| | ΔΡΡΙ ΙΟΔΙ | RI E STANI |)ARD | | | | | | | | | | |
|-------------|---|--|--------------------------------|--------------------|---------------|---|--|---|---|--------------|----------------------|--------|-------|
| | AI I LIOAI | APPLICABLE STAND OPERATING | | A | 40 ° C | TO | 105 °C | STO | RAGE | | -10°C TO 50°C (DACK) | | том м |
| | PATING | RATING VOLTAGE CURRENT | | ERANGE | | OPER | TEMPERATURE RANGE OPERATING OR STORAGE | | -10 °C TO 50 °C (PACKED CONDITION) RELATIVE HUMIDITY 90 %MAX (NOT DEWEL | | | | |
| | IXATINO | | | | | | | _ | ICABLE CABLE | | | | |
| | | 0.5 A (note) t=0.3±0.05mm, GOLD F | | | | | | PLATI | NG | | | | |
| | | I | | | | | AHO | INS | | | | _ | |
| | | EM | | | TEST | METH | OD | | | REC | QUIREMENTS | QT | AT |
| | CONSTR GENERAL E | VISUALL | Y AND I | BY MFAS | SURING | G INSTRUI | MENT. | ACCO | ACCORDING TO DRAWING. | | | | |
| | MARKING | VISUALLY AND BY MEASURING INSTRUMENT. CONFIRMED VISUALLY. | | | | | - | According to browner. | | | × | | |
| \triangle | ELECTRI | RACTERISTICS | | | | | | | | | | | |
| _ | CONTACT R | ESISTANCE | AC 20 mV MAX (1 KHz) , 1 mA . | | | | | 50 mΩ | 50 mΩ MAX. | | | | |
| | INSULATION RESISTANCE | | | | | | | INCLUDING FPC,FFC BULK RESISTANCE (L=8mm) | | | | | |
| | | | 100 V DC. | | | | | 500 Ms | 500 MΩ MIN. | | | | |
| | VOLTAGE P | 150 V AC FOR 1 min. | | | | NO FL | ASHOVER | OR BREAKDOWN. | × | × | | | |
| | | | RACTERISTICS | | | | l. | | | | | | |
| | MECHANICA OPERATION | 20 TIMES INSERTIONS AND EXTRACTIONS. | | | | ② NO | CONTACT RESISTANCE: 50 mΩ MAX. NO DAMAGE, CRACK AND LOOSENESS OF PARTS. | | | | | | |
| \triangle | VIBRATION | FREQUENCY 10 TO 55 Hz, HALF AMPLITUDE | | | | ① NO | NO ELECTRICAL DISCONTINUITY OF | | | 1- | | | |
| | | 0.75 mm, — m/s² FOR 10 CYCLES IN 3 AXIAL DIRECTIONS. | | | | | | 1 μs. (2) CONTACT RESISTANCE: 50 mΩ MAX. | | | | | |
| \triangle | SHOCK | 981 m/s ² , DURATION OF PULSE 6 ms AT 3 TIMES IN 3 BOTH AXIAL DIRECTIONS. | | | | 3 NO DAMAGE, CRACK AND LOOSENESS OF PARTS. | | | | | | | |
| lack | FPC RETEN | MEASURED BY APPLICABLE FPC. (THICKNESS OF FPC SHALL BE t=0.30mm | | | | _ | DIRECTION OF INSERTION: 0.3N × n MIN. VERTICAL DIRECTION TO INSERTION: 0.2N × n MIN. | | | | | | |
| | | AT INITIAL CONDITION.) | | | | | (n:NUMBER OF CONTACTS) | | | | | | |
| A | ENVIRON RAPID CHAN | CHARACTERISTICS TEMPERATURE-40→+15T0+35→+105→+15T0+35°C | | | | ① (0) | NTACT DEG | SISTANCE: 50 mΩ MA | / ,, | 1 | | | |
| lack | TEMPERATI | TEMPERATURE-40 \rightarrow +15T0+35 \rightarrow +105 \rightarrow +15T0+35 $^{\circ}$ C TIME 30 \rightarrow 2 TO 3 \rightarrow 30 \rightarrow 2 TO 3 min UNDER 5 CYCLES. EXPOSED AT 40 \pm 2 $^{\circ}$ C, RELATIVE HUMIDITY 90 TO 95 %, 96 h. EXPOSED AT -10 TO +65 $^{\circ}$ C, RELATIVE HUMIDITY 90 TO 96 %, 10 CYCLES,TOTAL 240 h. | | | | (1) CONTACT RESISTANCE: $50 \text{ m}\Omega$ MAX. (2) INSULATION RESISTANCE: $50 \text{ M}\Omega$ MIN. (3) NO DAMAGE, CRACK AND LOOSENESS | | | | | | | |
| | DAMP HEAT (STEADY ST | | | | | OF | OF PARTS. ① CONTACT RESISTANCE: 50 mΩ MAX. | | | | | | |
| | DAMP HEAT | | | | | ① COI | | | | | | | |
| | | | | | | ② INSULATION RESISTANCE: 1 MΩ MIN. (AT HIGH HUMIDITY) ③ INSULATION RESISTANCE: 50 MΩ MIN. (AT DRY) ④ NO DAMAGE, CRACK AND LOOSENESS OF PARTS. | | | | | | | |
| | | | | | | | | | | | | | |
| | | | | | | | | | | | | | |
| | | | | | | | | | | | | | |
| lack | DRY HEAT | EXPOSED AT 105±2 °C, 96 h. | | | | ① CONTACT RESISTANCE: 50 mΩ MAX. | | | | _ | | | |
| | COLD | EXPOSED AT -40±3°C, 96 h. | | | | ② NO DAMAGE, CRACK AND LOOSENESS OF PARTS. | | | S X | _ | | | |
| | CORROSION | EXPOSED AT $35\pm2^{\circ}\text{C}$, 5 % SALT WATER SPRAY FOR 96 h. EXPOSED AT $40\pm2^{\circ}\text{C}$, RELATIVE HUMIDITY $80\pm5\%$, 25 ±5 ppm FOR 96 h. | | | | ① CONTACT RESISTANCE: $50 \text{ m}\Omega$ MAX. ② NO EVIDENCE OF CORROSION WHICH | | | | _ | | | |
| $ \Lambda $ | SULPHUR D [JIS | | | | | AFFECTS TO OPERATION OF CONNECTOR. | | | × | - | | | |
| \triangle | HYDROGEN | HYDROGEN SULPHIDE [JIS C 60068-2-43] 80±5% ,10 TO 15 ppm FOR 96 h. | | | TIVE HUMI | DITY | | | | × | - | | |
| | COUN | T DE | SCRIPTION | ON OF F | REVISIO | NS | | DESIG | GNED | | CHECKED | DA | ATE |
| | 1 1 | | DIS- | DIS-F-00000943 RT. | | | RT. I | KEDA | | HS. SAKAMOTO | | 12. 24 | |
| | REMARK | | | ' | | | APPROVE | | D MO. ISHIDA | 09.0 | 01. 21 | | |
| | \triangle | | | | | | | CHECKE | | 09. 01. 20 | | | |
| | | Unless otherwise specified, refer to IEC 60512. | | | | | | | DESIGNE DRAWN | | 09. 01. 20 | | |
| | Note QT:Qualification Test AT:Assurance Test X:Appl | | | | | | | RAWING NO. | | ELC4-15929 | | 01. 20 | |
| | HS. | PECIFICATION SHEET | | | | PART NO. | | FH40-**S-0. 5SV | | | | | |
| | FORM HD0011- | OSE ELECTRIC CO., LTD. | | | CODI | CODE NO. | | CL580 | | 1/2 | | | |

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| SPECIFICATIONS | | | | | | | | |
|---------------------------------|---|--|----|----|--|--|--|--|
| ITEM | TEST METHOD | REQUIREMENTS | QT | АТ | | | | |
| RESISTANCE TO SOLDERING HEAT | 1) REFLOW SOLDERING PEAK TMP. 250 °C MAX . REFLOW TMP. OVER 230 °C WHITIN 60 sec. 2) SOLDERING IRONS : TMP. 350±5°C FOR 5±1 sec . | NO DEFORMATION OF CASE OF EXCESSIVE LOOSENESS OF THE TERMINALS. | × | _ | | | | |
| SOLDERABILITY | SOLDERED AT SOLDER TEMPERATURE, 245±5 °C FOR IMMERSION DURATION, 2±0.5 sec. | A NEW UNIFORM COATING OF SOLDER SHALL COVER A MINIMUM OF 95 % OF THE SURFACE BEING IMMERSED. | × | _ | | | | |

(note)

WHEN THE SAME VALUE OF CURRENT ARE APPLID TO ALL CONTACTS AT THE SAME TIME IN ONCE, SET THE CURRENT TO THE 70 % OF THE RATED CURRENT VALUE.

| Note QT:Q | ualification Test AT:Assurance Test X:Applicable Test | DRAWING NO. | | ELC4-159298-00 | | |
|-----------|---|-------------|--|----------------|---|-----|
| HS | SPECIFICATION SHEET | PART NO. | | FH40-**S-0.5SV | | |
| | HIROSE ELECTRIC CO., LTD. | CODE NO | | CL580 | Δ | 2/2 |