

| APPLICABLE STANDARD  |   |  |                           |  |                |
|--|---|--|---------------------------|--|----------------|
| RATING   | OPERATING TEMPERATURE RANGE   | -55 °C TO 85 °C <sup>(1)</sup>   | STORAGE TEMPERATURE RANGE | -10 °C TO 60 °C <sup>(2)</sup>           |                |
|  | VOLTAGE   | 100 V AC   | STORAGE HUMIDITY RANGE    | 40 % TO 70 % <sup>(2)</sup>              |                |
|  | CURRENT   | 0.5 A (SIGNAL CONTACT) <sup>(3)</sup><br>3 A (MF CONTACT)  | OPERATING HUMIDITY RANGE  | RELATIVE HUMIDITY 85% max<br>(NOT DEWED) |                |
| 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   | 100 mA(DC OR 1000Hz)  | SIGNAL CONTACT : 90 mΩ MAX.<br>MF CONTACT : 30 mΩ MAX.   | x                         | —  |                |
| INSULATION RESISTANCE  | 250 V DC.   | 1000 MΩ MIN.   | x                         | —  |                |
| VOLTAGE PROOF  | 300 V AC FOR 1 min.   | NO FLASHOVER OR BREAKDOWN.   | x                         | —  |                |
| MECHANICAL CHARACTERISTICS   |   |  |                           |  |                |
| INSERTION AND WITHDRAWAL FORCES  | MEASURED BY APPLICABLE CONNECTOR.   | INSERTION FORCE: 40 N MAX.<br>WITHDRAWAL FORCE: 4 N MIN.   | x                         | —  |                |
| MECHANICAL OPERATION   | 500 TIMES INSERTIONS AND EXTRACTIONS.   | ① CONTACT RESISTANCE:<br>SIGNAL CONTACT : 100 mΩ MAX.<br>MF CONTACT : 40 mΩ MAX.<br>② NO DAMAGE, CRACK AND LOOSENESS OF PARTS. | x                         | —  |                |
| VIBRATION  | FREQUENCY 10 TO 55 TO 10Hz, APPROX 5min<br>SINGLE AMPLITUDE : 0.75 mm, 10 CYCLES<br>FOR 3 DIRECTIONS.                         | ① NO ELECTRICAL DISCONTINUITY OF<br>1 μs.<br>② NO DAMAGE, CRACK AND LOOSENESS OF PARTS.  | x                         | —  |                |
| SHOCK  | 490 m/s <sup>2</sup> , DURATION OF PULSE 11 ms<br>AT 3 TIMES FOR 3 DIRECTIONS.  |  | x                         | —  |                |
| ENVIRONMENTAL CHARACTERISTICS  |   |  |                           |  |                |
| DAMP HEAT (STEADY STATE)   | EXPOSED AT 40±2 °C, 90 ~ 95 %, 96 h.  | ① CONTACT RESISTANCE:<br>SIGNAL CONTACT : 100 mΩ MAX.<br>MF CONTACT : 40 mΩ MAX.   | x                         | —  |                |
| RAPID CHANGE OF TEMPERATURE  | TEMPERATURE -55 → +85 °C<br>TIME 30 → 30 min.<br>UNDER 5 CYCLES.<br>(RELOCATION TIME TO CHAMBER:WITHIN 2~3 MIN)               | ② INSULATION RESISTANCE<br>:1000 MΩ MIN.<br>③ NO DAMAGE, CRACK AND LOOSENESS OF PARTS.   | x                         | —  |                |
| SULFUR DIOXIDE   | EXPOSED AT 25±2°C, 75±5%RH, 25 PPM FOR 96 h.<br>(TEST STANDARD: JIS C 60068)  | NO HEAVY CORROSION.  | x                         | —  |                |
| RESISTANCE TO SOLDERING HEAT   | 1)REFLOW SOLDERING :<br>PEAK TMP : 260°C MAX<br>REFLOW TMP: 220°C MIN FOR 60sec<br>2) SOLDERING IRONS : 360°C MAX. FOR 5 sec. | NO DEFORMATION OF CASE OF EXCESSIVE LOOSENESS OF THE TERMINAL.   | x                         | —  |                |
| SOLDERABILITY  | SOLDERED AT SOLDER TEMPERATURE<br>240±3°C FOR IMMERSION DURATION, 3 sec.  | A NEW UNIFORM COATING OF SOLDER SHALL COVER A MINIMUM OF 95 % OF THE SURFACE BEING IMMERSERD.                                  | x                         | —  |                |
|  |   |  |                           |  |                |
|  |   |  |                           |  |                |
| △  | COUNT   | DESCRIPTION OF REVISIONS   | DESIGNED                  | CHECKED                                  | DATE           |
|  |   |  |                           |  |                |
| REMARKS <sup>(1)</sup> INCLUDE TEMPERATURE RISE CAUSED BY CURRENT-CARRYING.<br><sup>(2)</sup> *STORAGE* MEANS A LONG-TERM STORAGE STATE FOR THE UNUSED PRODUCT BEFORE ASSEMBLY TO PCB.<br><sup>(3)</sup> THE RATED CURRENT APPLIES TO PER CONTACT. |   |  | APPROVED                  | HS. OKAWA                                | 11. 08. 30     |
|  |   |  | CHECKED                   | KI. HIROKAWA                             | 11. 08. 30     |
|  |   |  | DESIGNED                  | TH. SANO                                 | 11. 08. 30     |
| Unless otherwise specified, refer to JIS-C-5402.   |   |  | DRAWN                     | TH. SANO                                 | 11. 08. 30     |
| Note QT:Qualification Test AT:Assurance Test X:Applicable Test   |   |  | DRAWING NO.               |  | ELC4-334383-00 |
| <b>HRS</b>   | SPECIFICATION SHEET   |  | PART NO.                  | FX18-60P-0.8SV10                         |                |
|  | HIROSE ELECTRIC CO., LTD.   |  | CODE NO.                  | CL579-0023-5-00                          | △ 1/1          |