

SPECIFICATION

IRC

TELECOM RELAY

CONTACT DATA

Contact arrangement	1A	1C
Contact resistance	100mΩ(at 1A 6VDC)	
Contact material	Silver Alloy	
Contact rating (Res. load)	NO:3A120VAC 3A 24VDC TENSION: >4g	NO:3A120VAC 3A 24VDC TENSION: >4g NC:3A120VAC 3A 24VDC TENSION:≥2.5g
Minimum load	1mA 5VDC	
Max. switching voltage	240VAC/60VDC	
Max. switching current	5A	
Max. switching power	360VA/90W	
Mechanical endurance	1 x 10 ⁷ ops	
Electrical endurance	1 x 10 ⁵ ops	

CHARACTERISTICS DATA

Insulation resistance	100MΩ Min (at 500VDC)	
Dielectric strength	Between coil & contacts	1000VAC 1min
	Between open contacts	500VAC 1min
Operate time (at nomi. Volt.)	5ms.	
Release time (at nomi. Volt)	5ms.	
Shock resistance	Functional	10g
	Destructive	100g
Vibration resistance	10Hz to 55Hz 1.5mm DA	
Humidity	40% to 85% RH	
Ambient temperature	-30°C to 85°C	
Termination	PCB	
Unit weight	Approx. 3.5g	
Construction	Wash tight, Flux proofed	

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

COIL

Coil power	200mW / 360mW
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COIL DATA

at 23°C

(200mW, Only for 1 Form A)

Nominal Voltage VDC	Pick-up Voltage VDC	Drop-out Voltage VDC	Max. Allowable Voltage VDC	Coil Resistance Ω
3	2.25	0.3	3.9	45 x (1±10%)
5	3.75	0.5	6.5	125 x (1±10%)
6	4.50	0.60	7.8	180 x (1±10%)
9	6.75	0.9	13.5	400 x (1±10%)
12	9.00	1.2	15.6	720 x (1±10%)
24	18.0	2.4	31.2	2800 x (1±10%)

(360mW)

Nominal Voltage VDC	Pick-up Voltage VDC	Drop-out Voltage VDC	Max. Allowable Voltage VDC	Coil Resistance Ω
3	2.25	0.3	3.9	25 x (1±10%)
5	3.75	0.5	6.5	70 x (1±10%)
6	4.50	0.6	7.8	100 x (1±10%)
9	6.75	0.9	11.7	220 x (1±10%)
12	9.00	1.2	15.6	400 x (1±10%)
24	18	2.4	31.2	1600 x (1±10%)
48	36	4.8	62.4	5650 x (1±15%)

ORDERING INFORMATION

Type	IRC	-1A	-D12	S	L
Contact form	1A : 1 Form A 1C : 1 Form C				
Coil voltage	3, 5, 6, 9, 12, 24, 48 VDC				
Construction	S : Sealed type				
Coil power	L : 0.36W Nil : 0.2W				

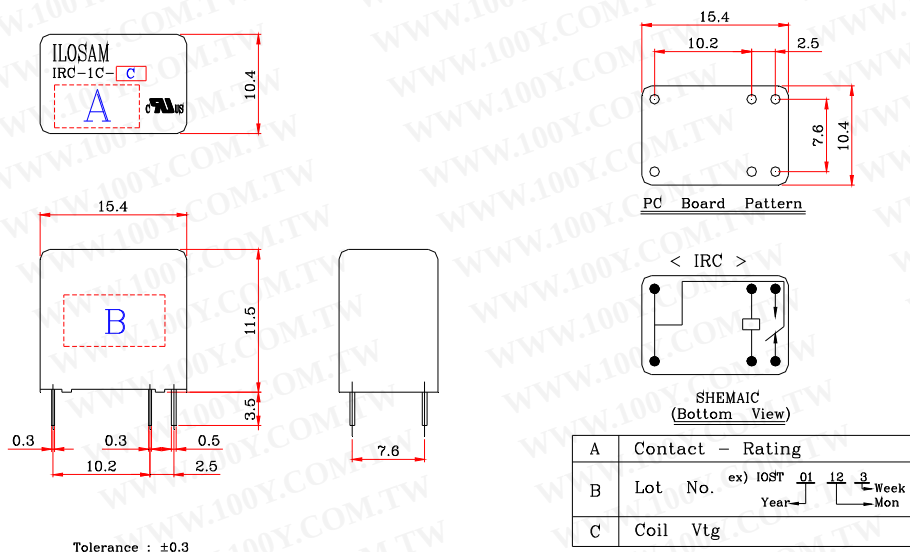
SAFETY APPROVAL RATINGS

UL&CUL	3A 120VAC/24VDC	Life-Cycle:6000	MAX 70°
TUV	3A 120VAC/24VDC 1A 250VAC	Life-Cycle:10000	-40°C to +85°C

Notes : 1) Only some typical rating are listed above. If more details are required, please contact us.

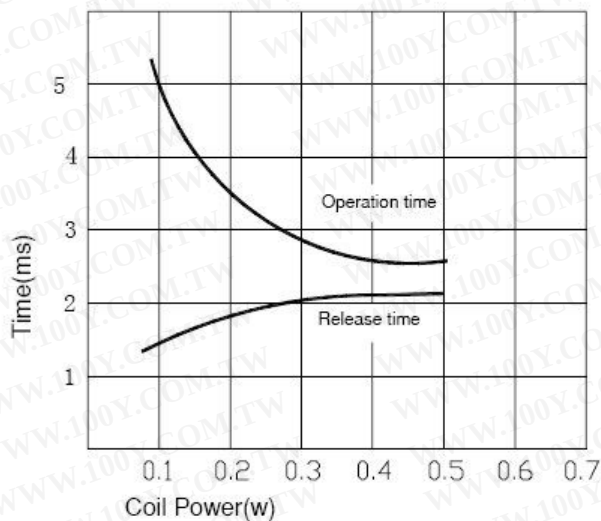
OUTLINE DIMENSIONS, WIRING DIAGRAM AND PC BOARD LAYOUT

Unit:mm

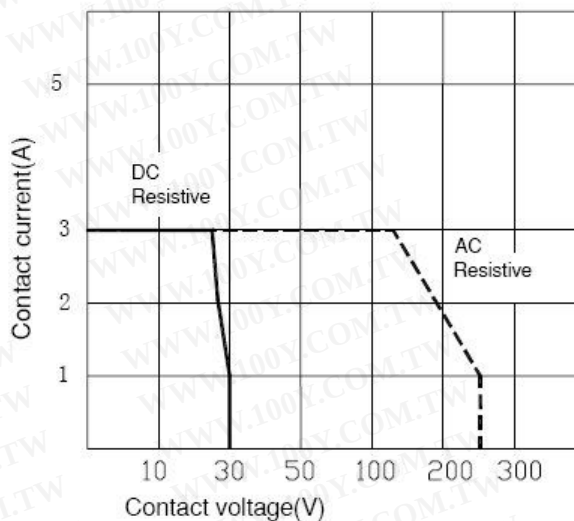


CHARACTERISTIC CURVES

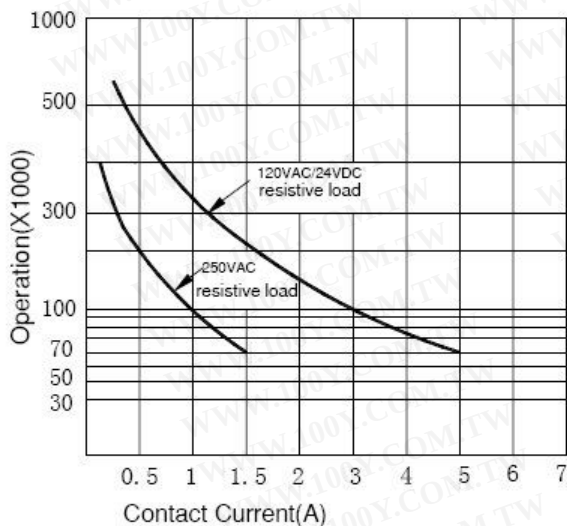
Timing



Coil Temperature Rise



Life expectancy



Ambient Temperature vs. Maximum Voitage

