

| COUNT  | DESCRIPTION OF REVISIONS    | BY   | CHKD | DATE                    | COUNT   | DESCRIPTION OF REVISIONS | BY                          | CHKD     | DATE |
|--|-----------------------------|--|------|-------------------------|---|--------------------------|-----------------------------|----------|------|
| △  | 3                           | RE-E-08257   | K.H  | A-5                     | △   |                          |                             |          |      |
| △  |                             |  |      | 61.12.2/                | △   |                          |                             |          |      |
| APPLICABLE STANDARD TIA/EIA-568-B.2 CATEGORY5e △               |                             |  |      |                         |   |                          |                             |          |      |
| RATING   | OPERATING TEMPERATURE RANGE | -25 °C TO 60 °C  |      |                         | STORAGE TEMPERATURE RANGE   | -25 °C TO 60 °C          |                             |          |      |
|  | VOLTAGE                     | 125 V AC   |      |                         | CURRENT   | 1 A △                    |                             |          |      |
| SPECIFICATIONS   |                             |  |      |                         |   |                          |                             |          |      |
| ITEM   |                             | TEST METHOD  |      |                         | REQUIREMENTS  |                          |                             | QT       | AT   |
| CONSTRUCTION   |                             |  |      |                         |   |                          |                             |          |      |
| GENERAL EXAMINATION  |                             | VISUALLY AND BY MEASURING INSTRUMENT.  |      |                         | ACCORDING TO DRAWING.   |                          |                             | ○        | ○    |
| MARKING  |                             | CONFIRMED VISUALLY.  |      |                         |   |                          |                             | ○        | ○    |
| ELECTRIC CHARACTERISTICS                                       |                             |  |      |                         |   |                          |                             |          |      |
| CONTACT RESISTANCE   |                             | 100 mA (DC OR 1000 Hz AC).<br>MEASUREMENT POINTS SHALL BE AS FOLLOWS                                   |      |                         | 230 mΩ MAX.   |                          |                             | ○        | ○    |
|  |                             |  |      |                         |   |                          |                             |          |      |
| INSULATION RESISTANCE  |                             | 100 V DC.  |      |                         | 100 MΩ MIN.   |                          |                             | ○        | ○    |
| VOLTAGE PROOF  |                             | 500 V AC FOR 1 min.  |      |                         | NO FLASHOVER OR BREAKDOWN.  |                          |                             | ○        | ○    |
| NEAR END CROSSTALK(NEXT)LOSS                                   |                             | MEASURED MINIMUM NEXT LOSS FOR EACH PAIR COMBINATION AT 100 Hz   |      |                         | 43 dB MIN. △  |                          |                             | ○        | —    |
| MECHANICAL CHARACTERISTICS                                     |                             |  |      |                         |   |                          |                             |          |      |
| MECHANICAL OPERATION   |                             | 200 TIMES INSERTIONS AND EXTRACTIONS.  |      |                         | ① CONTACT RESISTANCE: 250 mΩ MAX.<br>② NO DAMAGE, CRACK AND LOOSENESS, OF PARTS.  |                          |                             | ○        | —    |
| VIBRATION  |                             | FREQUENCY 10 TO 55 Hz, SINGLE AMPLITUDE 0.75 mm, — m/s² AT 2 h, FOR 3 DIRECTIONS.                      |      |                         | ① NO ELECTRICAL DISCONTINUITY OF 5 μs.<br>② CONTACT RESISTANCE: 250 mΩ MAX.   |                          |                             | ○        | —    |
| SHOCK  |                             | 490 m/s² DIRECTIONS OF PULSE 11 ms AT 3 TIME FOR 3 DIRECTION.  |      |                         | ③ NO DAMAGE, CRACK AND LOOSENESS, OF PARTS.   |                          |                             | ○        | —    |
| ENVIRONMENTAL CHARACTERISTICS                                  |                             |  |      |                         |   |                          |                             |          |      |
| DAMP HEAT (STEADY STATE)                                       |                             | EXPOSED AT 40 °C, 90 TO 95 %, 500 h.   |      |                         | ① CONTACT RESISTANCE: 250 mΩ MAX.<br>② INSULATION RESISTANCE: 1 MΩ MIN. (AT HIGH HUMIDITY)<br>③ INSULATION RESISTANCE: 10 MΩ MIN. (AT DRY)<br>④ NO DAMAGE, CRACK AND LOOSENESS, OF PARTS. |                          |                             | ○        | —    |
| RAPID CHANGE OF TEMPERATURE                                    |                             | TEMPERATURE -55±3 →5 TO 35→85±2 → 5 TO 35°C<br>TIME 30 TO 35→5 MAX→30 TO 35 →5 MAX min UNDER 5 CYCLES. |      |                         | ① CONTACT RESISTANCE: 250 mΩ MAX.<br>② INSULATION RESISTANCE: 100 MΩ MIN.<br>③ NO DAMAGE, CRACK AND LOOSENESS, OF PARTS.  |                          |                             | ○        | —    |
| CORROSION SALT MIST  |                             | EXPOSED IN 5 % SALT WATER SPRAY FOR 48 h.  |      |                         | ① CONTACT RESISTANCE: 250 mΩ MAX.<br>② NO DAMAGE, CRACK AND LOOSENESS, OF PARTS.  |                          |                             | ○        | —    |
| REMARKS  |                             |  |      | DRAWN                   | DESIGNED  | CHECKED                  | APPROVED                    | RELEASED |      |
|  |                             |  |      | S.Sato<br>00.07.03      | S.Sato<br>00.07.03  | T.Watanabe<br>00.07.03   | H.Miwa<br>00.07.03          |          |      |
| Unless otherwise specified, refer to JIS C 5402.               |                             |  |      |                         |   |                          |                             |          |      |
| Note QT:Qualification Test AT:Assurance Test ○:Applicable Test |                             |  |      |                         |   |                          |                             |          |      |
| HRS HIROSE ELECTRIC CO., LTD.                                  |                             |  |      | SPECIFICATION SHEET     |   |                          | PART NO.<br>TM21P - 88P 「 」 |          |      |
| CODE NO.(OLD)  |                             | DRAWING NO.  |      | CODE NO.                |   | 1/1                      |                             |          |      |
|  |                             | ELC4 - 121484 - 04   |      | CL 222 - 2862 - 9 - 「 」 |   |                          |                             |          |      |