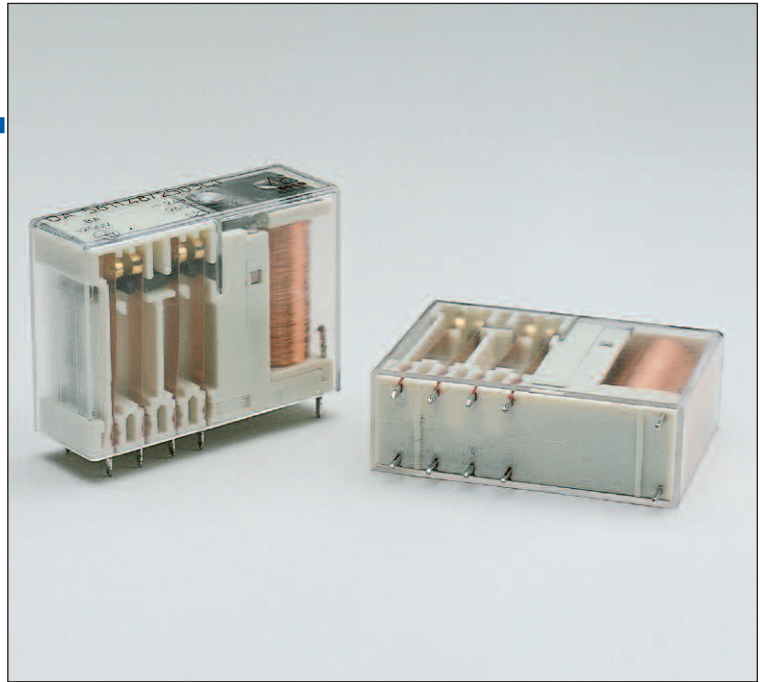


Safety Relay

OA 5611

Features

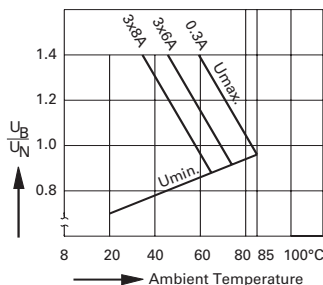
- n 4 output contacts
- n International approvals: TÜV, UL, cUL, CSA
- n Quality control check for each safety relay
- n Forced-guided contacts, all gold flash plated
- n Contact Gap > 0.5 mm throughout life of relay
- n Various contact materials, mixed contact material optional
- n High coil voltage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



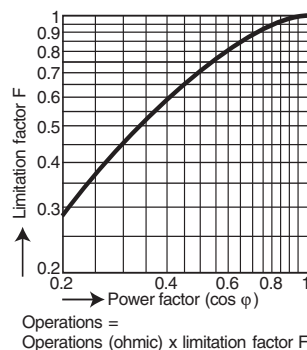
Technical Data

n Nominal Coil Voltage6, 12, 24, 48, 60, 110, DC	n Contact Arrangements2NO/2NC, 3NO/1NC
n Coil Power Dissipation0.6 W	n Contact MaterialAgNi10+0.2µmAu, AgSnO ₂ +0.2µmAu, AgNi10+5µmAu
n Max. Switching Voltage250V DC, 400 V AC	n Mechanical Life50x10 ⁶ operation cycles
n Max. Switching Current8 A	n Electrical LifeAgSnO ₂ >3x10 ⁵ , AgNi10 >2x10 ⁵operation cycles @ 230V AC, 5A, cos φ=1
n Max. Switching Power — DC200W	AgSnO ₂ >1.5x10 ⁵ , AgNi10 >10 ⁵operation cycles @ 230V AC, 8A, cos φ=1
n Max. Switching Power — AC2000VA	n Ambient Temperature-25...+85°C
n Contact Switching Rate10 operations per second	n Cover MaterialThermoplast
n Relay Operate Time20 ms	n Weight35 g
n Relay Release Time6 ms	n More detailed data upon request
n Operation Vibration0.35 mm Ampl. max@ 10...200Hz, 3g max	
n Protection RatingIP 40	

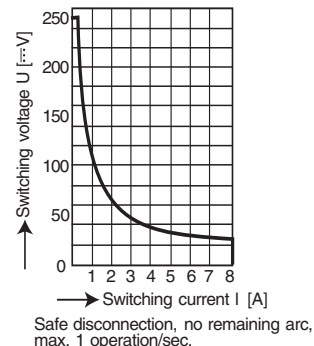
Diagrams



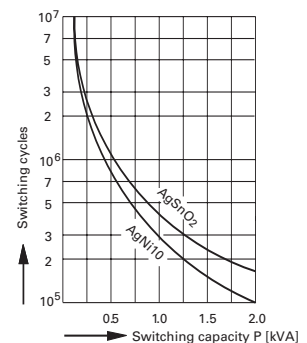
Relay operation voltage vs. ambient temperature



Limitation factor for inductive loads



Maximum switching power curve



Mechanical life

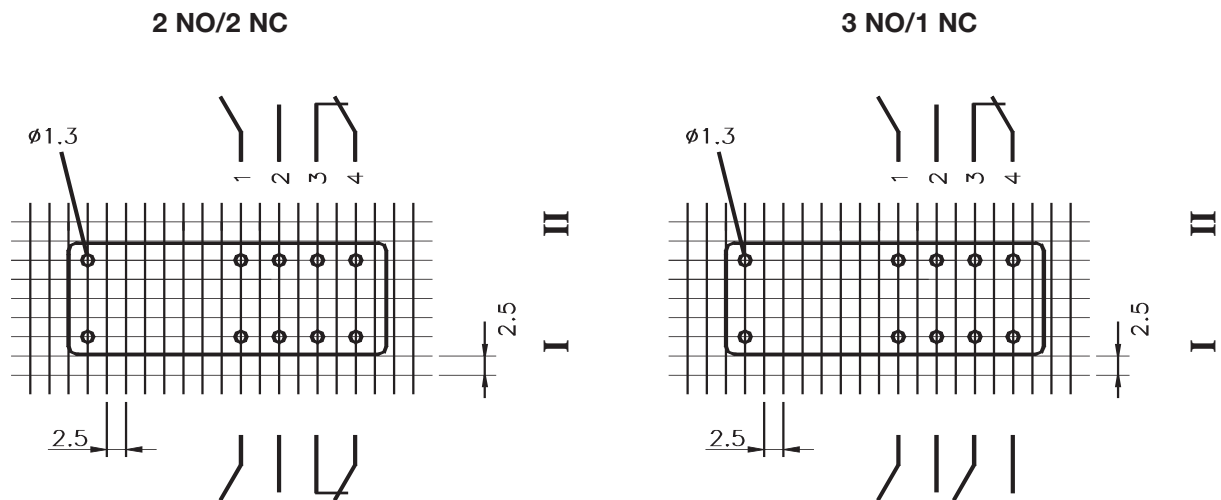
Safety Relay 5611 Data

Relay Data			Ordering Information	
Rated Voltage	Voltage Range	Coil Resistance	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 - 145.0V	20150 Ω	56.OA11.1122□	56.OA11.1131□

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

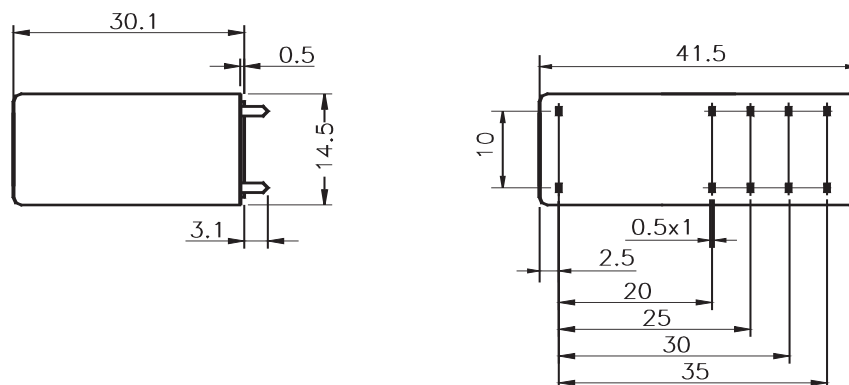
Footprints

(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.