

SPECIFICATION

IARC

SUBMINIATURE POWER RELAY

CONTACT DATA

Contact arrangement	1A
Contact resistance	50mΩ (at 1A 24VDC)
Contact material	Silver alloy
Contact rating (Res. load)	1A : 25A 14VDC
Max. switching voltage	24VDC
Max. switching current	25A
Max. switching power	350W
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	1000VAC 1min
	Between open contacts	550VAC 1min
Operate time (at nomi. Volt.)		10ms max.
Release time (at nomi. Volt)		7ms max.
Shock resistance		100m/s ² ,11ms
Vibration resistance		10Hz to 44Hz 1.27mm
Humidity		85%(at 40°C)
Ambient temperature		-40°C to 85°C
Max switching frequency	Mechanical: 18,000 Operations/hr	
	Electrical: 1,800 Operations/hr	
Unit weight		Approx. 14g

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

COIL

Coil power	1.16W
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COIL DATA

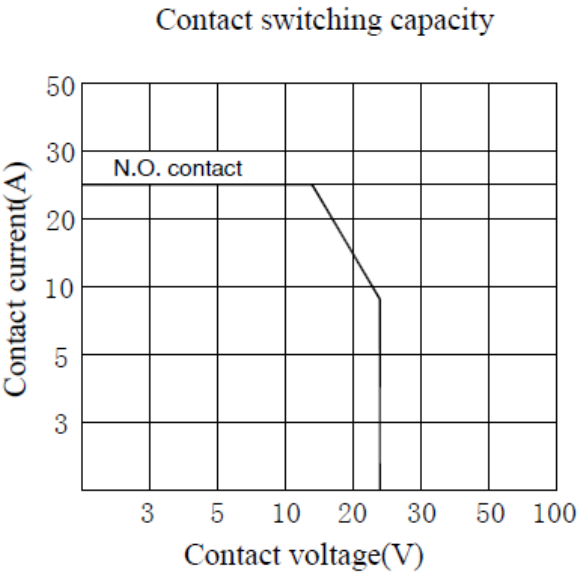
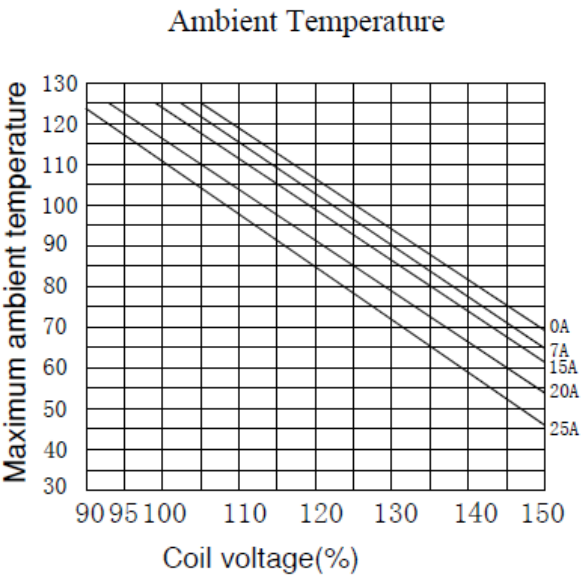
 at 23°C

Nominal Voltage VDC	Pick-up Voltage VDC	Drop-out Voltage VDC	Rated Current (mA)	Coil Resistance Ω
12	8.5	1.5	91.7	124 x (1±10%)
24	17	3.0	49	489 x (1±10%)

ORDERING INFORMATION

	IARC	-1A	D12	S	P	Nil
Type						
Contact form	1A : 1 Form A					
Coil voltage	12, 24 VDC					
Construction	S : Sealed type F : Flux tight					
Mounting Type	Nil : Plug In Type , P : PCB Type					
Coil transient suppression	Nil : Standard R : Coil parallel with 1/2W resistor 680Ω for Coil voltage 12VDC Coil parallel with 1/2W resistor 2700Ω for Coil voltage 24VDC D1 : Coil parallel with diode IN4007 the positive pole "+" on #85 teminal D2 : Coil parallel with diode IN4007 the positive pole "+" on #86 temina					

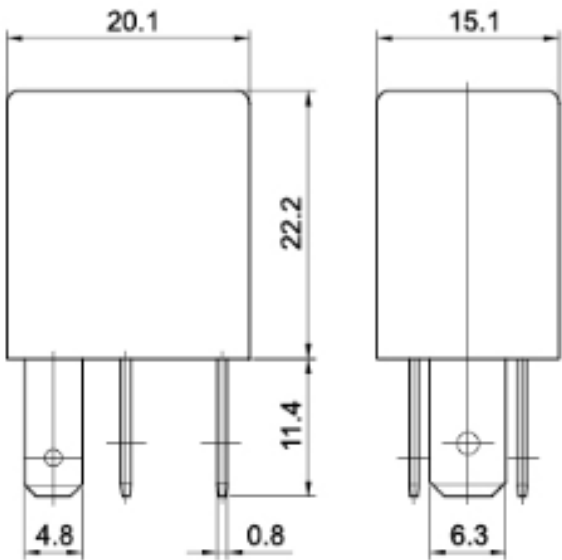
CHARACTERISTIC CURVES



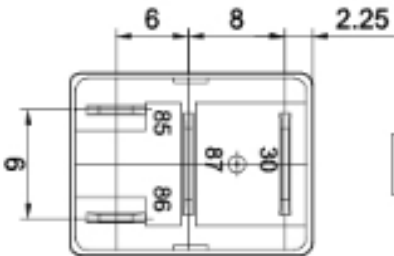
OUTLINE DIMENSIONS, WIRING DIAGRAM AND PC BOARD LAYOUT

Unit:mm

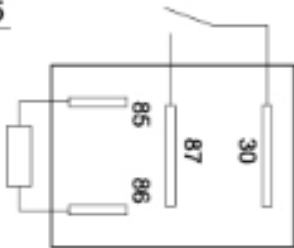
Outline Drawing



PCB Layout
(Quick Type)



Wiring Diagram



Resistance (Diode) Wiring Diagram

