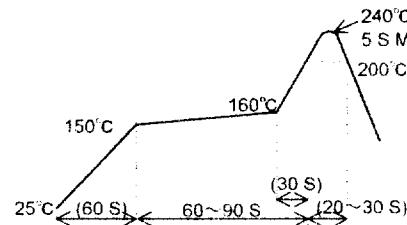


| DESCRIPTION OF REVISIONS  |   |                 |                     |   |  | BY                        | CHKD             | DATE            | DESCRIPTION OF REVISIONS                                       |          |   |   |   |   | BY | CHKD DATE |  |
|---|---|-----------------|---------------------|---|--|---------------------------|------------------|-----------------|--|----------|---|---|---|---|----|-----------|--|
| △   | △   | △               | △                   | △ | △  | △                         | △                | △               | △  | △        | △ | △ | △ | △ | △  |           |  |
| APPLICATION STANDARD  |   |                 |                     |   |  |                           |                  |                 | SPECIFICATIONS   |          |   |   |   |   |    |           |  |
| 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           |                     |   |  |                           |                  |                 |  |          |   |   |   |   |    |           |  |
| 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).   |                 |                     |   | 60 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 FORCE                                    | MEASURED BY APPLICABLE CONNECTOR.   |                 |                     |   | INSERTION FORCE: 57.6 N MAX.<br>WITHDRAWAL FORCE: 2.4 N MIN.                                   |                           |                  |                 | X  | -        |   |   |   |   |    |           |  |
| MECHANICAL OPERATION  | 50 TIMES INSERTION AND EXTRACTION.  |                 |                     |   | 1) CONTACT RESISTANCE: 70 mΩ MAX.<br>2) NO DAMAGE, CRACK AND LOOSENESS OF PART.                |                           |                  |                 | X  | -        |   |   |   |   |    |           |  |
| VIBRATION   | FREQUENCY: 10 TO 55 Hz, SINGLE AMPLITUDE: 0.75 mm, $m/s^2$ WITH 10 CYCLES IN 3 DIRECTIONS.                                      |                 |                     |   | 1) NO ELECTRICAL DISCONTINUITY OF 1 $\mu s$ MIN.<br>2) NO DAMAGE, CRACK AND LOOSENESS OF PART. |                           |                  |                 | X  | -        |   |   |   |   |    |           |  |
| SHOCK   | 490 $m/s^2$ DURATION OF PULSE 11 ms FOR 3 TIMES IN 3 DIRECTIONS.  |                 |                     |   |  |                           |                  |                 | X  | -        |   |   |   |   |    |           |  |
| ENVIRONMENTAL CHARACTERISTICS                                     |   |                 |                     |   |  |                           |                  |                 |  |          |   |   |   |   |    |           |  |
| 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 CHANGE OF TEMPERATURE                                       | TEMPERATURE -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.  |                           |                  |                 |  |          |   |   |   |   |    |           |  |
| 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                                      | <br>TO BE TESTED UNDER THE ABOVE CONDITIONS. |                 |                     |   | NO MELTING OF RESIN WHICH AFFECTS THE PERFORMANCE OF COMPONENT.                                |                           |                  |                 | X  | -        |   |   |   |   |    |           |  |
| SOLDABILITY   | 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>J. Takada</i>          | <i>J. Takada</i> | <i>M. Saito</i> | <i>J. Yamada</i>   |          |   |   |   |   |    |           |  |
| UNLESS OTHERWISE SPECIFIED, REFER TO JIS C 5402.                  |   |                 |                     |   |  | 00.01.13                  | 00.01.13         | 00.01.13        | 00.01.14   |          |   |   |   |   |    |           |  |
| NOTE QT: QUALIFICATION TEST AT: ASSURANCE TEST X: APPLICABLE TEST |   |                 |                     |   |  | PART NO.                  |                  |                 |  |          |   |   |   |   |    |           |  |
| HIROSE ELECTRIC CO., LTD.   |   |                 | SPECIFICATION SHEET |   |  | FX10B - 96S - SV          |                  |                 |  |          |   |   |   |   |    |           |  |
| CODE NO.(OLD)   |   |                 | DRAWING NO.         |   |  | CODE NO.                  |                  |                 | CL 570 - 0251 - 2  |          |   | 1 |   |   |    |           |  |
| CL  |   |                 | ELC4 - 151988       |   |  |                           |                  |                 |  |          |   | 1 |   |   |    |           |  |