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| APPLICABLE STANDARD  |  |                          |   |                         |            |
|--|--|--------------------------|---|-------------------------|------------|
| RATING   | OPERATING TEMPERATURE RANGE  | -35°C TO +85°C (NOTE 1)  | STORAGE TEMPERATURE RANGE   | -10°C TO +60°C (NOTE 3) |            |
|  | OPERATING HUMIDITY RANGE   | 40% TO 80% (NOTE 2)      | STORAGE HUMIDITY RANGE  | 40% TO 70% (NOTE 3)     |            |
|  | VOLTAGE  | 500V AC/DC               | APPLICABLE CONNECTOR  | DF33C-*S-3. 3C          |            |
|  | CURRENT  | AWG 20<br>AWG 22         | 5A  |                         |            |
| 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  | 500V DC.   |                          | 1000MΩ MIN.   | X                       | -          |
| VOLTAGE PROOF  | 1500V AC FOR 1 min.  |                          | NO FLASHOVER OR BREAKDOWN.  | X                       | -          |
| MECHANICAL CHARACTERISTICS   |  |                          |   |                         |            |
| MECHANICAL OPERATION   | 30 TIMES INSERTIONS AND EXTRACTIONS.   |                          | NO DAMAGE, CRACK OR LOOSENESS OF PARTS.   | X                       | -          |
| VIBRATION  | FREQUENCY 10 TO 55 Hz, SINGLE AMPLITUDE 0.75 mm, AT 10 CYCLE FOR EACH, FOR 3 DIRECTIONS.                     |                          | 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.                                    |                          |   | X                       | -          |
| ENVIRONMENTAL CHARACTERISTICS  |  |                          |   |                         |            |
| DAMP HEAT (STEADY STATE)   | EXPOSED AT 40 ± 2 °C, 90 TO 95 %, 96 h.  |                          | ① INSULATION RESISTANCE: 500MΩ MIN.<br>② NO DAMAGE, CRACK OR LOOSENESS OF PARTS.  | X                       | -          |
| RAPID CHANGE OF TEMPERATURE  | TEMPERATURE -55→+85°C<br>TIME 30→ 30min.<br>UNDER 5 CYCLES.<br>THE TRANSFERRING TIME OF THE TANK IS 2~3 min. |                          | ① INSULATION RESISTANCE: 1000MΩ MIN.<br>② NO DAMAGE, CRACK OR LOOSENESS OF PARTS. | X                       | -          |
| REMARKS  |  |                          |   |                         |            |
| NOTE 1:INCLUDING THE TEMPERATURE RISE BY CURRENT.  |  |                          |   |                         |            |
| NOTE 2:NO CONDENSING   |  |                          |   |                         |            |
| NOTE 3:APPLY TO THE CONDITION OF LONGTERM STORAGE FOR UNUSED PRODUCTS BEFORE PCB ON BOARD, AFTER PCB BOARD, OPERATING TEMPERATURE AND HUMIDITY RANGE IS APPLIED FOR INTERIM STORAGE DURING TRANSPORTATION. |  |                          |   |                         |            |
|  | COUNT  | DESCRIPTION OF REVISIONS | DESIGNED  | CHECKED                 | DATE       |
|  |  |                          |   |                         |            |
| Unless otherwise specifid , refer to JIS C 5402.   |  |                          | APPROVED  | KI. AKIYAMA             | 13. 12. 18 |
|  |  |                          | CHECKED   | HK. UMEHARA             | 13. 12. 18 |
|  |  |                          | DESIGNED  | HT. SATO                | 13. 12. 18 |
|  |  |                          | DRAWN   | MI. SAKIMURA            | 13. 12. 18 |
| Note   | QT:Qualification Test AT:Assurance Test X:Applicable Test  |                          | DRAWING NO.   | ELC4-355980-00          |            |
|  | SPECIFICATION SHEET  |                          | PART NO.  | DF33C-*RS-3. 3          |            |
|  | HIROSE ELECTRIC CO., LTD.  |                          | CODE NO.  | CL676-                  | 1/1        |