

| 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-2S-2.2C(##)<br>DF62C-2S-2.2C(##)                   |             | VOLTAGE                                                                                                             | AC/DC 250V                                                                            |          |
|                                                                                                                                                                                                                                                                                           | UL・C-UL RATING              | VOLTAGE                                                                                                                                                                | 250 V AC/DC                                              |             | CURRENT                          | AWG 22 : 4A/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*                                        |          |
| <b>SPECIFICATIONS</b>                                                                                                                                                                                                                                                                     |                             |                                                                                                                                                                        |                                                          |             |                                                                                                                     |                                                                                       |          |
| ITEM                                                                                                                                                                                                                                                                                      |                             | TEST METHOD                                                                                                                                                            |                                                          |             | REQUIREMENTS                                                                                                        |                                                                                       | QT AT    |
| <b>CONSTRUCTION</b>                                                                                                                                                                                                                                                                       |                             |                                                                                                                                                                        |                                                          |             |                                                                                                                     |                                                                                       |          |
| GENERAL EXAMINATION                                                                                                                                                                                                                                                                       |                             | VISUALLY AND BY MEASURING INSTRUMENT.                                                                                                                                  |                                                          |             | ACCORDING TO DRAWING.                                                                                               |                                                                                       | X X      |
| MARKING                                                                                                                                                                                                                                                                                   |                             | CONFIRMED VISUALLY.                                                                                                                                                    |                                                          |             |                                                                                                                     |                                                                                       | X X      |
| <b>ELECTRIC CHARACTERISTICS</b>                                                                                                                                                                                                                                                           |                             |                                                                                                                                                                        |                                                          |             |                                                                                                                     |                                                                                       |          |
| CONTACT RESISTANCE                                                                                                                                                                                                                                                                        |                             | 20mV MAX, 1mA (DC or 1000Hz).                                                                                                                                          |                                                          |             | 30 mΩ MAX.                                                                                                          |                                                                                       | X -      |
| INSULATION RESISTANCE                                                                                                                                                                                                                                                                     |                             | 500 V DC.                                                                                                                                                              |                                                          |             | 1000 MΩ MIN.                                                                                                        |                                                                                       | X -      |
| VOLTAGE PROOF                                                                                                                                                                                                                                                                             |                             | 650 V AC FOR 1 min.                                                                                                                                                    |                                                          |             | NO FLASHOVER OR BREAKDOWN.                                                                                          |                                                                                       | X -      |
| <b>MECHANICAL CHARACTERISTICS</b>                                                                                                                                                                                                                                                         |                             |                                                                                                                                                                        |                                                          |             |                                                                                                                     |                                                                                       |          |
| MECHANICAL OPERATION                                                                                                                                                                                                                                                                      |                             | 30 TIMES INSERTION AND EXTRACTION.                                                                                                                                     |                                                          |             | ①CONTACT RESISTANCE: 30 mΩ MAX.<br>②NO DAMAGE, CRACK OR LOOSENESS OF PARTS.                                         |                                                                                       | X -      |
| VIBRATION                                                                                                                                                                                                                                                                                 |                             | FREQUENCY 10 TO 55 Hz, SINGLE AMPLITUDE 0.75 mm, AT 10 CYCLES FOR 3 DIRECTION.                                                                                         |                                                          |             | ①NO ELECTRICAL DISCONTINUITY OF 1 μ s.<br>②NO 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.                                                                              |                                                          |             | ①NO ELECTRICAL DISCONTINUITY OF 1 μ s.<br>②NO DAMAGE, CRACK OR LOOSENESS OF PARTS.                                  |                                                                                       | X -      |
| <b>ENVIRONMENTAL CHARACTERISTICS</b>                                                                                                                                                                                                                                                      |                             |                                                                                                                                                                        |                                                          |             |                                                                                                                     |                                                                                       |          |
| DAMP HEAT (STEADY STATE)                                                                                                                                                                                                                                                                  |                             | EXPOSED AT 40 ± 2°C , 90 TO 95 %, 96 h. (AFTER LEAVING THE ROOM TEMPERATURE FOR 1~2h.)                                                                                 |                                                          |             | ①CONTACT RESISTANCE: 30 mΩ MAX.<br>②INSULATION RESISTANCE: 1000 MΩ MIN.<br>③NO 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.) |                                                          |             | ①CONTACT RESISTANCE: 30 mΩ MAX.<br>②INSULATION RESISTANCE: 1000 MΩ MIN.<br>③NO DAMAGE, CRACK OR LOOSENESS OF PARTS. |                                                                                       | X -      |
|                                                                                                                                                                                                                                                                                           |                             |                                                                                                                                                                        |                                                          |             |                                                                                                                     |                                                                                       |          |
| NOTE 1: INCLUDE THE TEMPERATURE RISING BY CURRENT.<br>NOTE2:NO CONDENSING<br>NOTE3:APPLY TO THE CONDITION OF LONG TERM STORAGE FOR UNUSED PRODUCTS BEFOR PCB ON BOARD, AFTER PCB ON BOARD, OPERATING TEMPERATURE AND HUMIDITTY RANGE IS APPLIED FOR INTERIM STRAGE DURING TRANSPORTATION. |                             |                                                                                                                                                                        |                                                          |             |                                                                                                                     |                                                                                       |          |
|                                                                                                                                                                                                                                                                                           | COUNT                       | DESCRIPTION OF REVISIONS                                                                                                                                               |                                                          | DESIGNED    | CHECKED                                                                                                             | DATE                                                                                  |          |
|                                                                                                                                                                                                        | 1                           | DIS-H-00019510                                                                                                                                                         |                                                          | RI. GENDA   | SZ. ONO                                                                                                             | 20240123                                                                              |          |
| REMARKS<br><br>Unless otherwise specified, refer to JIS C 5402.                                                                                                                                                                                                                           |                             |                                                                                                                                                                        |                                                          |             | APPROVED                                                                                                            | KI. AKIYAMA                                                                           | 20130704 |
|                                                                                                                                                                                                                                                                                           |                             |                                                                                                                                                                        |                                                          |             | CHECKED                                                                                                             | OM. MIYAMOTO                                                                          | 20130703 |
|                                                                                                                                                                                                                                                                                           |                             |                                                                                                                                                                        |                                                          |             | DESIGNED                                                                                                            | TH. YOSHIZAWA                                                                         | 20130703 |
|                                                                                                                                                                                                                                                                                           |                             |                                                                                                                                                                        |                                                          |             | DRAWN                                                                                                               | MI. SAKIMURA                                                                          | 20130627 |
| Note QT:Qualification Test AT:Assurance Test X:Applicable Test                                                                                                                                                                                                                            |                             |                                                                                                                                                                        |                                                          | DRAWING NO. |                                                                                                                     | ELC-351963-00-00                                                                      |          |
|                                                                                                                                                                                                        | SPECIFICATION SHEET         |                                                                                                                                                                        |                                                          | PART NO.    | DF62B-2EP-2. 2C                                                                                                     |                                                                                       |          |
|                                                                                                                                                                                                                                                                                           | HIROSE ELECTRIC CO., LTD.   |                                                                                                                                                                        |                                                          | CODE NO.    | CL0544-0558-9-00                                                                                                    |  | 1/1      |