

SPECIFICATION

IRA

POWER RELAY

CONTACT DATA

Contact arrangement	1A
Contact resistance	100mΩ(at 1A 5VDC)
Contact material	Silver Alloy
Contact rating (Res. load)	20A250VAC / 30A250VAC
Max. switching voltage	250VAC
Max. switching current	25A
Max. switching power	6250VA
Mechanical endurance	1 x 10 ⁷ ops
Electrical endurance	1 x 10 ⁵ ops

CHARACTERISTICS DATA

Insulation resistance		1000MΩ Min (at 500VDC)
Dielectric strength	Between coil & contacts	4500VAC 1min
	Between open contacts	-S:1500VAC, -SL:2500VAC (for 1min)
Operate time (at nomi. Volt.)		20ms.
Release time (at nomi. Volt)		10ms.
Shock resistance	Functional	10G
	Destructive	100G
Vibration resistance		10Hz to 55Hz 1.5mm DA
Humidity		40% to 85% RH
Ambient temperature		-40°C to 85°C
Termination		PCB
Unit weight		Approx. 23g
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	900mW / 1400mW
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COIL DATA

at 20°C

(900mW)

Nominal Voltage VDC	Pick-up Voltage VDC	Drop-out Voltage VDC	Rated Current mA	Coil Resistance Ω
5	3.75	0.25	180	27.8 x (1±10%)
6	4.5	0.3	150	40 x (1±10%)
9	6.75	0.45	100	90 x (1±10%)
12	9	0.6	75	160 x (1±10%)
18	13.5	0.9	50	360 x (1±10%)
24	18	1.2	37.5	640 x (1±10%)
48	36	2.4	18.75	2560 x (1±10%)

(1400mW)

Nominal Voltage VDC	Pick-up Voltage VDC	Drop-out Voltage VDC	Rated Current mA	Coil Resistance Ω
5	3.75	0.25	280	17.9 x (1±10%)
6	4.5	0.3	233.33	25.7 x (1±10%)
9	6.75	0.45	155.56	57.9 x (1±10%)
12	9	0.6	116.67	102.9 x (1±10%)
18	13.5	0.9	77.78	231.4 x (1±10%)
24	18	1.2	58.33	411.4 x (1±10%)
48	36	2.4	29.17	1645.7 x (1±10%)

ORDERING INFORMATION

	IRA	-P	-1A	-E	D12	S	L
Model							
Type	Nil : PCB&QC, P : PCB						
Contact Form	1A : 1FormA						
Contact Rating	Nil : Standard, E : 30A						
Coil Voltage	5, 6, 9, 12, 18, 24, 48 VDC						
Construction	S : Sealed Type						
Coil Power	Nil : 900mW, L : 1400mW(Only 20A 250VAC)						

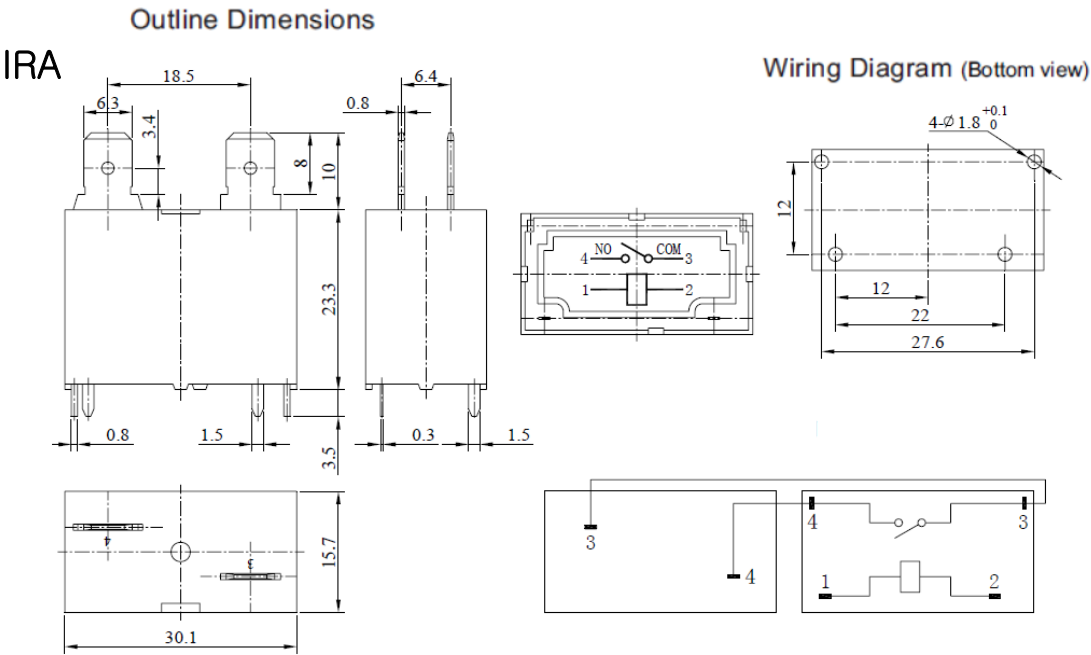
SAFETY APPROVAL RATINGS

UL&CUL	20A 250VAC	5 to 48VDC	
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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

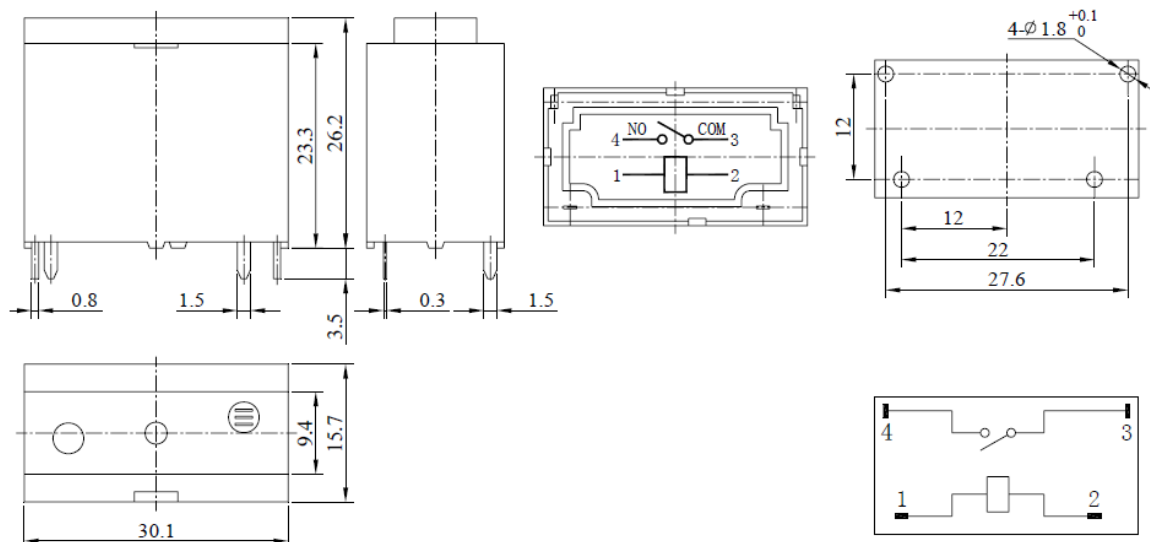
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Outline Dimensions

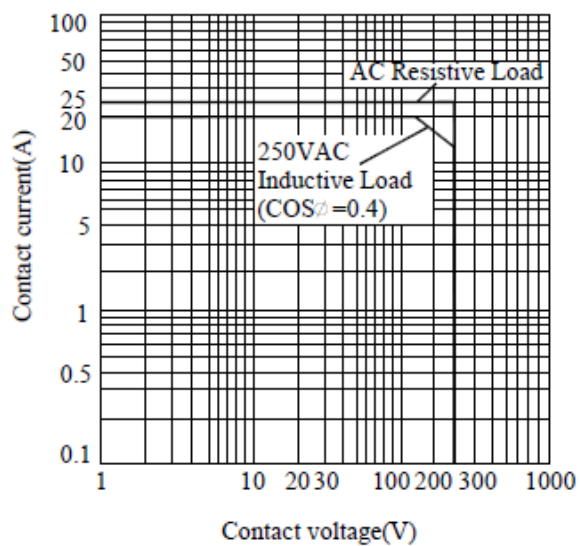
IRA-P

Wiring Diagram (Bottom view)



CHARACTERISTIC CURVES

Maximum switching power



Electrical service life

