| APPLICA                     | BLE STAN           | IDARD  |                            |       |   |  |                 |                                       |  |       |
|-----------------------------|--------------------|--|----------------------------|-------|---|--|-----------------|---------------------------------------|--|-------|
| OPERATING<br>TEMPERATUR     |                    | RE RANGE -35°C TO 85°C (NOTE   |                            | TE 1) |   | STORAGE TEMPERATURE RANGE APPLICABLE CONNECTOR   |                 | -10°C TO 6                            | 0°C  |       |
| RATING                      | VOLTAGE<br>CURRENT |  | I SOVING I                 |       |   |  |                 | DF23C-10DS-0. 5\                      | / (**)   |       |
|                             |                    |  |                            |       | 10011   |  |                 |                                       |  |       |
|                             |                    |  | SPECI                      | FICA  | TIOI  | NS   | •               |                                       |  |       |
| l-                          | ГЕМ                |  | TEST METHOD                |       |   | REQUIREMENTS QT AT   |                 |                                       |  |       |
| CONSTR                      | RUCTION            |  |                            |       |   |  |                 |                                       |  |       |
| GENERAL E                   | XAMINATION         | VISUALLY AND BY MEASURING INSTRUMENT.                                      |                            |       | ACCORDING TO DRAWING.                                     |  |                 |                                       | Х  |       |
| MARKING                     |                    | CONFIRMED VISUALLY.  |                            |       |   |  |                 |                                       | Х  | Х     |
|                             | IC CHARA           |  |                            |       |   |  |                 |                                       |  |       |
| CONTACT RESISTANCE          |                    | 100m A (DC OR 1000 Hz).  |                            |       |   | 60mΩ MAX.  |                 |                                       |  | _     |
| INSULATION<br>RESISTANCE    |                    | 100V DC.   |                            |       |   | 500MΩ MIN.   |                 |                                       |  | -     |
| VOLTAGE PROOF               |                    | 150V AC FOR 1 min.   |                            |       | NO FLASHOVER OR BREAKDOWN.                                |  |                 |                                       | <del>                                     </del> |       |
| MECHAN                      | NICAL CH           | L<br>ARACTI  | ERISTICS                   |       |   |  |                 |                                       |  |       |
| INSERTION AND               |                    | MEASURED BY APPLICABLE CONNECTOR.  |                            |       |   | INSERTION FORCE: 20 N MAX.   |                 |                                       |  | Ι_    |
| WITHDRAWAL FORCES           |                    |  |                            |       | EXTRACTION FORCE: 1.5 N MIN.                              |  |                 |                                       |  |       |
| MECHANICAL<br>OPERATION     |                    | 50 TIMES INSERTIONS AND EXTRACTIONS.                                       |                            |       |   | ① CONTACT RESISTANCE: 60mΩ MAX.<br>② NO DAMAGE, CRACK AND LOOSENESS OF<br>PARTS.                                 |                 |                                       |  | -     |
| VIBRATION                   |                    | FREQUENCY 10 TO 55 Hz, SINGLE AMPLITUDE 0.75 mm, AT 2 h, FOR 3 DIRECTIONS. |                            |       |   | ① NO ELECTRICAL DISCONTINUITY OF 1μs.<br>② NO DAMAGE, CRACK AND LOOSENESS OF<br>PARTS.                           |                 |                                       |  | -     |
| SHOCK                       |                    | 490 m/s <sup>2</sup> DURATION OF PULSE 11 ms AT 3 TIMES FOR 3 DIRECTIONS.  |                            |       |   | NO ELECTRICAL DISCONTINUITY OF 1µs.     NO DAMAGE, CRACK AND LOOSENESS OF PARTS.                                 |                 |                                       |  | -     |
| ENVIRO                      | NMENTAL            | . CHAR   | ACTERISTICS                |       |   |  |                 |                                       |  |       |
| RAPID CHANGE OF             |                    | TEMPERATURE -55→ 5 TO 35→ 85→ 5 TO 35°C                                    |                            |       | _   |  | ANCE: 60mΩ MAX. | X                                     | <u> </u>   |       |
| TEMPERATURE                 |                    | TIME 30→10 TO 15→ 30→10TO15min UNDER 5 CYCLES.                             |                            |       |   | <ul> <li>(2) INSULATION RESISTANCE: 500 MΩ MIN.</li> <li>(3) NO DAMAGE, CRACK AND LOOSENESS OF PARTS.</li> </ul> |                 |                                       |  |       |
| DAMP HEAT<br>(STEADY STATE) |                    | EXPOSED AT 40 ± 2 °C, 90 TO 95 %, 96 h.                                    |                            |       |   | ① CONTACT RESISTANCE: 60mΩ MAX.<br>② INSULATION RESISTANCE: 250 MΩ MIN.  |                 |                                       |  | -     |
| ,                           |                    |  |                            |       | ③ NO DAMAGE, CRACK AND LOOSENESS OF PARTS.                |  |                 |                                       |  |       |
| CORROSION SALT MIST         |                    | EXPOSED IN 5% SALT WATER SPRAY FOR 48 h.                                   |                            |       | ① CONTACT RESISTANCE: 60 mΩ MAX.<br>② NO HEAVY CORROSION. |  |                 |                                       | -  |       |
| 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. |  |                 |                                       | -  |       |
|                             |                    | (TEST STANDARD.SEIDA-39)   |                            |       |   | © NO HEAVY CORROSION.  |                 |                                       |  |       |
|                             |                    |  |                            |       |   |  |                 |                                       |  |       |
|                             |                    |  |                            |       |   |  |                 |                                       |  |       |
|                             |                    |  |                            |       |   |  |                 |                                       |  |       |
|                             |                    |  |                            |       |   |  |                 |                                       |  |       |
|                             |                    |  |                            |       |   |  |                 |                                       |  |       |
|                             |                    |  | 1                          |       |   |  |                 |                                       | Д  |       |
| COUN                        | IT D               | ESCRIPTI   | SCRIPTION OF REVISIONS DES |       | DESIG   | GNED CHECKED   |                 | CHECKED                               | DA   | TE    |
| REMARKS                     |                    |  |                            |       |   |  | APPROVED        | KH. IKEDA                             | 07. 0  | 18 27 |
| NOTE1:INC                   | LUDING THE         | EMPERATURE RISING BY CURRENT.  |                            |       |   | CHECKED  | TS. MIYAZAKI    | 07. 0                                 |  |       |
| UNLESS C                    | THERWISE           | SPECIFIED,REFER TO IEC60512  |                            |       |   | DESIGNED   | ,               | 07. 0                                 |  |       |
| Note QT:Q                   | ualification Te    | t AT:Assurance Test X:Applicable Test                                      |                            |       | DF  | DRAWN DRAWING NO.  |                 | NM. SATO 07. 08. 27<br>ELC4-164008-05 |  |       |
| HS.                         |                    | PECIFICATION SHEET   |                            |       | PART NO.  |  |                 | DF23C-10DP-0. 5V (92)                 |  |       |
|                             |                    | HIROSE ELECTRIC CO., LTD.  |                            |       | CODE NO   |  | CL688-0806-1-92 |                                       |  | 1/1   |