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D2n Relay V23105

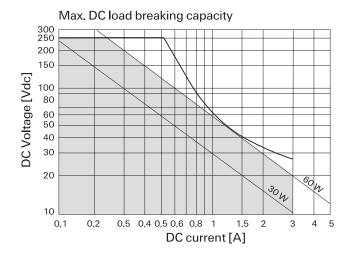
- Standard DIL relay
- Dimensions 20x10x11mm (.795x.394x.433")
- Switching and continous current 3A
- 2 form C contacts (2 CO, 2 changeover contacts)
- **■** Immersion cleanable
- Four different coil sensitivities, 150mW, 200mW, 400mW, >500mW
- Surge voltage resistance meets FCC Part 68 requirement: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

Typical applications

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



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	$<$ 100m Ω 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
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





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

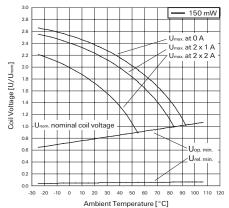
Coil ver	sions, mor	nostable				
Coil	Rated	Operate	Limiting	Release	Coil	Rated coil
code	voltage	voltage	Voltage	voltage	resistance	power
	VDC	VDC _{min.}	VDC _{max.}	VDC _{min.}	Ω±10%	mW
150mW	coil powe	r				
001	5	4.0	11.7	0.25	167	150
002	6	4.8	14.0	0.30	240	150
006	9	7.2	21.0	0.45	540	150
003	12	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
	coil powe					
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
	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

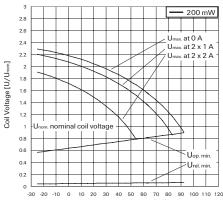
All figures are given for coil without pre-energization, at ambient temperature +23°C. Other coil voltages on request.

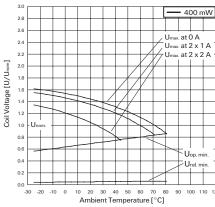


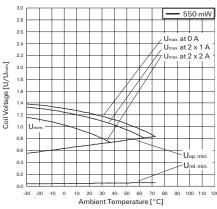
D2n Relay V23105 (Continued)

Coil Data (continued)









Coil Data (continued)

Coil operative range graphs

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)

750V _{rms}	
$1050V_{rms}$	
750V _{rms}	
1500V	
1500V	
1500V	
$> 10^{9}\Omega$	
max. 2pF	
max. 4pF	
max. 2 pF	
	$1050 V_{rms}$ $750 V_{rms}$ $1500 V$ $1500 V$ $1500 V$ $> 10^{9} \Omega$ max. 2pF max. 4pF

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	

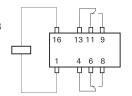
Other Data

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

<u> </u>	- Castorner Support Torresapport Contain
Ambient temperature	-40 to +85°C
Category of environmental protection	
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.

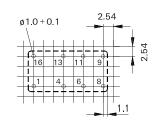
Terminal assignment

TOP view on component side of PCB



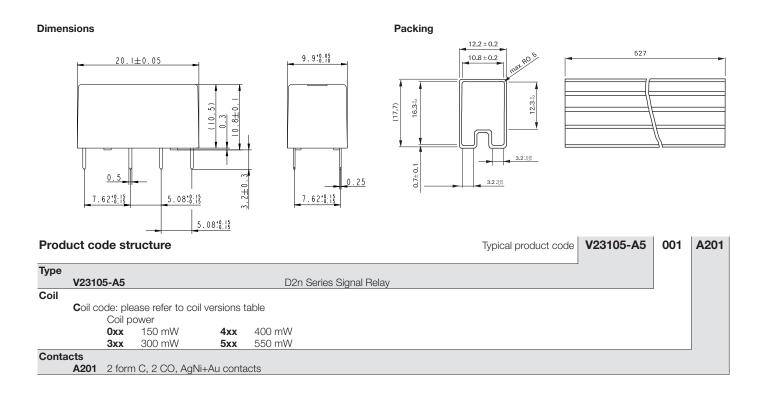
PCB layout

TOP view on component side of PCB





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

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