

| COUNT                                                                                                                                              | DESCRIPTION OF REVISIONS    | BY                                                                                                              | CHKD | DATE                | COUNT                                                                                       | DESCRIPTION OF REVISIONS       | BY                                 | CHKD     | DATE |
|----------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------|-----------------------------------------------------------------------------------------------------------------|------|---------------------|---------------------------------------------------------------------------------------------|--------------------------------|------------------------------------|----------|------|
| △                                                                                                                                                  |                             |                                                                                                                 |      |                     | △                                                                                           |                                |                                    |          |      |
| △                                                                                                                                                  |                             |                                                                                                                 |      |                     | △                                                                                           |                                |                                    |          |      |
| 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                     | 125 V AC                                                                                                        |      |                     | OPERATING HUMIDITY RANGE                                                                    | 40 % TO 80 %                   |                                    |          |      |
|                                                                                                                                                    | CURRENT                     | 0.5 A                                                                                                           |      |                     | STORAGE HUMIDITY RANGE                                                                      | 40 % TO 70 % <sup>(2)</sup>    |                                    |          |      |
| SPECIFICATIONS                                                                                                                                     |                             |                                                                                                                 |      |                     |                                                                                             |                                |                                    |          |      |
| ITEM                                                                                                                                               |                             | TEST METHOD                                                                                                     |      |                     | REQUIREMENTS                                                                                |                                |                                    | 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).                                                                                         |      |                     | 45 mΩ MAX.                                                                                  |                                |                                    | ×        |      |
| CONTACT RESISTANCE MILLIVOLT LEVEL METHOD                                                                                                          |                             | 20 mV MAX, 1 mA(DC OR 1000Hz)                                                                                   |      |                     | 55 mΩ MAX.                                                                                  |                                |                                    | ×        |      |
| INSULATION RESISTANCE                                                                                                                              |                             | 250 V DC.                                                                                                       |      |                     | 100 MΩ MIN.                                                                                 |                                |                                    | ×        |      |
| VOLTAGE PROOF                                                                                                                                      |                             | 300 V AC FOR 1 min.                                                                                             |      |                     | NO FLASHOVER OR BREAKDOWN.                                                                  |                                |                                    | ×        |      |
| MECHANICAL CHARACTERISTICS                                                                                                                         |                             |                                                                                                                 |      |                     |                                                                                             |                                |                                    |          |      |
| MECHANICAL OPERATION                                                                                                                               |                             | 500 TIMES INSERTIONS AND EXTRACTIONS.                                                                           |      |                     | ① CONTACT RESISTANCE: 55 mΩ MAX.<br>② NO DAMAGE, CRACK AND LOOSENESS OF PARTS.              |                                |                                    | ×        |      |
| VIBRATION                                                                                                                                          |                             | FREQUENCY 10 TO 55 Hz,<br>AMPLITUDE : 1.52 mm,<br>AT 2 h FOR 3 DIRECTION.                                       |      |                     | ① NO ELECTRICAL DISCONTINUITY OF 1 μs.<br>② NO DAMAGE, CRACK AND LOOSENESS OF PARTS.        |                                |                                    | ×        |      |
| SHOCK                                                                                                                                              |                             | 490 m/s <sup>2</sup> , DURATION OF PULSE 11 ms<br>AT 3 TIMES FOR 3 DIRECTIONS.                                  |      |                     |                                                                                             |                                |                                    | ×        |      |
| ENVIRONMENTAL CHARACTERISTICS                                                                                                                      |                             |                                                                                                                 |      |                     |                                                                                             |                                |                                    |          |      |
| DAMP HEAT (STEADY STATE)                                                                                                                           |                             | EXPOSED AT 40±2 °C, 90 ~ 95 %, 96 h.                                                                            |      |                     | ① CONTACT RESISTANCE: 55 mΩ MAX.<br>② INSULATION RESISTANCE: 100 MΩ MIN.                    |                                |                                    | ×        |      |
| RAPID CHANGE OF TEMPERATURE                                                                                                                        |                             | TEMPERATURE-55→+15~+35→+85→+15~+35°C<br>TIME 30 → 10~15 → 30 → 10~15 min<br>UNDER 5 CYCLES.                     |      |                     | ③ NO DAMAGE, CRACK AND LOOSENESS OF PARTS.                                                  |                                |                                    | ×        |      |
| CORROSION SALT MIST                                                                                                                                |                             | EXPOSED IN 5 % SALT WATER SPRAY FOR 48 h.                                                                       |      |                     | ① CONTACT RESISTANCE: 55 mΩ MAX.<br>② NO HEAVY CORROSION.                                   |                                |                                    | ×        |      |
| HYDROGEN SULPHIDE                                                                                                                                  |                             | EXPOSED IN 3 PPM FOR 96 h.<br>(TEST STANDARD: JEIDA-38)                                                         |      |                     |                                                                                             |                                |                                    | ×        |      |
| RESISTANCE TO SOLDERING HEAT                                                                                                                       |                             | 1) SOLDER BATH:SOLDER TEMPERATURE, 260±5°C FOR IMMERSION,DURATION,10±1s.<br>2) SOLDERING IRONS : 360°C FOR 5 s. |      |                     | NO DEFORMATION OF CASE OF EXCESSIVE LOOSENESS OF THE TERMINAL.                              |                                |                                    | ×        |      |
| SOLDRABILITY                                                                                                                                       |                             | SOLDERED AT SOLDER TEMPERATURE 240±3°C FOR IMMERSION DURATION, 2s.                                              |      |                     | A NEW UNIFORM COATING OF SOLDER SHALL OVER A MINIMUM OF 95 % OF THE SURFACE BEING IMMersed. |                                |                                    | ×        |      |
| REMARKS                                                                                                                                            |                             |                                                                                                                 |      |                     |                                                                                             |                                |                                    |          |      |
| 1)TEMPERATURE RISE INCLUDED WHEN ENERGIZED.<br>2)THIS STORAGE INDICATES A LONG-TERM STORAGE STATE FOR THE UNUSED PRODUCT BEFORE THE BOARD MOUNTED. |                             |                                                                                                                 |      | DRAWN               | DESIGNED                                                                                    | CHECKED                        | APPROVED                           | RELEASED |      |
|                                                                                                                                                    |                             |                                                                                                                 |      | I.OKAYAMA           | K.NAKAMURA                                                                                  | H. Okawa                       | H. Okawa                           |          |      |
| Unless otherwise specified, refer to MIL-STD-1344.                                                                                                 |                             |                                                                                                                 |      | 04.06.09            | 04.06.09                                                                                    | 04.06.09                       | 04.06.09                           |          |      |
| Note QT:Qualification Test AT:Assurance Test ×:Applicable Test                                                                                     |                             |                                                                                                                 |      |                     |                                                                                             |                                |                                    |          |      |
| HRS HIROSE ELECTRIC CO., LTD.                                                                                                                      |                             |                                                                                                                 |      | SPECIFICATION SHEET |                                                                                             |                                | PART NO.<br>FX2C-**P-1. 27DSA (71) |          |      |
| CODE NO.(OLD)                                                                                                                                      |                             | DRAWING NO.                                                                                                     |      |                     | CODE NO.                                                                                    |                                |                                    | 1<br>1   |      |
| CL                                                                                                                                                 |                             | ELC4 – 083045-21                                                                                                |      |                     | CL 572                                                                                      |                                |                                    |          |      |