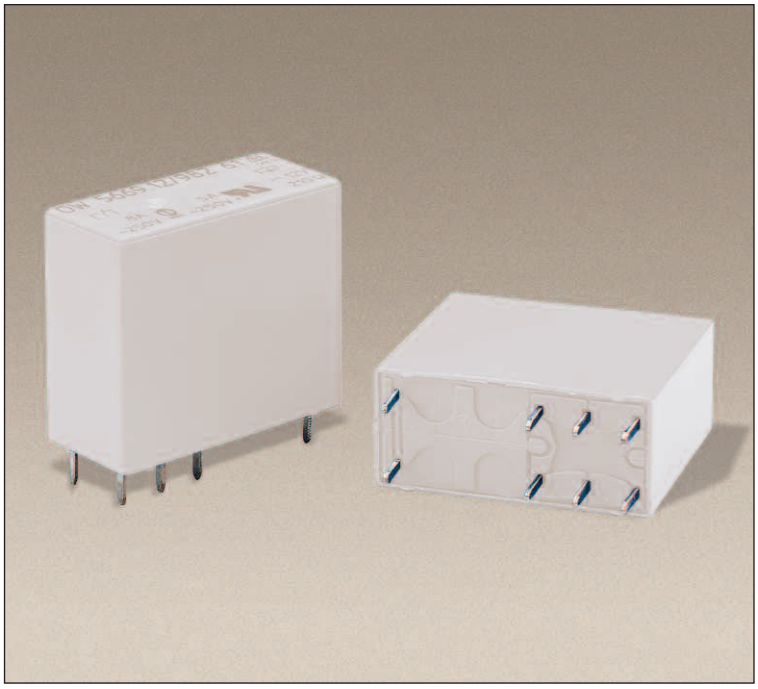
# Safety Relay
## OA/OW 5669



## Features

- 2 output contacts
- International approvals:
  TÜV, CSA, 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/coil > 8 mm
- Protection Rating
  OA Version: IP 40, flow solder proof
  OW Version: IP 67, washable
- Custom design available,
  -coil voltage -coil resistance,
  -contact pressure -operate/release time

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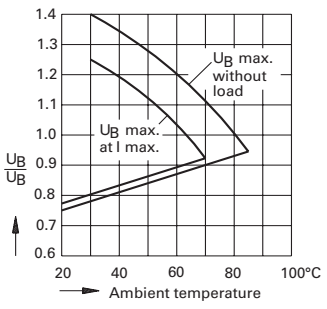
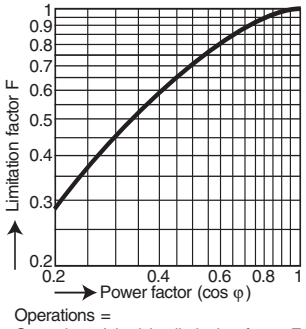
# Technical Data

- **Nominal Coil Voltage**.....5, 6, 12, 20, 24, 48, 60, 110, DC
- **Coil Power Dissipation**.....0.7 W
- **Max. Switching Voltage**.....250V DC, 400V AC
- **Max. Switching Current**.....8 A (2 x 5A simultaneous)
- **Max. Switching Power — DC**.....200W (2 x 160W simultaneous)
- **Max. Switching Power — AC**.....2000VA (2 x1250VA simultaneous)
- **Contact Switching Rate**.....10 operations per second
- **Relay Operate Time**.....≤15 ms
- **Relay Release Time**.....≤12 ms
- **Operation Vibration**.....0.35 mm Ampl. max @ 10...55Hz, 5g max
- **Contact Arrangements**.....1NO/1NC, 2CO, 2NO, 2NC
- **Contact Material**.....AgNi10+0.2µmAu Standard
  .....$AgSnO_2$+0.2µmAu, AgNi0.15+5µmAu Optional
- **Mechanical Life**.....$50x10^6$ operation cycles
- **Electrical Life**.....$AgSnO_2$ $>2x10^5$, AgNi10 $>10^5$
  .....operation cycles @ 230V AC, 6A, cos φ=1
- **Ambient Temperature**.....-20...+85°C
- **Cover Material**.....Polyamide 6
- **Weight**.....15 g
- More detailed data upon request

# Diagrams

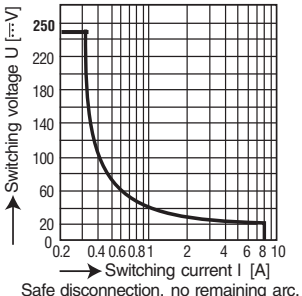



Relay operation voltage vs. ambient temperature



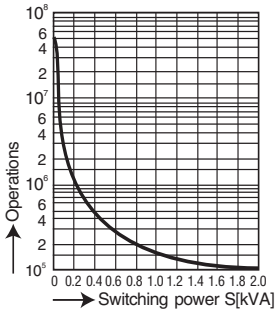

Operations =
Operations (ohmic) x limitation factor F

Limitation factor for inductive loads




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

Maximum switching power curve




Mechanical life

# Safety Relay 5669 Data

| Relay Data | | | Ordering Information | | | |
|---|---|---|---|---|---|---|
| *Rated Voltage* | *Voltage Range* | *Coil Resistance* | *1 NO/1 NC Type* | *2 CO Type* | *2 NO Type* | *2 NC Type* |
| 5V | 4.0 - 8.0V | 36 Ω | 56.O□69.0511□ | 56.O□69.0500□ | 56.O□69.0520□ | 56.O□69.0502□ |
| 6V | 4.8 - 9.6V | 50 Ω | 56.O□69.0611□ | 56.O□69.0600□ | 56.O□69.0620□ | 56.O□69.0602□ |
| 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□ |

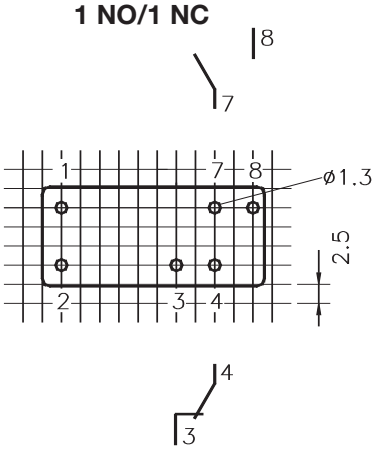
Protection Class, Example:
- A IP 40, Flow Solder Proof
- W IP 67, Washable

Contact Material, Example:
- C $AgSnO_2$+.2µmAu
- N AgNi10+.2µmAu
- S AgNi0.15+5µmAu

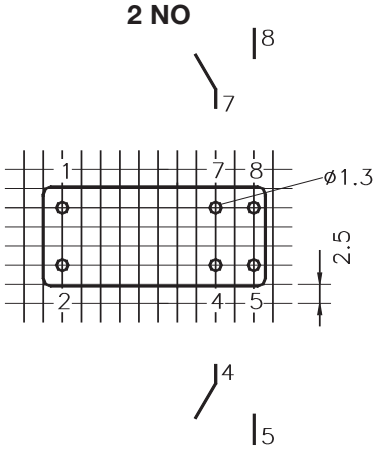
# Footprints

(Note: Shown at their actual size.)

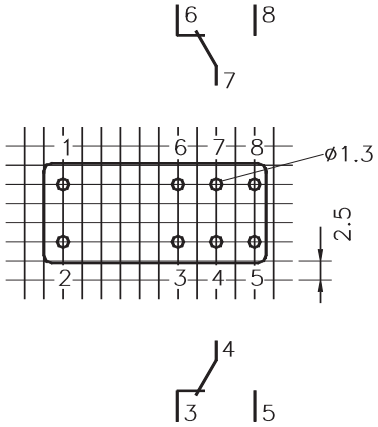
**1 NO/1 NC**



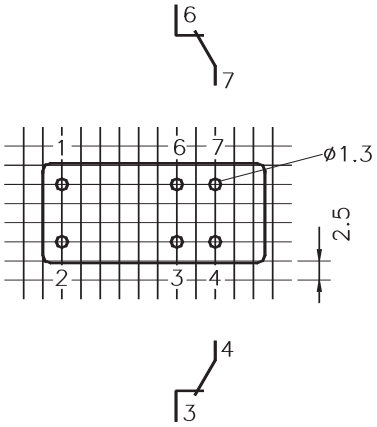

**2 NO**




**2 CO**

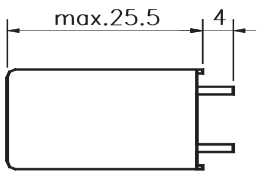


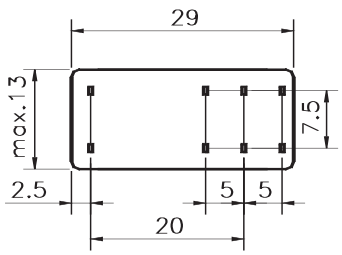

**2 NC**




# Dimensions

(Note: Shown at their actual size.)




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

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