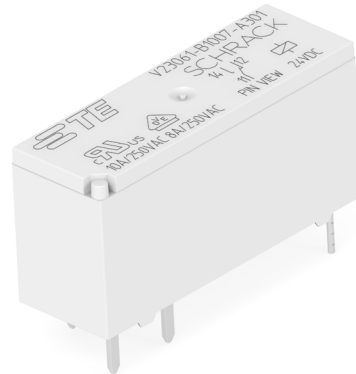


GENERAL PURPOSE LOW POWER PCB RELAYS

- 1 pole 8/10A, I form 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)



- HVAC
- Interface technology
- PLC's
- Power supplies
- TV-/monitor control
- Domestic appliances
- Hi-Fi products
- Timers

- VDE Cert. No. 40017849
- UL E214025



Technical data of approved types on request.

SCHRACK Miniature Power PCB Relay MSR V23061

General Purpose Low Power PCB Relays

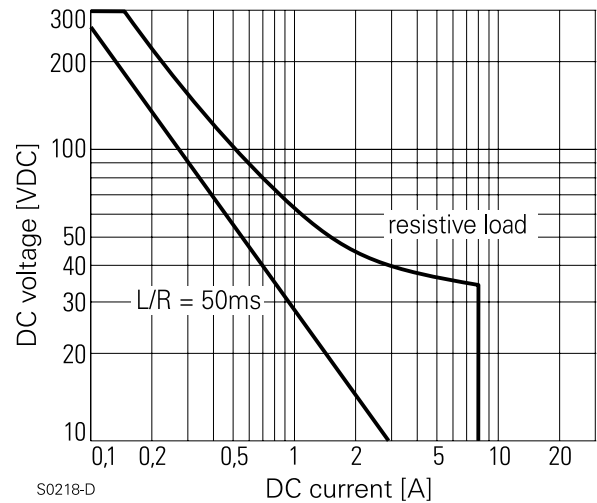
CONTACT DATA

Contact arrangement	1 form C (CO) or 1 form A (NO)
Rated voltage	250 VAC
Max. switching voltage	400 VAC
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

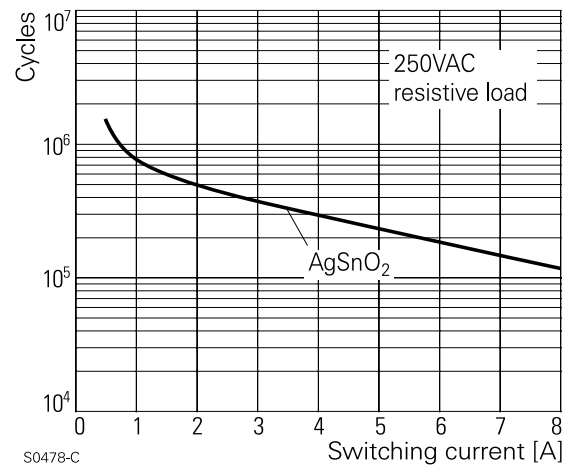
CONTACT RATINGS

Type	Contact	Load	Cycles
EC 61810			
V23061-A1***-A302	A (NO)	8A, 250VAC, $\cos\phi=1$, 85°C	100x10 ³
V23061-C2***-A802	A (NO)	10A, 250VAC, $\cos\phi=1$, 85°C	100x10 ³
V23061-C2***-A802	A (NO)	5A, 250VAC, $\cos\phi=1$, 105°C	100x10 ³
UL61810-1 (UL 508)			
V23061-A1***-A302	A (NO)	TV4, Tungsten, 120VAC, 40°C	25x10 ³
V23061-A1***-A302	A (NO)	Pilot duty, A300, 40°C 10A, 240VAC,	6x10 ³
V23061-C2***-A802	A (NO)	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

MAX. DC LOAD BREAKING CAPACITY



ELECTRICAL ENDURANCE



SCHRACK Miniature Power PCB Relay MSR V23061

General Purpose Low Power PCB Relays

COIL DATA

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

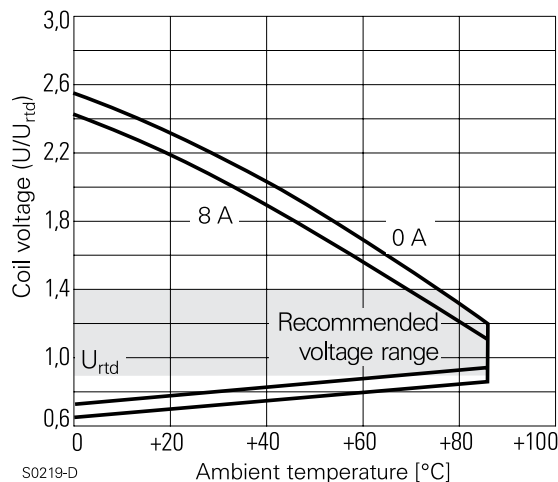
COIL VERSIONS, DC-COIL

Coil code	Rated voltage VDC	Operate voltage VDC	Release voltage VDC	Coil resistance $\Omega \pm 10\%^{1)}$	Rated coil power 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	60	40.8	6.0	15265 ¹⁾	236

1) Coil resistance $\pm 15\%$.

All figures are given for coil without pre-energization, at ambient temperature +23°C. Other coil voltages on request.

COIL OPERATING RANGE DC



INSULATION DATA

Initial dielectric strength	
Between open contacts	1000 Vrms
Between contact and coil	4000 Vrms
Clearance/creepage	
Between contact and coil	$\geq 8/8\text{mm}$
Material group of insulation parts	IIIa

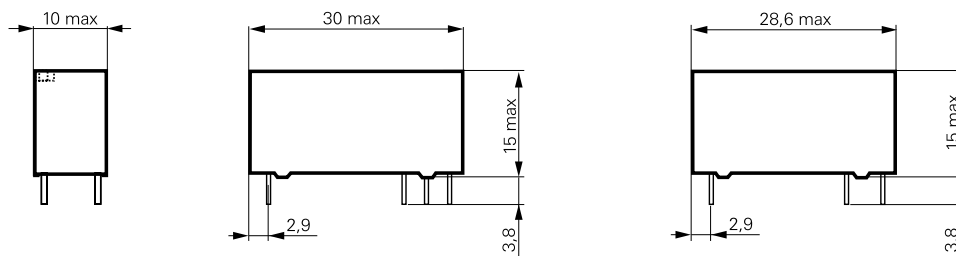
OTHER DATA

Material compliance	EU RoHS/ELV, China RoHS, REACH, Halogen content refer to the Product Compliance Support Center at www.te.com/customer-support/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),	
form A (NO) / form B (NC)	20/5g
Shock resistance (destructive)	100 g
Terminal type	PCB-THT
Weight	11 g
Resistance to soldering heat THT	
IEC 60068-2-20	RTII: 270°C/10s RTIII: 260°C/5s
Packaging/unit	tube/20 pcs., box/500 pcs.

SCHRACK Miniature Power PCB Relay MSR V23061

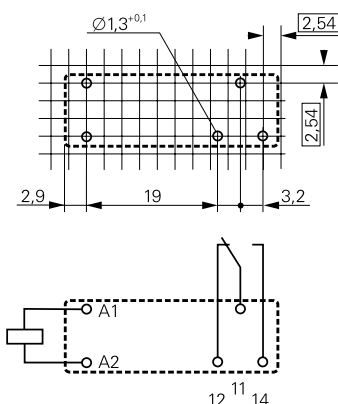
General Purpose Low Power PCB Relays

DIMENSIONS (Unit: mm)

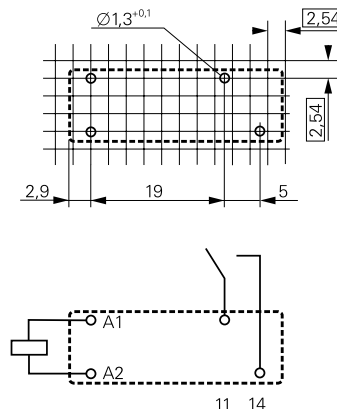


PCB LAYOUT / TERMINAL ASSIGNMENT

1 form C, 1 CO contact, 3.2 mm



1 form A, 1 NO contact, 5 mm



ORDERING INFORMATION

Part Number
V23061 -A 1 007 -A 3 02

Type

V23061 Miniature Power PCB Relay MSR

Version

A	1 form A contact (1 NO), UL-class A
B	1 form C contact (1 CO), UL-class A
C	1 form A contact (1 NO), UL-class F
D	1 form C contact (1 CO), UL-class F

Version

1	Wash tight
2	Flux proof

Coil

Coil-code	please refer to coil versions table
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Contact information

01	1 form C (CO) contact
02	1 form A (NO) contact

Other types on request

Contact material

3	AgSnO ₂
8	AgNi 90/10

Contact system

A	Standard
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PRODUCT INFORMATION

Product code	Version	Contact	Contact material	Coil	Part Number
V23061-A1002-A302	Wash tight	1 form A 1 NO contact	AgSnO ₂	5VDC	1393222-4
V23061-A1003-A302				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 1 CO contact		5VDC	7-1393222-2
V23061-B1005-A301				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 1 NO contact
V23061-C2002-A802	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 1 CO contact	3VDC	6-1416200-2		
V23061-D2002-A801		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		

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