

SPECIFICATION

IRQ

SUBMINIATURE POWER RELAY

CONTACT DATA

Contact arrangement	1A	1B	1C
Contact resistance	100mΩ (at 1A 6VDC)		
Contact material	Silver Alloy		
Contact rating (Res. load)	NC: 30A 240VAC NO: 40A 240VAC		
Minimum load	500mA 5VDC		
Max. switching voltage	250VAC / 30VDC		
Max. switching current	30A		
Max. switching power	7200VA / 560W		
Mechanical endurance	1 x 10 ⁷ ops		
Electrical endurance	50,000ops		

CHARACTERISTICS

Insulation resistance		100MΩ (at 500VDC)
Dielectric strength	Between contacts	1500VAC 1min
	Between contact & coil	1500VAC 1min(SPST) 2500VAC 1min(SPDT)
Operate time (at nomi. Volt.)		15ms max.
Release time (at nomi. Volt)		10ms max.
Shock resistance	Functional	10G
	Destructive	100G
Vibration resistance		10Hz to 55Hz 1.5mm DA
Humidity		40% to 85% RH
Ambient temperature		-40°C to 70°C
Max. Switching Frequency	Mechanical	18,000 ops/hr
	Electrical	1,800 ops/hr
Termination		PCB
Unit weight		Approx. 36g
Construction		Wash tight, Flux proofed

COIL

Coil power	930mW
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COIL DATA at 20°C

Nominal Voltage VDC	Pick-up Voltage VDC	Drop-out Voltage VDC	Rated current mA	Coil Resistance Ω
5	3.75	0.5	186	27 x (1±10%)
6	4.5	0.6	155	39 x (1±10%)
9	6.75	0.9	103	87 x (1±10%)
12	9	1.2	77.5	155 x (1±10%)
18	13.5	1.8	52	350 x (1±10%)
24	18	2.4	39	620 x (1±10%)
48	36	4.8	19	2480 x (1±10%)
110	82.5	11	9	13010 x (1±10%)

Notes : 1) The data shown above are initial values.
2) Please find coil temperature curve in the characteristic curves below.

ORDERING INFORMATION

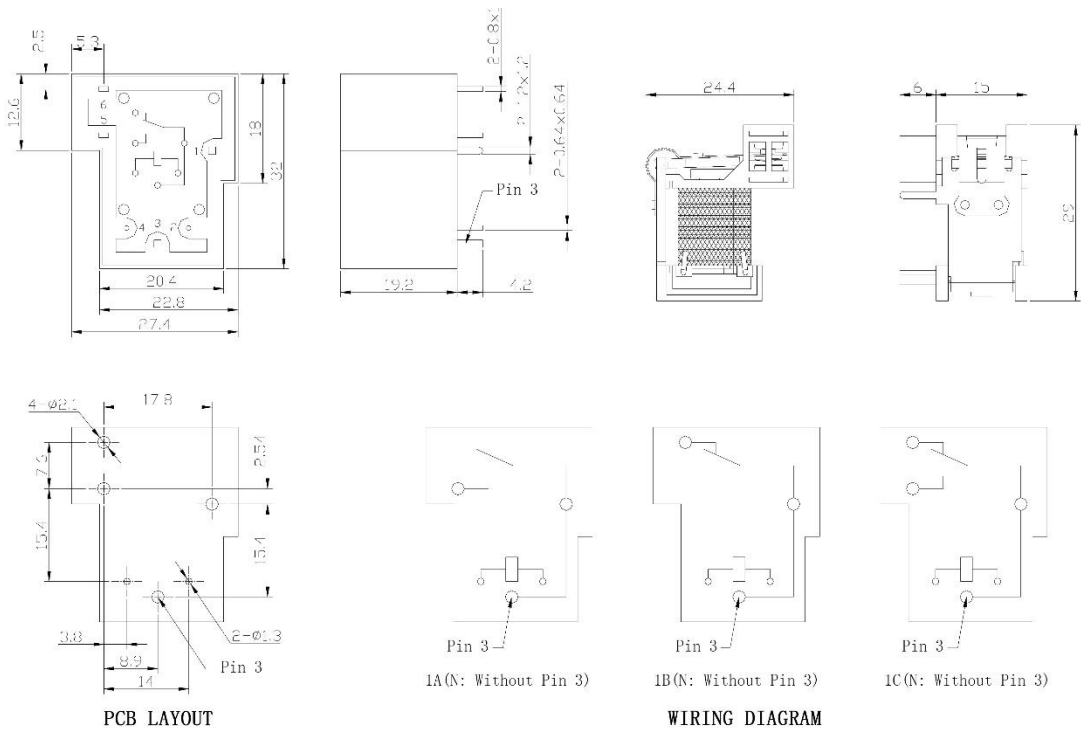
	IRQ	-1A	-D12	S	N	A
Type						
Contact form	1A : 1 Form A, 1B : 1 Form B 1C : 1 Form C					
Coil voltage	5, 6, 9, 12, 18, 24, 48, 110 VDC					
Construction	S : Sealed Type K : Open Type					
Pin	N : with 5 pin dielectric st NT : with 4 pin dielectric st Nil : with 4 pin					
Spring material	NII : Standard A : BECU					

SAFETY APPROVAL RATINGS

UL&CUL	NO : 40A 240VAC NC : 30A 240VAC	5 to 48VDC	
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OUTLINE DIMENSIONS, WIRING DIAGRAM AND PC BOARD LAYOUT

Unit:mm



CHARACTERISTIC CURVES

