## **D1** Series

# D Size Form C (Changeover) Relay





- 100W switching power
- Changeover contacts
- UL Approved
- PCB Mount

D1-24-CM

Available with or without magnetic screen



Yes

	Contact Specification		Unit	Con	dition			
	Switch Action				SPC0			
	Contact Material			Tungsten				
	Isolation across contacts	kV	DC or AC peak		0.75			
	Isolation contact to coil	kV	Dc or AC peak		3			
	Switching Power Max.	VA	resistive		100 (at	33.3Vd	c switching voltage)	
	Switching Voltage Max.	٧	DC		240 (at 20VA switching power) 3 (at 100VA switching power and 33Vdc switching voltage)			
	Switching Current Max.	Α	DC					
	Carry Current Max		DC 4					
	Capacitance across	pF	coil to screen		2.3			
	contacts		grounded					
	Contact Resistance	mΩ	max (typical)		500			
	Insulation Resistance	$\Omega$ m	in (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	$\Omega$ (	± 10%)	50	340	900		
	Note. The operate / release voltage and coil resistance will change at a rate of 0.4% per degree C. Values are stated at room temperature (20 degrees C							
Environmental Conditions								
	Operating Temperature Range °C				-40 to	+65		
	Storage Temperature Range °C				-40 to	+100		
	Standard Parts			Coil Volt	age Vdc		Magnetic Screen	
	D1-05-C				5		No	
	D1-05-CM				5		Yes	

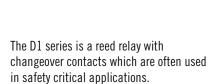
 D1-05-CM
 5
 Yes

 D1-12-C
 12
 No

 D1-12-CM
 12
 Yes

 D1-24-C
 24
 No

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

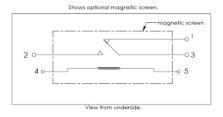


The switching is achieved through the use of high vacuum reed switches with Tungsten contacts and make these relays suitable for high reliability applications, such as test equipment and high voltage power supplies.

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



### Circuit Diagram



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# 50.50 max. 16.80 max.

## \*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