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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# (**)-80DP-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. | | INSERTION FORCE : 80.0(N)MAX WITHDRAWAL FORCE : 8.0(N)MIN | X | — |
| 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 | 【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-000664 | HK. MURAKAMI | TS. MIYAZAKI | 05.12.06 |
| REMARKS | | | APPROVED | MO. NAKAMURA | 07.06.28 |
| NOTE1:INCLUDING THE TEMPERATURE RISE BY CURRENT. | | | CHECKED | TS. MIYAZAKI | 07.06.28 |
| UNLESS OTHERWISE SPECIFIED,REFER TO JIS C 5402. | | | DESIGNED | YH. MICHIDA | 07.06.27 |
| | | | DRAWN | TY. YAMASAKI | 07.06.27 |
| Note QT:Qualification Test AT:Assurance Test X:Applicable Test | | | DRAWING NO. | | ELC4-161642-06 |
| SPECIFICATION SHEET | | | PART NO. | DF17 (3.0)-80DS-0.5V (57) | |
| HIROSE ELECTRIC CO., LTD. | | | CODE NO. | CL683-0008-9-57 |  1/1 |

FORM HD0011-2-1