Sep.1.2022 Copyright 2022 HIROSE ELECTRIC CO., LTD. All Rights Reserved.
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 | -55 °C TO 85 °C | STORAGE TEMPERATURE RANGE | -10 °C TO 60 °C (3) |
| | VOLTAGE | 100 V AC | OPERATING HUMIDITY RANGE | 40 % TO 80 % |
| | CURRENT | 0.4 A | STORAGE HUMIDITY RANGE | 40 % TO 70 % (3) |

## SPECIFICATIONS

| ITEM | TEST METHOD | REQUIREMENTS | QT | AT |
|---|---|---|---|---|
| **CONSTRUCTION** | | | | |
| GENERAL EXAMINATION | VISUALLY AND BY MEASURING INSTRUMENT. | ACCORDING TO DRAWING. | × | × |
| MARKING | CONFIRMED VISUALLY. | | × | × |
| **ELECTRIC CHARACTERISTICS** | | | | |
| CONTACT RESISTANCE | 100 mA (DC OR 1000 Hz). | 80 mΩ MAX .(1) | × | – |
| CONTACT RESISTANCE MILLIVOLT LEVEL METHOD | 20 mV MAX, 1 mA(DC OR 1000Hz) | 100 mΩ MAX .(2) | × | – |
| INSULATION RESISTANCE | 250 V DC. | 100 MΩ MIN. | × | – |
| VOLTAGE PROOF | 300 V AC FOR 1 min. | NO FLASHOVER OR BREAKDOWN. | × | – |
| **MECHANICAL CHARACTERISTICS** | | | | |
| MECHANICAL OPERATION | 50 TIMES INSERTIONS AND EXTRACTIONS. | ① CONTACT RESISTANCE: 100 mΩ MAX.(2)<br>② NO DAMAGE, CRACK AND LOOSENESS OF PARTS. | × | – |
| VIBRATION | FREQUENCY 10 TO 55 Hz,<br>AMPLITUDE : 1.5 mm,<br>AT 2 h FOR 3 DIRECTION. | ① NO ELECTRICAL DISCONTINUITY OF 1 μs.<br>② CONTACT RESISTANCE: 100 mΩ MAX.(2)<br>③ NO DAMAGE, CRACK AND LOOSENESS OF PARTS. | × | – |
| SHOCK | 490 m/s$^2$ , DURATION OF PULSE 11 ms<br>AT 3 TIMES FOR 3 DIRECTIONS. | | × | – |
| **ENVIRONMENTAL CHARACTERISTICS** | | | | |
| DAMP HEAT (STEADY STATE) | EXPOSED AT 40±2 °C, 90 ～ 95 %, 96 h. | ① CONTACT RESISTANCE: 100 mΩ MAX.(2)<br>② INSULATION RESISTANCE: 100 MΩ MIN.<br>③ NO DAMAGE, CRACK AND LOOSENESS OF PARTS. | × | – |
| RAPID CHANGE OF TEMPERATURE | TEMPERATURE-55→+15～+35→+85→+15～+35°C<br>TIME 30 → 2～3 → 30 → 2～3 min<br>UNDER 5 CYCLES. | | × | – |
| CORROSION SALT MIST | EXPOSED IN 5 % SALT WATER SPRAY FOR 48 h. | ① CONTACT RESISTANCE: 100 mΩ MAX.(2)<br>② NO HEAVY CORROSION. | × | – |
| HYDROGEN SULPHIDE | EXPOSED IN 3 PPM FOR 96 h.<br>(TEST STANDARD: JEIDA-38) | | × | – |
| RESISTANCE TO SOLDERING HEAT | 1) REFLOW SOLDERING : 250 °C MAX,<br>: 220 °C MIN,<br>FOR 60 s<br>2) SOLDERING IRONS : 360 °C,<br>FOR 5 s | NO DEFORMATION OF CASE OF EXCESSIVE LOOSENESS OF THE TERMINALS. | × | – |
| SOLDERABILITY | SOLDERED AT SOLDER TEMPERATURE,<br>240 ± 3°C,<br>FOR IMMERSION DURATION, 3 s. | A NEW UNIFORM COATING OF SOLDER SHALL COVER A MINIMUM OF 95 % OF THE SURFACE BEING IMMERSED. | × | – |

| | COUNT | DESCRIPTION OF REVISIONS | DESIGNED | CHECKED | DATE |
|---|---|---|---|---|---|
| 0 | | | | | |

REMARK
(1)THIS CONNECTOR'S INITIAL CONTACT RESISTANCE SHALL BE 80 mΩ,BECAUSE OF THE BULK RESISTANCE OF STACKING HEIGHT 16 mm TYPE.
(2)AFTER TEST, THE CHANCE OF THE CONTACT RESISTANCE SHALL BE 20 mΩ MAX.
(3)THIS STORAGE INDICATES A LONG-TERM STORAGE STATE FOR THE UNUSED PRODUCT BEFORE THE BOARD MOUNTED.
Unless otherwise specified, refer to JIS C 5402.

| | | |
|---|---|---|
| APPROVED | HS.OKAWA | 05.11.10 |
| CHECKED | HS.OZAWA | 05.11.09 |
| DESIGNED | KY.NAKAMURA | 05.11.09 |
| DRAWN | SY.KAMIGA | 05.11.08 |

Note QT:Qualification Test AT:Assurance Test X:Applicable Test

DRAWING NO. ELC4-150862-21

HRS

SPECIFICATION SHEET

HIROSE ELECTRIC CO., LTD.

PART NO. FX8C-80P-SV4(91)

CODE NO. CL578-0583-3-91 0 1/1

FORM HD0011-2-1