

| APPLICABLE STANDARD                                                                                                                                                                                          |                             |                                                                                                                                                                                                                                                             |             |                                                                                                                      |                        |                                                   |     |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|----------------------------------------------------------------------------------------------------------------------|------------------------|---------------------------------------------------|-----|
| RATING                                                                                                                                                                                                       | OPERATING TEMPERATURE RANGE | -30°C TO 85°C (NOTE 1)                                                                                                                                                                                                                                      |             | STORAGE TEMPERATURE RANGE                                                                                            | -10°C TO 60°C (NOTE 2) |                                                   |     |
|                                                                                                                                                                                                              | OPERATING HUMIDITY RANGE    | 40% TO 80%                                                                                                                                                                                                                                                  |             | STORAGE HUMIDITY RANGE                                                                                               | 40% TO 70% (NOTE 2)    |                                                   |     |
|                                                                                                                                                                                                              | VOLTAGE                     | 250V AC                                                                                                                                                                                                                                                     |             | UL • CSA RATING                                                                                                      | VOLTAGE                | 30V AC                                            |     |
|                                                                                                                                                                                                              | CURRENT                     | AWG 22 TO 26 : 2A<br>AWG 28 : 1A<br>AWG 30 : 0.5A                                                                                                                                                                                                           |             |                                                                                                                      | CURRENT                | AWG 22 : 2A<br>AWG 24 TO 28 : 1A<br>AWG 30 : 0.5A |     |
| 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   |
| ELECTRIC CHARACTERISTICS                                                                                                                                                                                     |                             |                                                                                                                                                                                                                                                             |             |                                                                                                                      |                        |                                                   |     |
| CONTACT RESISTANCE                                                                                                                                                                                           |                             | 100mA (DC OR 1000 Hz).                                                                                                                                                                                                                                      |             | 30mΩ MAX.                                                                                                            |                        | X                                                 | —   |
| INSULATION RESISTANCE                                                                                                                                                                                        |                             | 500V DC.                                                                                                                                                                                                                                                    |             | 1000MΩ MIN.                                                                                                          |                        | X                                                 | —   |
| VOLTAGE PROOF                                                                                                                                                                                                |                             | 650V AC FOR 1 min.                                                                                                                                                                                                                                          |             | NO FLASHOVER OR BREAKDOWN.                                                                                           |                        | X                                                 | —   |
| MECHANICAL CHARACTERISTICS                                                                                                                                                                                   |                             |                                                                                                                                                                                                                                                             |             |                                                                                                                      |                        |                                                   |     |
| MECHANICAL OPERATION                                                                                                                                                                                         |                             | 30 TIMES INSERTIONS AND EXTRACTIONS.                                                                                                                                                                                                                        |             | ① CONTACT RESISTANCE: 30mΩ 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 1μs.                                                                                |                        | X                                                 | —   |
| SHOCK                                                                                                                                                                                                        |                             | 490 m/s <sup>2</sup> DURATION OF PULSE 11 ms AT 3 TIMES FOR 3 DIRECTIONS.                                                                                                                                                                                   |             | ② NO DAMAGE, CRACK OR LOOSENESS OF PARTS.                                                                            |                        | X                                                 | —   |
| ENVIRONMENTAL CHARACTERISTICS                                                                                                                                                                                |                             |                                                                                                                                                                                                                                                             |             |                                                                                                                      |                        |                                                   |     |
| RAPID CHANGE OF TEMPERATURE                                                                                                                                                                                  |                             | TEMPERATURE -55→-5 TO 35→+85 →5 TO 35 °C<br>TIME 30→5 TO 15 →30 →5 TO 15 min<br>UNDER 5 CYCLES.                                                                                                                                                             |             | ① CONTACT RESISTANCE: 30mΩ MAX.<br>② INSULATION RESISTANCE: 1000MΩ MIN.<br>③ NO DAMAGE, CRACK OR LOOSENESS OF PARTS. |                        | X                                                 | —   |
| DAMP HEAT (STEADY STATE)                                                                                                                                                                                     |                             | EXPOSED AT 40 ± 2 °C, 90 TO 95 %, 96 h.                                                                                                                                                                                                                     |             | ① CONTACT RESISTANCE: 30mΩ MAX.<br>② INSULATION RESISTANCE: 500MΩ MIN.<br>③ NO DAMAGE, CRACK OR LOOSENESS OF PARTS.  |                        | X                                                 | —   |
| RESISTANCE TO SOLDERING HEAT                                                                                                                                                                                 |                             | 【RECOMMENDED TEMPERATURE PROFILE】<br>SOLDER TEMPERATURE, 260 ± 3 °C, FOR IMMERSION ,DURATION ,10s.<br>【RECOMMENDED MANUAL SOLDERING CONDITION】<br>SOLDERING IRON TEMPERATURE: 290 ± 10 °C FOR WITHIN 3s.<br>NO STRENGTH ON CONTACT. NO STRENGTH ON CONTACT. |             | NO DEFORMATION OF CASE OF EXCESSIVE LOOSENESS OF THE TERMINALS.                                                      |                        | X                                                 | —   |
| SOLDERABILITY                                                                                                                                                                                                |                             | SOLDERED AT SOLDER TEMPERATURE, 245°C FOR IN IMMERSION , DURATION, 10 s.                                                                                                                                                                                    |             | A NEW UNIFORM COATING OF SOLDER SHALL COVER MINIMUM OF 95 % OF THE SURFACE BEING IMMersed.                           |                        | X                                                 | —   |
|                                                                                                                                                                                                              | COUNT                       | DESCRIPTION OF REVISIONS                                                                                                                                                                                                                                    | DESIGNED    | CHECKED                                                                                                              | DATE                   |                                                   |     |
|                                                                                                                                                                                                              |                             |                                                                                                                                                                                                                                                             |             |                                                                                                                      |                        |                                                   |     |
| REMARKS                                                                                                                                                                                                      |                             |                                                                                                                                                                                                                                                             |             | APPROVED                                                                                                             | TS. SAKATA             | 08. 12. 17                                        |     |
| NOTE 1:INCLUDING THE TEMPERATURE RISE BY CURRENT.                                                                                                                                                            |                             |                                                                                                                                                                                                                                                             |             | CHECKED                                                                                                              | TS. KUMAZAWA           | 08. 12. 17                                        |     |
| NOTE 2:APPLY TO THE CONDITION OF LONG TERM STORAGE FOR UNUSED PRODUCTS BEFORE PCB ON BOARD , AFTER PCB BOARD , OPERATING TEMPERATURE AND HUMIDITY RANGE IS APPLIED FOR INTERM STORAGE DURING TRANSPORTATION. |                             |                                                                                                                                                                                                                                                             |             | DESIGNED                                                                                                             | KT. ISHII              | 08. 12. 15                                        |     |
| Unless otherwise specifid , refer to JIS C 5402.                                                                                                                                                             |                             |                                                                                                                                                                                                                                                             |             | DRAWN                                                                                                                | KT. ISHII              | 08. 12. 15                                        |     |
| Note QT:Qualification Test AT:Assurance Test X:Applicable Test                                                                                                                                               |                             |                                                                                                                                                                                                                                                             | DRAWING NO. |                                                                                                                      | ELC4-080246-02         |                                                   |     |
|                                                                                                                                                                                                              | SPECIFICATION SHEET         |                                                                                                                                                                                                                                                             | PART NO.    | DF11-8DS-2DSA (05)                                                                                                   |                        |                                                   |     |
|                                                                                                                                                                                                              | HIROSE ELECTRIC CO., LTD.   |                                                                                                                                                                                                                                                             | CODE NO.    | CL543-0554-1-05                                                                                                      |                        |                                                   | 1/1 |