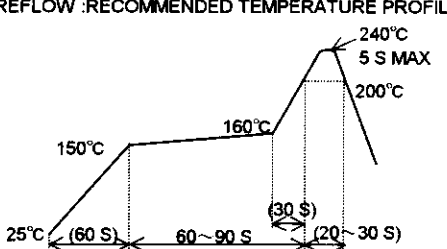


| COUNT   | DESCRIPTION OF REVISIONS    | BY   | CHKD | DATE                | COUNT   | DESCRIPTION OF REVISIONS   | BY                       | CHKD     | DATE |
|---|-----------------------------|--|------|---------------------|---|--|--------------------------|----------|------|
| △   |                             |  |      |                     | △   |  |                          |          |      |
| △   |                             |  |      |                     | △   |  |                          |          |      |
| APPLICATION STANDARD  |                             |  |      |                     |   |  |                          |          |      |
| RATING  | OPERATING TEMPERATURE RANGE | -55 °C TO 85 °C  |      |                     | STORAGE TEMPERATURE RANGE   | -10 °C TO 60 °C  |                          |          |      |
|   | VOLTAGE                     | AC 50 V  |      |                     | OPERATING HUMIDITY RANGE  | RELATIVE HUMIDITY : 95 % MAX<br>(NO DEW CONDENSATION IS PERMITTED) |                          |          |      |
|   | CURRENT                     | 0.3 A  |      |                     |   |  |                          |          |      |
| SPECIFICATIONS  |                             |  |      |                     |   |  |                          |          |      |
| ITEM  |                             | TEST METHOD  |      |                     | REQUIREMENT   |  |                          | QT       | AT   |
| CONSTRUCTION  |                             |  |      |                     |   |  |                          |          |      |
| GENERAL EXAMINATION   |                             | VISUALLY AND BY MEASURING INSTRUMENT.  |      |                     | ACCORDING TO DRAWING  |  |                          | X        | X    |
| MARKING   |                             | CONFIRMED VISUALLY.  |      |                     |   |  |                          | X        | X    |
| ELECTRICAL CHARACTERISTICS  |                             |  |      |                     |   |  |                          |          |      |
| CONTACT RESISTANCE  |                             | 100 mA (DC OR 1000 Hz).  |      |                     | 70 mΩ MAX.  |  |                          | X        | X    |
| INSULATION RESISTANCE   |                             | 100 V DC.  |      |                     | 100 MΩ MIN.   |  |                          | X        | —    |
| VOLTAGE PROOF   |                             | 150 V AC FOR 1 min.  |      |                     | NO FLASHOVER OR BREAKDOWN.  |  |                          | X        | X    |
| MECHANICAL CHARACTERISTICS  |                             |  |      |                     |   |  |                          |          |      |
| INSERTION AND WITHDRAWAL FORCES                                   |                             | MEASURED BY APPLICABLE CONNECTOR.  |      |                     | INSERTION FORCE: 48 N MAX.<br>WITHDRAWAL FORCE: 2 N MIN.                                |  |                          | X        | —    |
| MECHANICAL OPERATION  |                             | 50 TIMES INSERTION AND EXTRACTIONS.  |      |                     | 1)CONTACT RESISTANCE: 80 mΩ MAX.<br>2) NO DAMAGE, CRACK AND LOOSENESS OF PART.          |  |                          | X        | —    |
| VIBRATION   |                             | FREQUENCY: 10 TO 55 Hz, SINGLE<br>AMPLITUDE: 0.75 mm, - m/s <sup>2</sup><br>AT 10 CYCLES FOR 3 DIRECTIONS.   |      |                     | 1)NO ELECTRICAL DISCONTINUITY OF 1 μs MIN.<br>2)NO DAMAGE, CRACK AND LOOSENESS OF PART. |  |                          | X        | —    |
| SHOCK   |                             | 490 m/s <sup>2</sup> DURATION OF PULSE 11 ms 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: 80 mΩ MAX.<br>2)INSULATION RESISTANCE: 100 MΩ MIN.                |  |                          | X        | —    |
| RAPID CHAGE OF TEMPERTURE   |                             | TEMPERTURE -55→15~35→ 85→15~35°C<br>TIME 30→ 2~ 3→ 30→ 2~ 3 min.<br>UNDER 5 CYCLES.  |      |                     | 3)NO DAMAGE, CRACK AND LOOSENESS OF PART.   |  |                          | X        | —    |
| DRY HEAT  |                             | EXPOSED AT 85 °C. 96 h.  |      |                     | 1)CONTACT RESISTANCE: 80 mΩ MAX.  |  |                          | X        | —    |
| COLD  |                             | EXPOSED AT -55 °C. 96 h.   |      |                     | 2)NO DAMAGE, CRACK AND LOOSENESS OF PART.   |  |                          | X        | —    |
| CORROSION SALT MIST   |                             | EXPOSED IN 5 % SALT WATER SPRAY FOR 48 h.  |      |                     | NO HEAVY CORROSION.   |  |                          | X        | —    |
| SULPHUR DIOXIDE   |                             | EXPOSED IN 10 PPM FOR 96 h.<br>(TEST STANDARD:JIS C 0090)  |      |                     | 1)CONTACT RESISTANCE: 80 mΩ MAX.<br>2)NO HEAVY CORROSION.                               |  |                          | X        | —    |
| RESISTANCE TO SOLDERING HEAT                                      |                             | REFLOW :RECOMMENDED TEMPERATURE PROFILE<br><br>25°C (60 S) 150°C 160°C 240°C 5 S MAX 200°C (30 S) (20~30 S)<br>TO BE TESTED UNDER THE ABOVE CONDITIONS. |      |                     | NO MELTING OF RESIN WHICH AFFECTS THE PERFORMANCE OF COMPONENT.                         |  |                          | X        | —    |
| SOLDERABILITY   |                             | SOLDERED AT SOLDER TEMPERATURE, 235 °C FOR IMMERSION DURATION, 2 s.  |      |                     | NO PINHOLE OR DEWETTING ON SOLDERED SURFACE.  |  |                          | X        | —    |
| REMARKS   |                             |  |      | DRAWN               | DESIGNED  | CHECKED  | APPROVED                 | RELEASED |      |
|   |                             |  |      | <i>Matsukawa</i>    | <i>Matsukawa</i>  | <i>H. Okawa</i>  | <i>J. Yoshimura</i>      |          |      |
| UNLESS OTERWISE SPECIFIED ,REFER TO JIS C 5402.                   |                             |  |      | 00.06.20            | 00.06.20  | 00.06.21   | 00.06.23                 |          |      |
| NOTE QT: QUALIFICATION TEST AT: ASSURANCE TEST X: APPLICABLE TEST |                             |  |      |                     |   |  |                          |          |      |
| HS HIROSE ELECTRIC CO.,LTD.                                       |                             |  |      | SPECIFICATION SHEET |   |  | PART NO. FX11B- 80P - SV |          |      |
| CODE NO.(OLD)   |                             | DRAWING NO.  |      | CODE NO.            |   | 1  |                          | 1        |      |
| CL  |                             | ELC4 - 152613  |      | CL 573 - 0558- 4    |   |  |                          |          |      |