

- According to DIN EN 61810-1, DIN EN 60664-1
- Low rated power consumption
- Compact size, small height (at horizontal model)
- OA 5661.12 horizontal mounting
- OA 5662.12 vertical mounting
- 2 changeover contacts
- Clearance and creepage distances contact-coil ≥ 8 mm
- Solder line proof
- Adjustment to customers specification

Applications

- Control technique
- Interface

Approvals and Marking



Technical Data

Relay type		OA 5661.12, OA 5662.12
1.0 Relay coil		
1.1 Nominal voltage	DC V	6; 12; 20; 24; 48; 60 (others on request)
1.2 Nominal consumption	W	0.7
1.11 Voltage range	U_N	0.7 ... 1.4
1.13 Holding power (at 0.5 x U_N)	W	0.18
2.0 Contacts		
2.1 Contact arrangement		2 changeover contact
2.2 Contact material		AgSnO ₂ + 0.2 μ m Au; AgNi + 0.2 μ m Au
2.3 Rated insulation voltage	AC V	250
Switching voltage min./max.	AC V	2 x 10 / 400
2.4 Limiting continuous current I_{th}	A	2 x 6 (see operating voltage limit curve)
Switching current min./max.	A	2 x 10 mA ^{2) / 8¹⁾}
2.5 Switching power min./max.	VA	2 x 4 / 1 500
Switching power min./max.	W	2 x 30 ... 200 (see limit curve for arc-free operation)
2.6 Switching capacity		
to IEC/EN 60947-5-1 AC 15	AC V/A	NC: 230 / 1; NO: 230 / 3
to IEC/EN 60947-5-1 DC 13	DC V/A	NC: 24 / 1; NO: 24 / 1
to UL 508		B150
2.7 Electrical life		at 1 s On, 1 s Off (see contacts service life)
at AC 230 V, 6 A, $\cos\phi = 1$	switching cycles	4 x 10 ⁵ AgNi 10 8 x 10 ⁵ AgSnO ₂
2.8 Switching frequency max.	switching cycles/s	20
2.9 Response time / Release time	ms	typically 5 / typically 7
2.10 Contact force	cN	> 25 / > 10
2.14 Contact gap	mm	> 0.5 ²⁾
3.0 Other		
3.1 Mechanical life	switching cycles	30 x 10 ⁶
3.2 Temperature range	°C	- 40 ... + 70
3.3 Degree of protection		Solder line proof RT II
3.5 Vibration resistance		4 g, to max. 100 Hz IEC/EN 60068-2-6
3.6 Climate resistance		40 / 070 / 04 (climate category); A / B / D IEC/EN 60068-1

¹⁾ max. 4 s; or. 10 % ED

²⁾ Typical values

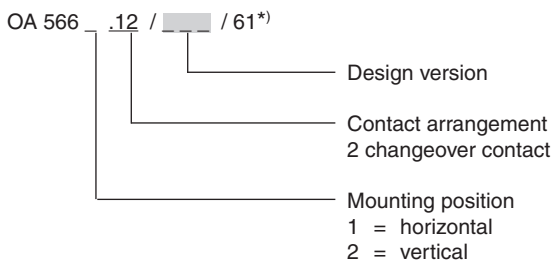
Technical Data

3.8	Insulation acc. to IEC 60664-1, EN 50178		
	Rated insulation voltage	AC V	250
	pollution degree		3
	Overvoltage category		III
	Test voltage		
	Contact- Coil (1 min)	AC kV eff.	≥ 4
	Contact - Contact (1min)	AC kV eff.	≥ 2.5
	Transient voltage		
	Contact- Coil (1.2 - 50 μs)	kV	≥ 6
	Clearance and creepage distances		
	Contact- Coil	mm	≥ 8
3.9	Weight	g	16
4.0 Packing			
4.1	in blister	piece	20
4.2	in case package	piece	200
5.0 Solder method			
5.1	Solder method /-temperature /-duration	°C / s	Wafer soldering / 260 / 5

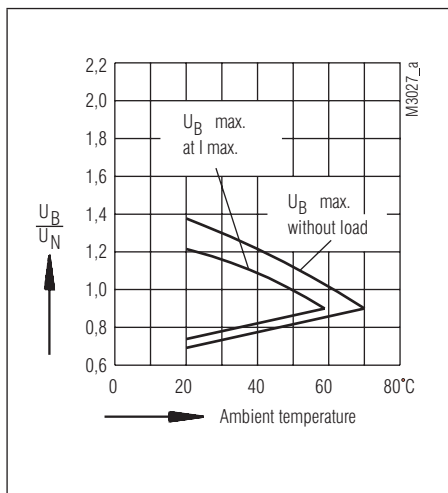
Design Versions

U _N DC V	Voltage range	Resistance at 20°C	AgNi10-contacts		AgSnO ₂ -contacts	
	DC V	Ω	OA 5661.12	OA 5662.12	OA 5661.12	OA 5662.12
6	4,2 ... 8,4	55	231	240	335	341
12	8,4 ... 16,8	220	232	241	336	342
20	14,0 ... 28,0	660	233	242	337	343
24	16,8 ... 33,6	880	234	243	338	344
48	33,6 ... 67,0	3 200	235	244	339	345
60	42,0 ... 84,0	4 700	236	245	340	346

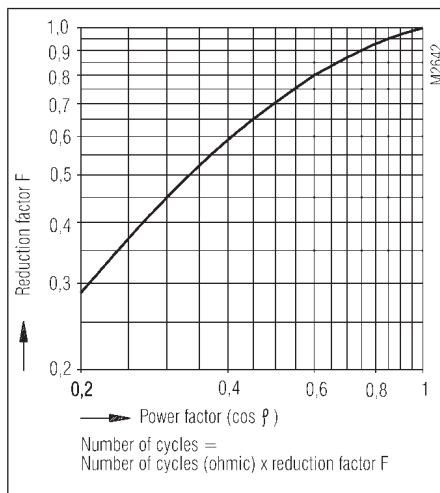
Ordering Example



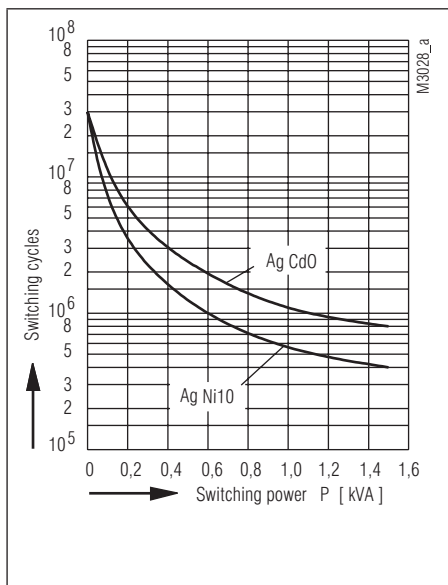
*) /61 cURus approval



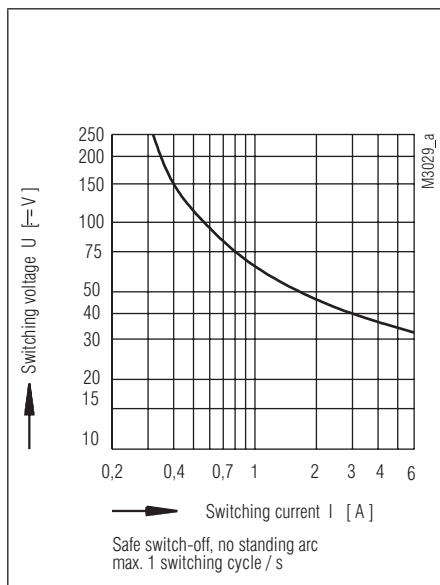
Operating voltage limit curve



Reduction factor for inductive loads

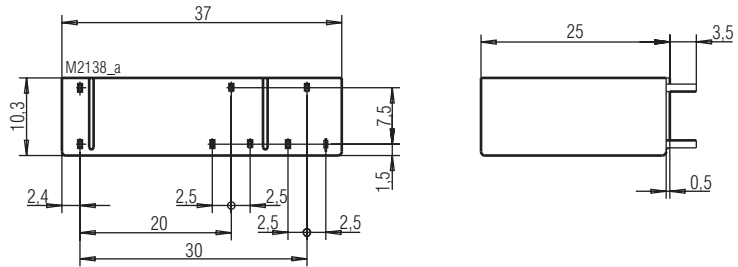
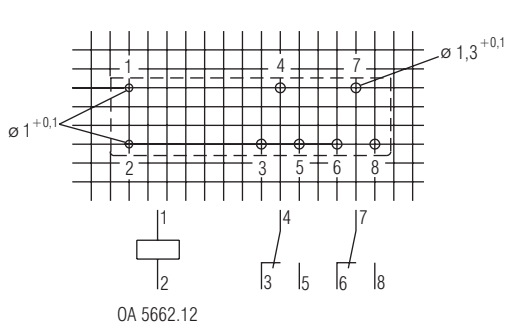
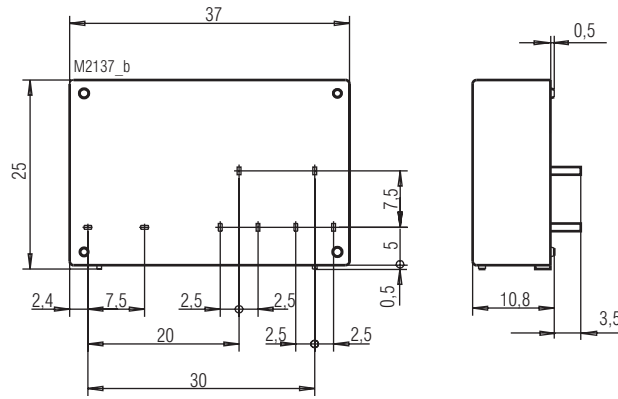
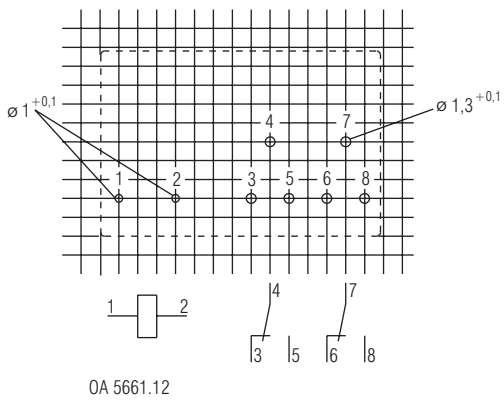


Contact service life (at $t_u = 20^\circ\text{C}$)



Limit curve for arc-free operation (at $t_u = 20^\circ\text{C}$)

Drilling plan (solder side)



Connection for basic grid dimensions 2.5 mm as well as 2.54 mm according to IEC/EN 60097 and IEC 60326 average