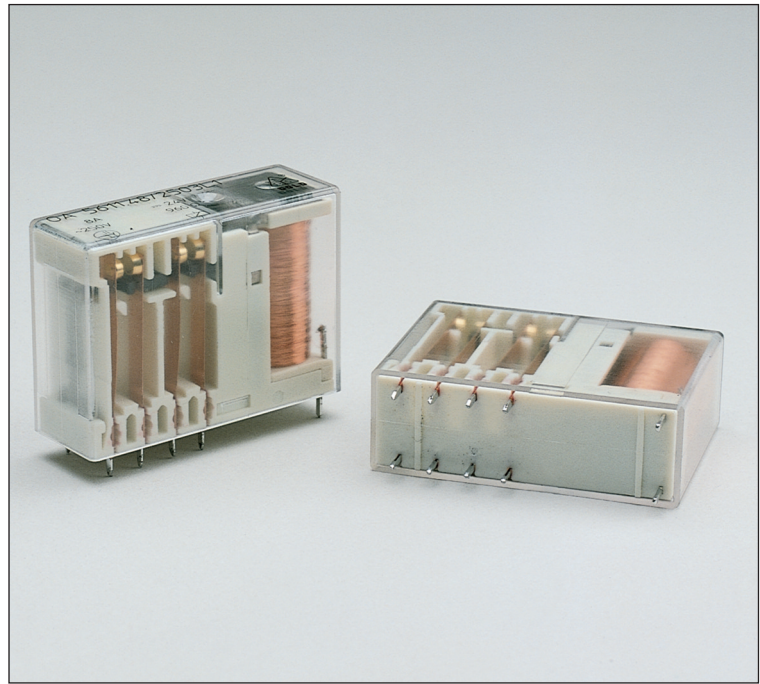


Safety Relay

OA 5611

Features

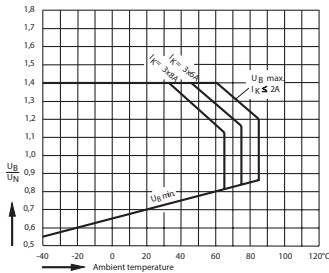
- 4 output contacts
- International approvals: TÜV, UL, cUL
- Quality control check for each safety relay
- Forced-guided contacts, all gold flash plated
- Contact Gap > 0.5 mm throughout life of relay
- Various contact materials, mixed contact material optional
- High coil voltage range
- High switching voltage
- High breakdown voltage: contact/coil \geq 4 KV
contact/contact \geq 2.5KV
- High creeping distance: contact/coil \geq 8 mm
contact/contact \geq 4.5 mm
- Crown contacts
- Solid connection between coil and contact housing
- Compact size
- Custom design available,
 - coil voltage -IP67 washable
 - contact pressure -coil resistance
 - operate/release time
 - low power dissipation models
 - Manual test relay (slide activated)



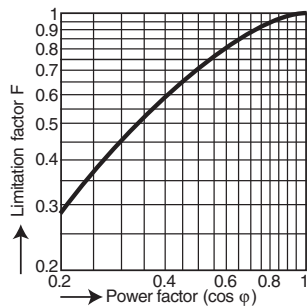
Technical Data

- **Nominal Coil Voltage**6, 12, 24, 48, 60, 110, DC
- **Coil Power Dissipation**0.6 W
- **Max. Switching Voltage**250V DC, 400 V AC
- **Max. Switching Current**8 A
- **Max. Switching Power — DC**200W
- **Max. Switching Power — AC**2000VA
- **Contact Switching Rate**10 operations per second
- **Relay Operate Time**20 ms
- **Relay Release Time**6 ms
- **Operation Vibration**0.35 mm Ampl. max
@ 10...200Hz, 3g max
- **Protection Rating**IP 40
- **Contact Arrangements**2NO/2NC, 3NO/1NC
- **Contact Material**AgNi10+0.2 μ mAu, AgSnO₂+0.2 μ mAu, AgNi10+5 μ mAu
- **Mechanical Life** \geq 50x10⁶ operation cycles
- **Electrical Life**AgSnO₂ >1.5x10⁵, AgNi10 >10⁵
operation cycles @ 230V AC, 8A, cos φ =1
- **Ambient Temperature**-40...+85°C
- **Cover Material**Thermoplast
- **Weight**35 g
- More detailed data upon request

Diagrams

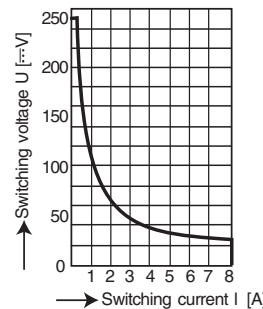


Relay operation voltage vs. ambient temperature



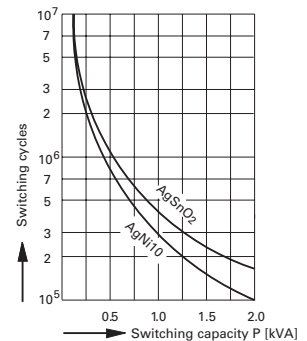
Operations =
Operations (ohmic) x limitation factor F

Limitation factor for inductive loads



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

Maximum switching power curve



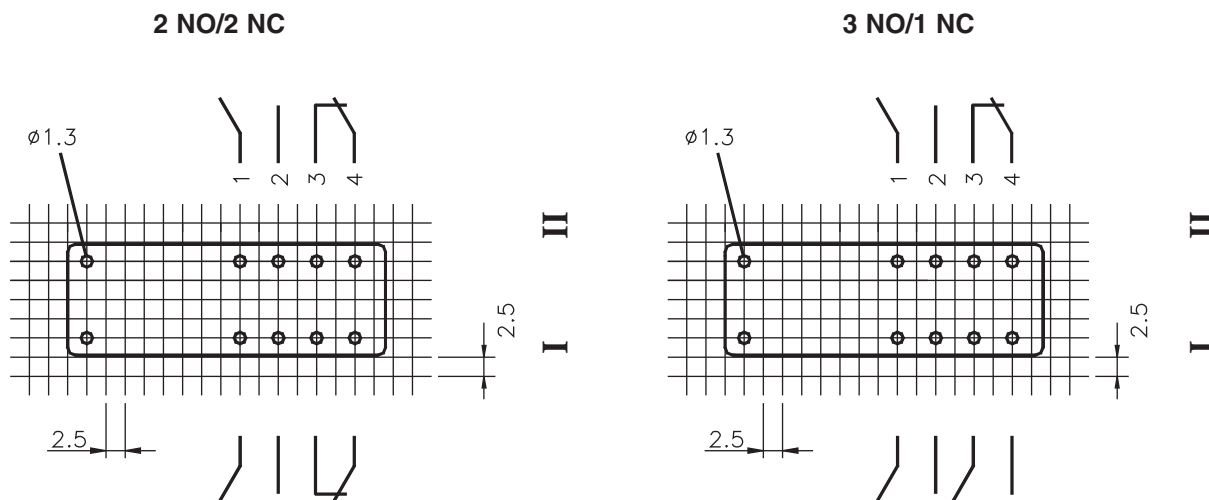
Mechanical life

Safety Relay OA 5611 Data

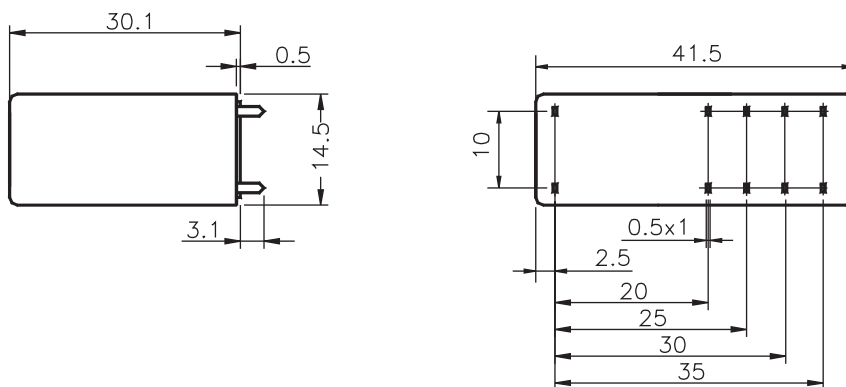
Relay Data			Ordering Information	
Rated Voltage	Voltage Range	Coil Resistance (10%)	2 NO/2 NC Type	3 NO/1 NC Type
6V	4.2 - 8.4V	56 Ω	56.OA11.0622□	56.OA11.0631□
12V	8.4 - 16.8V	240 Ω	56.OA11.1222□	56.OA11.1231□
24V	16.8 - 33.6V	960 Ω	56.OA11.2422□	56.OA11.2431□
48V	33.6 - 67.2V	3840 Ω	56.OA11.4822□	56.OA11.4831□
60V	42.0 - 84.0V	6000 Ω	56.OA11.6022□	56.OA11.6031□
110V	77.0 - 154.0V	20150 Ω	56.OA11.1122□	56.OA11.1131□

Contact Material, Example: CAgSnO₂+2μmAu
NAgNi10+.2μmAu
SAgNi10+5μmAu

Footprints (solder side)



Dimensions



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