

D2n* Relay V23105

- Standard DIL relay
- Dimensions 20x10x11mm (.795x.394x.433")
- Switching and continous current 3A
- 2 form C contacts (2 CO, 2 changeover contacts)
- **■** Immersion cleanable
- Four different coil sensitivities, 150mW, 200mW, 400mW, >500mW
- Surge voltage resistance meets FCC Part 68 requirement: 1.5kV (10/700µs) between coil and contacts

Typical applications

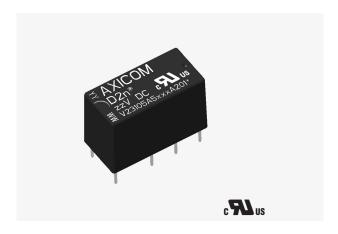
Communications equipment, office equipment, measurement and control equipment, entertainment electronics, medical equipment, consumer electronics.

Approvals
UL 508; UL/CSA 60950-1 File No. E 111441
Technical data of approved types on request

Contact Data	
Contact arrangement	2 form C (CO)
Max. switching voltage	220VDC, 250VAC
Rated current	3A
Limiting continuous current, 85°C	3A
Contact material	AgNi, gold-covered
Min. recommended contact load	10mA at 20mV
Minimum switching voltage	100μV
Initial contact resistance	<100mΩ at 10mA, 20mV
Frequency of operation without load	max. 50 operations/s
Operate / release time max.	6ms/4ms
Bounce time max.	5 ms
Electrical endurance	
at 230VAC/0.5A	typ. 3x10 ⁵ operations
at 6VDC/0.1A	typ. 2x10 ⁶ operations
at 30VDC/1A	typ. 5x10 ⁵ operations
at 30VDC/2A	typ. 1x10 ⁵ operations
UL contact ratings	60 VDC, 0.3 A
	30 VDC, 1 A
	24 VDC, 1.25 A

42.4 V peak, 50/60 Hz, 0.5 A 42.4 V peak, 50/60 Hz, 1 A (2 NO/NC contacts provided)

Mec	hanic	al endur	ance						t	Уŗ	o <u>.</u> 15x	10 ⁶ (peratio	ns	
	Max. DC load breaking capacity														
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Coil Data	
Magnetic system	neutral
Coil voltage range	3 to 48VDC
Max. coil temperature	85 °C
Thermal resistance	< 85K/W

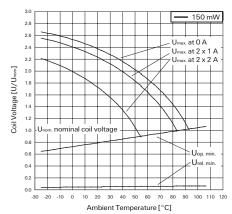
Coil vers	sions, mor	nostable				
Coil	Rated	Operate	Limiting	Release	Coil	Rated coil
code	voltage	voltage	Voltage	voltage	resistance	power
	VDC	VDC _{min.}	VDC _{max.}	VDC _{min.}	Ω±10%	mW
150mW	coil powe	r				
001	5	4.0	11.7	0.25	167	150
002	6	4.8	14.0	0.30	240	150
006	9	7.2	21.0	0.45	540	150
003	12	9.6	28.0	0.60	960	150
005	24	19.2	56.0	1.20	3840	150
200mW	coil powe	r				
308	3	2.1	6.1	0.15	45	200
301	5	3.5	10.1	0.25	125	200
302	6	4.2	12.2	0.30	180	200
306	9	6.3	18.2	0.45	405	200
303	12	8.4	24.3	0.60	720	200
305	24	16.8	48.6	1.20	2880	200
307	48	33.6	97.2	2.40	11520	200
400mW	coil powe	r				
401	5	3.5	7.2	0.25	62	400
402	6	4.2	8.6	0.30	90	400
406	9	6.3	12.9	0.42	203	400
403	12	8.4	17.2	0.60	360	400
405	24	16.8	34.3	1.20	1440	400
407	48	33.6	68.6	2.40	5760	400
>500mV	V coil pow	er				
501	5	3.5	6.1	0.25	36	695
502	6	4.2	7.3	0.30	70	515
506	9	6.3	10.9	0.45	140	580
503	12	8.4	14.5	0.60	280	515
505	24	16.8	29.1	1.20	1050	550
507	48	33.6	58.1	2.40	4000	575

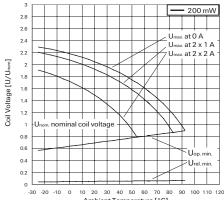
All figures are given for coil without pre-energization, at ambient temperature +23°C. Other coil voltages on request.

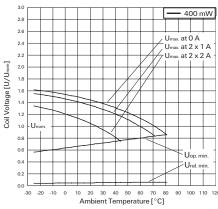


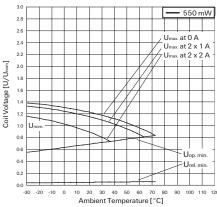
D2n* Relay V23105 (Continued)

Coil Data (continued)









Coil Data (continued)

Coil operative range graphs

between contact and coil

between adjacent contacts

Unom Nominal coil voltage

Upper limit of the operative range of the coil voltage (limiting voltage) when coils are continously energized U_{max}

Lower limit of the operative range of U_{op. min.}

the coil voltage (reliable operate voltage) Lower limit of the operative range of

the coil voltage (reliable release voltage)

Insulation Data		
Initial dielectric strength		
between open contacts	$750V_{rms}$	
between contact and coil	$1250V_{rms}$	
between adjacent contacts	750V _{rms}	
Initial surge withstand voltage		
between open contacts	1050V	
between contact and coil	1750V	
between adjacent contacts	1050V	
Initial insulation resistance at 500 VDC	$> 10^{9}\Omega$	
Capacitance		
between open contacts	max. 2pF	

max. 4pF

max. 2 pF

RF Data		
Isolation at 100MHz/900MHz	-39.0dB/-20.7dB	
Insertion loss at 100MHz/900MHz	-0.02dB/-0.27dB	
Voltage standing wave ratio (VSWR)		
at 100MHz/900MHz	1.04/1.40	
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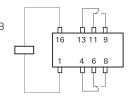
Other Data

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	RT III -wash tight
Vibration resistance (functional)	10g, 10 to 55Hz
Shock resistance (functional)	
IEC 60068-2-27 (half sine)	10g
Shock resistance (destructive)	50g
Terminal type	PCB-THT
Weight	max. 6g
Resistance to soldering heat THT	
IEC 60068-2-20	265°C/10s
Ultrasonic cleaning	not recommended
Packaging unit	1000 pcs.

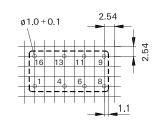
Terminal assignment

TOP view on component side of PCB



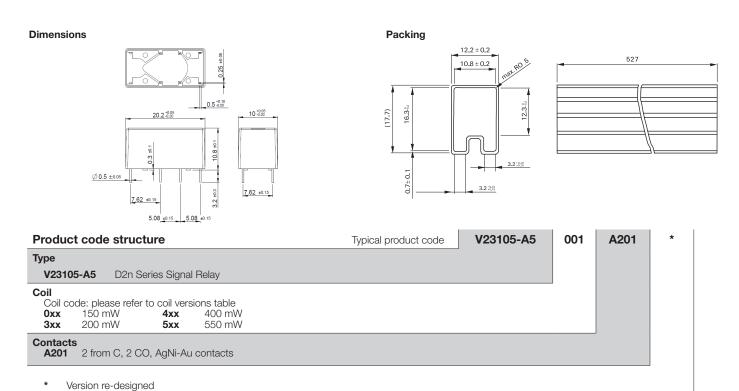
PCB layout

TOP view on component side of PCB





D2n* Relay V23105 (Continued)



Product code	Version	Coil power	Coil voltage	Part Number
V23105A5001A201*	AgNi+Au	150mW	5VDC	8-1393792-5
V23105A5002A201*	contacts		6VDC	8-1393792-7
V23105A5006A201*			9VDC	9-1393792-1
V23105A5003A201*			12VDC	8-1393792-8
V23105A5005A201*			24VDC	9-1393792-0
V23105A5308A201*		200mW	3VDC	1393793-5
V23105A5301A201*			5VDC	9-1393792-3
V23105A5302A201*			6VDC	9-1393792-5
V23105A5306A201*			9VDC	1393793-2
V23105A5303A201*			12VDC	9-1393792-7
V23105A5305A201*			24VDC	9-1393792-9
V23105A5307A201*			48VDC	1393793-3
V23105A5401A201*		400mW	5VDC	1393793-6
V23105A5402A201*			6VDC	1393793-7
V23105A5406A201*			9VDC	1-1393793-0
V23105A5403A201*			12VDC	1393793-8
V23105A5405A201*			24VDC	1393793-9
V23105A5407A201*			48VDC	1-1393793-1
V23105A5501A201*		>500mW	5VDC	1-1393793-6
V23105A5502A201*			6VDC	1-1393793-8
V23105A5506A201*			9VDC	2-1393793-3
V23105A5503A201*			12VDC	1-1393793-9
V23105A5505A201*			24VDC	2-1393793-1
V23105A5507A201*			48VDC	2-1393793-4
V23105A5475A201*		BT 47 type	5VDC	1-1393793-2
V23105A5479A201*		spec T4563C	10VDC	3-1393794-0
V23105A5476A201*		(current tested)	12VDC	1-1393793-3
V23105A5477A201*			24VDC	1-1393793-4
V23105A5478A201*			48VDC	1-1393793-5

单击下面可查看定价,库存,交付和生命周期等信息

>>TE Connectivity(泰科)