




| 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#(**)-*DP-0.5V(**) | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 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>SIGNAL</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>30</td><td>30.0</td><td>3.0</td></tr> <tr><td>40</td><td>40.0</td><td>4.0</td></tr> <tr><td>50</td><td>50.0</td><td>5.0</td></tr> <tr><td>60</td><td>60.0</td><td>6.0</td></tr> <tr><td>70</td><td>70.0</td><td>7.0</td></tr> <tr><td>80</td><td>80.0</td><td>8.0</td></tr> </tbody> </table> | SIGNAL | INSERTION FORCE (N)MAX | WITHDRAWAL FORCE (N)MIN | 20 | 20.0 | 2.0 | 30 | 30.0 | 3.0 | 40 | 40.0 | 4.0 | 50 | 50.0 | 5.0 | 60 | 60.0 | 6.0 | 70 | 70.0 | 7.0 | 80 | 80.0 | 8.0 | X | — |
| SIGNAL | INSERTION FORCE (N)MAX | WITHDRAWAL FORCE (N)MIN | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 20 | 20.0 | 2.0 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 30 | 30.0 | 3.0 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 40 | 40.0 | 4.0 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 50 | 50.0 | 5.0 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 60 | 60.0 | 6.0 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 70 | 70.0 | 7.0 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 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 | | <div style="text-align: center;">  </div> 【RECOMMENDED TEMPERATURE PROFILE】 《SOLDERING AREA》 MAX250°C, 220°C FOR 60 SECONDS MAX. 《PREHEATING AREA》 150 TO 180°C 90 ~ 120 SECONDS. MAXIMUM TWICE ACTION IS ALLOWED UNDER THE SAME CONDITION. 【RECOMMENDED MANUAL SOLDELING CONDITION】 SOLDERING IRON TEMPERATURE 350°C SOLDERING TIME : WITHIN 3 SECONDS. | NO DEFORMATION OF CASE OF EXCESSIVE LOOSENESS OF THE TERMINALS. | x | — | | | | | | | | | | | | | | | | | | | | | | | | |
| | COUNT | DESCRIPTION OF REVISIONS | DESIGNED | CHECKED | DATE | | | | | | | | | | | | | | | | | | | | | | | | |
|  | 1 | DIS-H-004663 | YN. SAKAMOTO | AR. TAKAHASHI | 10. 03. 16 | | | | | | | | | | | | | | | | | | | | | | | | |
| REMARKS | | | APPROVED | TS. MIYAZAKI | 05. 03. 30 | | | | | | | | | | | | | | | | | | | | | | | | |
| NOTE1:INCLUDING THE TEMPERATURE RISE BY CURRENT. | | | CHECKED | TS. MIYAZAKI | 05. 03. 30 | | | | | | | | | | | | | | | | | | | | | | | | |
| UNLESS OTHERWISE SPECIFIED,REFER TO JIS C 0806. | | | DESIGNED | YH. MICHIDA | 05. 03. 29 | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | DRAWN | YH. MICHIDA | 05. 03. 29 | | | | | | | | | | | | | | | | | | | | | | | | |
| Note QT:Qualification Test AT:Assurance Test X:Applicable Test | | | DRAWING NO. | | ELC4-162131-04 | | | | | | | | | | | | | | | | | | | | | | | | |
| SPECIFICATION SHEET | | | PART NO. | DF17 (4. 0) -*DS-0.5V (57) | | | | | | | | | | | | | | | | | | | | | | | | | |
| HIROSE ELECTRIC CO., LTD. | | | CODE NO. | CL683 |  1/ 1 | | | | | | | | | | | | | | | | | | | | | | | | |