Signal Relays

电话:0775-83233025 http://www.szdahao.com

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Axicom

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 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	<100 m Ω at 10 mA, 20 mV
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
Contact ratings, UL	30VDC/1.0A
	100VDC/0.3A
150mW and 200mW coil	125VAC/0.5A
400mW and 500mW coil	125VAC/1.0A
Mechanical endurance	typ. 15x10 ⁶ operations

Coil Data	
Magnetic system	neutral
Coil voltage range	3 to 48VDC
Max. coil temperature	85 °C
Thermal resistance	< 85K/W

Coil ver	Coil versions, monostable						
Coil	Rated	Operate	Limiting	Release	Coil	Rated coil	
code	voltage	voltage	Voltage	voltage	resistance	power	
	VDC	VDC	VDC	VDC	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	
	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						
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.

	Max. DC load breaking capacity													
	300 250								I	1				
	200					\perp			4	4				
	150													
$\overline{}$	100													
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DC Voltage [Vdc]	80								Z	Ť				
ge	60				\geq				1	7				
Ita	50					\vdash	\vdash	_	+	+				\vdash
9	40							/	+	+				
$\overline{\circ}$	30								\rightarrow	1				
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	20								\forall	+			60	
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	10											1		
	10					_	_	_	_	_	 _			
	C	0,1 0	.2 0	,5 0	,4 0							2 :	3 4	4 5
	DC current [A]													

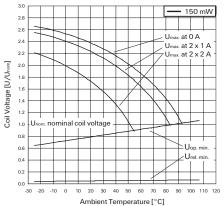
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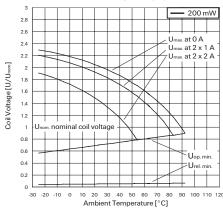
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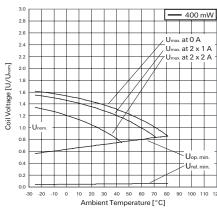
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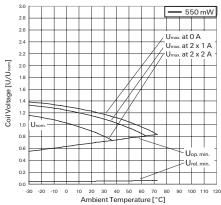
D2n Relay V23105 (Continued)

Coil Data (continued)









Coil Data (continued)

Coil operative range graphs

U_{nom} Nominal coil voltage

U_{max} Upper limit of the operative range of the coil voltage (limiting

voltage) when coils are continously energized

U_{op. min.} Lower limit of the operative range of the coil voltage (reliable operate voltage)

J_{rel. min.} 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	1050V _{rms}	
between adjacent contacts	750V _{rms}	
Initial surge withstand voltage		
between open contacts	1500V	
between contact and coil	1500V	
between adjacent contacts	1500V	
Initial insulation resistance at 500 VDC	$> 10^{9}\Omega$	
Capacitance		
between open contacts	max. 2pF	
between contact and coil	max. 4pF	
between adjacent contacts	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	

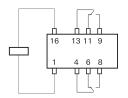
Other Data

Material compliance: EU RoHS/ELV, China RoHS, REACH, Halogen content refer to the Product Compliance Support Center at

Ambient temperature Category of environmental protection	-40 to +85°C
IEC 61810	RT III - immersion cleanable
Degree of protection, IEC 60529	IP 67
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.

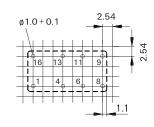
Terminal assignment

TOP view on component side of PCB



PCB layout

TOP view on component side of PCB



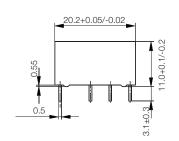


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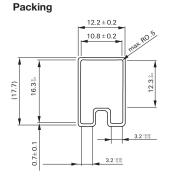
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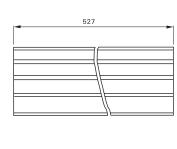
D2n Relay V23105 (Continued)

Dimensions









Product code structure

Typical product code

V23105-A5

A201

001

Туре

V23105-A5

D2n Series Signal Relay

Coil

Coil code: please refer to coil versions table

Coil power

0xxx 150 mW **4xxx** 400 mW **3xxx** 300 mW **5xxx** 550 mW

Contacts

A201 2 form C, 2 CO, AgNi+Au contacts

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

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P1 Relay V23026

- Directly triggerable with TTL standard modules as ALS, HCT & ACT
- Slim line 13.5x7.85mm (0.531x0.309")
- Switching current 1 A
- Bifurcated 1 form C (CO) contact
- **■** Immersion cleanable
- High sensitivity results in low nominal power consumption, 65 to 130mW for monostable and 30 to 150mW for bistable (latching)
- Initial surge withstand voltage 2.5kV (2/10µs) meets the Bellcore Requirement GR-1089 1.5kV (10/160µs) meets FCC Part 68

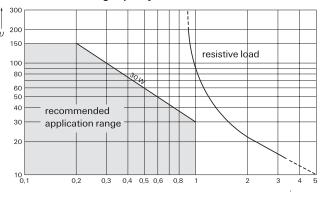
Typical applications

Automotive equipment, CAN bus, imobilizer, office equipment, measurement and control equipment, medical equipment, safety equipment

Approvals	
UL 508 File No. E 111441	
Technical data of approved types on request	

1 form C (CO)
125VDC, 150VAC
1A
1A
see max. DC load breaking capacity
Palladium nickel,
gold-rhodium covered
bifurcated contact
10mA at 20mV
≤50mΩ at 10mA/20mV
200 ops./s
2ms
2ms
3ms
typ. 50x10 ⁶ operations
typ. 10x10 ⁶ operations
typ. 10x10 ³ operations
30VDC/1A
65VDC/0.46A
150VAC/0.46A
typ. 10 ⁹ operations

Max. DC load breaking capacity





211 A

Coil Data	
Magnetic system	polarized
Coil voltage range	3 to 24VDC
	other coil voltages on request
Operative range, IEC 61810	see coil operative range
Max. coil temperature	85°C
Thermal resistance	<130K/W

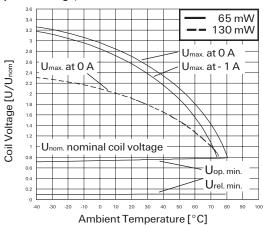
Coil versions, THT, monostable									
Coil	Rated	Operate	Release	Coil	Rated coil				
code	voltage	voltage	voltage	resistance	power				
	VDC	VDC	VDC	Ω ±10%	mW				
006	3	2.25	0.3	137	66				
001	5	3.75	0.5	370	68				
005	9	6.75	0.9	1165	70				
002	12	9.00	1.2	2250	34				
004	24	18.00	2.4	4500	128				

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

Coil versions, SMT, monostable									
Coil	Rated	Operate	Release	Coil	Rated coil				
code	voltage	voltage	voltage	resistance	power				
	VDC	VDC	VDC	Ω ±10%	mW				
026	3	2.25	0.3	113	80				
021	5	3.75	0.5	313	80				
025	9	6.75	0.9	1015	80				
022	12	9.00	1.2	1800	80				
024	24	18.00	2.4	4500	128				

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

Coil operative range, monostable DC coil



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