

| APPLICABLE STANDARD                     |                             |                                                                                                  |                                |  |                                                                                    |                                |    |    |
|-----------------------------------------|-----------------------------|--------------------------------------------------------------------------------------------------|--------------------------------|--|------------------------------------------------------------------------------------|--------------------------------|----|----|
| RATING                                  | OPERATING TEMPERATURE RANGE |                                                                                                  | -55 °C TO 85 °C <sup>(1)</sup> |  | STORAGE TEMPERATURE RANGE                                                          | -10 °C TO 60 °C <sup>(2)</sup> |    |    |
|                                         | VOLTAGE                     |                                                                                                  | 200 V AC                       |  | OPERATING HUMIDITY RANGE                                                           | 40 % TO 80 %                   |    |    |
|                                         | CURRENT                     |                                                                                                  | 1A                             |  | STORAGE HUMIDITY RANGE                                                             | 40 % TO 70 % <sup>(2)</sup>    |    |    |
|                                         | APPLICABLE CABLE (AWG SIZE) |                                                                                                  | AWG28                          |  |                                                                                    |                                |    |    |
| 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).                                                                          |                                |  | 15 mΩ MAX .                                                                        |                                | x  | —  |
| INSULATION RESISTANCE                   |                             | 500 V DC.                                                                                        |                                |  | 1000 MΩ MIN.                                                                       |                                | x  | —  |
| VOLTAGE PROOF                           |                             | 650 V AC FOR 1 min.                                                                              |                                |  | NO FLASHOVER OR BREAKDOWN.                                                         |                                | x  | —  |
| MECHANICAL CHARACTERISTICS              |                             |                                                                                                  |                                |  |                                                                                    |                                |    |    |
| CONTACT INSERTION AND EXTRACTION FORCES |                             | □0.635±0.002 mm BY STEEL GAUGE.                                                                  |                                |  | INSERTION FORCE: 3.43 N MAX.<br>EXTRACTION FORCE: 0.39 N MIN.                      |                                | x  | —  |
| MECHANICAL OPERATION                    |                             | 500 TIMES INSERTIONS AND EXTRACTIONS.                                                            |                                |  | ①CONTACT RESISTANCE: 15 mΩ MAX.<br>②NO DAMAGE, CRACK AND LOOSENESS OF PARTS.       |                                | x  | —  |
| VIBRATION                               |                             | FREQUENCY 10 TO 55 Hz,<br>TOTAL AMPLITUDE : 1.5 mm, -m/s <sup>2</sup><br>AT 2 h FOR 3 DIRECTION. |                                |  | ①NO ELECTRICAL DISCONTINUITY OF 1 μs.<br>②NO DAMAGE, CRACK AND LOOSENESS OF PARTS. |                                | x  | —  |
| SHOCK                                   |                             | 490 m/s <sup>2</sup> , DURATION OF PULSE 11 ms<br>AT 3 TIMES FOR 3 DIRECTIONS.                   |                                |  |                                                                                    |                                | x  | —  |
| ENVIRONMENTAL CHARACTERISTICS           |                             |                                                                                                  |                                |  |                                                                                    |                                |    |    |
| DAMP HEAT (STEADY STATE)                |                             | EXPOSED AT 40±2 °C, 90 ~ 95 %, 96 h.                                                             |                                |  | ①CONTACT RESISTANCE: 15 mΩ MAX.<br>②INSULATION RESISTANCE:1000 MΩ MIN.             |                                | x  | —  |
| RAPID CHANGE OF TEMPERATURE             |                             | TEMPERATURE-65→+5~+35→+125→+5~+35°C<br>TIME 30 → 10~15 → 30 → 10~15 min.<br>UNDER 5 CYCLES.      |                                |  | ③NO DAMAGE, CRACK AND LOOSENESS OF PARTS.                                          |                                | x  | —  |
| CORROSION SALT MIST                     |                             | EXPOSED IN 5 % SALT WATER SPRAY FOR 48 h.                                                        |                                |  | ①CONTACT RESISTANCE: 15 mΩ MAX.<br>②NO HEAVY CORROSION.                            |                                | x  | —  |
|                                         |                             |                                                                                                  |                                |  |                                                                                    |                                |    |    |
|                                         |                             |                                                                                                  |                                |  |                                                                                    |                                |    |    |
|                                         |                             |                                                                                                  |                                |  |                                                                                    |                                |    |    |
|                                         |                             |                                                                                                  |                                |  |                                                                                    |                                |    |    |
|                                         |                             |                                                                                                  |                                |  |                                                                                    |                                |    |    |
|                                         |                             |                                                                                                  |                                |  |                                                                                    |                                |    |    |
|                                         |                             |                                                                                                  |                                |  |                                                                                    |                                |    |    |
|                                         |                             |                                                                                                  |                                |  |                                                                                    |                                |    |    |
|                                         |                             |                                                                                                  |                                |  |                                                                                    |                                |    |    |
|                                         |                             |                                                                                                  |                                |  |                                                                                    |                                |    |    |
|                                         |                             |                                                                                                  |                                |  |                                                                                    |                                |    |    |
|                                         |                             |                                                                                                  |                                |  |                                                                                    |                                |    |    |
|                                         |                             |                                                                                                  |                                |  |                                                                                    |                                |    |    |
|                                         |                             |                                                                                                  |                                |  |                                                                                    |                                |    |    |
|                                         |                             |                                                                                                  |                                |  |                                                                                    |                                |    |    |
|                                         |                             |                                                                                                  |                                |  |                                                                                    |                                |    |    |
|                                         |                             |                                                                                                  |                                |  |                                                                                    |                                |    |    |
|                                         |                             |                                                                                                  |                                |  |                                                                                    |                                |    |    |
|                                         |                             |                                                                                                  |                                |  |                                                                                    |                                |    |    |
|                                         |                             |                                                                                                  |                                |  |                                                                                    |                                |    |    |
|                                         |                             |                                                                                                  |                                |  |                                                                                    |                                |    |    |
|                                         |                             |                                                                                                  |                                |  |                                                                                    |                                |    |    |
|                                         |                             |                                                                                                  |                                |  |                                                                                    |                                |    |    |
|                                         |                             |                                                                                                  |                                |  |                                                                                    |                                |    |    |
|                                         |                             |                                                                                                  |                                |  |                                                                                    |                                |    |    |
|                                         |                             |                                                                                                  |                                |  |                                                                                    |                                |    |    |
|                                         |                             |                                                                                                  |                                |  |                                                                                    |                                |    |    |
|                                         |                             |                                                                                                  |                                |  |                                                                                    |                                |    |    |
|                                         |                             |                                                                                                  |                                |  |                                                                                    |                                |    |    |
|                                         |                             |                                                                                                  |                                |  |                                                                                    |                                |    |    |
|                                         |                             |                                                                                                  |                                |  |                                                                                    |                                |    |    |
|                                         |                             |                                                                                                  |                                |  |                                                                                    |                                |    |    |
|                                         |                             |                                                                                                  |                                |  |                                                                                    |                                |    |    |
|                                         |                             |                                                                                                  |                                |  |                                                                                    |                                |    |    |
|                                         |                             |                                                                                                  |                                |  |                                                                                    |                                |    |    |
|                                         |                             |                                                                                                  |                                |  |                                                                                    |                                |    |    |
|                                         |                             |                                                                                                  |                                |  |                                                                                    |                                |    |    |
|                                         |                             |                                                                                                  |                                |  |                                                                                    |                                |    |    |
|                                         |                             |                                                                                                  |                                |  |                                                                                    |                                |    |    |
|                                         |                             |                                                                                                  |                                |  |                                                                                    |                                |    |    |
|                                         |                             |                                                                                                  |                                |  |                                                                                    |                                |    |    |
|                                         |                             |                                                                                                  |                                |  |                                                                                    |                                |    |    |
|                                         |                             |                                                                                                  |                                |  |                                                                                    |                                |    |    |
|                                         |                             |                                                                                                  |                                |  |                                                                                    |                                |    |    |
|                                         |                             |                                                                                                  |                                |  |                                                                                    |                                |    |    |
|                                         |                             |                                                                                                  |                                |  |                                                                                    |                                |    |    |
|                                         |                             |                                                                                                  |                                |  |                                                                                    |                                |    |    |
|                                         |                             |                                                                                                  |                                |  |                                                                                    |                                |    |    |
|                                         |                             |                                                                                                  |                                |  |                                                                                    |                                |    |    |
|                                         |                             |                                                                                                  |                                |  |                                                                                    |                                |    |    |
|                                         |                             |                                                                                                  |                                |  |                                                                                    |                                |    |    |
|                                         |                             |                                                                                                  |                                |  |                                                                                    |                                |    |    |
|                                         |                             |                                                                                                  |                                |  |                                                                                    |                                |    |    |
|                                         |                             |                                                                                                  |                                |  |                                                                                    |                                |    |    |
|                                         |                             |                                                                                                  |                                |  |                                                                                    |                                |    |    |
|                                         |                             |                                                                                                  |                                |  |                                                                                    |                                |    |    |
|                                         |                             |                                                                                                  |                                |  |                                                                                    |                                |    |    |
|                                         |                             |                                                                                                  |                                |  |                                                                                    |                                |    |    |
|                                         |                             |                                                                                                  |                                |  |                                                                                    |                                |    |    |
|                                         |                             |                                                                                                  |                                |  |                                                                                    |                                |    |    |
|                                         |                             |                                                                                                  |                                |  |                                                                                    |                                |    |    |
|                                         |                             |                                                                                                  |                                |  |                                                                                    |                                |    |    |
|                                         |                             |                                                                                                  |                                |  |                                                                                    |                                |    |    |
|                                         |                             |                                                                                                  |                                |  |                                                                                    |                                |    |    |
|                                         |                             |                                                                                                  |                                |  |                                                                                    |                                |    |    |
|                                         |                             |                                                                                                  |                                |  |                                                                                    |                                |    |    |
|                                         |                             |                                                                                                  |                                |  |                                                                                    |                                |    |    |
|                                         |                             |                                                                                                  |                                |  |                                                                                    |                                |    |    |
|                                         |                             |                                                                                                  |                                |  |                                                                                    |                                |    |    |
|                                         |                             |                                                                                                  |                                |  |                                                                                    |                                |    |    |
|                                         |                             |                                                                                                  |                                |  |                                                                                    |                                |    |    |
|                                         |                             |                                                                                                  |                                |  |                                                                                    |                                |    |    |
|                                         |                             |                                                                                                  |                                |  |                                                                                    |                                |    |    |
|                                         |                             |                                                                                                  |                                |  |                                                                                    |                                |    |    |
|                                         |                             |                                                                                                  |                                |  |                                                                                    |                                |    |    |
|                                         |                             |                                                                                                  |                                |  |                                                                                    |                                |    |    |
|                                         |                             |                                                                                                  |                                |  |                                                                                    |                                |    |    |
|                                         |                             |                                                                                                  |                                |  |                                                                                    |                                |    |    |
|                                         |                             |                                                                                                  |                                |  |                                                                                    |                                |    |    |
|                                         |                             |                                                                                                  |                                |  |                                                                                    |                                |    |    |
|                                         |                             |                                                                                                  |                                |  |                                                                                    |                                |    |    |
|                                         |                             |                                                                                                  |                                |  |                                                                                    |                                |    |    |
|                                         |                             |                                                                                                  |                                |  |                                                                                    |                                |    |    |
|                                         |                             |                                                                                                  |                                |  |                                                                                    |                                |    |    |
|                                         |                             |                                                                                                  |                                |  |                                                                                    |                                |    |    |
|                                         |                             |                                                                                                  |                                |  |                                                                                    |                                |    |    |
|                                         |                             |                                                                                                  |                                |  |                                                                                    |                                |    |    |
|                                         |                             |                                                                                                  |                                |  |                                                                                    |                                |    |    |
|                                         |                             |                                                                                                  |                                |  |                                                                                    |                                |    |    |
|                                         |                             |                                                                                                  |                                |  |                                                                                    |                                |    |    |
|                                         |                             |                                                                                                  |                                |  |                                                                                    |                                |    |    |
|                                         |                             |                                                                                                  |                                |  |                                                                                    |                                |    |    |
|                                         |                             |                                                                                                  |                                |  |                                                                                    |                                |    |    |
|                                         |                             |                                                                                                  |                                |  |                                                                                    |                                |    |    |
|                                         |                             |                                                                                                  |                                |  |                                                                                    |                                |    |    |
|                                         |                             |                                                                                                  |                                |  |                                                                                    |                                |    |    |
|                                         |                             |                                                                                                  |                                |  |                                                                                    |                                |    |    |
|                                         |                             |                                                                                                  |                                |  |                                                                                    |                                |    |    |
|                                         |                             |                                                                                                  |                                |  |                                                                                    |                                |    |    |
|                                         |                             |                                                                                                  |                                |  |                                                                                    |                                |    |    |
|                                         |                             |                                                                                                  |                                |  |                                                                                    |                                |    |    |
|                                         |                             |                                                                                                  |                                |  |                                                                                    |                                |    |    |
|                                         |                             |                                                                                                  |                                |  |                                                                                    |                                |    |    |
|                                         |                             |                                                                                                  |                                |  |                                                                                    |                                |    |    |
|                                         |                             |                                                                                                  |                                |  |                                                                                    |                                |    |    |
|                                         |                             |                                                                                                  |                                |  |                                                                                    |                                |    |    |
|                                         |                             |                                                                                                  |                                |  |                                                                                    |                                |    |    |