

| 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                                                                                                                                       | APPLICABLE CONNECTOR                                                                                          | DF3-*S-2C                   |                                                                                           |
|                                                                                                                                                                                                                                                                | CURRENT                                                                                                    | AWG24 : 3A<br>AWG26 : 2A<br>AWG28 : 1A                                                                                                        | APPLICABLE CABLE                                                                                              | UL1061, 1007<br>AWG24 TO 28 |                                                                                           |
| 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                           | —                                                                                         |
| MECHANICAL CHARACTERISTICS                                                                                                                                                                                                                                     |                                                                                                            |                                                                                                                                               |                                                                                                               |                             |                                                                                           |
| MECHANICAL OPERATION                                                                                                                                                                                                                                           |                                                                                                            | 30 TIMES INSERTIONS AND EXTRACTIONS.                                                                                                          | ① CONTACT RESISTANCE: 30mΩ MAX.<br>② NO DAMAGE, CRACK OR LOOSENESS OF PARTS.                                  | X                           | —                                                                                         |
| CONTACT INSERTION AND EXTRACTION FORCE                                                                                                                                                                                                                         |                                                                                                            | □0.5±0.002 BY STEEL GAUGE.                                                                                                                    | INSERTION FORCE 4.4N MAX<br>EXTRACTION FORCE 0.3N MIN                                                         | X                           | —                                                                                         |
| CLIMP TENSILE STRENGTH                                                                                                                                                                                                                                         |                                                                                                            | MEASURE MAX, VALUE UNDER THE FOLLOWING METHOD:<br>APPLY WIRE TENSILE STRENGTH TO CAULKING AREA AXIALLY UNTIL WIRE BECOME LOOSEN OR BREAKDOWN. | AWG24 35N MIN (11 CORES / 0.16 mm)<br>AWG26 24N MIN (7 CORES / 0.16 mm)<br>AWG28 16N MIN (7 CORES / 0.127 mm) | X                           | —                                                                                         |
| 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 OR 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 1μs.<br>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→10 TO 15→30→10 TO 15 min<br>UNDER 5 CYCLES.                                               | ① CONTACT RESISTANCE: 30mΩ MAX.<br>② 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 NO DAMAGE, CRACK OR LOOSENESS OF PARTS.                                  | X                           | —                                                                                         |
| REMARKS                                                                                                                                                                                                                                                        |                                                                                                            |                                                                                                                                               |                                                                                                               |                             |                                                                                           |
| NOTE 1:INCLUDING THE TEMPERATURE RISE BY CURRENT<br>NOTE 2:APPLY TO THE CONDITION OF LONG TERM STORAGE FOR UNUSED PRODUCTS BEFORE PCB ON BOARD, AFTER PCB BOARD, OPERATINGTEMPERATURE AND HUMIDITY RANGE IS APPLIED FOR INTERIM STORAGE DURING TRANSPORTATION. |                                                                                                            |                                                                                                                                               |                                                                                                               |                             |                                                                                           |
|                                                                                                                                                                             | COUNT                                                                                                      | DESCRIPTION OF REVISIONS                                                                                                                      | DESIGNED                                                                                                      | CHECKED                     | DATE                                                                                      |
|                                                                                                                                                                                                                                                                | 2                                                                                                          | DIS-H-002402                                                                                                                                  | AK. MIURA                                                                                                     | HK. UMEHARA                 | 07. 08. 30                                                                                |
| Unless otherwise specifid , refer to JIS C 5402.                                                                                                                                                                                                               |                                                                                                            |                                                                                                                                               | APPROVED                                                                                                      | KJ. KATAYOSE                | 05. 01. 05                                                                                |
|                                                                                                                                                                                                                                                                |                                                                                                            |                                                                                                                                               | CHECKED                                                                                                       | TY. OMA                     | 05. 01. 05                                                                                |
|                                                                                                                                                                                                                                                                |                                                                                                            |                                                                                                                                               | DESIGNED                                                                                                      | IO. DENPOUYA                | 05. 01. 05                                                                                |
|                                                                                                                                                                                                                                                                |                                                                                                            |                                                                                                                                               | DRAWN                                                                                                         | IO. DENPOUYA                | 05. 01. 05                                                                                |
| Note QT:Qualification Test AT:Assurance Test X:Applicable Test                                                                                                                                                                                                 |                                                                                                            |                                                                                                                                               | DRAWING NO.                                                                                                   |                             | ELC4-018921-00                                                                            |
|                                                                                                                                                                             | SPECIFICATION SHEET                                                                                        |                                                                                                                                               | PART NO.                                                                                                      | DF3-2428SCF                 |                                                                                           |
|                                                                                                                                                                                                                                                                | HIROSE ELECTRIC CO., LTD.                                                                                  |                                                                                                                                               | CODE NO.                                                                                                      | CL543-0001-2-00             |  1/1 |