



Features

- Small size, light weight
- Low coil consumption
- Switching capacity up to 20 A
- PC board mounting
- Suitable for household electrical appliances, automations systems, electrical equipment, instrument, meter telecommunication facilities and remote control facilities

Contact Data

Contact Arrangement	1A (SPSTNO) 1C (SPDT(B-M)) 2A (DPSTNO) 2C (DPDT (B-M))
Contact Material	AgNi AgSnO ₂
Contact Rating (resistive)	1A, 1C : 10 A, 16 A / 250 VAC, 30 VDC (rushing current 80A) 2 A, 2 C (0.41 W) : 8 A / 250 VAC, 30 VDC 8A, 10 A / 277 VAC
Max. Switching Power	480 W 5600 VAC 2C : 2 x 150 W 2 x 1800 VA
Max. Switching Voltage	125VDC 440 VAC Max. Switching Current : 20 A
Contact Resistance	≤ 100 mΩ
Operational Life	Electrical 10 ⁵
	Mechanical 10 ⁷

General Purpose Relays	
Part No.:	P12001
Customer:	

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Characteristics

Insulation resistance 1000 MΩ (at 500 VDC) Item 7 of IEC 60255-5

Dielectric Strength

Between contacts 50 Hz 1000 V Item 6 of IEC 60255-5
 Between contact and coil 50 Hz 5000 V Item 6 of IEC 60255-5

Shock resistance 100 m/s² 11 ms IEC 68-2-27 Test Ea
 Vibration resistance 10 ~ 55 Hz double amplitude 1.5 mm IEC 68-2-6 Test Fc
 Terminals strength 10N IEC 68-2-21 Test Ua1
 Solderability 235°C ± 2°C 3 ± 0.5 s IEC 68-2-20 Test Ta
 Ambient Temperature -40°C~ 85°C
 Relative Humidity 85% (at 40°C) IEC 68-2-3 Test Ca
 Mass 11 g ~ 12g

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Coil Parameter

Coil Voltage VDC		Coil resistance $\Omega \pm 10$	Pick up voltage (70% or 60% of rated voltage)	Release voltage (5% or 10% of rated voltage)	Coil Power W	Operate Time ms	Release Time ms
Rated	Max.						
5	6.5	100	3.5	0.5	0.25	≤ 10	≤ 5
6	7.8	144	4.2	0.6			
9	11.7	324	6.3	0.9			
12	15.6	576	8.4	1.2			
24	31.2	2304	16.8	2.4			
48	62.4	9216	33.6	4.8			
60	78.0	12857	42.0	6.0			
5	6.5	61	3.5	0.5	0.41	≤ 10	≤ 5
6	7.8	88	4.2	0.6			
9	11.7	198	6.3	0.9			
12	15.6	351	8.4	1.2			
24	31.2	1405	16.8	2.4			
48	62.4	5620	33.6	4.8			
60	78.0	7500 ± 15%	42	6			
110	143.0	25200 ± 15%	77	11			
5	6.5	34.7	3.5	0.5	0.72	≤ 10	≤ 5
6	7.8	50.0	4.2	0.6			
9	11.7	112.5	6.3	0.9			
12	15.6	200.0	8.4	1.2			
24	31.2	800.0	16.8	2.4			
48	62.4	3200	33.6	4.8			

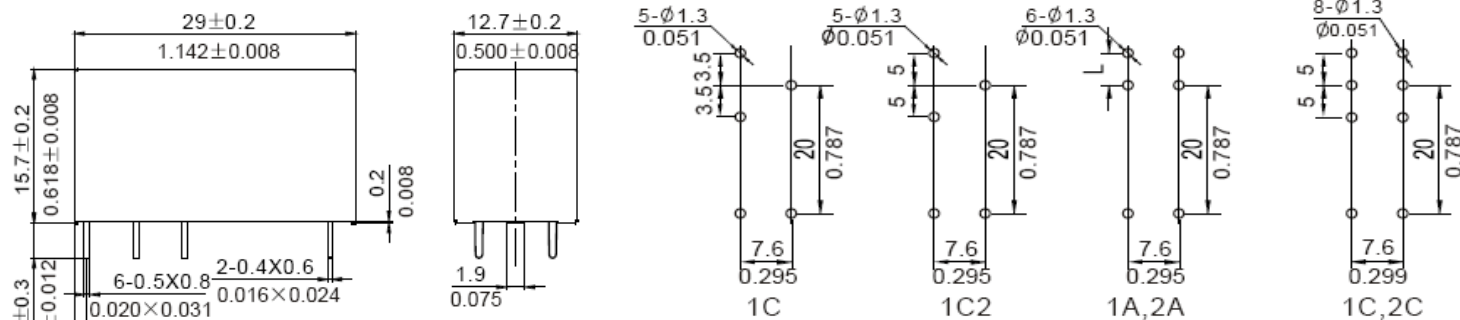
Caution : 1. The use of any coil voltage less then the rated coil voltage will compromise the operation of the relay.
2. Pickup and release voltage are for test purposes only and are not be used design criteria.

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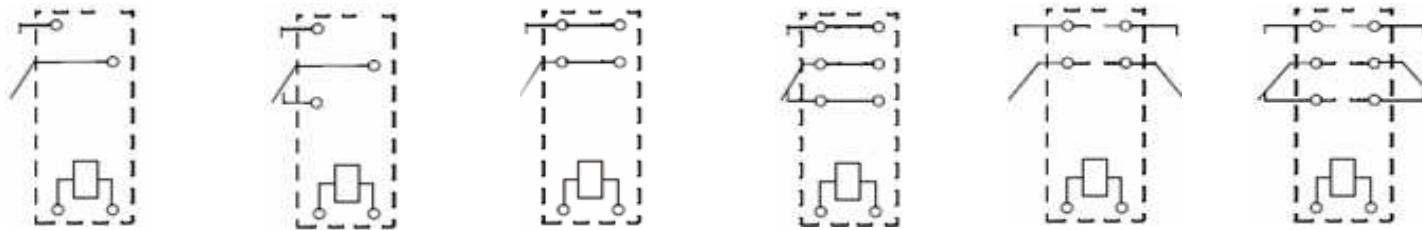
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Technical Drawing



Bottom View Side L : 1 = 3.5 mm or 2 = 5.0 mm



1A (10A)

1C (10A)

1A (16A)

1C (16A)

2A (8A)

2C (8A)

Bottom View Side

General Purpose Relays

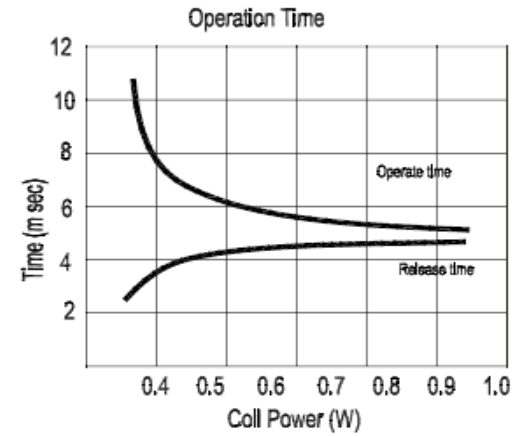
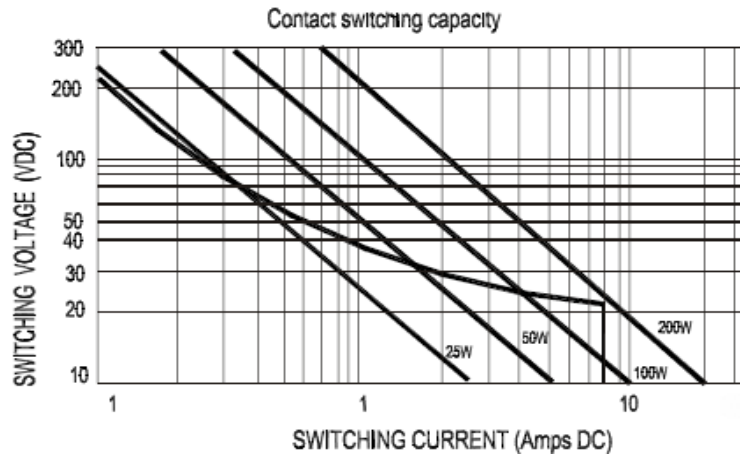
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Reference Data



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Ordering Informations

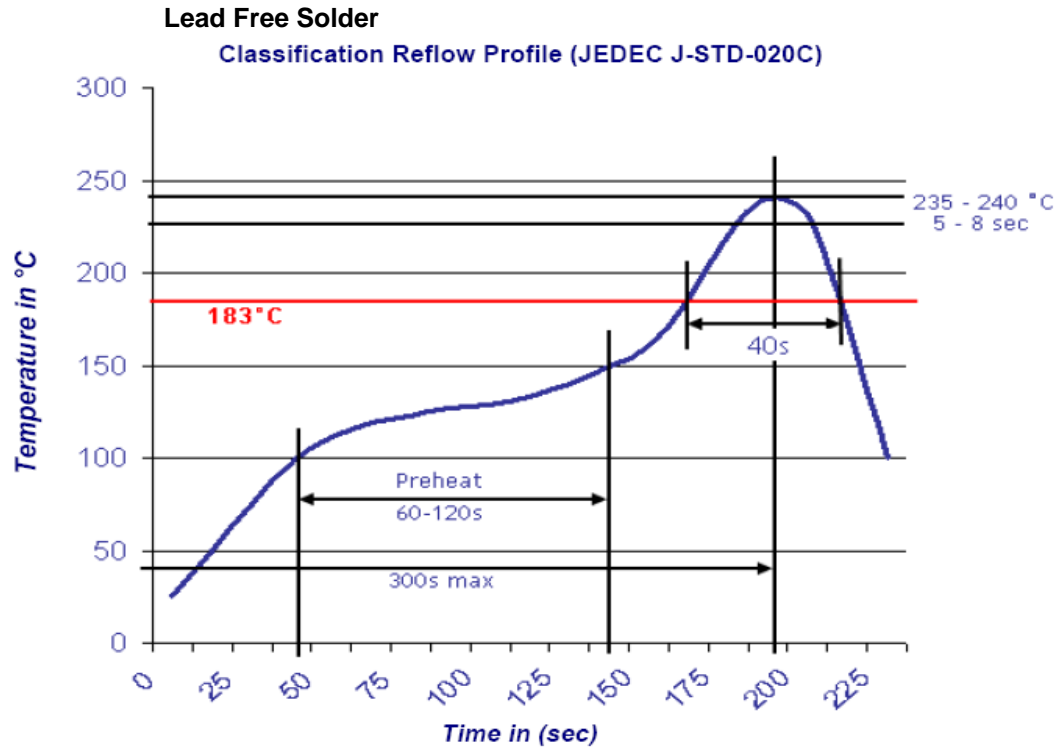
Serie	-	Coil rated voltage	Enclosure	Nominal	Pole-distance	Contact arrangement	Contact rating	Contact Material	RoHS	Packing
P12001	-	005	1	A	1	A	1	A	R	TU
EDCON -Serie	-	005 = 5 V	1 = Sealed Type	A = 0.25 W	1 = 3.5 mm	A = 1A	1 = 1A / 1C (10A)	A = AgNi B = AgSnO ₂	N = non RoHs R = RoHs	TU = Tube Packing TY = Tray Package
		006 = 6 V		B = 0.41 W		B = 1C				
		009 = 9 V	2 = Dust cove	C = 0.72 W	2 = 5.0 mm	C = 2A	2 = 1A / 1C (16A)			
		012 = 12 V				D = 2C				
		024 = 24 V		3 = 2A / 2C (8A)						
		048 = 48 V								
		060 = 60 V								
110 = 110 V										

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Solder Condition



General Purpose Relays

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