

SPECIFICATION

IRI

SUBMINIATURE POWER RELAY

CONTACT DATA

Contact arrangement	1A
Contact resistance	100mΩ (at 1A 6VDC)
Contact material	Silver Alloy
Contact rating (Res. load)	10A 250VAC/24VDC 15A 125VAC 1/2HP 125VAC TV-5A@125VAC(Lamp)
Max. switching voltage	250VAC/125VDC
Max. switching current	16A
Max. switching power	4000VA/480W
Mechanical endurance	1 x 10 ⁷ ops
Electrical endurance	1 x 10 ⁵ ops

CONTACT DATA

Insulation resistance		100MΩ (at 500VDC)
Dielectric strength	Between coil & contacts	2500VAC 1min
	Between open contacts	750VAC 1min
Operate time (at nomi. Volt.)		15ms max.
Release time (at nomi. Volt)		8ms max.
Shock resistance	Functional	10G
	Destructive	100G
Vibration resistance		10Hz to 55Hz 1.5mm DA
Humidity		20% to 85% RH
Ambient temperature		-40°C to 85°C
Termination		PCB
Unit weight		Approx. 8g
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	360mW / 200mW / 450mW
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COIL DATA

at 20°C

(360mW)

Nominal Voltage VDC	Pick-up Voltage VDC	Drop-out Voltage VDC	Rated Current mA	Coil Resistance Ω
3	2.25	0.15	120	25 x (1±10%)
5	3.75	0.25	72	69 x (1±10%)
6	4.50	0.3	60	100 x (1±10%)
9	6.75	0.45	40	225 x (1±10%)
12	9.00	0.6	30	400 x (1±10%)
24	18.0	1.2	15	1600 x (1±10%)
48	36.0	2.4	7.5	6400 x (1±10%)

(200mW)

Nominal Voltage VDC	Pick-up Voltage VDC	Drop-out Voltage VDC	Rated Current mA	Coil Resistance Ω
3	2.25	0.15	66.7	45 x (1±10%)
5	3.75	0.25	40	125 x (1±10%)
6	4.50	0.3	33.3	180 x (1±10%)
9	6.75	0.45	22.2	405 x (1±10%)
12	9.00	0.6	16.7	720 x (1±10%)
24	18.0	1.2	8.3	2880 x (1±10%)
48	36.0	2.4	4.2	11520 x (1±10%)

(450mW)

Nominal Voltage VDC	Pick-up Voltage VDC	Drop-out Voltage VDC	Rated Current mA	Coil Resistance Ω
3	2.25	0.15	150	20 x (1±10%)
5	3.75	0.25	90	56 x (1±10%)
6	4.50	0.3	75	80 x (1±10%)
9	6.75	0.45	50	180 x (1±10%)
12	9.00	0.6	37.5	320 x (1±10%)
24	18.0	1.2	18.7	1280 x (1±10%)
48	36.0	2.4	9.4	5120 x (1±10%)

ORDERING INFORMATION

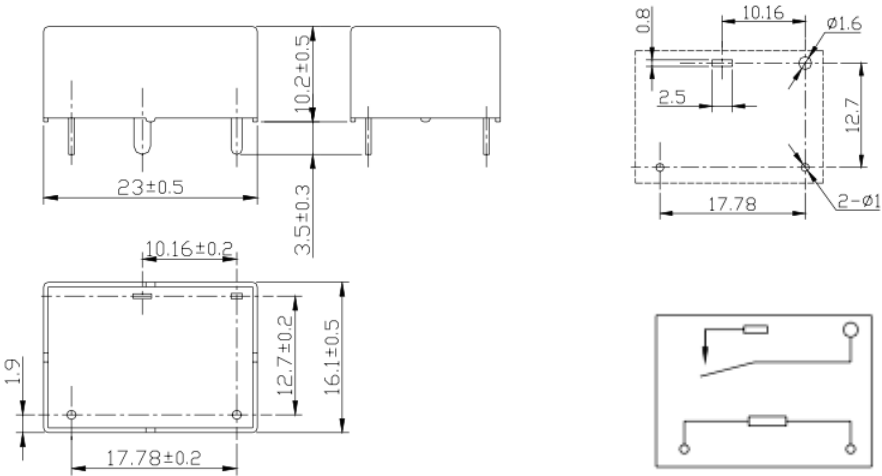
	IRI	-1A	-D12	S	S
Type					
Contact form	1A : 1 Form A				
Coil voltage	3, 5, 6, 9, 12, 24, 48 VDC				
Construction	S : Sealed				
Coil power	Nil : 360mW S : 200mW (sm) : 450mW				

SAFETY APPROVAL RATINGS

UL&CUL	10A 250VAC 15A 125VAC 1/2HP 125VAC TV-5A@125VAC (LAMP)	Life-Cycle:6000	
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OUTLINE DIMENSIONS, WIRING DIAGRAM AND PC BOARD LAYOUT

Unit:mm



CHARACTERISTIC CURVES

