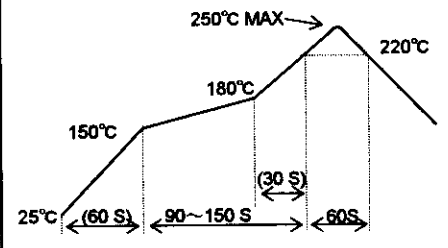


| COUNT                                                                                                        | DESCRIPTION OF REVISIONS    | BY                                                                                                                                                                         | CHKD | DATE                   | COUNT                                                                                   | DESCRIPTION OF REVISIONS                                        | BY                               | CHKD     | DATE |
|--------------------------------------------------------------------------------------------------------------|-----------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|------------------------|-----------------------------------------------------------------------------------------|-----------------------------------------------------------------|----------------------------------|----------|------|
| △                                                                                                            |                             |                                                                                                                                                                            |      |                        | △                                                                                       |                                                                 |                                  |          |      |
| △                                                                                                            |                             |                                                                                                                                                                            |      |                        | △                                                                                       |                                                                 |                                  |          |      |
| <b>APPLICATION STANDARD</b>                                                                                  |                             |                                                                                                                                                                            |      |                        |                                                                                         |                                                                 |                                  |          |      |
| 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 (NO DEW CONDENSATION IS PERMITTED) |                                  |          |      |
|                                                                                                              | CURRENT                     | 0.3 A                                                                                                                                                                      |      |                        |                                                                                         |                                                                 |                                  |          |      |
| <b>SPECIFICATIONS</b>                                                                                        |                             |                                                                                                                                                                            |      |                        |                                                                                         |                                                                 |                                  |          |      |
| ITEM                                                                                                         |                             | TEST METHOD                                                                                                                                                                |      |                        | REQUIREMENT                                                                             |                                                                 |                                  | QT       | AT   |
| <b>CONSTRUCTION</b>                                                                                          |                             |                                                                                                                                                                            |      |                        |                                                                                         |                                                                 |                                  |          |      |
| GENERAL EXAMINATION                                                                                          |                             | VISUALLY AND BY MEASURING INSTRUMENT.                                                                                                                                      |      |                        | ACCORDING TO DRAWING                                                                    |                                                                 |                                  | X        | X    |
| MARKING                                                                                                      |                             | CONFIRMED VISUALLY.                                                                                                                                                        |      |                        |                                                                                         |                                                                 |                                  | X        | X    |
| <b>ELECTRICAL CHARACTERISTICS</b>                                                                            |                             |                                                                                                                                                                            |      |                        |                                                                                         |                                                                 |                                  |          |      |
| CONTACT RESISTANCE                                                                                           |                             | 100 mA (DC OR 1000 Hz).                                                                                                                                                    |      |                        | 60 mΩ MAX.                                                                              |                                                                 |                                  | X        |      |
| INSULATION RESISTANCE                                                                                        |                             | 100 V DC.                                                                                                                                                                  |      |                        | 100 MΩ MIN.                                                                             |                                                                 |                                  | X        |      |
| VOLTAGE PROOF                                                                                                |                             | 150 V AC FOR 1 min.                                                                                                                                                        |      |                        | NO FLASHOVER OR BREAKDOWN.                                                              |                                                                 |                                  | X        | X    |
| <b>MECHANICAL CHARACTERISTICS</b>                                                                            |                             |                                                                                                                                                                            |      |                        |                                                                                         |                                                                 |                                  |          |      |
| INSERTION AND WITHDRAWAL FORCES                                                                              |                             | MEASURED BY APPLICABLE CONNECTOR.                                                                                                                                          |      |                        | INSERTION FORCE: 48 N MAX.<br>WITHDRAWAL FORCE: 5.2 N MIN.                              |                                                                 |                                  | X        |      |
| MECHANICAL OPERATION                                                                                         |                             | 50 TIMES INSERTION AND EXTRACTIONS.                                                                                                                                        |      |                        | 1)CONTACT RESISTANCE: 70 mΩ MAX.<br>2) NO DAMAGE, CRACK AND LOOSENESS OF PART.          |                                                                 |                                  | X        |      |
| VIBRATION                                                                                                    |                             | FREQUENCY: 10 TO 55 Hz, SINGLE<br>AMPLITUDE: 0.75 mm,<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        |      |
| <b>ENVIRONMENTAL CHARACTERISTICS</b>                                                                         |                             |                                                                                                                                                                            |      |                        |                                                                                         |                                                                 |                                  |          |      |
| DAMP HEAT (STEADY STATE)                                                                                     |                             | EXPOSED AT 40±2 °C, 90~95 %, 96 h.                                                                                                                                         |      |                        | 1)CONTACT RESISTANCE: 70 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: 70 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: 70 mΩ MAX.<br>2)NO HEAVY CORROSION.                               |                                                                 |                                  | X        |      |
| RESISTANCE TO SOLDERING HEAT                                                                                 |                             | REFLOW :RECOMMENDED TEMPERATURE PROFILE<br><br>TO BE TESTED UNDER THE ABOVE CONDITIONS. |      |                        | NO MELTING OF RESIN WHICH AFFECTS THE PERFORMANCE OF COMPONENT.                         |                                                                 |                                  | X        |      |
| SOLDRABILITY                                                                                                 |                             | SOLDERED AT SOLDER TEMPERATURE, 240 °C FOR IMMERSION DURATION, 3 s.                                                                                                        |      |                        | NO PINHOLE OR DEWETTING ON SOLDERED SURFACE.                                            |                                                                 |                                  | X        |      |
| REMARKS                                                                                                      |                             |                                                                                                                                                                            |      | DRAWN                  | DESIGNED                                                                                | CHECKED                                                         | APPROVED                         | RELEASED |      |
|                                                                                                              |                             |                                                                                                                                                                            |      | K. Doi                 | K. Doi                                                                                  | K. Ogawa                                                        | K. Ogawa                         |          |      |
| UNLESS OTERWISE SPECIFIED ,REFER TO JIS C 5402.                                                              |                             |                                                                                                                                                                            |      | '04.12.01              | '04.12.01                                                                               | '04.12.02                                                       | '04.12.02                        |          |      |
| NOTE QT: QUALIFICATION TEST AT: ASSURANCE TEST X: APPLICABLE TEST                                            |                             |                                                                                                                                                                            |      |                        |                                                                                         |                                                                 |                                  |          |      |
|  HIROSE ELECTRIC CO.,LTD. |                             |                                                                                                                                                                            |      | SPECIFICATION SHEET    |                                                                                         |                                                                 | PART NO. FX10B - 80P/8 - SV (91) |          |      |
| CODE NO.(OLD)                                                                                                |                             | DRAWING NO.                                                                                                                                                                |      | CODE NO.               |                                                                                         | 1                                                               |                                  |          |      |
| CL                                                                                                           |                             | ELC4 - 151948 - 21                                                                                                                                                         |      | CL 570 - 0021 - 2 - 91 |                                                                                         | 1                                                               |                                  |          |      |

