


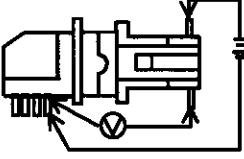


|   |                             |  |                               |      |      |  |                  |                          |                           |          |      |
|---|-----------------------------|--|-------------------------------|------|------|--|------------------|--------------------------|---------------------------|----------|------|
|   | 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               |      |      | STORAGE TEMPERATURE RANGE  |                  | °C TO °C                 |                           |          |      |
|   | VOLTAGE                     |  | 125 V AC , 175 V DC           |      |      | OPERATING HUMIDITY RANGE   |                  | % TO %                   |                           |          |      |
|   | CURRENT                     |  | 0.5 A                         |      |      | APPLICABLE CABLE   |                  | UL2789 AWG No.28         |                           |          |      |
| SPECIFICATIONS  |                             |  |                               |      |      |  |                  |                          |                           |          |      |
| ITEM  |                             | TEST METHOD  |                               |      |      | REQUIREMENTS   |                  |                          | QT                        | AT       |      |
| CONSTRUCTION  |                             |  |                               |      |      |  |                  |                          |                           |          |      |
| GENERAL EXAMINATION   |                             | VISUALLY AND BY MEASURING INSTRUMENT.  |                               |      |      | ACCORDING TO DRAWING.  |                  |                          | ○                         | ○        |      |
| MARKING   |                             | CONFIRMED VISUALLY.  |                               |      |      |  |                  |                          | ○                         | ○        |      |
| ELECTRIC CHARACTERISTICS  |                             |  |                               |      |      |  |                  |                          |                           |          |      |
| CONTACT RESISTANCE  |                             | 100 mA (DC OR 1000 Hz).                 |                               |      |      | 50 mΩ MAX.   |                  |                          | ○                         | ○        |      |
| INSULATION RESISTANCE   |                             | 100 V DC.  |                               |      |      | 250 MΩ MIN.  |                  |                          | ○                         | ○        |      |
| VOLTAGE PROOF   |                             | 300 V AC FOR 1 min.  |                               |      |      | NO FLASHOVER OR BREAKDOWN.   |                  |                          | ○                         | ○        |      |
| MECHANICAL CHARACTERISTICS  |                             |  |                               |      |      |  |                  |                          |                           |          |      |
| INSERTION AND WITHDRAWAL FORCES   |                             | MEASURED BY APPLICABLE CONNECTOR.  |                               |      |      | 14.7 N MIN.<br>53.9 N MAX.   |                  |                          | ○                         | —        |      |
| MECHANICAL OPERATION  |                             | 1000 TIMES INSERTIONS AND EXTRACTIONS.  |                               |      |      | ① CONTACT RESISTANCE: 50 mΩ MAX.<br>② NO DAMAGE, CRACK AND LOOSENESS, OF PARTS.  |                  |                          | ○                         | —        |      |
| VIBRATION   |                             | FREQUENCY 10 TO 55 Hz, SINGLE AMPLITUDE 0.75 mm, — m/s <sup>2</sup> AT 2h, FOR 3 DIRECTIONS.                             |                               |      |      | NO DAMAGE, CRACK AND LOOSENESS, OF PARTS.  |                  |                          | ○                         | —        |      |
| SHOCK   |                             | 490 m/s <sup>2</sup> DURATION OF PULSE 11 ms AT 3 TIMES FOR 6 DIRECTIONS.  |                               |      |      |  |                  |                          | ○                         | —        |      |
| ENVIRONMENTAL CHARACTERISTICS   |                             |  |                               |      |      |  |                  |                          |                           |          |      |
| RAPID CHANGE OF TEMPERATURE   |                             | TEMPERATURE -55 → 5~35 → 85 → 5~35 °C<br>TIME 30 → 2~3 → 30 → 2~3 min<br>UNDER 5 CYCLES.                                 |                               |      |      | NO DAMAGE, CRACK AND LOOSENESS, OF PARTS.  |                  |                          | ○                         | —        |      |
| DAMP HEAT (STEADY STATE)  |                             | EXPOSED AT 40 °C, 90~95 %, 96 h.   |                               |      |      | INSULATION RESISTANCE:<br>1 MΩ MIN. (AT HIGH HUMIDITY.)<br>100 MΩ MIN. (AT DRY.) |                  |                          | ○                         | —        |      |
| CORROSION SALT MIST   |                             | EXPOSED IN 5 % SALT WATER SPRAY FOR 48 h.  |                               |      |      | NO HEAVY CORROSION.  |                  |                          | ○                         | —        |      |
| NOTE:  MEASUREMENT POINT OF CONTACT RESISTANCE |                             |  |                               |      |      |  |                  |                          |                           |          |      |
|    |                             |  |                               |      |      |  |                  |                          |                           |          |      |
| REMARKS   |                             |  |                               |      |      | DRAWN  | DESIGNED         | CHECKED                  | APPROVED                  | RELEASED |      |
|   |                             |  |                               |      |      | <i>T. Kameya</i>   | <i>T. Kameya</i> | <i>Y. Enami</i>          | <i>H. Miura</i>           |          |      |
| Unless otherwise specified, refer to JIS C 5402.  |                             |  |                               |      |      | 03.9.24  | 03.9.24          | 03.09.25                 | 03.09.25                  |          |      |
| Note QT:Qualification Test AT:Assurance Test ○:Applicable Test  |                             |  |                               |      |      |  |                  |                          |                           |          |      |
| <b>HRS</b> HIROSE ELECTRIC CO., LTD.  |                             |  |                               |      |      | SPECIFICATION SHEET  |                  |                          | PART NO.<br>DX31A-50P(50) |          |      |
| CODE NO.(OLD)<br>CL   |                             |  | DRAWING NO.<br>ELC4-027486-01 |      |      | CODE NO.<br>CL230-0032-5-50  |                  |                          | 1/1                       |          |      |