

| COUNT                                                          | DESCRIPTION OF REVISIONS    | BY                                                                                             | CHKD | DATE | COUNT                                                                                                                 | DESCRIPTION OF REVISIONS | BY                   | CHKD                              | DATE      |
|----------------------------------------------------------------|-----------------------------|------------------------------------------------------------------------------------------------|------|------|-----------------------------------------------------------------------------------------------------------------------|--------------------------|----------------------|-----------------------------------|-----------|
| △                                                              |                             |                                                                                                |      |      | △                                                                                                                     |                          |                      |                                   |           |
| △                                                              |                             |                                                                                                |      |      | △                                                                                                                     |                          |                      |                                   |           |
| <b>APPLICABLE STANDARD</b>                                     |                             |                                                                                                |      |      |                                                                                                                       |                          |                      |                                   |           |
| <b>RATING</b>                                                  | OPERATING TEMPERATURE RANGE | -30 °C TO +85 °C (NOTE1)                                                                       |      |      | STORAGE TEMPERATURE RANGE                                                                                             | -10 °C TO +60 °C         |                      |                                   |           |
|                                                                | VOLTAGE                     | 300 V AC                                                                                       |      |      | APPLICABLE CONNECTOR                                                                                                  | MDF 6 - *DS - 3.5C       |                      |                                   |           |
|                                                                | CURRENT                     | AWG 20 5A                                                                                      |      |      | APPLICABLE CABLE                                                                                                      | UL1007 AWG20 TO 22       |                      |                                   |           |
|                                                                |                             | AWG 22 4A                                                                                      |      |      |                                                                                                                       |                          |                      |                                   |           |
| <b>SPECIFICATIONS</b>                                          |                             |                                                                                                |      |      |                                                                                                                       |                          |                      |                                   |           |
| <b>ITEM</b>                                                    |                             | <b>TEST METHOD</b>                                                                             |      |      | <b>REQUIREMENTS</b>                                                                                                   |                          |                      | <b>QT</b>                         | <b>AT</b> |
| <b>CONSTRUCTION</b>                                            |                             |                                                                                                |      |      |                                                                                                                       |                          |                      |                                   |           |
| GENERAL EXAMINATION                                            |                             | VISUALLY AND BY MEASURING INSTRUMENT.                                                          |      |      | ACCORDING TO DRAWING.                                                                                                 |                          |                      | ×                                 | ×         |
| MARKING                                                        |                             | CONFIRMED VISUALLY.                                                                            |      |      |                                                                                                                       |                          |                      | ×                                 | ×         |
| <b>ELECTRICAL CHARACTERISTICS</b>                              |                             |                                                                                                |      |      |                                                                                                                       |                          |                      |                                   |           |
| CONTACT RESISTANCE                                             |                             | 100 mA (DC OR 1000 Hz).                                                                        |      |      | 30 mΩ MAX.                                                                                                            |                          |                      | ×                                 | —         |
| <b>MECHANICAL CHARACTERISTICS</b>                              |                             |                                                                                                |      |      |                                                                                                                       |                          |                      |                                   |           |
| CONTACT INSERTION AND EXTRACTION FORCES                        |                             | □ 1.52 × 0.76 ± 0.002 BY STEEL GAUGE.                                                          |      |      | INSERTION FORCE 4.9N MAX<br>EXTRACTION FORCE 0.4N MIN                                                                 |                          | ×                    | —                                 |           |
| VIBRATION                                                      |                             | FREQUENCY 10 TO 55Hz, SINGLE AMPLITUDE 0.75 mm, AT 2 h, FOR 3 DIRECTIONS.                      |      |      | ① NO ELECTRICAL DISCONTINUITY OF 1 μs.                                                                                |                          | ×                    | —                                 |           |
| SHOCK                                                          |                             | 490 m/s <sup>2</sup> DURATION OF PULSE 11 ms AT 3 TIMES FOR 3 DIRECTIONS.                      |      |      | ② NO DAMAGE, CRACK OR LOOSENESS OF PARTS.                                                                             |                          | ×                    | —                                 |           |
| MECHANICAL OPERATION                                           |                             | 30 TIMES INSERTIONS AND EXTRACTIONS.                                                           |      |      | ① CONTACT RESISTANCE : 30 mΩ MAX.<br>② NO DAMAGE, CRACK OR LOOSENESS OF PARTS.                                        |                          | ×                    | —                                 |           |
| <b>ENVIRONMENTAL CHARACTERISTICS</b>                           |                             |                                                                                                |      |      |                                                                                                                       |                          |                      |                                   |           |
| RAPID CHANGE OF TEMPERATURE                                    |                             | TEMPERATURE -55 → 15~30 → +85 → 15~30 °C<br>TIME 30 → 10~15 → 30 → 10~15 min<br>UNDER 5CYCLES. |      |      | ① CONTACT RESISTANCE: 30 mΩ MAX.<br>② INSULATION RESISTANCE: 1000MΩ MIN.<br>③ NO DAMAGE, CRACK OR LOOSENESS OF PARTS. |                          | ×                    | —                                 |           |
| <b>REMARKS</b>                                                 |                             |                                                                                                |      |      |                                                                                                                       |                          |                      |                                   |           |
| NOTE1: INCLUDE THE TEMPERATURE RISING BY CURRENT.              |                             |                                                                                                |      |      | DRAWN                                                                                                                 | DESIGNED                 | CHECKED              | APPROVED                          | RELEASED  |
| Unless otherwise specified, refer to MIL-STD-1344.             |                             |                                                                                                |      |      | R. Sasaki<br>'00.07.05                                                                                                | T. Yamamoto<br>'00.07.05 | C. Hanami<br>'00.7.7 | K. Katayama<br>'00.7.7            |           |
| Note QT:Qualification Test AT:Assurance Test ×:Applicable Test |                             |                                                                                                |      |      |                                                                                                                       |                          |                      |                                   |           |
| <b>HS HIROSE ELECTRIC CO., LTD.</b>                            |                             |                                                                                                |      |      | <b>SPECIFICATION SHEET</b>                                                                                            |                          |                      |                                   |           |
| CODE NO.(OLD)<br>CL                                            |                             |                                                                                                |      |      | DRAWING NO.<br>ELC 4 - 0 2 1 4 5 5                                                                                    |                          |                      | PART NO.<br>MDF 6 - 2 0 2 2 S C F |           |
|                                                                |                             |                                                                                                |      |      | CODE NO.<br>CL 5 4 7 - 0 0 7 2 - 6                                                                                    |                          |                      | 1/1                               |           |