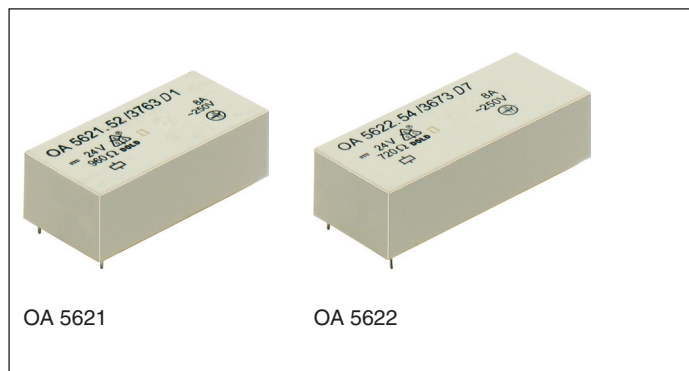




OA 5621

OA 5622

- Acc. to DIN EN 50205, DIN EN 61810-1, DIN EN 60664-1
- With forcibly guided contacts
- Low rated power consumption
- Clearance and creepage distances ≥ 5.5 mm;
- that means double and reinforced insulation between all circuits
- High mechanical service life
- High temperature range
- High thermal continuous current
- Extremely flat: only 15.5 mm high
- Version with double contacts possible, AgNi 0.15 + 5 μ m Au-contacts

Applications

- To be used in electrical circuits for safety applications
- Escalators and walkways
- Elevators for men and load
- Press controls
- Railway technology
- Medical technology

Approvals and Marking



Technical Data

Relay type		OA 5621	OA 5622	OA 5622.50
1.0 Coil				
1.1	Nominal voltage	DC V	6, 12, 24, 48, 60, 110 (others on request)	
1.2	Nominal consumption	W	0.6	0.8 0.9
1.11	Voltage range	U _N	0.75 ... 1.4	
1.12	Thermal resistance	K/W	55 (mounting distance between relays ≥ 5 mm)	
1.13	Holding Power (at 0.5 x U _N)	W	0.15	0.2 0.225
2.0 Contacts				
2.1	Contact arrangement		2 NO / 2 NC 3 NO / 1 NC	3 NO / 3 NC 4 NO / 2 NC 5 NO / 1 NC 2 NO / 4 NC
2.2	Contact material		AgSnO ₂ + 0.2 μm Au; AgNi + 0.2 μm Au, AgNi + 5 μm Au	
2.3	Rated insulation voltage	AC V	250	
	Switching voltage min./max	V	AC/DC 10 / DC 250, AC 400 (AC/DC 100 mV / 60 V) ¹⁾	
2.4	Limiting continuous current I _{th}	A	3 x 8	5 x 8 (s. operating voltage limit curve.)
	Switching current min./max	A	10 mA ⁴⁾ / 8 (1 mA / 0.3 A) ¹⁾	
2.5	Switching power min./max.	VA	3 / 2000 (1 mVA / 7 VA) ¹⁾	
	Switching power min./max.	W	0.1 ⁴⁾ / 200 (1 mW / 7 W) ¹⁾ (see limit curve for arc-free operation)	
2.6	Switching capacity			
	to IEC/EN 60947-5-1 AC 15 ⁷⁾	AC V/A		NO: 250 / 3 NC: 250 / 2
	to IEC/EN 60947-5-1 AC 15 ⁶⁾	AC V/A		NO: 250 / 5 NC: 250 / 2
	to IEC/EN 60947-5-1 DC 13 ⁷⁾	DC V/A		NO: 24 / 2 NC: 24 / 2
	at 0.1 Hz DC 13 ⁷⁾	DC V/A		NO: 24 / 4 NC: 24 / 4
	to UL 508		B300 / Q 300	
2.7	Electrical life		at 1 s On, 1 s Off (see contacts service life)	
	at AC 230 V, 5 A, cosφ = 1	switching cycles	> 3 x 10 ⁵ AgSnO ₂	> 2.2 x 10 ⁵ AgNi
	at AC 230 V, 8 A, cosφ = 1	switching cycles	> 1.5 x 10 ⁵ AgSnO ₂	> 10 ⁵ AgNi
	at DC 24 V 5 A ohmic	switching cycles	> 2 x 10 ⁵ AgSnO ₂	> 1.5 x 10 ⁵ AgNi
	at DC 24 V 8 A ohmic	switching cycles	> 10 ⁵ AgSnO ₂	> 0.75 x 10 ⁵ AgNi
2.8	Switching frequency max	switching cycles/s	10	
2.9	Response time / Release time	ms	typically 12 / typically 8	
2.10	Contact force	cN	≥ 8	
2.14	Contact gap	mm	> 0.5 ⁵⁾	
3.0 Other				
3.1	Mechanical life	switching cycles	> 20 x 10 ⁶	
3.2	Temperature range	°C	- 40 ... + 80	
3.3	Degree of protection, housing		Wash proof RT III	
3.5	Vibration resistance		10 ... 200 Hz; 0,35 mm amplitude; 5 g max. IEC/EN 60068-2-6	
3.6	Climate resistance		Humid heat IEC/EN 60068-2-30	
3.7	Short circuit strength 1 kA / AC 250 V	AgSnO ₂ AgNi	NO: 10 AgL / NC: 10 AgL EN 60947-5-1 NO: 10 AgL / NC: 6 AgL EN 60947-5-1	

¹⁾ Values for AgNi-contacts + 5 μ m Au ²⁾ at $T_u = 60^\circ\text{C} > 10^5$
⁵⁾ over entire service life, even when under fault and at $1.4 \times U_N$
³⁾ at $T_u = 60^\circ\text{C} > 0,75 \times 10^5$
⁶⁾ Values for AgSnO₂-contacts

⁴⁾ Typical values

⁷⁾ Values for AgNi-contacts

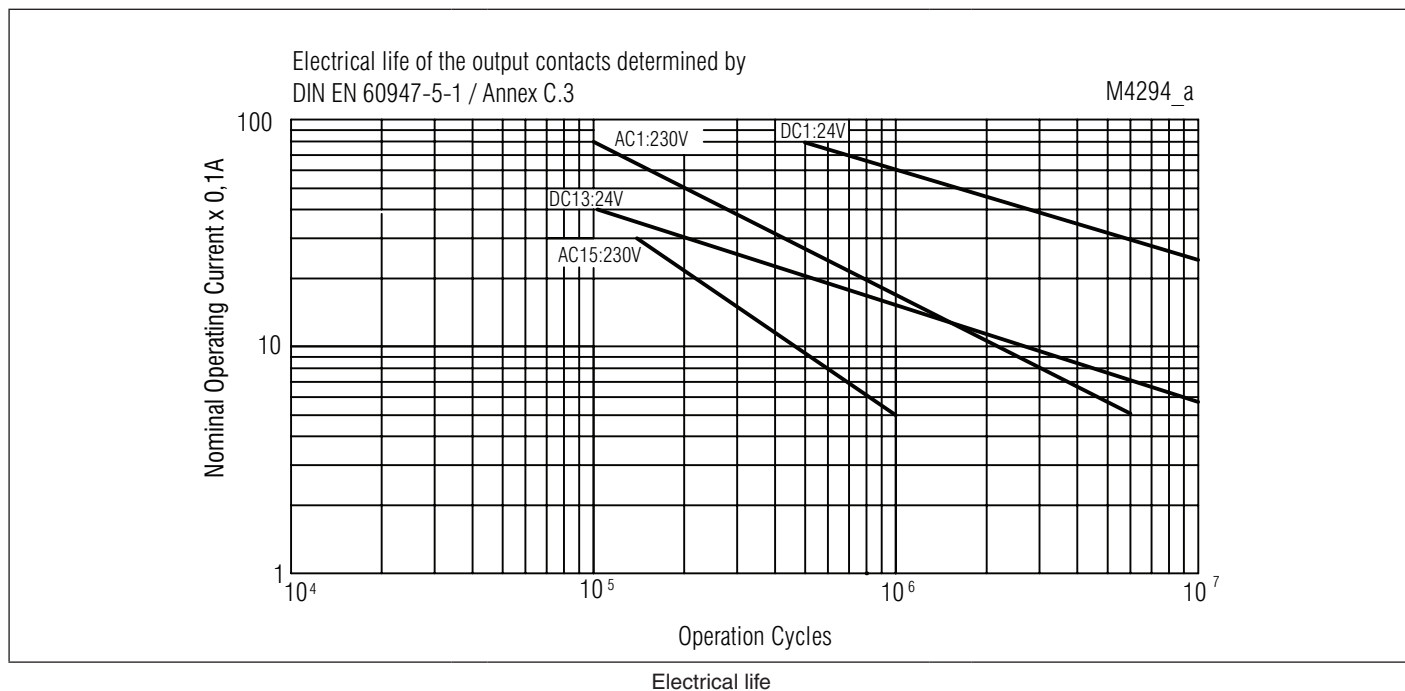
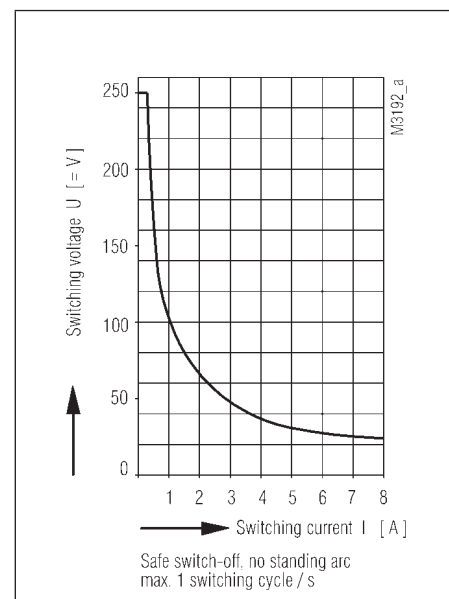
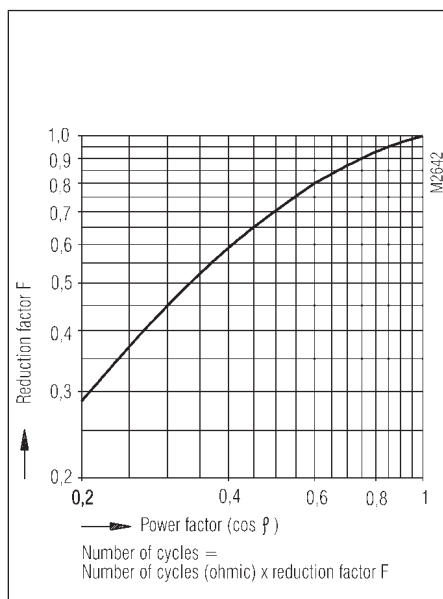
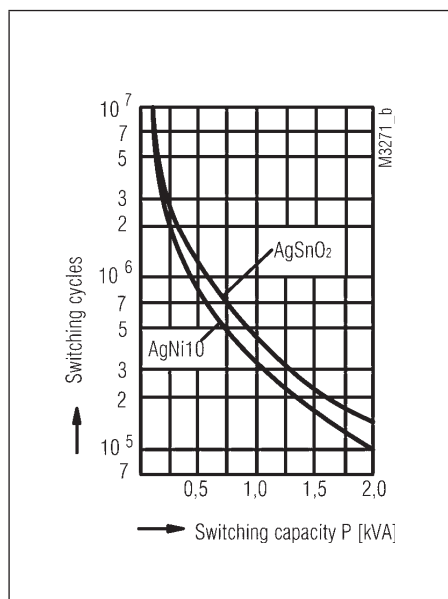
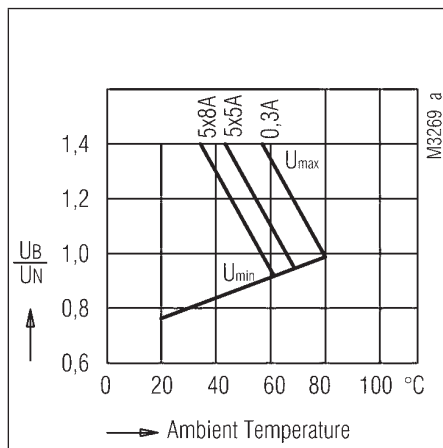
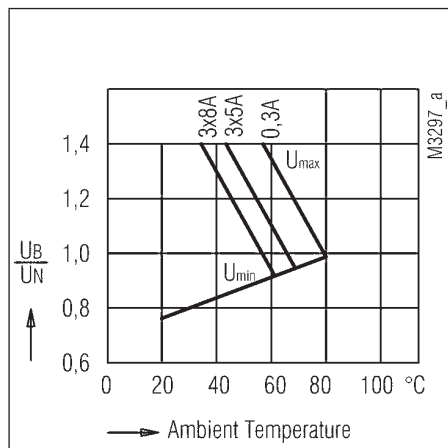
Technical Data					
3.8	Insulation acc. to IEC 60664-1, EN 50178				
	Rated insulation voltage	AC V	250		
	Contamination level		2		
	Overvoltage category		III		
	Test voltage				
	Contact-coil (1 min)	AC kV eff.	≥ 4		
	Contact-contact (1min)	AC kV eff.	≥ 4		
	Open contact acc. to DIN EN 61810-1	AC kV eff.	1.5		
	Transient voltage				
	Contact-coil (1,2 - 50 μs)	kV	≥ 6		
Clearance and creepage distance		mm	≥ 5.5		
3.9	Weight	g	approx. 35	approx. 38	approx. 38
4.0 Packing unit					
4.1	on cardboard in slipcase	piece	25	20	20
4.2	in case package	piece	250	200	200
5.0 Solder method					
5.1	Solder method /-temperature /-duration	°C / s	Wafe soldering / 260 / 5		

Design Versions										
		OA 5621			OA 5622					
U _N (DC V)	Voltage range (DC V)	R _{Coil} Ω ± 10%	.48	.52	R _{Coil} Ω ± 10%	.18	.54	.60	R _{Coil} Ω ± 10%	.50
			3NO, 1NC	2NO, 2NC		3NO, 3NC	4NO, 2NC	5NO, 1NC		2NO, 4NC
AgSnO ₂ -contacts + 0,2 μm Au										
6	4,5 ... 8,4	60	3721	3751	45	3601	3661	3691	38	3631
12	9,0 ... 16,8	240	3722	3752	180	3602	3662	3692	150	3632
24	18,0 ... 33,6	960	3723	3753	720	3603	3663	3693	600	3633
48	36,0 ... 67,2	3840	3724	3754	2880	3604	3664	3694	2425	3634
60	45,0 ... 84,0	6000	3725	3755	4500	3605	3665	3695	3790	3635
110	82,5 ... 154,0	20000	3726	3756	15125	3606	3666	3696	12735	3636
AgNi-contacts + 0,2 μm Au										
6	4,5 ... 8,4	60	3731	3761	45	3611	3671	3701	38	3641
12	9,0 ... 16,8	240	3732	3762	180	3612	3672	3702	150	3642
24	18,0 ... 33,6	960	3733	3763	720	3613	3673	3703	600	3643
48	36,0 ... 67,2	3840	3734	3764	2880	3614	3674	3704	2425	3644
60	45,0 ... 84,0	6000	3735	3765	4500	3615	3675	3705	3790	3645
110	82,5 ... 154,0	20000	3736	3766	15125	3616	3676	3706	12735	3646
AgNi-contacts + 5 μm Au										
6	4,5 ... 8,4	60	3741	3771	45	3621	3681	3711	38	3651
12	9,0 ... 16,8	240	3742	3772	180	3622	3682	3712	150	3652
24	18,0 ... 33,6	960	3743	3773	720	3623	3683	3713	600	3653
48	36,0 ... 67,2	3840	3744	3774	2880	3624	3684	3714	2425	3654
60	45,0 ... 84,0	6000	3745	3775	4500	3625	3685	3715	3790	3655
110	82,5 ... 154,0	20000	3746	3776	15125	3626	3686	3716	12735	3656

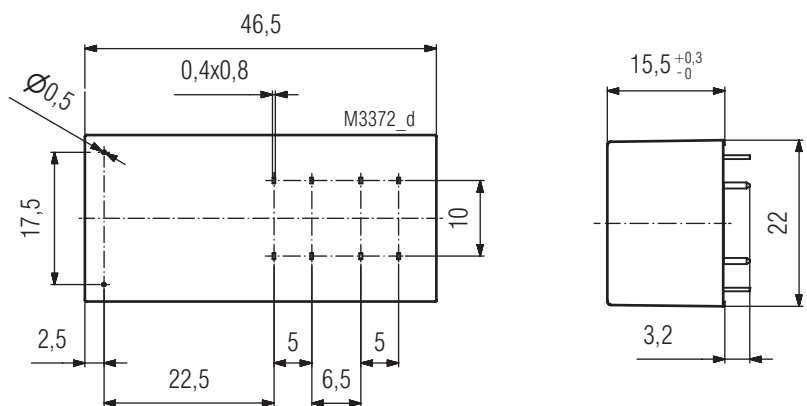
Ordering example	
OA 5622	Pin configuration
W =	Wash proof (IP 67)
Design version	
Contact arrangement	
.50	2 NO, 4 NC
.18	3 NO, 3 NC
.54	4 NO, 2 NC
.60	5 NO, 1 NC
Type	

On request
version with double contacts

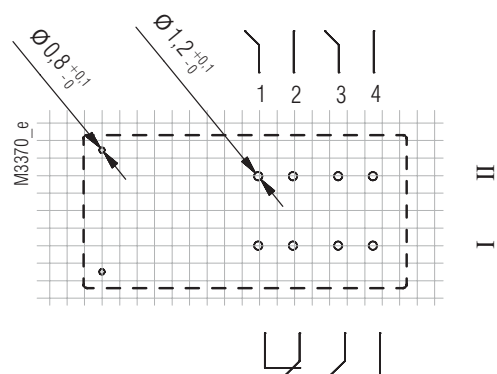
*) / 61 cURus approval



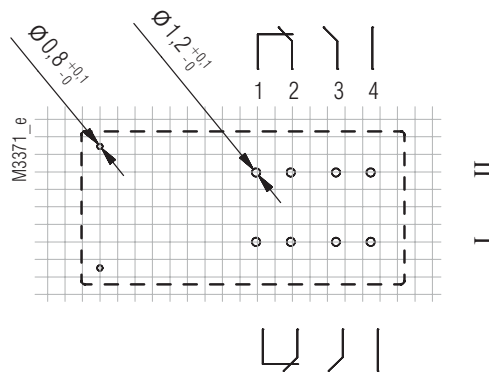
Pin Configuration W1 / W5



Pin Configuration sW1 Drilling plan (solder side)

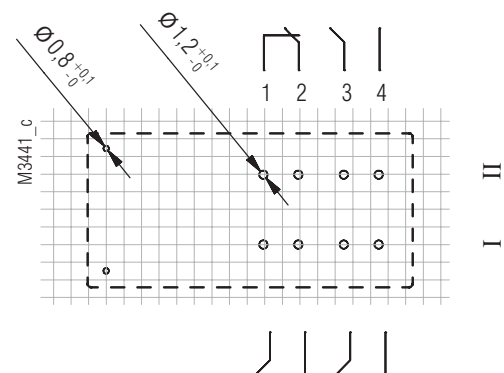


OA5621.48/___W1 3NO / 1NC



OA5621.52/___W1 2NO / 2NC

Pin Configuration D5 Drilling plan (solder side)

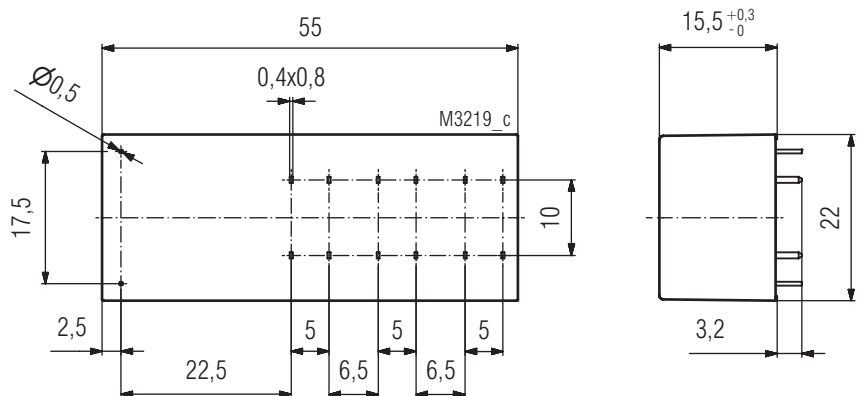


OA5621.48/___W5 3NO / 1NC

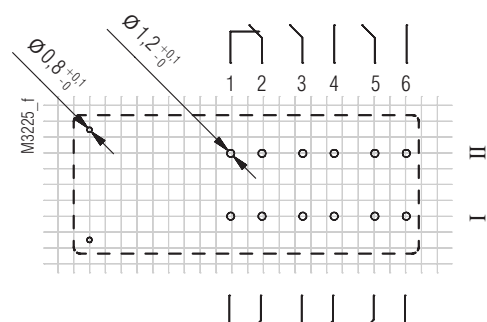


OA 5621, OA 5622 / 14.04.14 en / 430

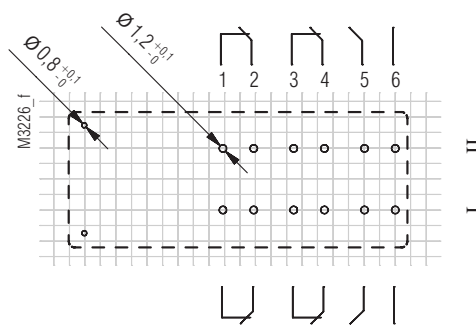
Pin Configuration W1



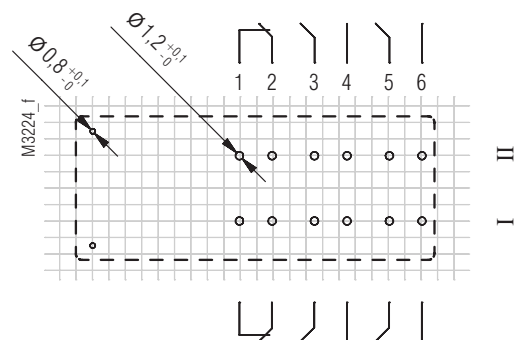
Pin Configurations W1 Drilling plan (solder side)



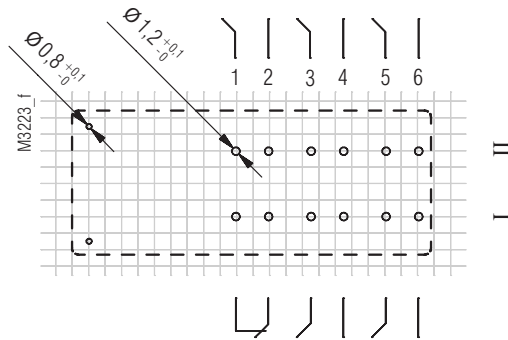
OA 5622.18/___W1 3NO / 3NC



OA 5622.50/___W1 2NO / 4NC

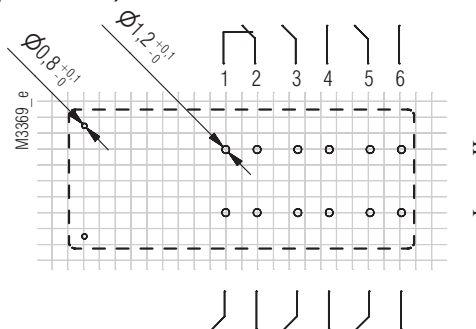


OA 5622.54/___W1 4NO / 2NC



OA 5622.60/___W1 5NO / 1NC

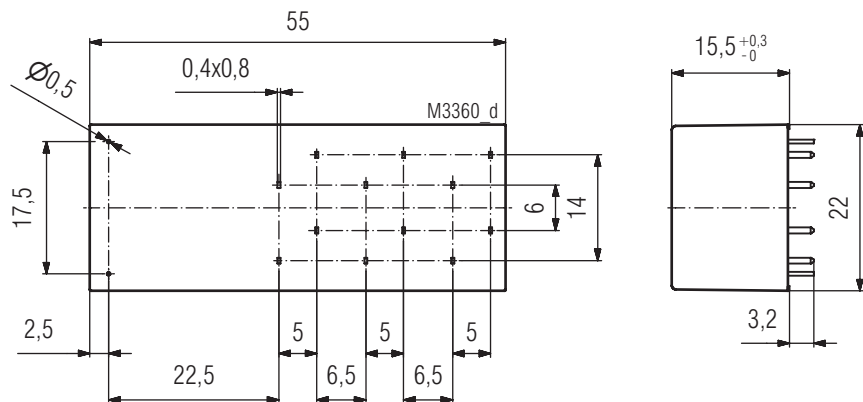
Pin Configuration W5 Drilling plan (solder side)



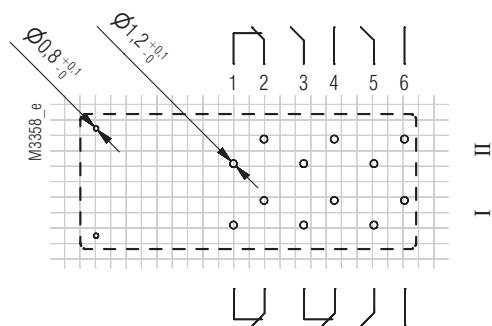
OA 5622.60/___W5 5NO / 1NC

Connection for basic grid divisions 2.50 mm as well as 2.54 mm according to IEC/EN 60 097, IEC 60 326

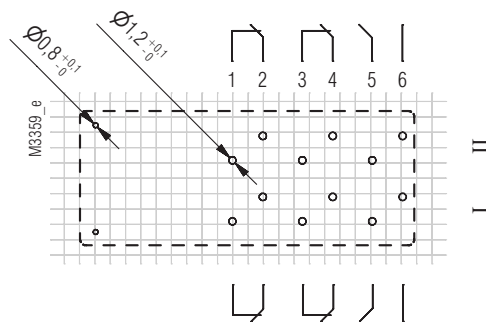
Pin Configuration W7



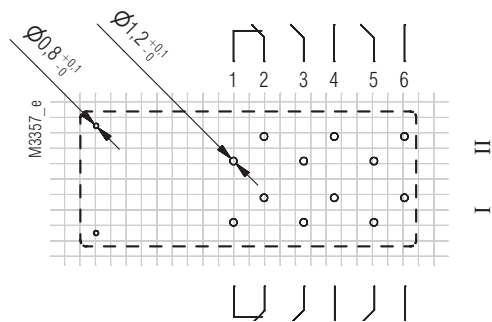
Pin Configurations W7 Drilling plan (solder side)



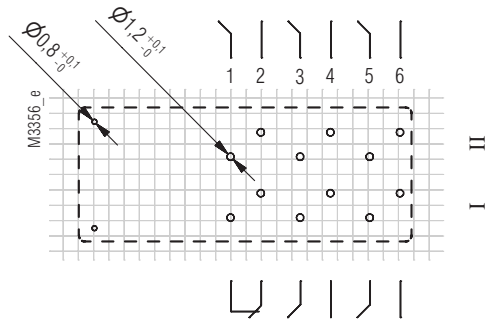
OA 5622.18/___W7 3NO / 3NC



OA 5622.50/___W7 2NO / 4NC

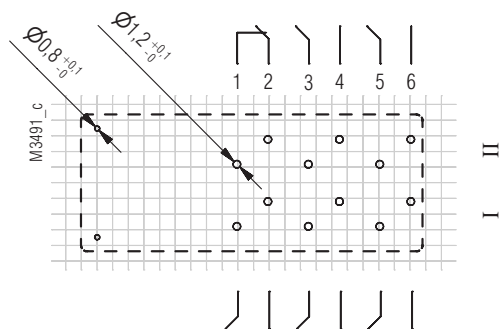


OA 5622.54/___W7 4NO / 2NC



OA 5622.60/___W7 5NO / 1NC

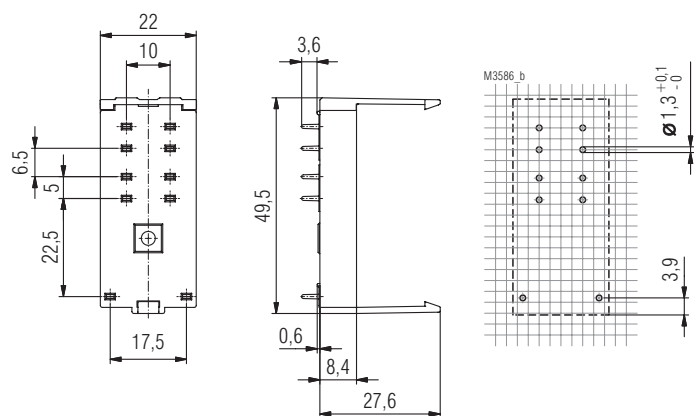
Pin Configurations W8 Drilling plan (solder side)



OA 5622.60/___W8 5NO / 1NC

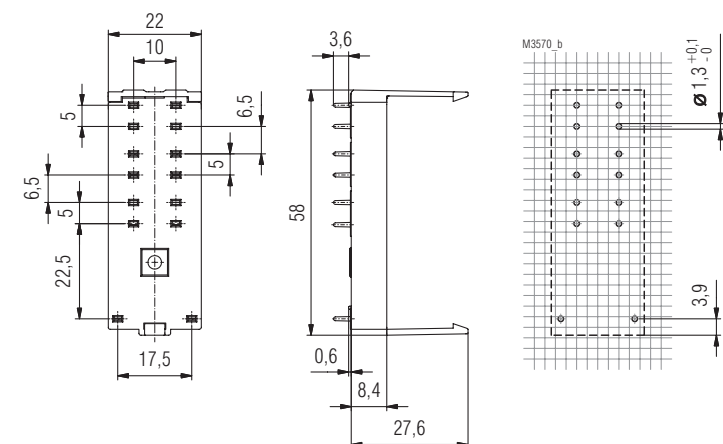
Connection for basic grid divisions 2.50 mm as well as 2.54 mm according to IEC/EN 60 097, IEC 60 326

Socket ET 1415.035



Article number: 0059509

Socket ET 1415.037



Article number: 0059275