# **D1** Series

# D Size Form C (Changeover) Relay





The D1 series is a reed relay with

in safety critical applications.

changeover contacts which are often used

The switching is achieved through the use of high vacuum reed switches with Tungsten contacts and make these relays suitable for high reliability applications, such as test equipment and high voltage

These are PCB mount relays, though custom options may be available on

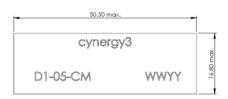
- 100W switching power
- Changeover contacts
- UL Approved
- PCB Mount
- Available with or without magnetic screen



<b>Contact Specification</b>		Unit	Co	ndition		
Switch Action				SPC0		
Contact Material				Tungs	ten	
Isolation across contacts	s kV	DC or AC peak		0.75		
Isolation contact to coil	kV	Dc or AC peak		3		
Switching Power Max.	VA	resistive		100 (a	t 33.3V	dc switching voltage)
Switching Voltage Max.	٧	DC		240 (a	t 20VA	switching power)
Switching Current Max.	Α	DC		3 (at 1	LOOVA sv	witching power and 33Vdc switching voltage)
Carry Current Max	Α	DC		4		
Capacitance across contacts	pF	coil to screen grounded		2.3		
Contact Resistance	mΩ	max (typical)		500		
Insulation Resistance	$\Omega$ m	iin (typical)		$(10^8)$		
Coil Specification			5V	12V	24V	
Must Operate Voltage	٧	DC	3.75	9	18	
Must Release Voltage	٧	DC	0.5	1.2	2.4	
Resistance	Ω(	± 10%)	50	340	900	
	~	coil resistance will chan	ge at a rate of	0.4% per d	legree C. V	alues are stated at room temperature (20 degrees C)
<b>Environmental Conditio</b>	ns					
Operating Temperature Range °C			-40 to +65			
Storage Temperature Range °C			-40 to +100			
Standard Parts			Coil Voltage Vdc			Magnetic Screen

Storage reinperature Kange C	-40 (0 +100		
Standard Parts	Coil Voltage Vdc	Magnetic Screen	
D1-05-C	5	No	
D1-05-CM	5	Yes	
D1-12-C	12	No	
D1-12-CM	12	Yes	
D1-24-C	24	No	
D1-24-CM	24	Yes	

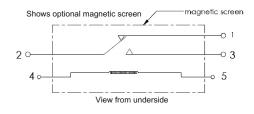
Please refer to this document for circuit design notes:- http://www.cynergy3.com/blog/application-notes-reed-relays-0



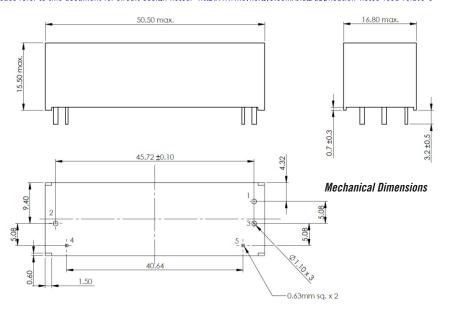
#### Circuit Diagram

power supplies.

request.



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## \*Consult factory for UL ratings

These products have been UL approved for use as per pollution degree 2 classification. If you require further information as to how this may affect product usage, please contact sales@cynergy3.com.



www.cynergy3.com

### ISO9001 CERTIFIED