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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-30DS-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                                        |                             |                                                                                                  |      |      |                     |                                                                                                                         |                    |                              |          |      |
| INSERTION AND WITHDRAWAL FORCES                                   |                             | MEASURED BY APPLICABLE CONNECTOR.                                                                |      |      |                     | INSERTION FORCE: 40 N MAX.<br>EXTRACTION FORCE: 4.5 N MIN.                                                              |                    |                              | x        | —    |
| 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                                                           |                             |                                                                                                  |      |      | DRAWN               | DESIGNED                                                                                                                | CHECKED            | APPROVED                     | RELEASED |      |
| NOTE1: INCLUDE THE TEMPERATURE RISING BY CURRENT.                 |                             |                                                                                                  |      |      | A. Hirota           | T. Yamamoto                                                                                                             | K. Hayama          | K. Hayama                    |          |      |
| Unless otherwise specified, refer to IEC60512.                    |                             |                                                                                                  |      |      | '03.7.25            | '03.7.25                                                                                                                | '03.7.25           | '03.7.25                     |          |      |
| Note QT: Qualification Test AT: Assurance Test x: Applicable Test |                             |                                                                                                  |      |      |                     |                                                                                                                         |                    |                              |          |      |
| HRS HIROSE ELECTRIC CO., LTD.                                     |                             |                                                                                                  |      |      | SPECIFICATION SHEET |                                                                                                                         |                    | PART NO. DF23C-30DP-0.5V(92) |          |      |
| CODE NO.(OLD)                                                     |                             | DRAWING NO.                                                                                      |      |      | CODE NO.            |                                                                                                                         |                    | 1/1                          |          |      |
| CL                                                                |                             | ELC4-164004-02                                                                                   |      |      | CL688-0802-0-92     |                                                                                                                         |                    |                              |          |      |