

Safety Relay

OA 5602

Features

- 6 output contacts
- International approvals: TÜV, CSA, UL, cUL
- Quality control check for each safety relay
- Forced-guided contacts, all gold flash plated
- Contact gap > 0.5 mm throughout life of relay
- Various contact materials, mixed contact material optional
- High coil voltage range
- High switching voltage
- High breakdown voltage: contact/coil > 4 kV
- High creeping distance: contact/coil > 8 mm
- Crown contacts
- Solid connection between coil and contact housing
- Custom coil voltage available
- Custom design available,
 - coil voltage
 - coil resistance,
 - contact pressure
 - operate/release time



GERMANY



USA/CANADA

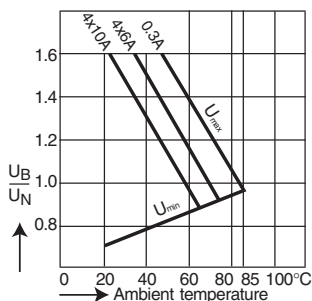


CANADA

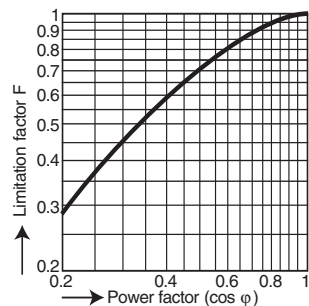
Technical Data

- **Nominal Coil Voltage** 6, 12, 24, 48, 60, 110, DC
- **Coil Power Dissipation** 1.0 W
- **Max. Switching Voltage** 250V DC, 400V AC
- **Max. Switching Current** 10 A
- **Max. Switching Power—DC** 240W
- **Max. Switching Power—AC** 2500VA
- **Contact Switching Rate** 10 operations per second
- **Relay Operate Time** 27 ms
- **Relay Release Time** 5 ms
- **Operation Vibration** 0.35 mm Ampl. max @ 10...55Hz
- **Protection Rating** IP 40
- **Contact Arrangements** 2NO/4NC, 3NO/3NC, 4NO/2NC
- **Contact Material** AgSnO₂+0.2μmAu, AgNi10+0.2μmAu, AgNi10+5μmAu
- **Mechanical Life** 30x10⁶ Operation cycles
- **Electrical Life** AgSnO₂ >7x10⁵, AgNi10 >5x10⁵ operation cycles @ 230V AC, 5A, cos φ=1
 AgSnO₂ >3x10⁵, AgNi10 >2x10⁵ operation cycles @ 230V AC, 10A, cos φ=1
- **Ambient Temperature** -25...+85°C
- **Cover Material** Thermoplast
- **Weight** 85 g
- More detailed data upon request

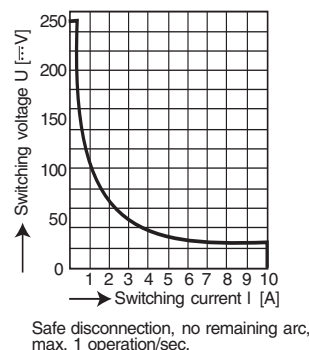
Diagrams



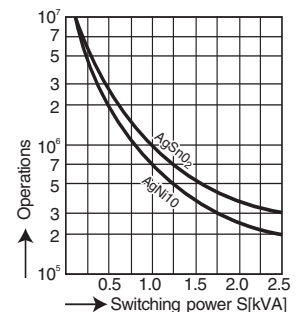
Relay operation voltage vs. ambient temperature



Operations = Operations (ohmic) x limitation factor F



Maximum switching power curve



Mechanical life

Safety Relay 5602 Data

Relay Data

Ordering Information

Rated Voltage	Voltage Range	Coil Resistance	2 NO/4 NC Type	3 NO/3 NC Type	4 NO/2 NC Type
6V	4.2 - 9.6V	35 Ω	56.OA02.0624□	56.OA02.0633□	56.OA02.0642□
12V	8.4 - 19.2V	140 Ω	56.OA02.1224□	56.OA02.1233□	56.OA02.1242□
24V	16.8 - 38.4V	570 Ω	56.OA02.2424□	56.OA02.2433□	56.OA02.2442□
48V	33.6 - 76.8V	2300 Ω	56.OA02.4824□	56.OA02.4833□	56.OA02.4842□
60V	42.0 - 96.0V	3600 Ω	56.OA02.6024□	56.OA02.6033□	56.OA02.6042□
110V	77.0 - 176.0V	12100 Ω	56.OA02.1124□	56.OA02.1133□	56.OA02.1142□

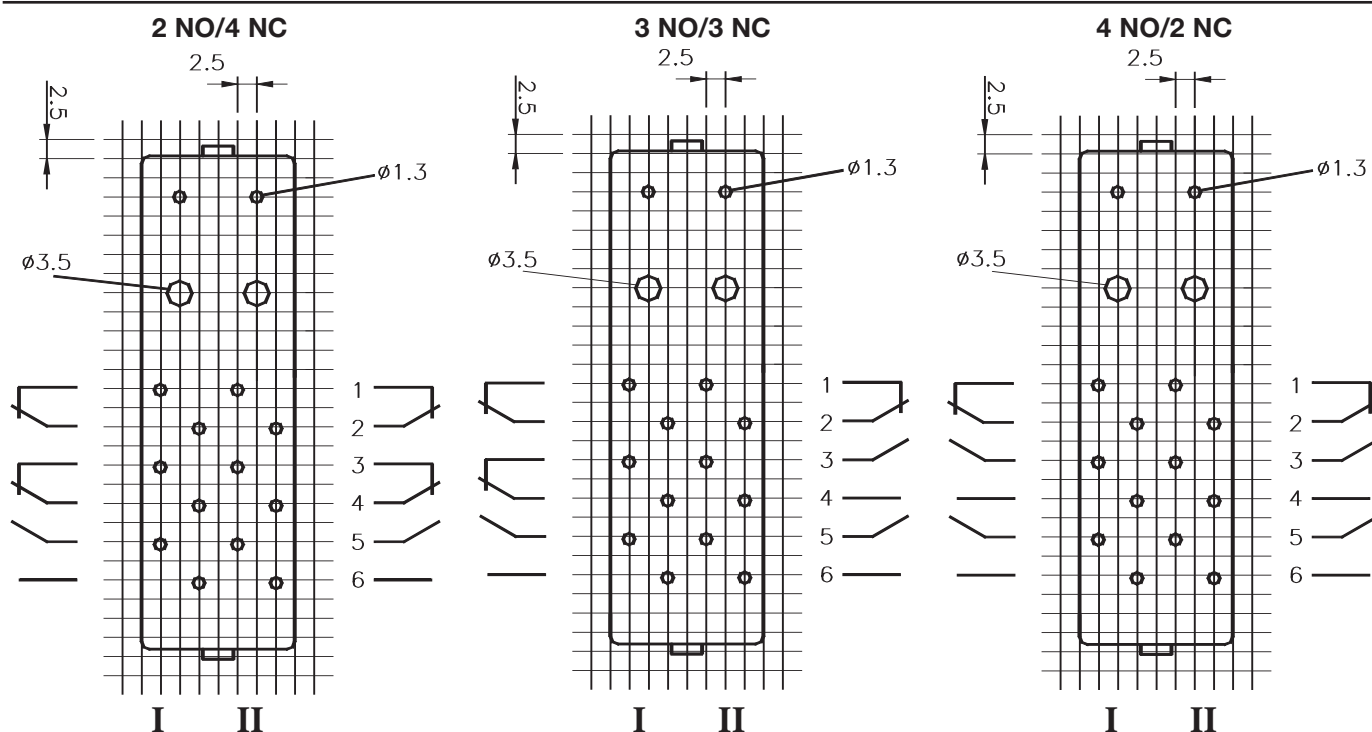
Contact Material, Example: □ AgSnO₂+2 μ mAu

□ AgNi10+.2 μ mAu

□ AgNi10+5 μ mAu

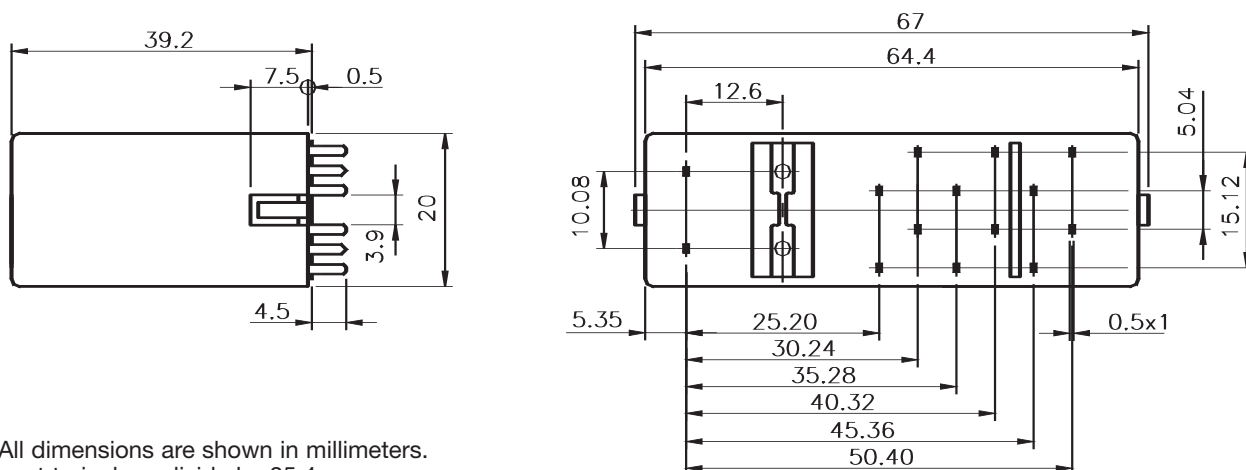
Footprints

(Note: Shown at their actual size.)



Dimensions

(Note: Shown at their actual size.)



Note: All dimensions are shown in millimeters.
To convert to inches, divide by 25.4.