

|                                                                |                             |                                                                                                                                                   |                                                                                                                                                                                                       |                    |                |
|----------------------------------------------------------------|-----------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------|----------------|
| APPLICABLE STANDARD                                            |                             |                                                                                                                                                   |                                                                                                                                                                                                       |                    |                |
| RATING                                                         | OPERATING TEMPERATURE RANGE | -35°C TO +85°C (NOTES 1)                                                                                                                          | STORAGE TEMPERATURE RANGE                                                                                                                                                                             | -10°C TO +60°C     |                |
|                                                                | VOLTAGE                     | 30V AC                                                                                                                                            | APPLICABLE CONNECTOR                                                                                                                                                                                  | DF36-25P-0.4SD     |                |
|                                                                | CURRENT                     | 0.25A                                                                                                                                             |                                                                                                                                                                                                       |                    |                |
| 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                                             |                             | 100m A (DC OR 1000 Hz).                                                                                                                           | CONTACT:80mΩ MAX.<br>SHIELDING:80mΩ MAX.                                                                                                                                                              | X                  | —              |
| INSULATION RESISTANCE                                          |                             | 100V DC.                                                                                                                                          | 50MΩ MIN.                                                                                                                                                                                             | X                  | —              |
| VOLTAGE PROOF                                                  |                             | 100V AC FOR 1 min.                                                                                                                                | NO FLASHOVER OR BREAKDOWN.                                                                                                                                                                            | X                  | —              |
| MECHANICAL CHARACTERISTICS                                     |                             |                                                                                                                                                   |                                                                                                                                                                                                       |                    |                |
| MECHANICAL OPERATION                                           |                             | 30TIMES INSERTIONS AND EXTRACTIONS.                                                                                                               | ① CONTACT RESISTANCE:<br>NO VARIATION OF 50 mΩ OR MORE FROM INITIAL VALUE.<br>SHIELDING RESISTANCE:<br>NO VARIATION OF 50 mΩ OR MORE FROM INITIAL VALUE.<br>② NO DAMAGE, CRACK OR LOOSENESS OF PARTS. | X                  | —              |
| VIBRATION                                                      |                             | FREQUENCY 10 TO 55 Hz, SINGLE AMPLITUDE 0.75 mm, 3 DIRECTIONS × 10 CYCLE.                                                                         | ① NO ELECTRICAL DISCONTINUITY OF 1 μs.                                                                                                                                                                | 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 → +85 °C<br>TIME 30 → 30 min<br>UNDER 5 CYCLES. (THE TRANSFERRING TIME OF THE CHAMBER IS 2-3 MINUTE.)                             | ① CONTACT RESISTANCE:<br>NO VARIATION OF 50 mΩ OR MORE FROM INITIAL VALUE.<br>SHIELDING RESISTANCE:<br>NO VARIATION OF 50 mΩ OR MORE FROM INITIAL VALUE.                                              | X                  | —              |
| DAMP HEAT (STEADY STATE)                                       |                             | EXPOSED AT 40 ± 2 °C, 90 TO 95 %, 96 h.                                                                                                           | ② INSULATION RESISTANCE: 25 MΩ MIN.<br>③ NO DAMAGE, CRACK OR LOOSENESS OF PARTS.                                                                                                                      | X                  | —              |
| SALT MIST                                                      |                             | EXPOSED IN 5 % SALT WATER SPRAY 48 h.                                                                                                             | NO DEFECT SUCH AS CORROSION WHICH IMPAIRS THE FUNCTION OF CONNECTOR.                                                                                                                                  | X                  | —              |
| SULFUR DIOXIDE GAS                                             |                             | EXPOSED IN 10-15 PPM 96h.                                                                                                                         |                                                                                                                                                                                                       | X                  | —              |
| RESISTANCE TO SOLDERING HEAT                                   |                             | ① REFLOW TEMPERATURE:<br>PEAK 250°C MAX,<br>240°C MIN :20 sec MAX<br>220°C MIN :60 sec MAX<br>② MANUAL SOLDERING TEMPERATURE:<br>350°C, 3sec MAX. | NO DEFORMATION OF CASE OF EXCESSIVE LOOSENESS OF THE TERMINALS.                                                                                                                                       | X                  | —              |
| SOLDERABILITY                                                  |                             | SOLDERED AT SOLDER TEMPERATURE, 230°C FOR INSERTION DURATION, 3 sec.                                                                              | SOLDER SHALL COVER A MINIMUM OF 95 % OF THE SURFACE BEING IMMersed.                                                                                                                                   | X                  | —              |
|                                                                |                             |                                                                                                                                                   |                                                                                                                                                                                                       |                    |                |
|                                                                | COUNT                       | DESCRIPTION OF REVISIONS                                                                                                                          | DESIGNED                                                                                                                                                                                              | CHECKED            | DATE           |
| △                                                              |                             |                                                                                                                                                   |                                                                                                                                                                                                       |                    |                |
| REMARKS                                                        |                             |                                                                                                                                                   | APPROVED                                                                                                                                                                                              | KH. IKEDA          | 14. 11. 06     |
| NOTE1: INCLUDE THE TEMPERATURE RISING BY CURRENT               |                             |                                                                                                                                                   | CHECKED                                                                                                                                                                                               | MH. TSUCHIDA       | 14. 11. 06     |
|                                                                |                             |                                                                                                                                                   | DESIGNED                                                                                                                                                                                              | IO. DENPOUYA       | 14. 11. 06     |
| Unless otherwise specified, refer to JIS C 5402, IEC60512.     |                             |                                                                                                                                                   | DRAWN                                                                                                                                                                                                 | YJ. HAGA           | 14. 10. 23     |
| Note QT:Qualification Test AT:Assurance Test X:Applicable Test |                             |                                                                                                                                                   | DRAWING NO.                                                                                                                                                                                           |                    | ELC4-312852-02 |
| HRS                                                            | SPECIFICATION SHEET         |                                                                                                                                                   | PART NO.                                                                                                                                                                                              | DF36-25S-0.4V (55) |                |
|                                                                | HIROSE ELECTRIC CO., LTD.   |                                                                                                                                                   | CODE NO.                                                                                                                                                                                              | CL662-4005-1-55    | △ 1/1          |