

Miniature Power PCB Relay MSR V23061

- 1 pole 8/10A, 1form C (CO) or 1 form A (NO) contact
- High inrush currents with AgSnO₂ contacts (TV4 0 65A)
- 4kV/8mm coil-contact
- Reinforced insulation (protection class II)
- Ambient temperature up to 85°C at 8A
- Plastic materials according to IEC 60335-1 (domestic appliances)





Typical applications

HVAC, interface technology. PLC's, power supplies, TV-/monitor control, domestic appliances, Hi-Fi products, timers.

Approvals

VDE Cert. No. 40017849, UL E214025

Technical data of approved types on request.

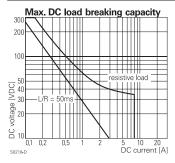
Contact Data	
Contact arrangement 1	form C (CO) or 1 form A (NO)
Rated voltage	250VAC
Max. switching voltage	400VAC
Rated current	
versions A,B	8A
versions C, D	10A
Limiting making current, max 4s, df 10%	15A
version A302, max 20ms	65A
Breaking capacity max.	2000VA
Contact material	AgSnO ₂ , AgNi90/10
Frequency of operation, with/without load	6/1200min-1
Operate/release time max.	10/5ms
Bounce time max., form A/form B	3/10ms

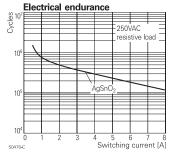
Contact	ratings
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Туре	Contact	Load	Cycles
IEC 61810			
V23061-A1***-A302	A (NO)	8A, 250VAC, cosφ=1, 85°C	100x10 ³
V23061-C2***-A802	A (NO)	10A, 250VAC, cosφ=1, 85°C	100x10 ³
V23061-C2***-A802	A (NO)	5A, 250VAC, cosφ=1, 105°C	100x10 ³
UL 508			
V23061-A1***-A302	A (NO)	TV4, Tungsten, 120VAC, 40°C	25x10 ³
V23061-A1***-A302	A (NO)	Pilot duty, A300, 40°C	6x10 ³
V23061-C2***-A802	A (NO)	10A, 240VAC,	
		general purpose ,40°C	30x10 ³
EN60730-1			
V23061-A1***-A302	A (NO)	2(2)A, 250VAC, 85°C	100x10 ³
V23061-C2***-A802	A (NO)	4(4)A, 250VAC, 85°C	100x10 ³

Mechanical endurance, DC coil





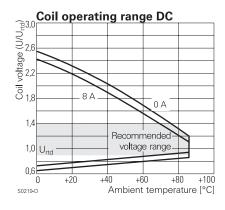


Coil Data		
Coil voltage range	3 to 60VDC	
Operative range, IEC 61810	2	
Coil insulation system according UL	classA or classF	

		0.00			
Coil vers	sions, DC co	il			
Coil	Rated	Operate	Release	Coil	Rated coil
code	voltage	voltage	voltage	resistance	power
	VDC	VDC	VDC	$\Omega \pm 10\%^{1)}$	mW
001	3	2.1	0.3	40	225
002	5	3.4	0.5	118	212
003	6	4.1	0.6	165	218
004	9	6.1	0.9	364	223
005	12	8.2	1.2	652	221
007	24	16.3	2.4	2270	254
009	48	32.6	4.8	8790	262
010	00	40.0	0.0	1 FOOF1)	000

1) Coil resistance ±15%

All figures are given for coil without pre-energization, at ambient temperature $+23^{\circ}$ C. Other coil voltages on request.



Insulation Data		
Initial dielectric strength		
between open contacts	1000V _{ms}	
between contact and coil	4000V	
Clearance/creepage		
between contact and coil	≥8/8mm	
Material group of insulation parts	IIIa	



Miniature Power PCB Relay MSR V23061 (Continued)

Other Data

Packaging/unit

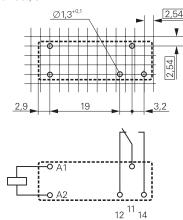
Material compliance: EU RoHS/ELV, China RoHS, REACH, Halogen content refer to the Product Compliance Support Center at www.te.com/customersupport/rohssupportcenter

www.te.com/customersupport/rohssupportcenter Ambient temperature 40 to +85°C Category of environmental protection IEC 61810 RTII - flux proof, RTIII - wash tight Vibration resistance (functional) form A (NO) / form B (NC) 10/4g Vibration resistance (destructive) 20/5g form A (NO) / form B (NC) Shock resistance (destructive) 100g Terminal type PCB-THT Weight 11g Resistance to soldering heat THT RTII: 270°C/10s IEC 60068-2-20 RTIII: 260°C/5s

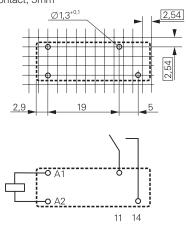
tube/20 pcs., box/500 pcs.

PCB layout / terminal assignment

1 form C, 1 CO contact, 3.2mm

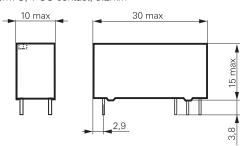


1 form A, 1 NO contact, 5mm

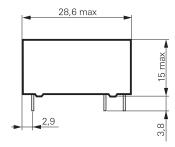


Dimensions

1 form C, 1 CO contact, 3.2mm

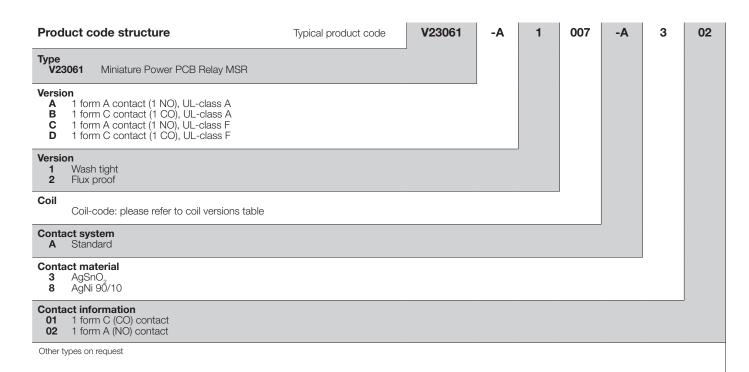


1 form A, 1 NO contact, 5mm





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Product code	Version	Contacts	Contact material	Coil	Part Number
V23061-A1002-A302	Wash tight	1 form A	AgSnO ₂	5VDC	1393222-4
V23061-A1003-A302		1 NO contact	_	6VDC	1393222-9
V23061-A1005-A302				12VDC	2-1393222-0
V23061-A1007-A302				24VDC	3-1393222-9
V23061-A1009-A302				48VDC	1-1416200-0
V23061-B1002-A301		1 form C		5VDC	7-1393222-2
V23061-B1005-A301		1 CO contact		12VDC	9-1393222-1
V23061-B1007-A301				24VDC	1-1393223-7
V23061-B1009-A301				48VDC	3-1393223-7
V23061-C2001-A802	Flux proof	1 form A	AgNi 90/10	3VDC	5-1416200-3
V23061-C2002-A802		1 NO contact		5VDC	5-1416200-4
V23061-C2003-A802				6VDC	5-1416200-5
V23061-C2004-A802				9VDC	5-1416200-6
V23061-C2005-A802				12VDC	5-1416200-0
V23061-C2007-A802				24VDC	5-1416200-8
V23061-C2009-A802				48VDC	6-1416200-0
V23061-C2010-A802				60VDC	6-1416200-1
V23061-D2001-A801		1 form C		3VDC	6-1416200-2
V23061-D2002-A801		1 CO contact		5VDC	6-1416200-3
V23061-D2003-A801				6VDC	6-1416200-4
V23061-D2004-A801				9VDC	6-1416200-5
V23061-D2005-A801				12VDC	6-1416200-6
V23061-D2007-A801				24VDC	6-1416200-7
V23061-D2009-A801				48VDC	6-1416200-9
V23061-D2010-A801				60VDC	7-1416200-0

the 'Definitions' section, available at

http://relays.te.com/definitions

Mouser Electronics

Authorized Distributor

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TE Connectivity: