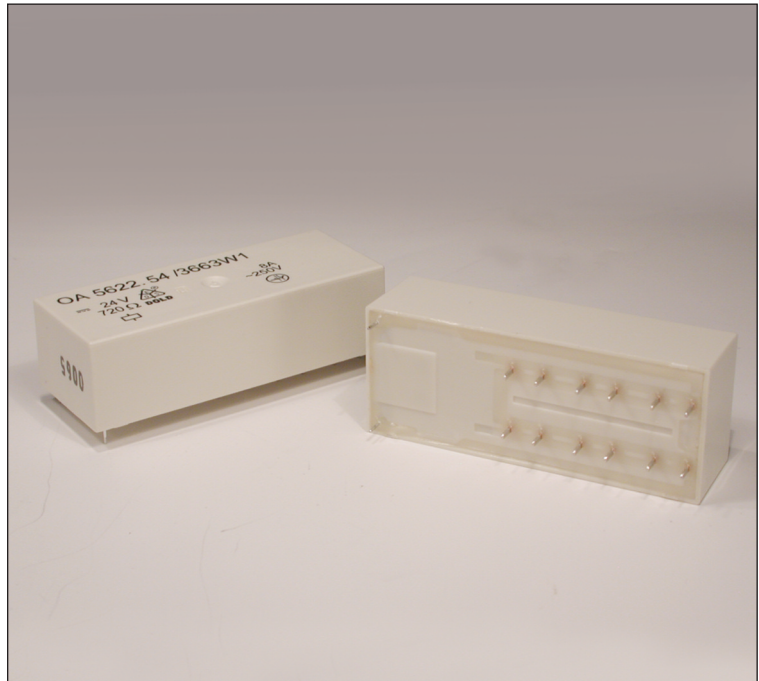


# Safety Relay

## OA 5622 / OA 5622S

### Features

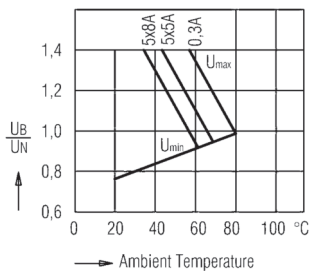
- 6 output contacts
- International approvals: TÜV, UL, cUL
- Quality control check for each safety relay
- Forced-guided contacts, all gold flash plated
- Contact Gap > 0.5 mm throughout life of relay
- Various contact materials, mixed contact material optional
- High coil voltage range
- High breakdown voltage: contact/coil  $\geq$  4 KV  
contact/contact  $\geq$  4KV
- High creeping distance: contact/coil  $\geq$  5.5 mm  
contact/contact  $\geq$  5.5 mm
- Protection Rating IP 67, washable
- Custom design available,
  - coil voltage
  - coil resistance,
  - contact pressure
  - operate/release time
  - gold plated double contacts
- S-Type  
higher external clearance and creeping distance:  
contact/contact  $\geq$  7.5 mm



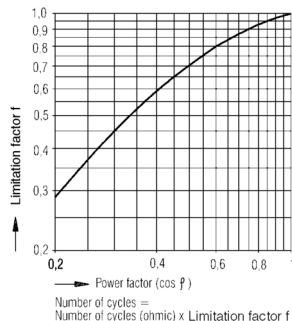
### Technical Data

- **Nominal Coil Voltage** .....6, 12, 24, 48, 60, 110, DC
- **Coil Power Dissipation** .....0.8 W
- **Max. Switching Voltage** .....250V DC, 400V AC
- **Max. Switching Current** .....8 A (5 x 8A simultaneous)
- **Max. Switching Power — DC**.....200W
- **Max. Switching Power — AC**.....2000VA
- **Contact Switching Rate** .....10 operations per second
- **Relay Operate Time** .....12 ms
- **Relay Release Time** .....8 ms
- **Operation Vibration** .....0.35 mm Ampl. max  
.....@ 10...200Hz, 5g max
- **Contact Arrangements**.....2NO/4NC, 3NO/3NC, 4NO/2NC, 5NO/1NC
- **Contact Material**.....AgNi10+0.2 $\mu$ mAu Standard  
.....AgSnO<sub>2</sub>+0.2 $\mu$ mAu, AgNi10+5 $\mu$ mAu Optional
- **Mechanical Life** .....>20x10<sup>6</sup> operation cycles
- **Electrical Life** .....AgSnO<sub>2</sub> >10<sup>5</sup>, AgNi10 >0.75x10<sup>5</sup>  
.....operation cycles @ 230V AC, 8A, cos  $\varphi$ =1
- **Ambient Temperature**.....-40...+80°C
- **Cover Material** .....Polyamide 6
- **Weight**......38 g
- More detailed data upon request

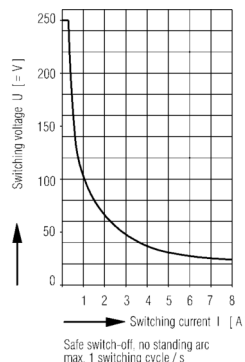
### Diagrams



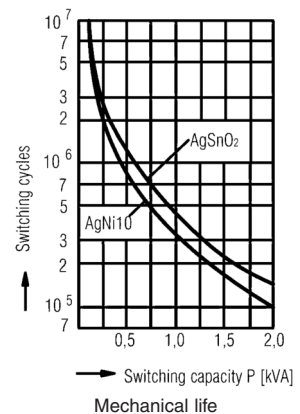
Relay operation voltage vs. ambient temperature



Limitation factor for inductive loads



Maximum switching power curve



Mechanical life

# Safety Relay OA 5622 / OA 5622S Data

## Relay Data

## Ordering Information

Rated Voltage	Voltage Range	Coil Resistance (10%)	2 NO/4 NC Type	Coil Resistance (10%)	3 NO/3 NC Type	4 NO/2 NC Type	5 NO/1 NC Type
6V	4.5 - 8.4V	38 Ω	56.OA22.0624□	45 Ω	56.OA22.0633□	56.OA22.0642□	56.OA22.0651□
12V	9.0 - 16.8V	150 Ω	56.OA22.1224□	180 Ω	56.OA22.1233□	56.OA22.1242□	56.OA22.1251□
24V	18.0 - 33.6V	600 Ω	56.OA22.2424□	720 Ω	56.OA22.2433□	56.OA22.2442□	56.OA22.2451□
48V	36.0 - 67.2V	2400 Ω	56.OA22.4824□	2880 Ω	56.OA22.4833□	56.OA22.4842□	56.OA22.4851□
60V	45.0 - 84.0V	3800 Ω	56.OA22.6024□	4500 Ω	56.OA22.6033□	56.OA22.6042□	56.OA22.6051□
110V	82.5 -154.0V	12700 Ω	56.OA22.1124□	15125 Ω	56.OA22.1133□	56.OA22.1142□	56.OA22.1151□

For S-Type:

Please specify **S** when ordering:

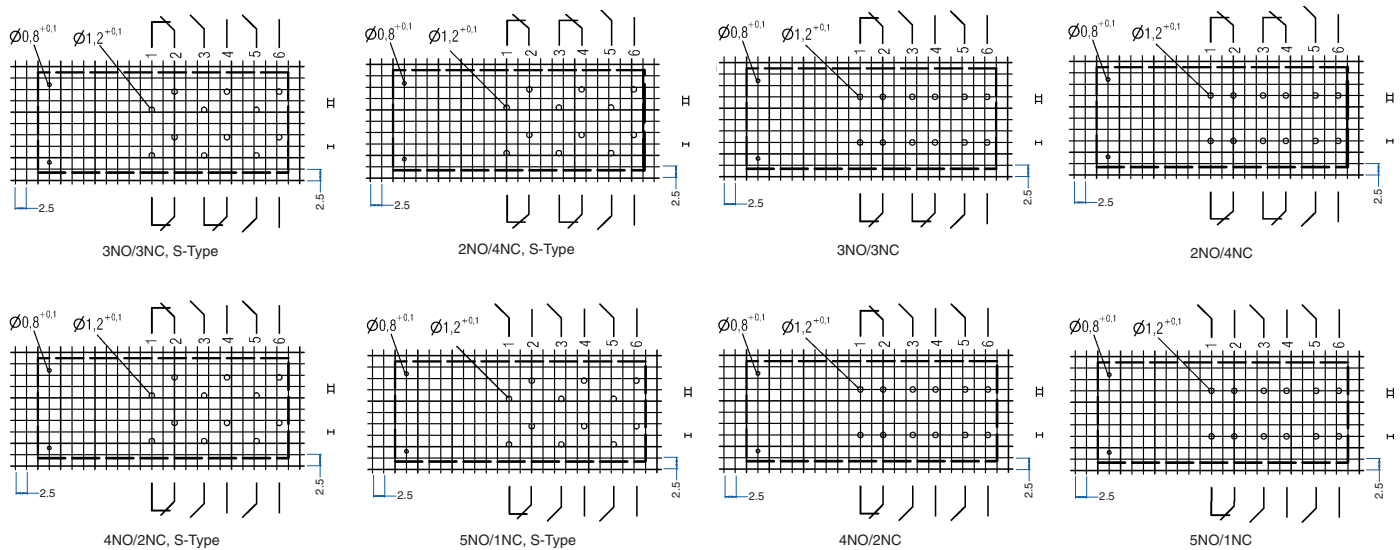
Example: 56.OA22S\_ \_ \_ \_ □

Contact Material, Example: □ AgSnO<sub>2</sub>+ .2μmAu

▢ AgNi10+.2μmAu

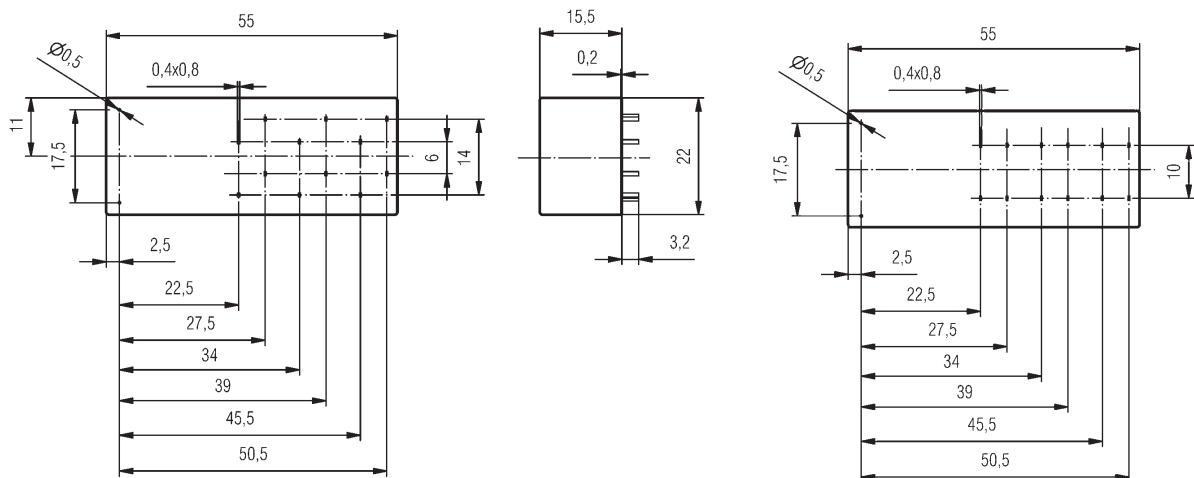
▣ AgNi10+5μmAu

## Footprints (solder side)



## Dimensions

S-Type



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