


| APPLICABLE STANDARD | | | | | |
|--|---|----------------------------|---|---|----------|
| RATING | OPERATING TEMPERATURE RANGE | -35 °C TO +85 °C (NOTES 1) | STORAGE TEMPERATURE RANGE | -10 °C TO +60 °C | |
| | VOLTAGE | 30V AC | APPLICABLE CONNECTOR | DF30*-DP-0, 4V (**) | |
| | 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 | 100mA (DC OR 1000 Hz). | | 100mΩ MAX. | X | - |
| INSULATION RESISTANCE | 100V DC. | | 50MΩ MIN. | X | - |
| VOLTAGE PROOF | 100V AC FOR 1 min. | | NO FLASHOVER OR BREAKDOWN. | X | - |
| MECHANICAL CHARACTERISTICS | | | | | |
| MECHANICAL OPERATION | 50 TIMES INSERTIONS AND EXTRACTIONS. | | ① CONTACT RESISTANCE: 100mΩ MAX. ② NO DAMAGE, CRACK OR LOOSENESS OF PARTS. | X | - |
| VIBRATION | FREQUENCY 10 TO 55 Hz, SINGLE AMPLITUDE 0.75 mm, 10 CYCLES OF EACH 3 AXIAL DIRECTION FOR 5 min. | | ① NO ELECTRICAL DISCONTINUITY OF 1 μs. 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 1 μs. 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 → 10 TO 15 min UNDER 5 CYCLES. | | ① CONTACT RESISTANCE: 100mΩ MAX. ② INSULATION RESISTANCE: 50MΩ 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: 100mΩ MAX. ② INSULATION RESISTANCE: 25MΩ MIN. ③ NO DAMAGE, CRACK OR LOOSENESS OF PARTS. | X | - |
| CORROSION SALT MIST | EXPOSED IN 5% SALT WATER SPAY FOR 48h. (TEST STANDARD: IEC60068) | | ① CONTACT RESISTANCE: 100mΩ MAX. ② NO HEAVY CORROSION. | X | - |
| SULPHUR DIOXIDE | EXPOSED IN 25 PPM FOR 96h. (TEST STANDARD: IEC60068) | | ① CONTACT RESISTANCE: 100mΩ MAX. ② NO HEAVY CORROSION. | X | - |
| | | | | | |
| | COUNT | DESCRIPTION OF REVISIONS | DESIGNED | CHECKED | DATE |
| REMARKS NOTE1: INCLUDE THE TEMPERATURE RISING BY CURRENT Unless otherwise specified, refer to IEC60512. | | | | APPROVED MO. NAKAMURA | 05.09.30 |
| | | | | CHECKED TS. MIYAZAKI | 05.09.29 |
| | | | | DESIGNED AR. TAKAHASHI | 05.09.29 |
| | | | | DRAWN AR. TAKAHASHI | 05.09.29 |
| Note | QT:Qualification Test AT:Assurance Test X:Applicable Test | | DRAWING NO. | ELC4-303547-04 | |
| HRS SPECIFICATION SHEET HIROSE ELECTRIC CO., LTD. | PART NO. | | DF30FB-DS-0, 4V (82) | | |
| | CODE NO. | | CL684-****-82 |  | 1/ |