

Printed circuit board relay, monostable

OA 5661.12, OA 5662.12



- acc. to DIN EN 61 810-1, DIN EN 60 664-1
- 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
- Approval: 



OA 5661.12

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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
2. 0 Contacts			
2. 1	Contact arrangement	2 changeover contacts	
2. 2	Contact material	AgNi 10 + 2 μ m Au or AgSnO ₂ + 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 60 947-5-1 AC 15	AC V/A	NC: 230 / 1 NO: 230 / 3
	DC 13	DC V/A	NC: 24 / 1 NO: 24 / 1
2. 7	Electrical life		at 1 s On, 1 s Off (see contacts service life)
	AC 250 V, 6 A $\cos \varphi = 1$	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 NO / NC	cN	> 25 / > 10
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, housing		IP40, connections: IP 00 IEC/EN 60 529
3. 4	Housing material		Thermoplast
3. 5	Vibration resistance		4 g, to max. 100 Hz IEC/EN 60 068-2-6
3. 6	Climate resistance		40 / 070 / 04 (climate category); A/B/D IEC/EN 60 068-1

¹⁾ max. 4 s; or 10 % ED

²⁾ Typical values

Technical data

3. 8 Insulation as per IEC 60 664-1 , EN 50 178

Rated insulation voltage		AC V	250
Contamination level			3
Overvoltage category			III
Test voltage	contact-coil (1 min)	AC kV eff.	≥ 4
	contact-contact (1 min)	AC kV eff.	≥ 2,5
Transient volt.	contact-coil (1,2 - 50 μs)	kV	≥ 6
Clearance and creepage distances as per IEC/EN 60 730, IEC/EN 60 335			
	contact-coil	mm	≥ 8

3. 9 Weight

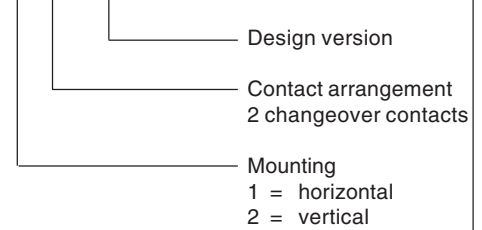
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Standard variants

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

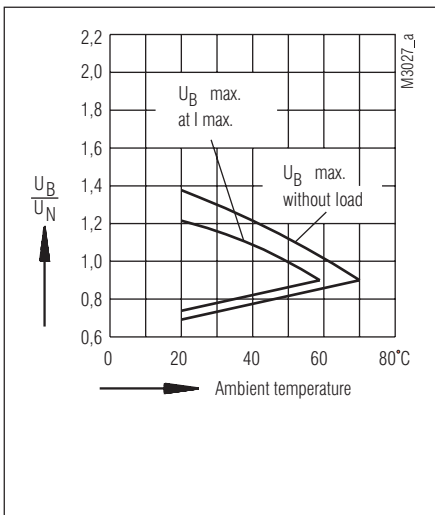
Ordering example

OA 566 .12 / - - /61*)

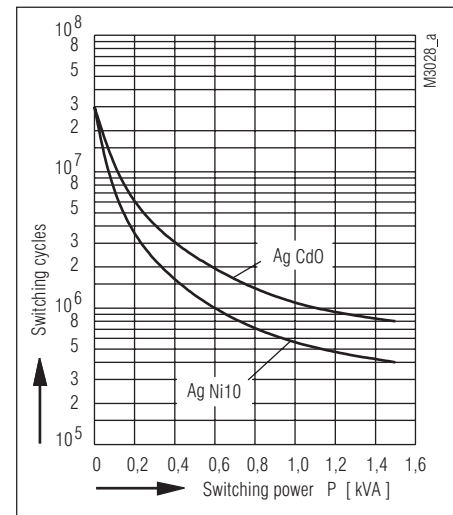


*) /61 cURus approval

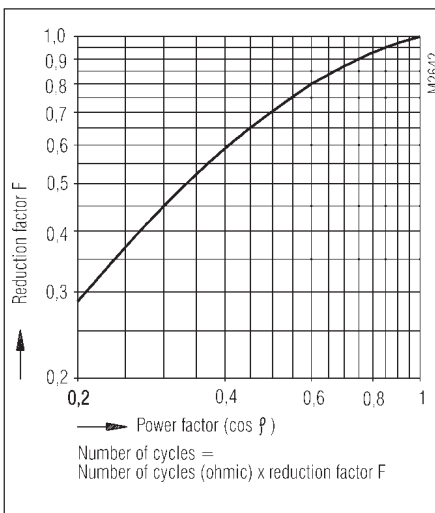
Characteristics



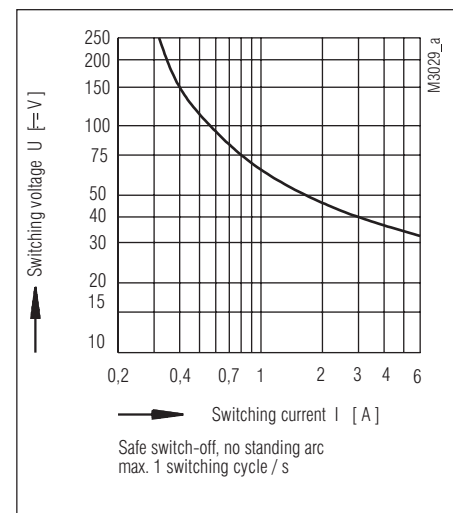
Operating voltage limit curve



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

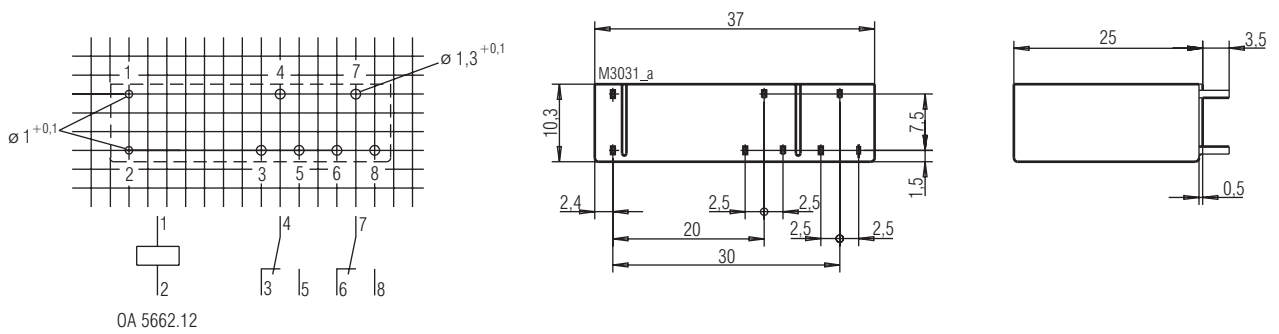
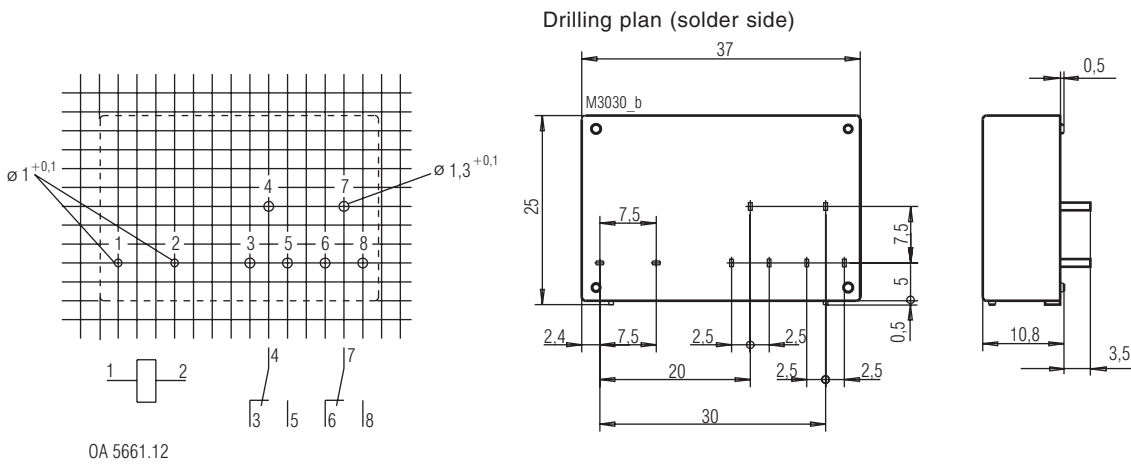


Reduction factor for inductive loads



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

Dimensions, pin configuration, connection diagrams



Connection for basic grid dimensions 2,5 mm as well as 2,54 mm according to IEC/EN 60 097 and IEC 60 326 average

