

SPECIFICATION

IRN

SUBMINIATURE POWER RELAY

CONTACT DATA(IRN)

Contact arrangement	1A
Contact resistance	100mΩ (at 1A 24VDC)
Contact material	Silver Alloy
Contact rating (Res. load)	3A 250VAC / 5A 250VAC /30VDC
Max. switching voltage	277VAC/30VDC
Max. switching current	5A
Max. switching power	1385VA/150W
Mechanical endurance	5 x 10 ⁶ ops
Electrical endurance	1.2 x 10 ⁵ ops

CONTACT DATA(IRN-E)

Contact arrangement	1A
Contact resistance	100mΩ (at 1A 24VDC)
Contact material	Silver Alloy
Contact rating (Res. load)	7A 250VAC /28VDC
Max. switching voltage	277VAC/30VDC
Max. switching current	10A
Max. switching power	2770VA/300W
Mechanical endurance	5 x 10 ⁶ ops
Electrical endurance	6 x 10 ⁴ ops

CONTACT DATA(IRN)

Insulation resistance		1000MΩ (at 500VDC)
Dielectric strength	Between coil & contacts	4000VAC 1min
	Between open contacts	1000VAC 1min
Operate time (at nomi. Volt.)		10ms max.
Release time (at nomi. Volt)		10ms max.
Shock resistance	Functional	98m/s ²
	Destructive	980m/s ²
Vibration resistance		10Hz to 55Hz 1.5mm DA
Humidity		5% to 85% RH
Ambient temperature		-40°C to 105°C
Termination		PCB
Unit weight		Approx. 3g
Construction		Plastic Sealed Flux proofed

CONTACT DATA(IRN-E)

Insulation resistance		1000MΩ (at 500VDC)
Dielectric strength	Between coil & contacts	4000VAC 1min
	Between open contacts	1000VAC 1min
Operate time (at nomi. Volt.)		10ms max.
Release time (at nomi. Volt)		10ms max.
Shock resistance	Functional	98m/s ²
	Destructive	980m/s ²
Vibration resistance		10Hz to 55Hz 1.5mm DA
Humidity		5% to 85% RH
Ambient temperature		-40°C to 85°C
Termination		PCB
Unit weight		Approx. 3g
Construction		Plastic Sealed Flux proofed

COIL

Coil power	200mW
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COIL DATA at 23°C

Nominal Voltage VDC	Pick-up Voltage VDC	Drop-out Voltage VDC	Max. Allowable Voltage VDC	Coil Resistance Ω
3	2.25	0.18	3.9	45 x (1±10%)
5	3.75	0.25	6.5	125 x (1±10%)
6	4.50	0.30	7.8	180 x (1±10%)
9	6.75	0.45	11.7	405 x (1±10%)
12	9.00	0.60	15.6	720 x (1±10%)
18	13.5	0.90	23.4	1620 x (1±10%)
24	18.0	1.20	31.2	2880 x (1±10%)

ORDERING INFORMATION

Type	IRN	-1A	-E	D12	S	F
Contact form	1A : 1 Form A					
Coil Rating	E : 7A 250VAC / 28VDC Nil : 5A 250VAC /30VDC					
Coil voltage	3, 5, 6, 9, 12, 18, 24 VDC					
Construction	S : Plastic Sealed Nil : Flux proofed					
Insulation System	F : Class F Nil : standard					

SAFETY APPROVAL RATINGS

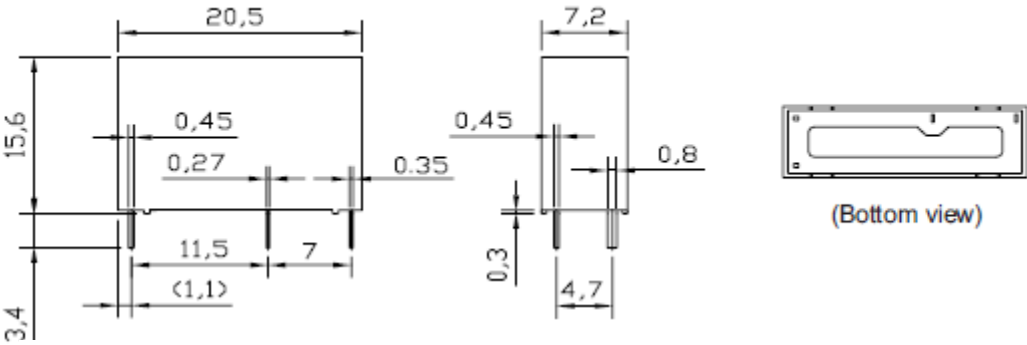
IRN

UL& CUL	Siver Alloy	5A 125VAC/250VAC 5A 277VAC/30VDC 3A 125VAC/250VAC 3A 277VAC/30VDC	At 85°C
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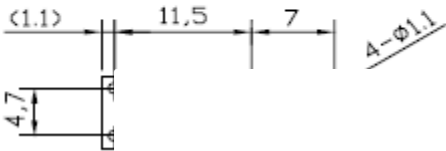
IRN-E

UL& CUL	Siver Alloy	10A 125VAC/250VAC 10A 277VAC/30VDC 7A 125VAC/250VAC 7A 277VAC/30VDC	At 85°C
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OUTLINE DIMENSIONS, WIRING DIAGRAM AND PC BOARD LAYOUT Unit:mm



PCB Layout
(Bottom view)

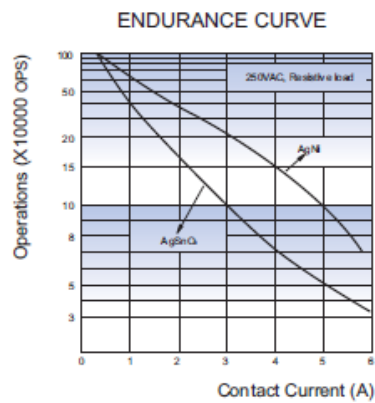


Wiring Diagram
(Bottom view)



CHARACTERISTIC CURVES

IRN



IRN-E

