

|                                                                                                                                                                                                                                                                                                            |                                                                                                     |                                                                                                                                                                      |                                                          |                    |                                                                                  |                                                          |    |                                                                                           |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------|--------------------|----------------------------------------------------------------------------------|----------------------------------------------------------|----|-------------------------------------------------------------------------------------------|
| Applicable standard                                                                                                                                                                                                                                                                                        |                                                                                                     |                                                                                                                                                                      |                                                          |                    |                                                                                  |                                                          |    |                                                                                           |
| Rating                                                                                                                                                                                                                                                                                                     | Operating Temperature range                                                                         |                                                                                                                                                                      | -35 °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                                                                                |                                                                                                                                                                      | DF62B-13S-2.2C(##)<br>DF62C-13S-2.2C(##)                 |                    | Voltage                                                                          | AC/DC 250V                                               |    |                                                                                           |
|                                                                                                                                                                                                                                                                                                            | UL・C-UL Rating<br> | Voltage                                                                                                                                                              | 250 V AC/DC                                              |                    | Current                                                                          | AWG 22 : 3A/pin<br>AWG 24 : 2A/pin<br>AWG 26-30 : 1A/pin |    |                                                                                           |
|                                                                                                                                                                                                                                                                                                            |                                                                                                     | Current                                                                                                                                                              | AWG 22 : 3A/pin<br>AWG 24 : 2A/pin<br>AWG 26-30 : 1A/pin |                    |                                                                                  |                                                          |    |                                                                                           |
|                                                                                                                                                                                                                                                                                                            | Operating Temperature range                                                                         | -35 °C TO +75°C (NOTE1)                                                                                                                                              |                                                          | Applicable contact | DF62-EP22PC*<br>DF62-EP2428PC*<br>DF62-EP30PC*                                   |                                                          |    |                                                                                           |
| 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                                                                                                                                                                                                                                                                                   |                                                                                                     |                                                                                                                                                                      |                                                          |                    |                                                                                  |                                                          |    |                                                                                           |
| Insulation resistance                                                                                                                                                                                                                                                                                      |                                                                                                     | 500 V DC.                                                                                                                                                            |                                                          |                    | 1000 MΩ MIN.                                                                     |                                                          | X  | —                                                                                         |
| Voltage proof                                                                                                                                                                                                                                                                                              |                                                                                                     | 650 V AC for 1 min.                                                                                                                                                  |                                                          |                    | No flashover or breakdown.                                                       |                                                          | X  | —                                                                                         |
| Mechanical characteristics                                                                                                                                                                                                                                                                                 |                                                                                                     |                                                                                                                                                                      |                                                          |                    |                                                                                  |                                                          |    |                                                                                           |
| Mechanical operation                                                                                                                                                                                                                                                                                       |                                                                                                     | 30 times insertion and extraction.                                                                                                                                   |                                                          |                    | No damage, crack or looseness of parts.                                          |                                                          | X  | —                                                                                         |
| Vibration                                                                                                                                                                                                                                                                                                  |                                                                                                     | Frequency 10 to 55 Hz, single amplitude 0.75 mm, at 10 cycles for 3 direction.                                                                                       |                                                          |                    | 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 3 both axial directions.                                                                            |                                                          |                    | No damage, crack or looseness of parts.                                          |                                                          | X  | —                                                                                         |
| Environmental characteristics                                                                                                                                                                                                                                                                              |                                                                                                     |                                                                                                                                                                      |                                                          |                    |                                                                                  |                                                          |    |                                                                                           |
| Damp heat (Steady state)                                                                                                                                                                                                                                                                                   |                                                                                                     | Exposed at 40 ± 2°C , 90 to 95 %, 96 h. (After leaving the room temperature for 1—2h.)                                                                               |                                                          |                    | ①Insulation resistance: 1000 MΩ MIN.<br>②No 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.) |                                                          |                    | ①Insulation resistance: 1000 MΩ MIN.<br>②No damage, crack or looseness of parts. |                                                          | X  | —                                                                                         |
|                                                                                                                                                                                                                                                                                                            |                                                                                                     |                                                                                                                                                                      |                                                          |                    |                                                                                  |                                                          |    |                                                                                           |
| Note 1: Include the temperature rising by current.<br>Note 2: No condensing<br>Note 3: Apply to the condition of long term storage for unused products before inserting terminal. After inserting terminal, operating temperature and humidity range is applied for interim storage during transportation. |                                                                                                     |                                                                                                                                                                      |                                                          |                    |                                                                                  |                                                          |    |                                                                                           |
|                                                                                                                                                                                                                                                                                                            | Count                                                                                               | Description of revisions                                                                                                                                             |                                                          | Designed           |                                                                                  | Checked                                                  |    | Date                                                                                      |
|                                                                                                                                                                                                                         | 1                                                                                                   | DIS-H-00019433                                                                                                                                                       |                                                          | RI. GENDA          |                                                                                  | SZ. ONO                                                  |    | 20231121                                                                                  |
| Remarks<br><br>Unless otherwise specified, refer to IEC 60512.                                                                                                                                                                                                                                             |                                                                                                     |                                                                                                                                                                      |                                                          | Approved           |                                                                                  | KI. AKIYAMA                                              |    | 20140606                                                                                  |
|                                                                                                                                                                                                                                                                                                            |                                                                                                     |                                                                                                                                                                      |                                                          | Checked            |                                                                                  | TS. FUKUSHIMA                                            |    | 20140606                                                                                  |
|                                                                                                                                                                                                                                                                                                            |                                                                                                     |                                                                                                                                                                      |                                                          | Designed           |                                                                                  | TS. KUMAZAWA                                             |    | 20140606                                                                                  |
|                                                                                                                                                                                                                                                                                                            |                                                                                                     |                                                                                                                                                                      |                                                          | Drawn              |                                                                                  | TS. KUMAZAWA                                             |    | 20140606                                                                                  |
| Note QT:Qualification Test AT:Assurance Test X:Applicable Test                                                                                                                                                                                                                                             |                                                                                                     |                                                                                                                                                                      |                                                          | Drawing No.        |                                                                                  | ELC-351969-18-02                                         |    |                                                                                           |
|                                                                                                                                                                                                                         | Specification sheet                                                                                 |                                                                                                                                                                      |                                                          | Part No.           |                                                                                  | DF62B-13EP-2. 2C (18)                                    |    |                                                                                           |
|                                                                                                                                                                                                                                                                                                            | HIROSE ELECTRIC CO., LTD.                                                                           |                                                                                                                                                                      |                                                          | Code No.           |                                                                                  | CL0544-0564-1-18                                         |    |  1/1 |