

| APPLICABLE STANDARD                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                                                                           |                                                                                           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                 |                                                                                           |
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| RATING                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | OPERATING TEMPERATURE RANGE                                                               | -25°C TO +85°C                                                                            | STORAGE TEMPERATURE RANGE                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | -25°C TO +60°C  |                                                                                           |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | OPERATING&STORAGE HUMIDTY RANGE                                                           | 85%MAX   | —                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | —               |                                                                                           |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | VOLTAGE                                                                                   | AC 125V  | CURRENT                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 0.5 A           |                                                                                           |
| SPECIFICATIONS                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                                                           |                                                                                           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                 |                                                                                           |
| ITEM                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | TEST METHOD                                                                               |                                                                                           | REQUIREMENTS                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | QT              | AT                                                                                        |
| 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).                                                                   |                                                                                           |   <br>USING IDC TYPE : 50mΩ MAX. (SIGNAL)<br> <br>USING SOLDER TYPE : 65mΩ MAX. (SIGNAL) | X               | —                                                                                         |
| INSULATION RESISTANCE                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 100 V DC.                                                                                 |                                                                                           | 1000 MΩ MIN.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | X               | —                                                                                         |
| VOLTAGE PROOF                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 250 V AC FOR 1 min.                                                                       |                                                                                           | NO FLASHOVER OR BREAKDOWN.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | X               | X                                                                                         |
| MECHANICAL CHARACTERISTICS                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                                                                           |                                                                                           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                 |                                                                                           |
| INSERTION AND WITHDRAWAL FORCES                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | MEASURED BY APPLICABLE CONNECTOR.                                                         |                                                                                           | INSERTION FORCE 30N MAX.<br>WITHDRAWAL FORCE 3 N MIN.                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | X               | —                                                                                         |
| MECHANICAL OPERATION                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 1000 TIMES INSERTIONS AND EXTRACTIONS.                                                    |                                                                                           | 1) CONTACT RESISTANCE  <br> USING IDC TYPE : 70mΩ MAX.<br> USING SOLDER TYPE : 85mΩ MAX.<br>2) NO DAMAGE, CRACK AND LOOSENESS OF PARTS.                                     | X               | —                                                                                         |
| VIBRATION                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | FREQUENCY 10 TO 55 Hz<br>SINGLE AMPLITUDE 0.75 mm, 5 min/CYCLE,<br>TOTAL 10 CYCLES.       |                                                                                           | 1) NO ELECTRICAL DISCONTINUITY OF 10 μs.<br>2) NO DAMAGE, CRACK AND LOOSENESS OF PARTS.                                                                                                                                                                                                                                                                                                                                                                                                                               | X               | —                                                                                         |
| SHOCK                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 490 m/s <sup>2</sup> DIRECTIONS OF PULSE 11 ms AT 3 TIMES<br>FOR 3 DIRECTIONS.            |                                                                                           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | X               | —                                                                                         |
| ENVIRONMENTAL CHARACTERISTICS                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                                                                           |                                                                                           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                 |                                                                                           |
| THERMAL SHOCK                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | TEMP -55 → +5 TO +35 → +85 → +5 TO +35 °C<br>TIME 30 → 5 → 30 → 5 min.<br>UNDER 5 CYCLES. |                                                                                           | 1) CONTACT RESISTANCE  <br> USING IDC TYPE : 70mΩ MAX.<br> USING SOLDER TYPE : 85mΩ MAX.<br>2) NO DAMAGE, CRACK AND LOOSENESS OF PARTS.                             | X               | —                                                                                         |
| HUMIDITY LIFE                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | TEMPERATURE 40 °C, HUMIDITY 90 TO 95 %,<br>FOR 96 h                                       |                                                                                           | 1) INSULATION RESISTANCE: 100 MΩ MIN.<br>2) NO DAMAGE, CRACK AND LOOSENESS OF PARTS.                                                                                                                                                                                                                                                                                                                                                                                                                                  | X               | —                                                                                         |
| CORROSION SALT MIST                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | EXPOSED AT 5 % SALT WATER, FOR 48 h.                                                      |                                                                                           | NO HEAVY CORROSION THAT LOSE FUNCTION.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | X               | —                                                                                         |
| <div> EXCLUDES CONDUCTOR RESISTANCE OF CABLE.<br/>  EXAMINATION IS HELD WITH "DH-27-CT*B" , "DH3*B-27S" AND "DH60A-27P".<br/>(PLUG : IDC TYPE)<br/>  EXAMINATION IS HELD WITH "DH-27-CT*B" , "DH40-27S" AND "DH60A-27P".<br/>(PLUG : SOLDER TYPE)</div> |                                                                                           |                                                                                           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                 |                                                                                           |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | COUNT                                                                                     | DESCRIPTION OF REVISIONS                                                                  | DESIGNED                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | CHECKED         | DATE                                                                                      |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 5                                                                                         | DIS-E-003449                                                                              | TY. MIURA                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | AH. KODAMA      | 10. 10. 13                                                                                |
| REMARK                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                                                                           |                                                                                           | APPROVED                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | AO. SUZUKI      | 09. 05. 07                                                                                |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                                                                           |                                                                                           | CHECKED                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | KN. ICHIKAWA    | 09. 05. 07                                                                                |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                                                                           |                                                                                           | DESIGNED                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | MO. SHIMOYAMA   | 09. 05. 07                                                                                |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                                                                           |                                                                                           | DRAWN                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | MO. SHIMOYAMA   | 09. 05. 07                                                                                |
| Unless otherwise specified, refer to JIS C 5402.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                                                                           |                                                                                           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                 |                                                                                           |
| Note QT:Qualification Test AT:Assurance Test X:Applicable Test                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                                                           |                                                                                           | DRAWING NO.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                 | ELC4-126626-00                                                                            |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | SPECIFICATION SHEET                                                                       |                                                                                           | PART NO.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | DH60A-27P       |                                                                                           |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | HIROSE ELECTRIC CO., LTD.                                                                 |                                                                                           | CODE NO.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | CL244-0029-3-00 |  1/1 |