

| APPLICABLE STANDARD                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                                                                           |                                       |                                                                                                                                       |                           |                    |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------|---------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------|---------------------------|--------------------|
| RATING                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | OPERATING TEMPERATURE RANGE                                                               | 1 -25 °C TO +85 °C                    |                                                                                                                                       | STORAGE TEMPERATURE RANGE | 2 -25 °C TO +60 °C |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | VOLTAGE                                                                                   | 125 V AC                              |                                                                                                                                       | OPERATING HUMIDITY RANGE  | 85 %MAX            |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | CURRENT                                                                                   | 0.5 A                                 |                                                                                                                                       | APPLICABLE CABLE          | -                  |
| 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                |
| ELECTRIC CHARACTERISTICS                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                                                           |                                       |                                                                                                                                       |                           |                    |
| CONTACT RESISTANCE                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 100 mA (DC OR 1000 Hz AC).                                                                | 3 4 5                                 | USING IDC TYPE : 50 mΩ MAX. (SIGNAL)<br>USING SOLDER TYPE : 65 mΩ MAX. (SIGNAL)                                                       | X                         | -                  |
| INSULATION RESISTANCE                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 100 V DC.                                                                                 |                                       | 1000 MΩ MIN.                                                                                                                          | X                         | -                  |
| VOLTAGE PROOF                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 250 V AC 1 min.                                                                           |                                       | NO FLASHOVER OR BREAKDOWN.                                                                                                            | X                         | X                  |
| MECHANICAL CHARACTERISTICS                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                                                                           |                                       |                                                                                                                                       |                           |                    |
| INSERTION AND WITHDRAWAL FORCES                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | MEASURED BY APPLICABLE CONNECTOR.                                                         |                                       | INSERTION FORCE : 36 N MAX.<br>WITHDRAWAL FORCE : 3.3 N MIN.                                                                          | X                         | -                  |
| MECHANICAL OPERATION                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 1000 TIMES INSERTIONS AND EXTRACTIONS.                                                    | 3 4 5                                 | 1) CONTACT RESISTANCE<br>USING IDC TYPE : 70 mΩ MAX.<br>USING SOLDER TYPE : 85 mΩ 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/CYCLES,<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<br>AT 3 TIMES FOR 3 DIRECTIONS.            |                                       |                                                                                                                                       | X                         | -                  |
| ENVIRONMENTAL CHARACTERISTICS                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                                                           |                                       |                                                                                                                                       |                           |                    |
| DAMP HEAT                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | TEMPERATURE 40 °C, HUMIDITY 90 TO 95 %, FOR 96 h.                                         |                                       | 1) INSULATION RESISTANCE: 100 MΩ MIN.<br>2) NO DAMAGE, CRACK AND LOOSENESS OF PARTS.                                                  | X                         | -                  |
| RAPID CHANGE OF TEMPERATURE                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | TEMP -55 → +5 TO +35 → +85 → +5 TO +35 °C<br>TIME 30 → 5 → 30 → 5 min.<br>UNDER 5 CYCLES. | 3 4 5                                 | 1) CONTACT RESISTANCE<br>USING IDC TYPE : 70 mΩ MAX.<br>USING SOLDER TYPE : 85 mΩ MAX.<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                         | -                  |
| SOLDERABILITY                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 1 SOLDERED AT SOLDER TEMPERATURE, 245 ± 5 °C<br>FOR IMMERSION, DURATION 3 ± 0.5 S.        |                                       | MIN. 95 % OF SOLDER IMMERSED AREA<br>SHALL BE COVERED NEW SOLDER COATING.                                                             | X                         | -                  |
| RESISTANCE TO SOLDERING HEAT                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 1 A PROFILE IS SHOWN IN FIG-1, UNDER 2 CYCLES.                                            |                                       | NO DEFORMATION OR SIGNIFICANT LOOSENESS OF CONTACTS.                                                                                  | X                         | -                  |
| <div> <div> 1 THE OPERATION TEMPERATURE INCLUDES THE RISE BY CURRENT CARRYING. 2 STORAGE TEMPERATURE RANGE SHOWS STORAGE CONDITION FOR UNUSED PRODUCTS INCLUDING PACKING MATERIALS.<br/>FOLLOW THE OPERATING TEMPERATURE RANGE FOR STORAGE CONDITION AFTER MOUNTING. 3 EXCLUDES CONDUCTOR RESISTANCE OF CABLE. 4 EXAMINATION IS HELD WITH "DH-37-CT*B", "DH3*B-37S" AND "DH80A-37P".<br/>(PLUG : IDC TYPE) 5 EXAMINATION IS HELD WITH "DH-37-CT*B", "DH40-37S" AND "DH80A-37P".<br/>(PLUG : SOLDER TYPE) </div> <div> FIG-1 REFLOW TEMPERATURE PROFILE  </div> </div> |                                                                                           |                                       |                                                                                                                                       |                           |                    |
| COUNT                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | DESCRIPTION OF REVISIONS                                                                  | DESIGNED                              | CHECKED                                                                                                                               | DATE                      |                    |
| 4                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | DIS-E-004287                                                                              | MT. ITANO                             | EJ. WAKATSUKI                                                                                                                         | 12. 07. 17                |                    |
| REMARK                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                                                           |                                       | APPROVED                                                                                                                              | AO. SUZUKI                | 12. 03. 12         |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                                                                           |                                       | CHECKED                                                                                                                               | RI. TAKAYASU              | 12. 03. 12         |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                                                                           |                                       | DESIGNED                                                                                                                              | MT. ITANO                 | 12. 03. 12         |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                                                                           |                                       | DRAWN                                                                                                                                 | MT. ITANO                 | 12. 03. 12         |
| Unless otherwise specified, refer to JIS C 5402.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                                                                           |                                       |                                                                                                                                       |                           |                    |
| Note QT:Qualification Test AT:Assurance Test X:Applicable Test                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                                                                           |                                       | DRAWING NO.                                                                                                                           |                           | ELC4-127954-00     |
| HRS                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | SPECIFICATION SHEET                                                                       |                                       | PART NO.                                                                                                                              | DH80A-37P                 |                    |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | HIROSE ELECTRIC CO., LTD.                                                                 |                                       | CODE NO.                                                                                                                              | CL244-0068-5-00           | 1/1                |