**APPLICABLE STANDARD**

- **OPERATING TEMPERATURE RANGE**: -55 °C TO 105 °C
- **STORAGE TEMPERATURE RANGE**: -10 °C TO 50 °C (PACKED CONDITION)
- **RELATIVE HUMIDITY**: 90% MAX (NOT DRIED)
- **OPERATING OR STORAGE HUMIDITY RANGE**:

**ELECTRICAL CHARACTERISTICS**

- **VOLTAGE**: 50 V AC / DC
- **CURRENT**: 0.5 A
- **APPLICABLE CABLE**: t=0.3±0.03mm, GOLD PLATING

**MECHANICAL CHARACTERISTICS**

- **SHOCK**: 961 m/s² DURATION OF PULSE 6 ms AT 3 TIMES IN 3 BOTH AXIAL DIRECTIONS.
- **VIBRATION**: FREQUENCY 10 TO 55 Hz, HALF AMPLITUDE 0.75 mm, FOR 10 CYCLES IN 3 AXIAL DIRECTIONS.

**SPECIFICATIONS**

<table>
<thead>
<tr>
<th>ITEM</th>
<th>TEST METHOD</th>
<th>REQUIREMENTS</th>
<th>QT</th>
<th>AT</th>
</tr>
</thead>
<tbody>
<tr>
<td>CONSTRUCTION</td>
<td>VISUALLY AND BY MEASURING INSTRUMENT.</td>
<td>ACCORDING TO DRAWING.</td>
<td>×</td>
<td>×</td>
</tr>
<tr>
<td>MARKING</td>
<td>CONFIRMED VISUALLY.</td>
<td></td>
<td>×</td>
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<table>
<thead>
<tr>
<th>ITEM</th>
<th>DESCRIPTION OF REVISIONS</th>
<th>DESIGNER</th>
<th>CHECKED</th>
<th>DATE</th>
</tr>
</thead>
<tbody>
<tr>
<td>3</td>
<td>DIS-F-00005614</td>
<td>SE. YOKOYAMA</td>
<td>HS. HIROHARA</td>
<td>20200611</td>
</tr>
</tbody>
</table>

**REMARK**

This product is RoHS compliant.

Unless otherwise specified, refer to IEC 60512.

Note

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

**DRAWING NO.** ELC4-159714-04

**HRS**

**SPECIFICATION SHEET**

HIROSE ELECTRIC CO., LTD.

**PART NO.** FH34SRJ-**S**-0. 5SH (50)

**CODE NO.** CL580

**DATE** 1/2
<table>
<thead>
<tr>
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</tr>
</thead>
</table>
| DRY HEAT             | EXPOSED AT 105±2 °C, 96 h.  | ① CONTACT RESISTANCE: 100 mΩ MAX.  
                        |                              | ② NO DAMAGE, CRACK AND LOOSENESS OF PARTS.                                  | X  | —  |
| COLD                 | EXPOSED AT -55±3°C, 96 h.   | ① CONTACT RESISTANCE: 100 mΩ MAX.  
                        |                              | ② NO DAMAGE, CRACK AND LOOSENESS OF PARTS.                                  | X  | —  |
| SULPHUR DIOXIDE [JIS C 60068-2-42] | EXPOSED AT 40±2 °C,  
                        | RELATIVE HUMIDITY 80±5%  
                        | 25±5 ppm FOR 96 h.  | ① CONTACT RESISTANCE: 100 mΩ MAX.  
                        |                              | ② NO DAMAGE, CRACK AND LOOSENESS OF PARTS.                                  | X  | —  |
| HYDROGEN SULPHIDE [JIS C 60068-2-43] | EXPOSED AT 40±2 °C,  
                        | RELATIVE HUMIDITY 80±5%  
                        | 10 TO 15 ppm FOR 96 h.  | ③ NO EVIDENCE OF CORROSION WHICH AFFECTS TO OPERATION OF CONNECTOR.          | X  | —  |
| SOLDERABILITY        | SOLDERED AT SOLDER TEMPERATURE,  
                        | 235±5°C FOR IMERSION DURATION,  
                        | 2±0.5 sec.  | A NEW UNIFORM COATING OF SOLDER SHALL COVER A MINIMUM OF 95% OF THE SURFACE BEING IMMERSED. | X  | —  |
| RESISTANCE TO        | 1) REFLOW SOLDERING:  
                        | PEAK TMP. 250 °C MAX.  
                        | REFLOW TMP. OVER 230 °C WITHIN 60 sec.  | NO DEFORMATION OF CASE OF EXCESSIVE LOOSENESS OF THE TERMINALS.              | X  | —  |
| SOLDERING HEAT       | 2) SOLDERING IRONS:  
                        | TMP. 350 ± 10°C FOR 5±1 sec.  |                                                                |                                             |                                             |


*(note1)*

FASTEN FPC ON PCB OR SOMETHING FIXED IF FORCE IN VERTICAL DIRECTION SHALL BE PREDICTED. DO NOT CLOSE THE ACTUATOR BEFORE INSERTING FPC EVEN AFTER THE CONNECTOR IS MOUNTED ONTO A PCB. CLOSING THE ACTUATOR WITHOUT FPC COULD MAKE THE CONTACT GAP SMALLER, WHICH INCREASES THE FPC INSERTION FORCE.

THIS CONNECTOR HAS CONTACTS ON THE BOTH TOP AND BOTTOM.

⚠️ THERE’S A CASE WHICH FPC/FFC RETENTION FORCE DOESN’T FULFILL THE VALUE, BECAUSE FPC SPECIFICATION AFFECTS THE RESULT OF FPC/FFC RETENTION FORCE.