

| 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 Connectors       | DF65-6P-1.7V(##)                                | UL,C-UL Rating<br><div>2</div> | Voltage                 | 50 V AC/DC                                      |
|                     | Applicable Contact          | DF65-2428SCF(##)<br>DF65-2428SCFA(##)           |                                | Current                 | 24 AWG : 3.5A<br>26 AWG : 2.5A<br>28 AWG : 2.0A |
|                     | Voltage                     | 50 V AC/DC                                      |                                |                         |                                                 |
|                     | Current                     | 24 AWG : 3.5A<br>26 AWG : 2.0A<br>28 AWG : 2.0A |                                |                         |                                                 |

| 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         |  | 100 V DC.                                                                                                                                                             | 100 MΩ MIN.                                                                     | X  | —  |
| Voltage proof                 |  | 500 V AC for 1 min.                                                                                                                                                   | No flashover or breakdown.                                                      | X  | —  |
| Mechanical characteristics    |  |                                                                                                                                                                       |                                                                                 |    |    |
| Mechanical operation          |  | Tin plated : 30 times insertion and extraction.<br>Gold plated : 50 times insertion and extraction.                                                                   | 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.                                                                                     |                                                                                 | X  | —  |
| Shock                         |  | 490 m/s <sup>2</sup> duration of pulse 11 ms at 3 times each for<br>3 both axial directions.                                                                          |                                                                                 | 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.)                                                                             | ①Insulation resistance: 100 MΩ MIN.<br>②No damage, crack or looseness of parts. | X  | —  |
| Rapid change of temperature   |  | Temperature -55°C→ +105°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.) |                                                                                 | X  | —  |
|                               |  |                                                                                                                                                                       |                                                                                 |    |    |

Note 1: Include the temperature rising by current.  
Note 2: No condensing  
Note 3: Apply to the condition of long term storage for unused products before mounted on PCB. After mounted on PCB, operating temperature and humidity range are applied for interim storage during transportation.

|                                                                |       |                          |             |              |                |
|----------------------------------------------------------------|-------|--------------------------|-------------|--------------|----------------|
|                                                                | Count | Description of revisions | Designed    | Checked      | Date           |
| 2                                                              | 1     | DIS-H-00004782           | SN. MIWA    | SZ. ONO      | 20190416       |
| Remarks                                                        |       |                          | Approved    | KI. AKIYAMA  | 20130822       |
|                                                                |       |                          | Checked     | OM. MIYAMOTO | 20130821       |
|                                                                |       |                          | Designed    | TT. OHSAKO   | 20130821       |
|                                                                |       |                          | Drawn       | TT. OHSAKO   | 20130821       |
| Unless otherwise specified, refer to IEC 60512.                |       |                          |             |              |                |
| Note QT:Qualification Test AT:Assurance Test X:Applicable Test |       |                          | Drawing No. |              | ELC4-351457-00 |

|  |                           |  |          |                 |     |
|--|---------------------------|--|----------|-----------------|-----|
|  | Specification sheet       |  | Part No. | DF65-6S-1. 7C   |     |
|  | HIROSE ELECTRIC CO., LTD. |  | Code No. | CL666-6009-9-00 | 1/1 |