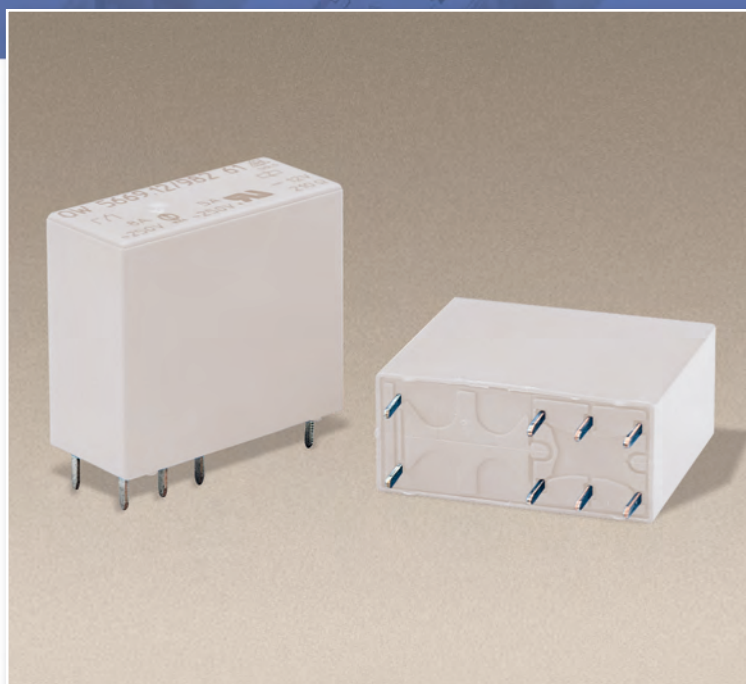


Safety Relay OA/OW 5669

Features

- 2 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
- High creeping distance: contact/contact ≥ 4 KV
contact/coil ≥ 8 mm
contact/contact ≥ 5.5 mm
- Protection Rating
OA Version: RTII solder line proof
OW Version: RTIII wash proof
- Custom design available
 - coil voltage
 - coil resistance
 - contact pressure
 - operate/release time
- Standard Pack: 56 piece sleeve or 280 piece case



GERMANY

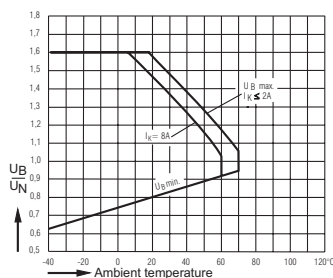


USA/CANADA
E146415

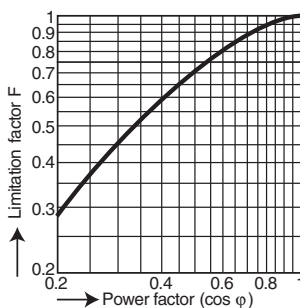
Technical Data

- **Nominal Coil Voltage** 6, 12, 20, 24, 48, 60, 110, DC
- **Coil Power Dissipation** 0.7 W
- **Min./Max. Switching Voltage** AC/DC10V / 250VDC, 400VAC¹
- **Min./Max. Switching Current** 10mA / 8 A (2 x 5A 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** ≤ 15 ms
- **Relay Release Time** ≤ 12 ms
- **Operation Vibration** 10...200Hz; NC 2g; NO 10g
- **Contact Arrangements** 1NO/1NC, 2CO, 2NO*, 2NC*
- **Contact Material** AgNi10+0.2 μ mAu
..... AgSnO₂+0.2 μ mAu, AgNi10+5 μ mAu
- **Mechanical Life** $\geq 50 \times 10^6$ operation cycles
- **Electrical Life** $> 2 \times 10^5$ operation cycles
..... @ 230V AC, 6A, $\cos \varphi = 1$
- **Ambient Temperature** -40...+70°C
- **Cover Material** Polyamide 6
- **Weight** 19 g
- **Wave Solder Temperature/Duration** 260°C/5s
- More detailed data upon request

Diagrams

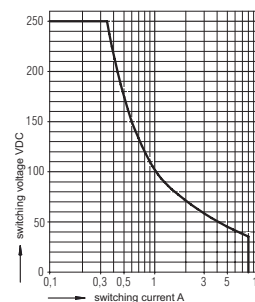


Relay operation voltage vs. ambient temperature



Operations =
Operations (ohmic) x limitation factor F

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)

*Special order.

Relay Data

Ordering Information

Rated Voltage	Voltage Range	Coil Resistance (10%)	1 NO/1 NC Type	2 CO Type	2 NO* Type	2 NC* Type
6V	4.8 - 9.6V	50 Ω	56.O□69.0611□	56.O□69.0600□	56.O□69.0620□	56.O□69.0602□
10V	8.0 - 16.0V	150 Ω	56.O□69.1011□	56.O□69.1000□	56.O□69.1020□	56.O□69.1002□
12V	9.6 - 19.2V	210 Ω	56.O□69.1211□	56.O□69.1200□	56.O□69.1220□	56.O□69.1202□
20V	16.0 - 32.0V	580 Ω	56.O□69.2011□	56.O□69.2000□	56.O□69.2020□	56.O□69.2002□
24V	19.2 - 38.4V	820 Ω	56.O□69.2411□	56.O□69.2400□	56.O□69.2420□	56.O□69.2402□
48V	38.4 - 76.8V	3200 Ω	56.O□69.4811□	56.O□69.4800□	56.O□69.4820□	56.O□69.4802□
60V	48.0 - 96.0V	5200 Ω	56.O□69.6011□	56.O□69.6000□	56.O□69.6020□	56.O□69.6002□
110V	88.0 - 176.0V	18000 Ω	56.O□69.1111□	56.O□69.1100□	56.O□69.1120□	56.O□69.1102□

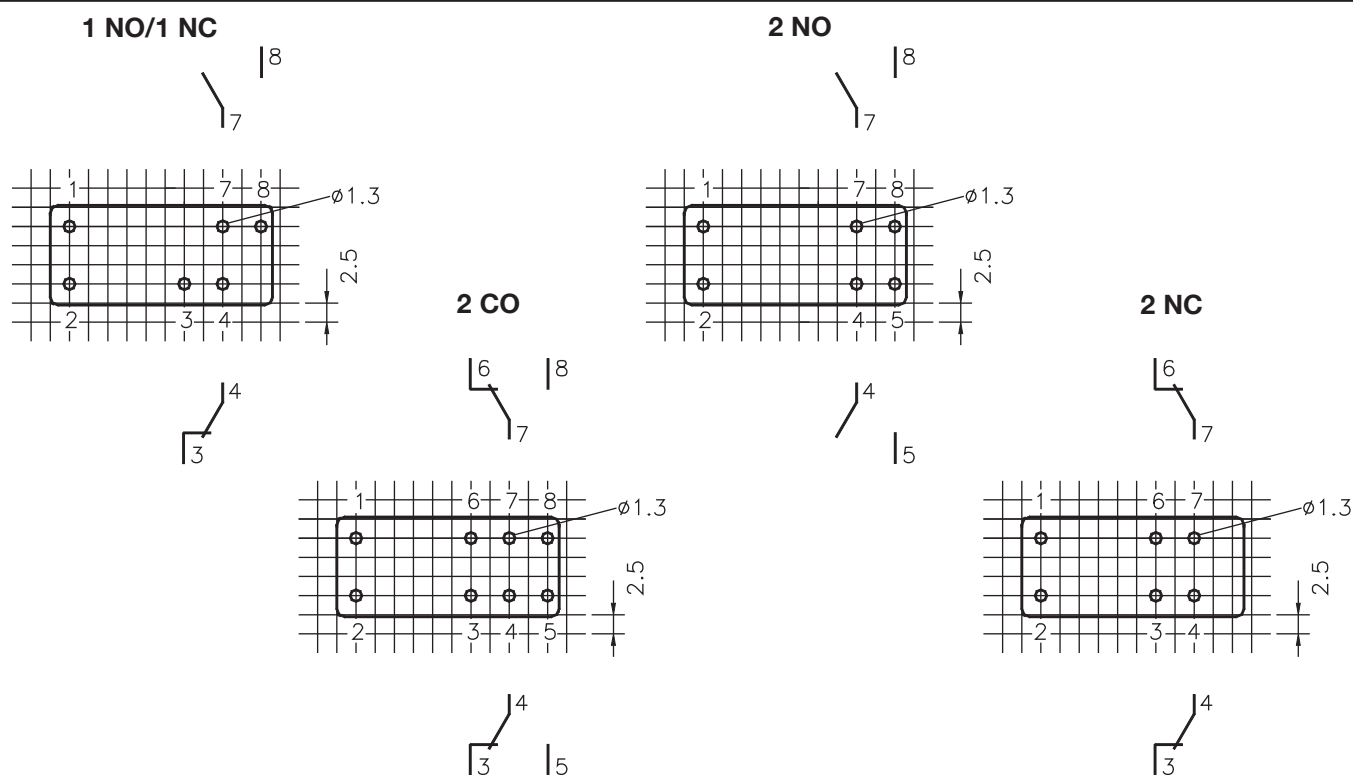
Protection Class, Example: _____

- ☐ A RTII solder line proof
☐ W RTIII wash proof

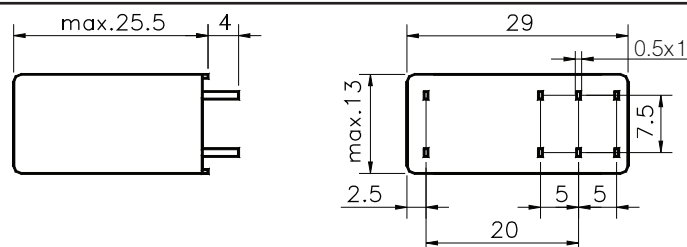
Contact Material, Example: ☐ C AgSnO₂+2 μ mAu

- ☐ 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.

*Special order.