

|                                                                                                                                                                                                                                  |                             |                                                                                                                                                                      |                                                                                     |                                                                                      |                                                                                           |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------|
| Applicable standard                                                                                                                                                                                                              |                             |                                                                                                                                                                      |                                                                                     |                                                                                      |                                                                                           |
| Rating                                                                                                                                                                                                                           | Operating Temperature range | -40 °C to +105°C (Note1)                                                                                                                                             |                                                                                     | Storage Temperature range                                                            | -10 °C to +60°C (Note3)                                                                   |
|                                                                                                                                                                                                                                  | Operating Humidity range    | 20% to 80%(Note2)                                                                                                                                                    |                                                                                     | Storage Humidity range                                                               | 40% to 70% (Note3)                                                                        |
|                                                                                                                                                                                                                                  | Applicable connector        | 1) DF62W-*EP-2.2C(##)<br>2) DF62WC-*EP-2.2C(##)                                                                                                                      |                                                                                     | Voltage                                                                              | 250V AC/DC                                                                                |
|                                                                                                                                                                                                                                  | Applicable cable            | Applicable connector                                                                                                                                                 |  | AWG 22 : 4A/pin<br>AWG 24 : 3.5A/pin<br>AWG 26 : 3A/pin                              |                                                                                           |
|                                                                                                                                                                                                                                  |                             | 1)                                                                                                                                                                   |                                                                                     |                                                                                      | UL1007 AWG#22 to 24<br>UL1430 AWG#24 to 26                                                |
|                                                                                                                                                                                                                                  |                             | 2)                                                                                                                                                                   |                                                                                     |                                                                                      | UL1061 AWG#24 to 26                                                                       |
| Applicable Insulation diameter                                                                                                                                                                                                   | Applicable connector        |                                                                                                                                                                      |                                                                                     |                                                                                      |                                                                                           |
|                                                                                                                                                                                                                                  | 1)                          | φ 1.4 to 1.6mm                                                                                                                                                       |                                                                                     |                                                                                      |                                                                                           |
|                                                                                                                                                                                                                                  | 2)                          | φ 0.98 to 1.2mm                                                                                                                                                      |                                                                                     |                                                                                      |                                                                                           |
| 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                                                                                                                                                                                                               |                             | 20mV MAX, 1mA (DC or 1000Hz).                                                                                                                                        |                                                                                     | 30 mΩ MAX.                                                                           | X -                                                                                       |
| Mechanical characteristics                                                                                                                                                                                                       |                             |                                                                                                                                                                      |                                                                                     |                                                                                      |                                                                                           |
| Mechanical operation                                                                                                                                                                                                             |                             | 30 times insertion and extraction.                                                                                                                                   |                                                                                     | 1)Contact resistance: 30 mΩ MAX.<br>2)No damage, crack or looseness of parts.        | X -                                                                                       |
| Vibration                                                                                                                                                                                                                        |                             | Frequency 10 to 55 Hz, single amplitude<br>0.75 mm, at 10 cycles for 3 direction.                                                                                    |                                                                                     | 1)No electrical discontinuity of 1 μ s.<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 each for<br>3 both axial directions.                                                                         |                                                                                     | 1)No electrical discontinuity of 1 μ s.<br>2)No damage, crack or looseness of parts. | X -                                                                                       |
| Environmental characteristics                                                                                                                                                                                                    |                             |                                                                                                                                                                      |                                                                                     |                                                                                      |                                                                                           |
| Damp heat (Steady state)                                                                                                                                                                                                         |                             | Exposed at 40 ± 2°C , 90 to 95 %, 96 h.<br>(After leaving the room temperature for 1-2h.)                                                                            |                                                                                     | 1)Contact resistance: 30 mΩ MAX.<br>2)No damage, crack or looseness of parts.        | X -                                                                                       |
| Rapid change of temperature                                                                                                                                                                                                      |                             | Temperature -55°C→ +85°C<br>Time 30min→ 30min<br>Under 5 cycles.<br>(The transferring time of the tank is 2-3 min)<br>(After leaving the room temperature for 1-2h.) |                                                                                     | 1)Contact resistance: 30 mΩ MAX.<br>2)No damage, crack or looseness of parts.        | X -                                                                                       |
|                                                                                                                                                                                                                                  |                             |                                                                                                                                                                      |                                                                                     |                                                                                      |                                                                                           |
| Remarks<br>Note 1: Include the temperature rising by current.<br>Note 2: No condensing.<br>Note 3: Apply to the packaged and unused product.  |                             |                                                                                                                                                                      |                                                                                     |                                                                                      |                                                                                           |
|                                                                                                                                                                                                                                  | Count                       | Description of revisions                                                                                                                                             | Designed                                                                            | Checked                                                                              | Date                                                                                      |
|                                                                                                                                               | 2                           | DIS-H-00015722                                                                                                                                                       | HT. SATO                                                                            | SZ. ONO                                                                              | 20221017                                                                                  |
| Unless otherwise specified, refer to IEC 60512.                                                                                                                                                                                  |                             |                                                                                                                                                                      |                                                                                     | Approved                                                                             | OM. MIYAMOTO                                                                              |
|                                                                                                                                                                                                                                  |                             |                                                                                                                                                                      |                                                                                     | Checked                                                                              | OM. MIYAMOTO                                                                              |
|                                                                                                                                                                                                                                  |                             |                                                                                                                                                                      |                                                                                     | Designed                                                                             | TO. HORII                                                                                 |
|                                                                                                                                                                                                                                  |                             |                                                                                                                                                                      |                                                                                     | Drawn                                                                                | TO. HORII                                                                                 |
| Note QT:Qualification Test AT:Assurance Test X:Applicable Test                                                                                                                                                                   |                             |                                                                                                                                                                      | Drawing No.                                                                         |                                                                                      | ELC-353516-00-00                                                                          |
|                                                                                                                                               | Specification sheet         |                                                                                                                                                                      | Part No.                                                                            | DF62W-EP2226PCF                                                                      |                                                                                           |
|                                                                                                                                                                                                                                  | HIROSE ELECTRIC CO., LTD.   |                                                                                                                                                                      | Code No.                                                                            | CL0544-1001-4-00                                                                     |  1/1 |