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 In case of consideration for using Automotive equipment / device which demand high reliability, kindly contact our sales window correspondents.

| APPLICABLE STANDARD | | | | | |
|---|--|--|---------------------------|-----------------------|----------|
| RATING | OPERATING TEMPERATURE RANGE | -40 °C TO 105 °C (NOTE1) | STORAGE TEMPERATURE RANGE | -40 °C TO 105 °C | |
| | VOLTAGE | 30 V AC | CURRENT | 1 A | |
| 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 | 1A DC. | SIGNAL : 30 mΩ MAX, SHIELD : 60 mΩ MAX . | x | - | |
| CONTACT RESISTANCE MILLIVOLT LEVEL METHOD | 20 mV AC MAX, 0.1 mA(DC OR 1000Hz) | SIGNAL : 30 mΩ MAX, SHIELD : 60 mΩ MAX . | x | - | |
| INSULATION RESISTANCE | 500 V DC | 100 MΩ MIN. | x | - | |
| VOLTAGE PROOF | 500 V AC FOR 1 min. | NO FLASHOVER OR BREAKDOWN. | x | - | |
| MECHANICAL CHARACTERISTICS | | | | | |
| CONTACT INSERTION AND EXTRACTION FORCES | — BY STEEL GAUGE. | INSERTION FORCE — N MAX. EXTRACTION FORCE — N MIN. | - | - | |
| MECHANICAL OPERATION | 30 TIMES INSERTIONS AND EXTRACTIONS. | ① CONTACT RESISTANCE : SIGNAL : 60 mΩ MAX, SHIELD : 120 mΩ MAX . ② NO DAMAGE, CRACK AND LOOSENESS OF PARTS. | x | - | |
| VIBRATION | FREQUENCY 20 TO 200 Hz, 43.1 m/s ² AT 3 h FOR 3 DIRECTIONS. | ① NO ELECTRICAL DISCONTINUITY OF 10 μs. ② CONTACT RESISTANCE : SIGNAL : 60 mΩ MAX, SHIELD : 120 mΩ MAX . ③ NO DAMAGE, CRACK AND LOOSENESS OF PARTS. | x | - | |
| SHOCK | ACCELERATION 980m/s ² ,6ms AT 3 TIMES FOR 3 DIRECTIONS. | ① NO ELECTRICAL DISCONTINUITY OF 10 μs. ② CONTACT RESISTANCE : SIGNAL : 60 mΩ MAX, SHIELD : 120 mΩ MAX . ③ NO DAMAGE, CRACK AND LOOSENESS OF PARTS. | x | - | |
| LOCK STRENGTH | APPLYING A PULL FORCE THE MATING AXIALLY AT 98N MAX. | ① DURING APPLYING,MATING COMPLETELY. ② AFTER APPLYING,NO DEFECT OF MATING PARTS. | x | - | |
| ENVIRONMENTAL CHARACTERISTICS | | | | | |
| DAMP HEAT (STEADY STATE) | EXPOSED AT 60 °C, 90 ~ 95 %, 500 h. | ① CONTACT RESISTANCE : SIGNAL : 60 mΩ MAX, SHIELD : 120 mΩ MAX . ② INSULATION RESISTANCE : 100 MΩ MIN. ③ NO DAMAGE, CRACK AND LOOSENESS OF PARTS. | x | - | |
| RAPID CHANGE OF TEMPERATURE | TEMPERATURE-40→5 TO 35→ 85→5 TO 35°C TIME 30 → 5 → 30 → 5 min UNDER 1000 CYCLES. | ① CONTACT RESISTANCE : SIGNAL : 60 mΩ MAX, SHIELD : 120 mΩ MAX . ② INSULATION RESISTANCE : 100 MΩ MIN. ③ NO DAMAGE, CRACK AND LOOSENESS OF PARTS. | x | - | |
| DRY HEAT | EXPOSED AT 105°C, 1000 h. | ① CONTACT RESISTANCE : SIGNAL : 60 mΩ MAX, SHIELD : 120 mΩ MAX . ② NO DAMAGE, CRACK AND LOOSENESS OF PARTS. | x | - | |
| COLD | EXPOSED AT -40°C, 1000 h. | ① CONTACT RESISTANCE : SIGNAL : 60 mΩ MAX, SHIELD : 120 mΩ MAX . ② NO DAMAGE, CRACK AND LOOSENESS OF PARTS. | x | - | |
| RESISTANCE TO SO ₂ GAS | EXPOSED IN 500 PPM FOR 8 h. | CONTACT RESISTANCE : SIGNAL : 60 mΩ MAX, SHIELD : 120 mΩ MAX . | x | - | |
| RESISTANCE TO SOLDERING HEAT | SPECIFIED TEMPERATURE PROFILE FOR 2CYCLES. | NO DEFORMATION OF CASE OF EXCESSIVE LOOSENESS OF THE TERMINALS. | x | - | |
| SOLDERABILITY | SOLDERED AT SOLDER TEMPERATURE, 245 °C FOR IMMERSION DURATION, 3 s. | A NEW UNIFORM COATING OF SOLDER SHALL COVER A MINIMUM OF 95 % OF THE TINNED SURFACE BEING IMMersed. | x | - | |
| | | | | | |
| | COUNT | DESCRIPTION OF REVISIONS | DESIGNED | CHECKED | DATE |
| REMARK (NOTE1) INCLUDE THE TEMPERATURE RISING BY CURRENT. (NOTE2) APPLICABLE BOARD : 1.6±0.2. | | | APPROVED | NH. NAKATA | 15.08.21 |
| | | | CHECKED | KI. HIROKAWA | 15.08.21 |
| | | | DESIGNED | TS. KUBOTA | 15.08.21 |
| | | | DRAWN | TS. KUBOTA | 15.08.21 |
| Note QT:Qualification Test AT:Assurance Test X:Applicable Test | | | DRAWING NO. | ELC-361829-10-01 | |
| HRS | SPECIFICATION SHEET | | PART NO. | GT32-4DP-1.5H(C) (10) | |
| | HIROSE ELECTRIC CO., LTD. | | CODE NO. | CL782-0063-9-10 | 1/1 |