

| APPLICABLE STANDARD                                                                                                                                                                                                                                                                                |                                                                                           |                                                                                                                                                                         |                           |                 |                  |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------|-----------------|------------------|
| 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           |                  |
| <b>SPECIFICATIONS</b>                                                                                                                                                                                                                                                                              |                                                                                           |                                                                                                                                                                         |                           |                 |                  |
| ITEM                                                                                                                                                                                                                                                                                               | TEST METHOD                                                                               | REQUIREMENTS                                                                                                                                                            | QT                        | AT              |                  |
| <b>CONSTRUCTION</b>                                                                                                                                                                                                                                                                                |                                                                                           |                                                                                                                                                                         |                           |                 |                  |
| GENERAL EXAMINATION                                                                                                                                                                                                                                                                                | VISUALLY AND BY MEASURING INSTRUMENT.                                                     | ACCORDING TO DRAWING.                                                                                                                                                   | X                         | X               |                  |
| MARKING                                                                                                                                                                                                                                                                                            | CONFIRMED VISUALLY.                                                                       |                                                                                                                                                                         | X                         | X               |                  |
| <b>ELECTRICAL CHARACTERISTICS</b>                                                                                                                                                                                                                                                                  |                                                                                           |                                                                                                                                                                         |                           |                 |                  |
| CONTACT RESISTANCE                                                                                                                                                                                                                                                                                 | 100 mA (DC OR 1000 Hz).                                                                   | <div>1</div> <div>2</div> USING IDC TYPE : 50mΩ MAX. (SIGNAL) <div>1</div> <div>1</div> <div>3</div> 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               |                  |
| <b>MECHANICAL CHARACTERISTICS</b>                                                                                                                                                                                                                                                                  |                                                                                           |                                                                                                                                                                         |                           |                 |                  |
| 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 <div>1</div> <div>2</div> <div>3</div> 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                         | —               |                  |
| <b>ENVIRONMENTAL CHARACTERISTICS</b>                                                                                                                                                                                                                                                               |                                                                                           |                                                                                                                                                                         |                           |                 |                  |
| 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 <div>1</div> <div>2</div> <div>3</div> 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>1</div> EXCLUDES CONDUCTOR RESISTANCE OF CABLE.<br><div>1</div> <div>2</div> EXAMINATION IS HELD WITH "DH-27-CV*B" , "DH3*B-27S" AND "DH80-27P".<br>(PLUG : IDC TYPE)<br><div>1</div> <div>3</div> EXAMINATION IS HELD WITH "DH-27-CV*B" , "DH40-27S" AND "DH80-27P".<br>(PLUG : SOLDER TYPE) |                                                                                           |                                                                                                                                                                         |                           |                 |                  |
|                                                                                                                                                                                                                                                                                                    | COUNT                                                                                     | DESCRIPTION OF REVISIONS                                                                                                                                                | DESIGNED                  | CHECKED         | DATE             |
| <div>1</div>                                                                                                                                                                                                                                                                                       | 5                                                                                         | DIS-E-003449                                                                                                                                                            | TY. MIURA                 | AH. KODAMA      | 10. 10. 13       |
| REMARK                                                                                                                                                                                                                                                                                             |                                                                                           |                                                                                                                                                                         | APPROVED                  | AO. SUZUKI      | 10. 09. 02       |
|                                                                                                                                                                                                                                                                                                    |                                                                                           |                                                                                                                                                                         | CHECKED                   | KN. ICHIKAWA    | 10. 09. 02       |
|                                                                                                                                                                                                                                                                                                    |                                                                                           |                                                                                                                                                                         | DESIGNED                  | MO. SHIMOYAMA   | 10. 09. 02       |
| Unless otherwise specified, refer to JIS C 5402.                                                                                                                                                                                                                                                   |                                                                                           |                                                                                                                                                                         | DRAWN                     | MO. SHIMOYAMA   | 10. 09. 02       |
| Note QT:Qualification Test AT:Assurance Test X:Applicable Test                                                                                                                                                                                                                                     |                                                                                           |                                                                                                                                                                         | DRAWING NO.               |                 | ELC4-127043-00   |
| <b>HRS</b>                                                                                                                                                                                                                                                                                         | SPECIFICATION SHEET                                                                       |                                                                                                                                                                         | PART NO.                  | DH80-27P        |                  |
|                                                                                                                                                                                                                                                                                                    | HIROSE ELECTRIC CO., LTD.                                                                 |                                                                                                                                                                         | CODE NO.                  | CL244-0051-2-00 | <div>1</div> 1/1 |