Miniature Power PCB Relay MSR V23061

- **1 pole 8/10A, 1form C (CO) or 1 form A (NO) contact**
- **High inrush currents with $AgSnO_2$ 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

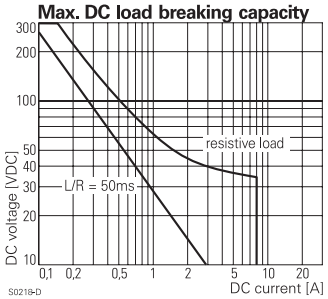
Contact arrangement	1 form C (CO) or 1 form A (NO)
Rated voltage	250VAC
Max. switching voltage	400VAC
Rated current	
versions A,B	8A
versions C, D	10A
Limiting making current, max 4s, df 10%	15A
version A302, max 20ms	65A
Breaking capacity max.	2000VA
Contact material	$AgSnO_2$, AgNi90/10
Frequency of operation, with/without load	6/1200min-1
Operate/release time max.	10/5ms
Bounce time max., form A/form B	3/10ms

Contact ratings

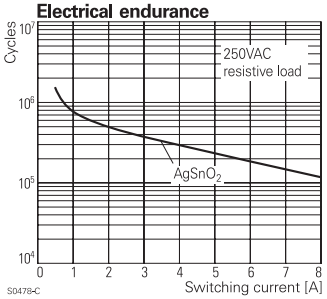
Type	Contact	Load	Cycles
IEC 61810			
V23061-A1***-A302	A (NO)	8A, 250VAC, cosφ=1, 85°C	$100x10^3$
V23061-C2***-A802	A (NO)	10A, 250VAC, cosφ=1, 85°C	$100x10^3$
V23061-C2***-A802	A (NO)	5A, 250VAC, cosφ=1, 105°C	$100x10^3$
UL 508			
V23061-A1***-A302	A (NO)	TV4, Tungsten, 120VAC, 40°C	$25x10^3$
V23061-A1***-A302	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 10x10⁶ operations

Max. DC load breaking capacity



Electrical endurance



Coil Data

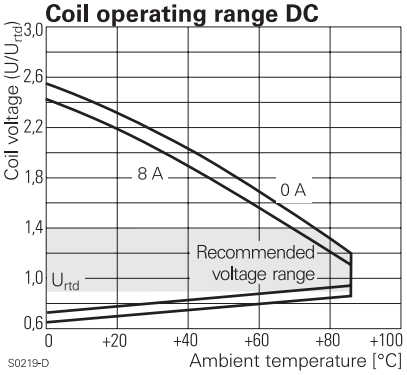
Coil voltage range	3 to 60VDC
Operative range, IEC 61810	2
Coil insulation system according UL	classA or classF

Coil versions, DC coil

Coil code	Rated voltage VDC	Operate voltage VDC	Release voltage VDC	Coil resistance Ω±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 ±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	$1000V_{rms}$
between contact and coil	$4000V_{rms}$
Clearance/creepage	
between contact and coil	≥8/8mm
Material group of insulation parts	IIIa

10-2014, Rev. 1014
www.te.com
© 2014 Tyco Electronics Corporation,
a TE Connectivity Ltd. company.

Catalog and product specification according to IEC 61810-1 and to be used only together with the 'Definitions' section.

Catalog and product data is subject to the terms of the disclaimer and all chapters of the 'Definitions' section, available at http://relays.te.com/definitions

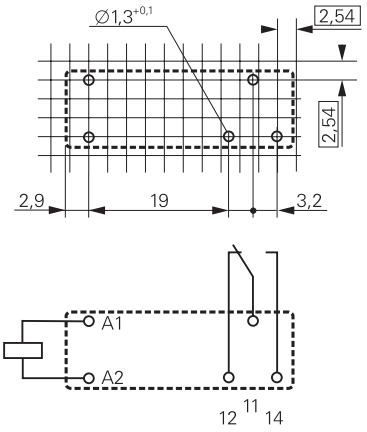
Catalog product data, 'Definitions' section, application notes and all specifications are subject to change.

Miniature Power PCB Relay MSR V23061 (Continued)

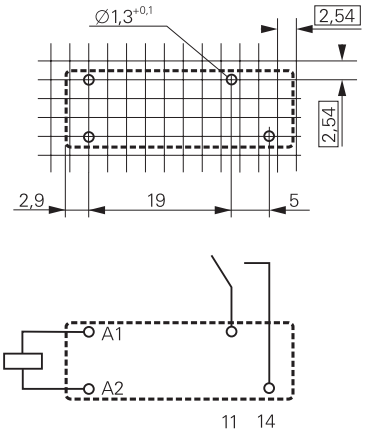
Other Data	
Material compliance: EU RoHS/ELV, China RoHS, REACH, Halogen content refer to the Product Compliance Support Center at www.te.com/customersupport/rohssupportcenter	
Ambient temperature	- 40 to +85°C
Category of environmental protection IEC 61810	RTII - flux proof, RTIII - wash tight
Vibration resistance (functional) form A (NO) / form B (NC)	10/4g
Vibration resistance (destructive) form A (NO) / form B (NC)	20/5g
Shock resistance (destructive)	100g
Terminal type	PCB-THT
Weight	11g
Resistance to soldering heat THT IEC 60068-2-20	RTII: 270°C/10s RTIII: 260°C/5s
Packaging/unit	tube/20 pcs., box/1000 pcs.

PCB layout / terminal assignment

1 form C, 1 CO contact, 3.2mm

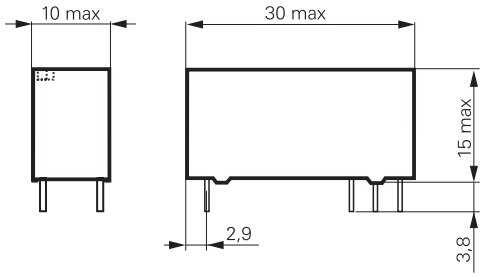


1 form A, 1 NO contact, 5mm

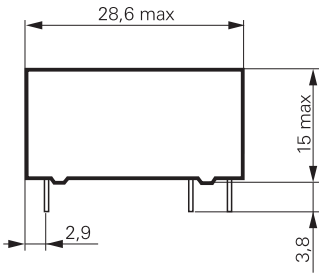


Dimensions

1 form C, 1 CO contact, 3.2mm



1 form A, 1 NO contact, 5mm



10-2014, Rev. 1014
www.te.com
© 2014 Tyco Electronics Corporation,
a TE Connectivity Ltd. company.

Catalog and product specification according to IEC 61810-1 and to be used only together with the 'Definitions' section.

Catalog and product data is subject to the terms of the disclaimer and all chapters of the 'Definitions' section, available at http://relays.te.com/definitions

Catalog product data, 'Definitions' section, application notes and all specifications are subject to change.

Miniature Power PCB Relay MSR V23061 (Continued)

Product code structure Typical product code **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

Contact system
A Standard

Contact material
3 $AgSnO_2$
8 AgNi 90/10

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

Other types on request

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-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

10-2014, Rev. 1014
www.te.com
© 2014 Tyco Electronics Corporation,
a TE Connectivity Ltd. company.

Catalog and product specification according to IEC 61810-1 and to be used only together with the 'Definitions' section.

Catalog and product data is subject to the terms of the disclaimer and all chapters of the 'Definitions' section, available at http://relays.te.com/definitions

Catalog product data, 'Definitions' section, application notes and all specifications are subject to change.

Unikeyic Electronics

Global Electronic Components Distributor

Click to view pricing, inventory, delivery, and lifecycle information:

TE Connectivity:

36161 917790-2 2377783-2 917696-1 CRGCQ2010J3K3 SMV3W5M6JT SMW73R0JT 650075-000
936348-1 1-794222-0 1488167-1 292230-8 3-1393225-0 1MM-HU-D10-VS-00-F-TBP 2-520103-2
3430B2F51RTDF 640174-1 2834055-1 35402K7FT CRGCQ0805F150R 1743455-2 1969656-1 2-292161-3
281990-2 1-1743284-2 1393431-1 141991-2 2-32562-2 2-520128-2 352116RFT