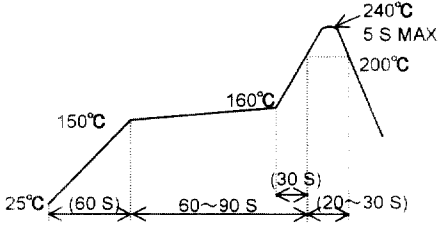


| COUNT | DESCRIPTION OF REVISIONS | BY  | CHKD | DATE    | COUNT | DESCRIPTION OF REVISIONS | BY | CHKD | DATE |
|-------|--------------------------|-----|------|---------|-------|--------------------------|----|------|------|
| 1     | RE-F-06478               | J.M | M.   | 99.7.29 |       |                          |    |      |      |
|       |                          |     |      |         |       |                          |    |      |      |

|                      |                             |                 |                                                                |
|----------------------|-----------------------------|-----------------|----------------------------------------------------------------|
| APPLICATION STANDARD |                             |                 |                                                                |
| RATING               | OPERATING TEMPERATURE RANGE | -55 °C TO 85 °C | STORAGE TEMPERATURE RANGE                                      |
|                      | VOLTAGE                     | AC 50 V         | OPERATING HUMIDITY RANGE                                       |
|                      | CURRENT                     | 0.3 A           | RELATIVE HUMIDITY: 95 % MAX (NO DEW CONDENSATION IS PERMITTED) |

| SPECIFICATIONS                                                    |                                                                                                                                                                            |                                                                                          |                          |                            |                         |          |
|-------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------|--------------------------|----------------------------|-------------------------|----------|
| ITEM                                                              | TEST METHOD                                                                                                                                                                | REQUIREMENT                                                                              | QT/AT                    |                            |                         |          |
| CONSTRUCTION                                                      |                                                                                                                                                                            |                                                                                          |                          |                            |                         |          |
| GENERAL EXAMINATION                                               | VISUALLY AND BY MEASURING INSTRUMENT.                                                                                                                                      | ACCORDING TO DRAWING                                                                     | ○ ○                      |                            |                         |          |
| MARKING                                                           | CONFIRMED VISUALLY.                                                                                                                                                        |                                                                                          | ○ ○                      |                            |                         |          |
| ELECTRICAL CHARACTERISTICS                                        |                                                                                                                                                                            |                                                                                          |                          |                            |                         |          |
| CONTACT RESISTANCE                                                | 100 mA (DC OR 1000 Hz).                                                                                                                                                    | 60 mΩ MAX.                                                                               | ○ ○                      |                            |                         |          |
| INSULATION RESISTANCE                                             | 100 V DC.                                                                                                                                                                  | 100 MΩ MIN.                                                                              | ○ -                      |                            |                         |          |
| VOLTAGE PROOF                                                     | 150 V AC FOR 1 min.                                                                                                                                                        | NO FLASHOVER OR BREAKDOWN.                                                               | ○ ○                      |                            |                         |          |
| MECHANICAL CHARACTERISTICS                                        |                                                                                                                                                                            |                                                                                          |                          |                            |                         |          |
| INSERTION AND WITHDRAWAL FORCES                                   | MEASURED BY APPLICABLE CONNECTOR.                                                                                                                                          | INSERTION FORCE: 55.2 N MAX.<br>WITHDRAWAL FORCE: 2.3 N MIN.                             | ○ -                      |                            |                         |          |
| MECHANICAL OPERATION                                              | 50 TIMES INSERTION AND EXTRACTIONS.                                                                                                                                        | 1) CONTACT RESISTANCE: 70 mΩ MAX.<br>2) NO DAMAGE, CRACK AND LOOSENESS OF PART.          | ○ -                      |                            |                         |          |
| 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 | ○ -                      |                            |                         |          |
| SHOCK                                                             | 490 m/s <sup>2</sup> DURATION OF PULSE 11 ms AT 3 TIMES FOR 3 DIRECTIONS.                                                                                                  |                                                                                          | ○ -                      |                            |                         |          |
| 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.               | ○ -                      |                            |                         |          |
| 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.                                               | ○ -                      |                            |                         |          |
| 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                                                | ○ -                      |                            |                         |          |
| CORROSION SALT MIST                                               | EXPOSED IN 5 % SALT WATER SPRAY FOR 48 h.                                                                                                                                  | NO HEAVY CORROSION.                                                                      | ○ -                      |                            |                         |          |
| 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.                              | ○ -                      |                            |                         |          |
| 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.                          | ○ -                      |                            |                         |          |
| SOLDRABILITY                                                      | SOLDERED AT SOLDER TEMPERATURE, 235 °C FOR IMMERSION DURATION, 2 s.                                                                                                        | NO PINHOLE OR DEWETTING ON SOLDERED SURFACE.                                             | ○ -                      |                            |                         |          |
| REMARKS                                                           |                                                                                                                                                                            | DRAWN                                                                                    | DESIGNED                 | CHECKED                    | APPROVED                | RELEASED |
|                                                                   |                                                                                                                                                                            | S.Kitajima<br>99.05.25                                                                   | J. Matsukawa<br>99.05.25 | M.Ishida<br>99.05.26       | Y.Yoshimura<br>99.05.27 |          |
| UNLESS OTERWISE SPECIFIED ,REFER TO JIS C 5402.                   |                                                                                                                                                                            |                                                                                          |                          |                            |                         |          |
| NOTE QT: QUALIFICATION TEST AT: ASSURANCE TEST O: APPLICABLE TEST |                                                                                                                                                                            |                                                                                          |                          |                            |                         |          |
| HRS HIROSE ELECTRIC CO.,LTD.                                      |                                                                                                                                                                            | SPECIFICATION SHEET                                                                      |                          | PART NO. FX11LB -92 S - SV |                         |          |
| CODE NO.(OLD)                                                     | DRAWING NO.                                                                                                                                                                | CODE NO.                                                                                 |                          |                            |                         |          |
| CL                                                                | ELC4 - 152121-                                                                                                                                                             | CL 573 - 0153 - 2                                                                        | 1/1                      |                            |                         |          |