



- General purpose relays
- Up to 50A / 240VAC switching
- Good inrush current resistance
- Flat insert connectors - fast-on 6.35mm
- Flange mount or screw mounting
- PCB Version with optional sealing
- Reduced coil power - PCB models



Contacts

Contact arrangement	DPST-NO, DPST-NC, DPDT, 3PST-NO, 3PST-NC, 3PDT
Contact material	AgSnO ₂
Rated load (resistive, cos φ=1)	DC1 28V: 40A / 50A
	AC1 240V: 40A / 50A ; 440V: 20A (UL = 40A/120VAC)
Min. switching current	10mA
Max. braking capacity	AC1 12000VA
Coil resistance	<100mΩ

Coil

Operating range	AC or DC	12-220VAC / 12... 110VDC See tables 1 & 2
Rated power consumption	AC 50Hz: 4VA / 6VA, DC: 2.0W / 2.5W	

Insulation

Insulation resistance	≥500MΩ at 500VDC	
Dielectric strength	coil to contact	2500Vrms 50/60Hz. 1mA/1min
	contact to contact	1500Vrms 50/60Hz 1mA/1min
	between adjacent contacts	1500Vrms 50/60Hz 1mA/1min
Creepage / Clearance	6.5mm / 5.5mm	

General Data

Operate time	max.	25ms
Release time	max.	15ms
Electrical life	Resistive AC1	>1 x 10 ⁵
Mechanical life		1 x 10 ⁷

Environmental

Ambient temperature	operating	-55 to 70°C
	storage	-55 to 80°C
Vibration resistance	endurance	10 ~ 55Hz, 1.0mm D.A.
Shock resistance	endurance	10G (sinusoidal half wave pulse: 11ms)
	damage	100G
Dimensions	L x W x H	various depending on body style (see Fig 2.)
Weight	max.	130g ...155g depending on type

Ordering Code

D B 3 0 - 3 0 2 3 - 2 6 - 1 0 1 2

Series

Contact material

30: AgSnO₂ (max. 40A only)
50: AgSnO₂ (50A max.)

Coil Code:

See tables 1 & 2
(page 2)

Contact configuration

12: DPDT (2C/O)
13: 3PDT (3C/O)
22: DPST-NO (2N/O)
23: 3PST-NO (3N/O)
32: DPST-NC (2N/C)
33: 3PST-NC (3N/C)
52: DPST-NO 3mm*
53: 3PST-NO 3mm*

* 3mm Contact gap 40A only

Mounting & terminations (IP40)

2: M4 Threaded bush base
3: Sealed (PCB type only - consult factory) - IP67
4: Side mount flanges
5: No mounting (for PCB or plug in sockets)
9: Top mounting flanges

Connection mode

5: PCB (use cover styles 3 & 5 only)
6: 6.35 x 0.8mm "fast-on" blade terminals

