCRIPTION OF REVISIONS         | BY       | CHKD | DATE |
|-------------------------------------------------------------------|-----------------------------|--------------------------------------------------------------------------------------------------|----|-----------------------------|------|-------------------------------------------------------------------------------------------------------------------------|------------------------------------|---------------------------------|----------------------------------|----------|------|------|
| △                                                                 |                             |                                                                                                  |    |                             |      | △                                                                                                                       |                                    |                                 |                                  |          |      |      |
| △                                                                 |                             |                                                                                                  |    |                             |      | △                                                                                                                       |                                    |                                 |                                  |          |      |      |
| APPLICABLE STANDARD                                               |                             |                                                                                                  |    |                             |      |                                                                                                                         |                                    |                                 |                                  |          |      |      |
| RATING                                                            | OPERATING TEMPERATURE RANGE | - 3 5 °C TO 8 5 °C(NOTE1)                                                                        |    |                             |      | STORAGE TEMPERATURE RANGE                                                                                               | - 1 0 °C TO 6 0 °C                 |                                 |                                  |          |      |      |
|                                                                   | VOLTAGE                     | 5 0 V A C                                                                                        |    |                             |      | APPLICABLE CONNECTOR                                                                                                    | DF23A/C-10DS-0.5V                  |                                 |                                  |          |      |      |
|                                                                   | CURRENT                     | 0. 3 A                                                                                           |    |                             |      |                                                                                                                         |                                    |                                 |                                  |          |      |      |
| 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    |      |
| ELECTRICAL CHARACTERISTICS                                        |                             |                                                                                                  |    |                             |      |                                                                                                                         |                                    |                                 |                                  |          |      |      |
| CONTACT RESISTANCE                                                |                             | 100 mA (DC OR 1000 Hz).                                                                          |    |                             |      | 60 mΩ MAX.                                                                                                              |                                    |                                 |                                  | x        | —    |      |
| INSULATION RESISTANCE                                             |                             | 100 V DC.                                                                                        |    |                             |      | 500 MΩ MIN.                                                                                                             |                                    |                                 |                                  | x        | —    |      |
| VOLTAGE PROOF                                                     |                             | 150 V AC FOR 1 min.                                                                              |    |                             |      | NO FLASHOVER OR BREAKDOWN.                                                                                              |                                    |                                 |                                  | x        | —    |      |
| MECHANICAL CHARACTERISTICS                                        |                             |                                                                                                  |    |                             |      |                                                                                                                         |                                    |                                 |                                  |          |      |      |
| MECHANICAL OPERATION                                              |                             | 50 TIMES INSERTIONS AND EXTRACTIONS.                                                             |    |                             |      | ① CONTACT RESISTANCE: 60 mΩ MAX.<br>② NO DAMAGE, CRACK AND 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 AND 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 NO DAMAGE, CRACK AND LOOSENESS, OF PARTS.                                   |                                    |                                 |                                  | x        | —    |      |
| ENVIRONMENTAL CHARACTERISTICS                                     |                             |                                                                                                  |    |                             |      |                                                                                                                         |                                    |                                 |                                  |          |      |      |
| DAMP HEAT (STEADY STATE)                                          |                             | EXPOSED AT 40±2 °C, 90 TO 95 %, 96 h.                                                            |    |                             |      | ① CONTACT RESISTANCE: 60 mΩ MAX.<br>② INSULATION RESISTANCE: 250 MΩ MIN.<br>③ NO DAMAGE, CRACK AND LOOSENESS, OF PARTS. |                                    |                                 |                                  | x        | —    |      |
| RAPID CHANGE OF TEMPERATURE                                       |                             | TEMPERATURE: -55→ 5 TO 35→85→ 5 TO 35 °C<br>TIME: 30→10 TO 15→30→10 TO 15 min<br>UNDER 5 CYCLES. |    |                             |      | ① CONTACT RESISTANCE: 60 mΩ MAX.<br>② INSULATION RESISTANCE: 500 MΩ MIN.<br>③ NO DAMAGE, CRACK AND LOOSENESS, OF PARTS. |                                    |                                 |                                  | x        | —    |      |
| CORROSION SALT MIST                                               |                             | EXPOSED IN 5% SALT WATER SPRAY FOR 48 h.                                                         |    |                             |      | ① CONTACT RESISTANCE: 60 mΩ MAX.<br>② NO HEAVY CORROSION.                                                               |                                    |                                 |                                  | x        | —    |      |
| SULPHUR DIOXIDE                                                   |                             | EXPOSED IN 10 PPM FOR 96 h.<br>(TEST STANDARD:JEIDA-39)                                          |    |                             |      | ① CONTACT RESISTANCE: 60 mΩ MAX.<br>② NO HEAVY CORROSION.                                                               |                                    |                                 |                                  | x        | —    |      |
|                                                                   |                             |                                                                                                  |    |                             |      |                                                                                                                         |                                    |                                 |                                  |          |      |      |
| REMARKS<br>NOTE1: INCLUDE THE TEMPERATURE RISING BY CURRENT.      |                             |                                                                                                  |    |                             |      | DRAWN<br>T.Yamamoto<br>'05.1.25                                                                                         | DESIGNED<br>J.Yamamoto<br>'05.1.25 | CHECKED<br>T.Sakata<br>'05.1.25 | APPROVED<br>T.Sakata<br>'05.1.25 | RELEASED |      |      |
| Unless otherwise specified, refer to IEC60512                     |                             |                                                                                                  |    |                             |      |                                                                                                                         |                                    |                                 |                                  |          |      |      |
| Note QT: Qualification Test AT: Assurance Test x: Applicable Test |                             |                                                                                                  |    |                             |      |                                                                                                                         |                                    |                                 |                                  |          |      |      |
| HRS HIROSE ELECTRIC CO., LTD.                                     |                             |                                                                                                  |    |                             |      | SPECIFICATION SHEET                                                                                                     |                                    |                                 |                                  |          |      |      |
| CODE NO.(OLD)<br>CL                                               |                             |                                                                                                  |    |                             |      | PART NO.<br>DF23C-10DP-0.5V(91)                                                                                         |                                    |                                 |                                  |          |      |      |
| DRAWING NO.<br>ELC4-164008-12                                     |                             |                                                                                                  |    | CODE NO.<br>CL688-0806-1-91 |      |                                                                                                                         |                                    | 1/1                             |                                  |          |      |      |