| APPLICABLE STANDARD | | | | |
|---|---|---|---|---|
| RATING | OPERATING TEMPERATURE RANGE | -40℃ to 105℃ (Note1) | STORAGE TEMPERATURE RANGE | -40℃ to 105℃ |
| | VOLTAGE | 50 V DC | 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 | 1A DC. | 50mΩ max. | — | — |
| Contact Resistance Millivolt Level Method | 20 mV AC max, 0.1 mA (DC or 1000Hz). | 50mΩ max. | — | — |
| Insulation Resistance | 500 V DC. | 100MΩ min. | — | — |
| Voltage Proof | 500 V AC for 1 min. | No flashover or breakdown. | × | × |
| Continuity | 100 mA DC | Continuity | — | × |
| **MECHANICAL CHARACTERISTICS** | | | | |
| Mechanical Oparation | 30 times insertions and extractions. | ① Contact resistance 100mΩ max<br>② No damage, crack and looseness of parts. | —<br>× | —<br>— |
| Vibration | Frequency 20 to 200 Hz,<br>43.1 m/s$^2$ at 3 h for 3 directions. | ① No electrical discontinuity of 10μs.<br>② Contact resistance: 100mΩ max.<br>③ No damage, crack and looseness of parts. | —<br>—<br>— | —<br>—<br>— |
| Shock | Frequency 20 to 50 Hz,<br>66.6 m/s$^2$ at 1 h. | ① No electrical discontinuity of 10μs.<br>② Contact resistance: 100mΩ max.<br>③ No damage, crack and looseness of parts. | —<br>—<br>— | —<br>—<br>— |
| Lock Strength | Applying a pull force the mating axially at 100N max. | ① During applying, mating completely.<br>② After applying, no defect of mating parts. | —<br>— | —<br>— |
| **ENVIRONMENTAL CHARACTERISTICS** | | | | |
| Damp Heat (Steady State) | Exposed at 60℃, 90 ～ 95 %, 500h. | ① Contact resistance: 100mΩ max.<br>② Insulation resistance:100MΩ min.<br>③ No damage, crack and looseness of parts. | —<br>—<br>— | —<br>—<br>— |
| Rapid Change Of Temperature | Temperature -40 → 5 to 35 → 105→ 5 to 35℃<br>Time 30 → 5 → 30 → 5 min<br>under 1000 cycles. | ① Contact resistance: 100mΩ max.<br>② Insulation resistance:100MΩ min.<br>③ No damage, crack and looseness of parts. | —<br>—<br>— | —<br>—<br>— |
| Dry Heat | Exposed at 105℃, 300h. | ① Contact resistance: 100mΩ max.<br>② No damage, crack and looseness of parts. | —<br>— | —<br>— |
| Cold | Exposed at -40℃, 120h. | ① Contact resistance: 100mΩ max.<br>② No damage, crack and looseness of parts. | —<br>— | —<br>— |
| Resistance To $So_2$ Gas | Exposed in 25 ppm for 96h. | ① Contact resistance: 100mΩ max.<br>② No damage, crack and looseness of parts. | —<br>— | —<br>— |
| | | | | |

| | COUNT | DESCRIPTION OF REVISIONS | DESIGNED | CHECKED | DATE |
|---|---|---|---|---|---|
| △0 | | | | | |

REMARK
Note1) Include the temperature rising by current.

| | | |
|---|---|---|
| APPROVED | KI.HIROKAWA | 20211223 |
| CHECKED | MH.YAMAGUCHI | 20211223 |
| DESIGNED | HR.IWAI | 20211223 |
| DRAWN | HR.IWAI | 20211223 |

Note QT:Qualification Test AT:Assurance Test X:Applicable Test

DRAWING NO. ELC-395729-00-00

| | | | | |
|---|---|---|---|---|
| HRS | SPECIFICATION SHEET | PART NO. | WGT43GT43-1192 | |
| | HIROSE ELECTRIC CO., LTD. | CODE NO. | CL0781-1192-0-00 | △0 1/1 |