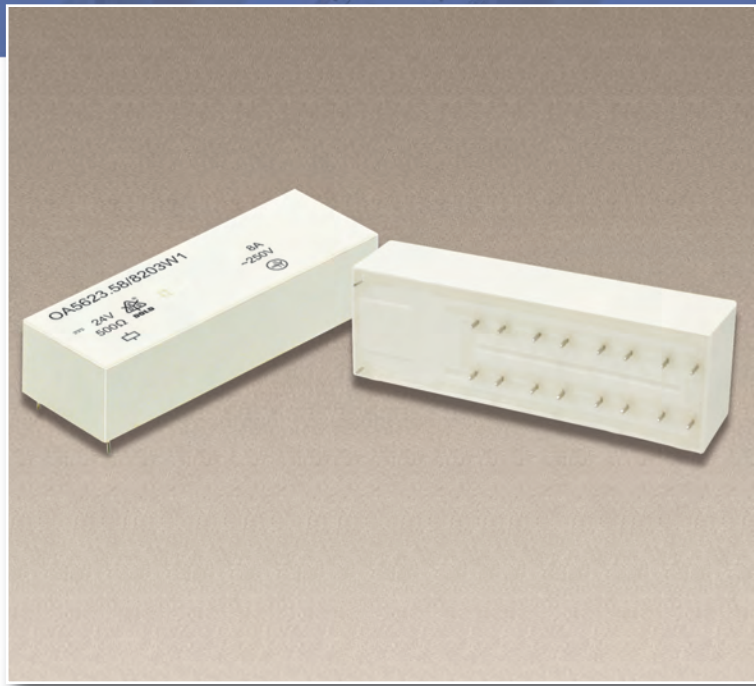


Safety Relay OA 5623 / OA 5623S

Features

- 8 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 ≥ 4 KV
contact/contact ≥ 4 KV
- High creeping distance: contact/coil ≥ 5.5 mm
contact/contact ≥ 5.5 mm
- Protection Rating RTIII wash proof
- Custom design available,
 - coil voltage
 - coil resistance
 - contact pressure
 - operate/release time
 - gold plated double contacts
- Bistable/latching version available
- Standard Pack: 15 piece sleeve or 150 piece case



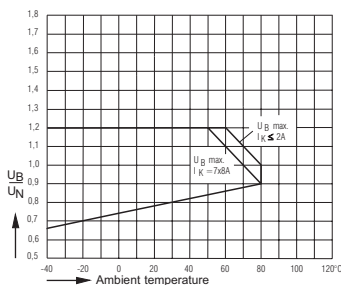
GERMANY

USA/CANADA
E107778

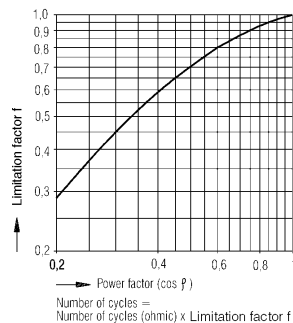
Technical Data

- **Nominal Coil Voltage** 6, 12, 24, 48, 60, 110, DC
- **Coil Power Dissipation** 1.2 W
- **Min./Max. Switching Voltage** AC/DC10V / 250VDC, 400VAC¹
- **Min./Max. Switching Current** 10mA / 8 A (7 x 8A simultaneous)¹
- **Min./Max. Switching Power – DC** 0.1W / 200W¹
- **Min./Max. Switching Power – AC** 0.1VA / 2000VA¹
- **Contact Switching Rate** 10 operations per second
- **Relay Operate Time** 16 ms
- **Relay Release Time** 8 ms
- **Operation Vibration** 0.35 mm Ampl. max
@ 10...200Hz, 5g max
- **Contact Arrangements** 4NO/4NC, 5NO/3NC, 6NO/2NC, 7NO/1NC
- **Contact Material** AgNi10+0.2 μ mAu
..... AgSnO₂+0.2 μ mAu, AgNi10+5 μ mAu
- **Mechanical Life** >20x10⁶ operation cycles
- **Electrical Life** AgNi10 >10⁵ operation cycles
..... @ 230V AC, 8A, cos ϕ =1
- **Ambient Temperature** -40...+80°C
- **Cover Material** Polyamide 6
- **Weight** 40 g
- **Wave Solder Temperature/Duration** 260°C/5s
- More detailed data upon request

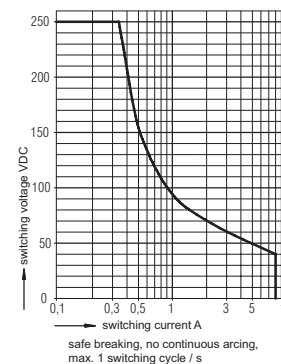
Diagrams



Relay operation voltage vs. ambient temperature



Limitation factor for inductive loads



Maximum switching power curve

¹ AgNi10+5 μ mAu contact material has limited switching capacity (Min./Max. 2V/60VAC/DC, 2mA/0.3A, 10mVA/12VA, 10mW/12W)

Relay Data

Ordering Information

Rated Voltage	Voltage Range	Coil Resistance (10%)	4 NO/4 NC Type	5 NO/3 NC Type	6 NO/2 NC Type	7 NO/1 NC Type
6V	4.8 - 7.2V	31 Ω	56.OA23.0644 □	56.OA23.0653 □	56.OA23.0662 □	56.OA23.0671 □
12V	9.6 - 14.4V	120 Ω	56.OA23.1244 □	56.OA23.1253 □	56.OA23.1262 □	56.OA23.1271 □
24V	19.2 - 28.8V	500 Ω	56.OA23.2444 □	56.OA23.2453 □	56.OA23.2462 □	56.OA23.2471 □
48V	38.4 - 57.6V	2000 Ω	56.OA23.4844 □	56.OA23.4853 □	56.OA23.4862 □	56.OA23.4871 □
60V	48.0 - 72.0V	2880 Ω	56.OA23.6044 □	56.OA23.6053 □	56.OA23.6062 □	56.OA23.6071 □
110V	88.0 - 132.0V	10100 Ω	56.OA23.1144 □	56.OA23.1153 □	56.OA23.1162 □	56.OA23.1171 □

For S-Type:

Please specify **S** when ordering:

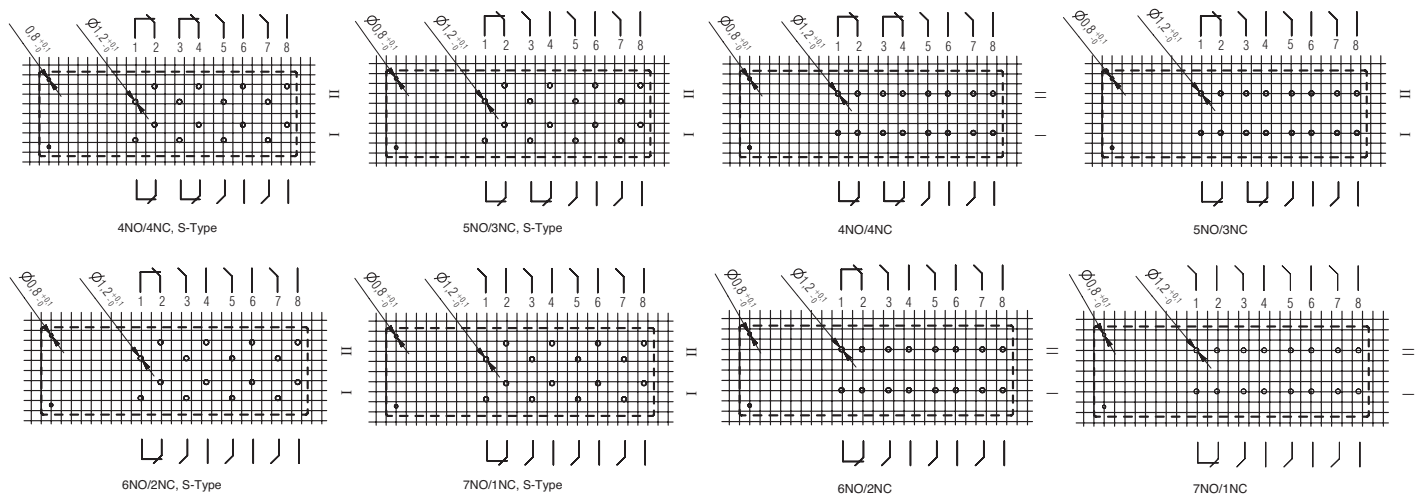
Example: 56.OA23S.____□

Contact Material, Example: **C** AgSnO₂+2μmAu

N AgNi10+2μmAu

S AgNi10+5μmAu

Footprints (solder side)



Dimensions

