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In case of consideration for using Automotive equipment / device which demand high reliability, kindly contact our sales window correspondents.

| APPLICABLE STANDARD | | | | | | | | | | | | | | | | | |
|---|---|--------------------------|--|----------------------------|---|-------------------------|----|------|-----|----|------|-----|----|------|-----|---|---|
| RATING | OPERATING TEMPERATURE RANGE | -35°C TO +85°C (NOTES 1) | STORAGE TEMPERATURE RANGE | -10°C TO + 60°C | | | | | | | | | | | | | |
| | VOLTAGE | 50V AC | APPLICABLE CONNECTOR | DF17# (**)-*DS-0. 5V (57) | | | | | | | | | | | | | |
| | CURRENT | 0. 3A | | | | | | | | | | | | | | | |
| 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 | 100m A (DC OR 1000 Hz). | | 60mΩ MAX. | X | — | | | | | | | | | | | | |
| INSULATION RESISTANCE | 100V DC. | | 500MΩ MIN. | X | — | | | | | | | | | | | | |
| VOLTAGE PROOF | 150V AC FOR 1 min. | | NO FLASHOVER OR BREAKDOWN. | X | — | | | | | | | | | | | | |
| MECHANICAL CHARACTERISTICS | | | | | | | | | | | | | | | | | |
| INSERTION AND WITHDRAWAL FORCES | MEASURED BY APPLICABLE CONNECTOR.  | | <table border="1"> <thead> <tr> <th rowspan="2">PIN COUNT</th> <th>INSERTION FORCE (N)MAX</th> <th>WITHDRAWAL FORCE (N)MIN</th> </tr> </thead> <tbody> <tr> <td>20</td> <td>20.0</td> <td>2.0</td> </tr> <tr> <td>40</td> <td>40.0</td> <td>4.0</td> </tr> <tr> <td>80</td> <td>80.0</td> <td>8.0</td> </tr> </tbody> </table> | PIN COUNT | INSERTION FORCE (N)MAX | WITHDRAWAL FORCE (N)MIN | 20 | 20.0 | 2.0 | 40 | 40.0 | 4.0 | 80 | 80.0 | 8.0 | X | — |
| PIN COUNT | INSERTION FORCE (N)MAX | WITHDRAWAL FORCE (N)MIN | | | | | | | | | | | | | | | |
| | 20 | 20.0 | 2.0 | | | | | | | | | | | | | | |
| 40 | 40.0 | 4.0 | | | | | | | | | | | | | | | |
| 80 | 80.0 | 8.0 | | | | | | | | | | | | | | | |
| MECHANICAL OPERATION | 50TIMES INSERTIONS AND EXTRACTIONS. | | ① CONTACT RESISTANCE: 60mΩ MAX. ② NO DAMAGE, CRACK OR LOOSENESS OF PARTS. | X | — | | | | | | | | | | | | |
| VIBRATION | FREQUENCY 10 TO 55 Hz, SINGLE AMPLITUDE 0.75 mm, AT 2 h, FOR 3 DIRECTIONS. | | ① NO ELECTRICAL DISCONTINUITY OF 1μs. ② NO DAMAGE, CRACK OR LOOSENESS OF PARTS. | X | — | | | | | | | | | | | | |
| SHOCK | 490 m/s ² DURATION OF PULSE 11 ms AT 3 TIMES FOR 3 DIRECTIONS. | | ① NO ELECTRICAL DISCONTINUITY OF 1μs. ② NO DAMAGE, CRACK OR LOOSENESS OF PARTS. | X | — | | | | | | | | | | | | |
| ENVIRONMENTAL CHARACTERISTICS | | | | | | | | | | | | | | | | | |
| RAPID CHANGE OF TEMPERATURE | TEMPERATURE -55→ 5 TO 35→ 85→ 5 TO 35°C TIME 30→10 TO 15→ 30→10TO15min UNDER 5 CYCLES. | | ① CONTACT RESISTANCE: 60mΩ MAX. ② INSULATION RESISTANCE: 500 MΩ MIN. ③ NO DAMAGE, CRACK OR LOOSENESS OF PARTS. | X | — | | | | | | | | | | | | |
| DAMP HEAT (STEADY STATE) | EXPOSED AT 40 ± 2 °C, 90 TO 95 %, 96 h. | | ① CONTACT RESISTANCE: 60mΩ MAX. ② INSULATION RESISTANCE: 250 MΩ MIN. ③ NO DAMAGE, CRACK OR LOOSENESS OF PARTS. | X | — | | | | | | | | | | | | |
| CORROSION SALT MIST | EXPOSED IN 5% SALT WATER SPRAY FOR 48 h. | | ① CONTACT RESISTANCE: 60 mΩ MAX. ② NO HEAVY CORROSION. | X | — | | | | | | | | | | | | |
| SULPHUR DIOXIDE | EXPOSED IN 10 PPM FOR 96 h. (TEST STANDARD:JEIDA-39) | | ① CONTACT RESISTANCE: 60 mΩ MAX. ② NO HEAVY CORROSION. | X | — | | | | | | | | | | | | |
| HEAT RESISTANCE OF SOLDERING | <p>【RECOMMENDED TEMPERATURE PROFILE】</p> <p>《SOLDERING AREA》 MAX250°C, 220°C FOR 60 SECONDS MAX.</p> <p>《PREHEATING AREA》 150 TO 180°C 120 SECONDS. MAXIMUM TWICE ACTION IS ALLOWED UNDER THE SAME CONDITION.</p> <p>【RECOMMENDED MANUAL SOLDELING CONDITION】 SOLDERING IRON TEMPERATURE 350°C SOLDERING TIME : WITHIN 3 SECONDS.</p> | | NO DEFORMATION OF CASE OF EXCESSIVE LOOSENESS OF THE TERMINALS. | | | | | | | | | | | | | | |
| | COUNT | DESCRIPTION OF REVISIONS | DESIGNED | CHECKED | DATE | | | | | | | | | | | | |
|  | 1 | DIS-H-00003088 | SH. HOSODA | TS. MIYAZAKI | 17. 09. 29 | | | | | | | | | | | | |
| REMARKS | | | APPROVED | MO. NAKAMURA | 05. 05. 20 | | | | | | | | | | | | |
| NOTE1:INCLUDING THE TEMPERATURE RISE BY CURRENT. | | | CHECKED | TS. MIYAZAKI | 05. 05. 19 | | | | | | | | | | | | |
| | | | DESIGNED | YH. MICHIDA | 05. 05. 19 | | | | | | | | | | | | |
| UNLESS OTHERWISE SPECIFIED,REFER TO JIS C 0806. | | | DRAWN | YH. MICHIDA | 05. 05. 19 | | | | | | | | | | | | |
| Note QT:Qualification Test AT:Assurance Test X:Applicable Test | | | DRAWING NO. | | ELC4-162136-06 | | | | | | | | | | | | |
|  | SPECIFICATION SHEET | | PART NO. | DF17A(2. 0)-*DP-0. 5V (57) | | | | | | | | | | | | | |
| | HIROSE ELECTRIC CO., LTD. | | CODE NO. | CL683 |  1/1 | | | | | | | | | | | | |