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| 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# (3. 0H) -*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">SIGNAL</th> <th>INSERTION FORCE</th> <th>WITHDRAWAL FORCE</th> </tr> <tr> <th>(N)MAX</th> <th>(N)MIN</th> </tr> </thead> <tbody> <tr> <td>26</td> <td>26.0</td> <td>2.6</td> </tr> <tr> <td>30</td> <td>30.0</td> <td>3.0</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 | WITHDRAWAL FORCE | (N)MAX | (N)MIN | 26 | 26.0 | 2.6 | 30 | 30.0 | 3.0 | 60 | 60.0 | 6.0 | 70 | 70.0 | 7.0 | 80 | 80.0 | 8.0 | X | - |
| SIGNAL | INSERTION FORCE | WITHDRAWAL FORCE | | | | | | | | | | | | | | | | | | | | | | |
| | (N)MAX | (N)MIN | | | | | | | | | | | | | | | | | | | | | | |
| 26 | 26.0 | 2.6 | | | | | | | | | | | | | | | | | | | | | | |
| 30 | 30.0 | 3.0 | | | | | | | | | | | | | | | | | | | | | | |
| 60 | 60.0 | 6.0 | | | | | | | | | | | | | | | | | | | | | | |
| 70 | 70.0 | 7.0 | | | | | | | | | | | | | | | | | | | | | | |
| 80 | 80.0 | 8.0 | | | | | | | | | | | | | | | | | | | | | | |
| MECHANICAL OPERATION | 50 TIMES 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 | [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 | | | | | | | | | | | | | | | | | | | | |
| REMARKS | NOTE1: INCLUDING THE TEMPERATURE RISE BY CURRENT. | | APPROVED | MO. NAKAMURA 05. 12. 13 | | | | | | | | | | | | | | | | | | | | |
| | UNLESS OTHERWISE SPECIFIED, REFER TO JIS C 5402. | | CHECKED | TS. MIYAZAKI 05. 12. 13 | | | | | | | | | | | | | | | | | | | | |
| | | | DESIGNED | YH. MICHIDA 05. 12. 12 | | | | | | | | | | | | | | | | | | | | |
| | | | DRAWN | HK. MURAKAMI 05. 12. 12 | | | | | | | | | | | | | | | | | | | | |
| Note | QT: Qualification Test AT: Assurance Test X: Applicable Test | DRAWING NO. | ELC4-162767-07 | | | | | | | | | | | | | | | | | | | | | |
| | SPECIFICATION SHEET | PART NO. | DF17B (1. 0H) -*DP-0. 5V (57) | | | | | | | | | | | | | | | | | | | | | |
| | HIROSE ELECTRIC CO., LTD. | CODE NO. | CL683 | 1/1 | | | | | | | | | | | | | | | | | | | | |