

| APPLICABLE STANDARD | | | | | |
|--|---|---|---|--------------------------------|----------|
| RATING | OPERATING TEMPERATURE RANGE | -35 °C TO +85°C (NOTE1) | STORAGE TEMPERATURE RANGE | -10 °C TO +60°C | |
| | VOLTAGE | 80 V AC | APPLICABLE CONTACT | DF24*-*DS-0.9C | |
| | CURRENT (NOTES 1) | AWG28 : 1 A AWG30 : 0.5A | APPLICABLE CONNECTOR INSULATION DIAMETER | AWG28 TO AWG 30 φ0.6 mm MAX | |
| 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 | 20 mV MAX, 1 mA(DC OR 1000 Hz). | 30 mΩMAX. | X | - | |
| MECHANICAL CHARACTERISTICS | | | | | |
| MECHANICAL OPERATION | 30 TIMES INSERTION AND EXTRACTION. | ① CONTACT RESISTANCE: 30 mΩ MAX. ② NO DAMAGE, CRACK OR LOOSENESS OF PARTS. | X | - | |
| CONTACT INSERTION AND EXTRACTION FORCES | □0.15 mm BY STEEL GAUGE. | ① INSERTION FORCE :2.0 N MAX. ② EXTRACTION FORCE:0.12 N MIN. | X | - | |
| VIBRATION | FREQUENCY 10 TO 55 Hz, SINGLE AMPLITUDE 0.75 mm, AT 10 CYCLES FOR 3 DIRECTION. | 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. | | X | - | |
| CRIMP TENSILE STRENGTH | | ① #AWG28 : 10 N MIN. ② #AWG30 : 8 N MIN. | X | - | |
| ENVIRONMENTAL CHARACTERISTICS | | | | | |
| DAMP HEAT(STEADY STATE) | EXPOSED AT 40 ± 2°C , 90 TO 95 %, 96 h. | ① CONTACT RESISTANCE: 30 mΩ MAX. ② NO DAMAGE, CRACK OR LOOSENESS OF PARTS. | X | - | |
| RAPID CHANGE OF TEMPERATURE | TEMPERATURE -55→ 5 TO 35→+85→ 5 TO 35°C TIME 30→ 2 TO 3 → 30→ 2 TO 3min UNDER 5 CYCLES. | | X | - | |
| CORROSION, SALT MIST | EXPOSED IN 5 % SALT WATER SPRAY FOR 48h. | NO HEAVY CORROSION | X | - | |
| SULPHUR DIOXIDE | EXPOSED IN 25 PPM FOR 96 h. (TEST STANDARD: JIS-C-0090) | | X | - | |
| | | | | | |
| | COUNT | DESCRIPTION OF REVISIONS | DESIGNED | CHECKED | DATE |
| | △ | | | | |
| REMARKS | | | APPROVED | TY.OMA | 05.06.20 |
| NOTE1: INCLUDE THE TEMPERATURE RISING BY CURRENT. | | | CHECKED | HK.UMEHARA | 05.06.17 |
| Unless otherwise specified, refer to JIS C 5402. | | | DESIGNED | TS.KUMAZAWA | 05.06.16 |
| | | | DRAWN | FK.MATSUKI | 05.06.16 |
| Note QT:Qualification Test AT:Assurance Test X:Applicable Test | | | DRAWING NO. | ELC4-301572-01 | |
| HRS | SPECIFICATION SHEET | | PART NO. | DF24-2830SCFA | |
| | HIROSE ELECTRIC CO., LTD. | | CODE NO. | CL687-3001-1-00 | △ 1/ |