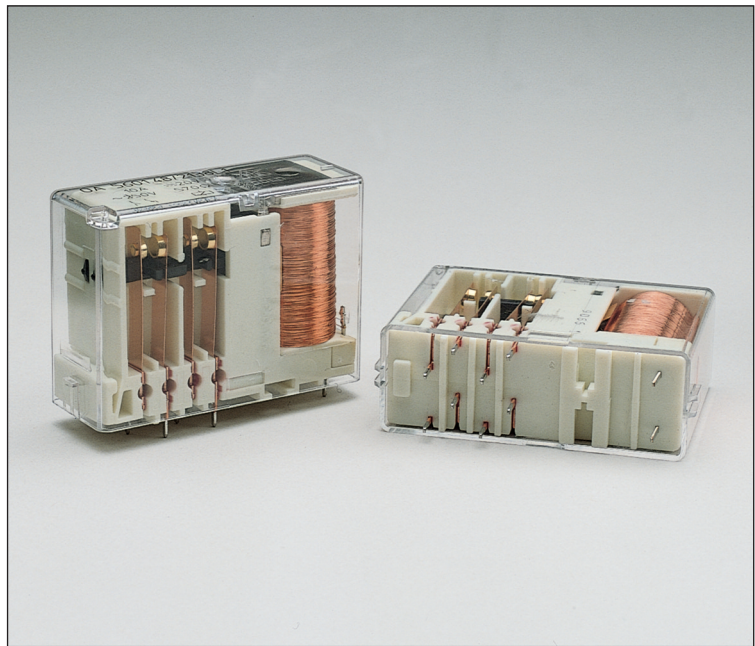


Safety Relay

OA 5601

Features

- 4 output contacts
- International approvals:
TÜV, 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
contact/contact ≥ 4 KV
- High creeping distance: contact/coil ≥ 8 mm
contact/contact ≥ 5.5 mm
- Crown contacts
- Solid connection between coil and contact housing
- Custom design available,
-coil voltage -coil resistance,
-contact pressure -operate/release time
-IP67 washable



GERMANY

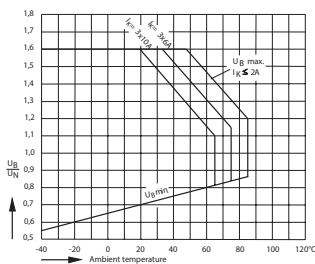


USA/CANADA
E146415

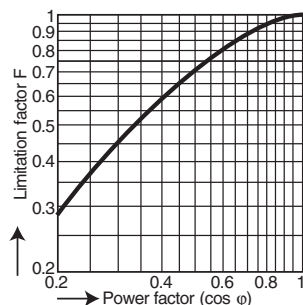
Technical Data

- **Nominal Coil Voltage** 6, 12, 24, 48, 60, 110, DC
- **Coil Power Dissipation** 0.75 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
- **Contact Arrangements** 2NO/2NC, 3NO/1NC
- **Contact Material**
...AgSnO₂+0.2μmAu, AgNi10+0.2μmAu, AgNi10+5μmAu
- **Mechanical Life** >30x10⁶ operation cycles
- **Electrical Life** AgSnO₂ >3x10⁵, AgNi10 >2x10⁵
..... operation cycles @ 230V AC, 10A, cos φ=1
- **Ambient Temperature** -40...+85°C
- **Protection Rating** IP 40
- **Cover Material** Thermoplast
- **Weight** 78 g
- More detailed data upon request

Diagrams

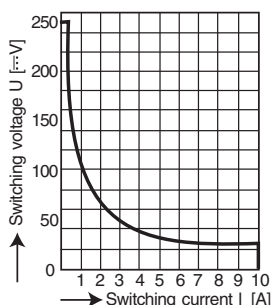


Relay operation voltage vs. ambient temperature



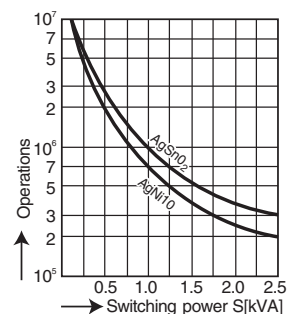
Operations =
Operations (ohmic) x limitation factor F

Limitation factor for inductive loads



Safe disconnection, no remaining arc,
max. 1 operation/sec.

Maximum switching power curve



Mechanical life

Safety Relay OA 5601 Data

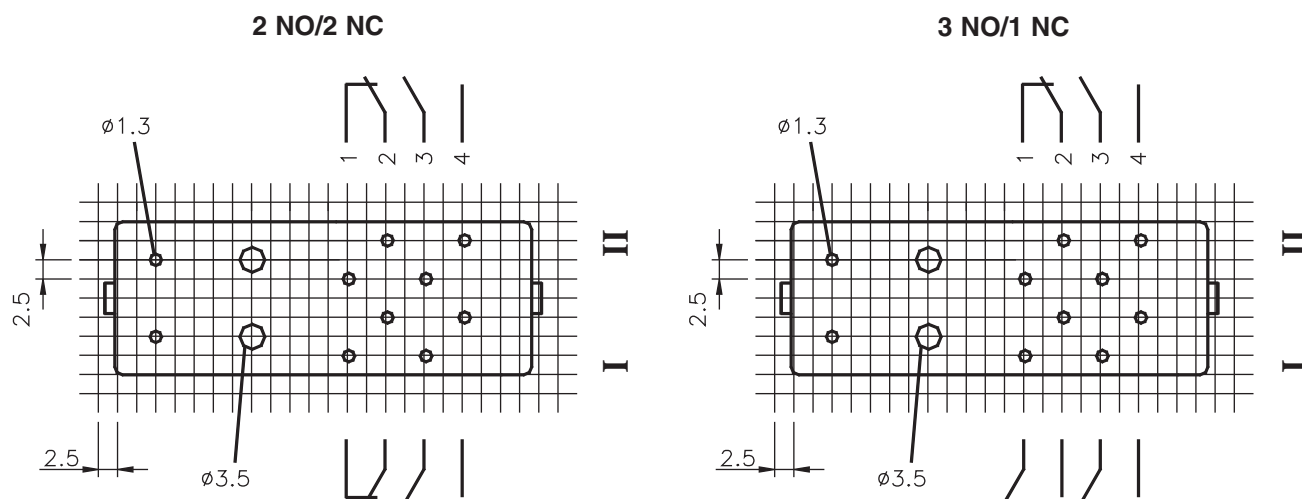
Relay Data

Ordering Information

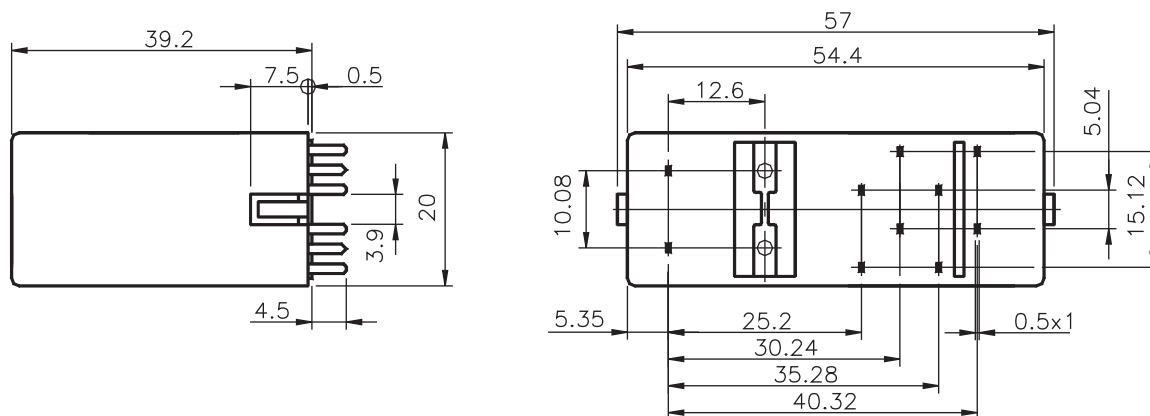
Rated Voltage	Voltage Range	Coil Resistance (10%)	2 NO/2 NC Type	3 NO/1 NC Type
6V	4.2 - 9.6V	48 Ω	56.OA01.0622□	56.OA01.0631□
12V	8.4 - 19.2V	192 Ω	56.OA01.1222□	56.OA01.1231□
24V	16.8 - 38.4V	770 Ω	56.OA01.2422□	56.OA01.2431□
48V	33.6 - 76.8V	2880 Ω	56.OA01.4822□	56.OA01.4831□
60V	42.0 - 96.0V	4800 Ω	56.OA01.6022□	56.OA01.6031□
110V	77.0 - 176.0V	16000 Ω	56.OA01.1122□	56.OA01.1131□

Contact Material, Example: C AgSnO₂+2 μ mAu
N AgNi10+.2 μ mAu
S AgNi10+5 μ mAu

Footprints (solder side)



Dimensions



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