

SPECIFICATION

IARB

SUBMINIATURE POWER RELAY

CONTACT DATA (IARB)

Contact arrangement	1A	1C	1U	1W
Contact resistance	100mΩ (at 1A 6VDC)			
Contact material	Silver alloy			
Contact rating (Res. load)	1A : 15A 14VDC 1C : 10A 14VDC 1W : 2*7.5A 14VDC 1U : 2*10A 14VDC			
Minimum load	100mA 6VDC			
Max. switching voltage	75VDC			
Max. switching current	20A			
Max. switching power	280W			
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	500VAC 1min
Operate time (at nomi. Volt.)		5ms max.
Release time (at nomi. Volt)		3ms max.
Shock resistance	Functional	20G
	Destructive	100G
Vibration resistance		10Hz to 55Hz 1.5mm
Humidity		40% to 85% RH
Ambient temperature		-40°C to 85°C
Termination		PCB
Unit weight		Approx. 9.5g
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	1.1W
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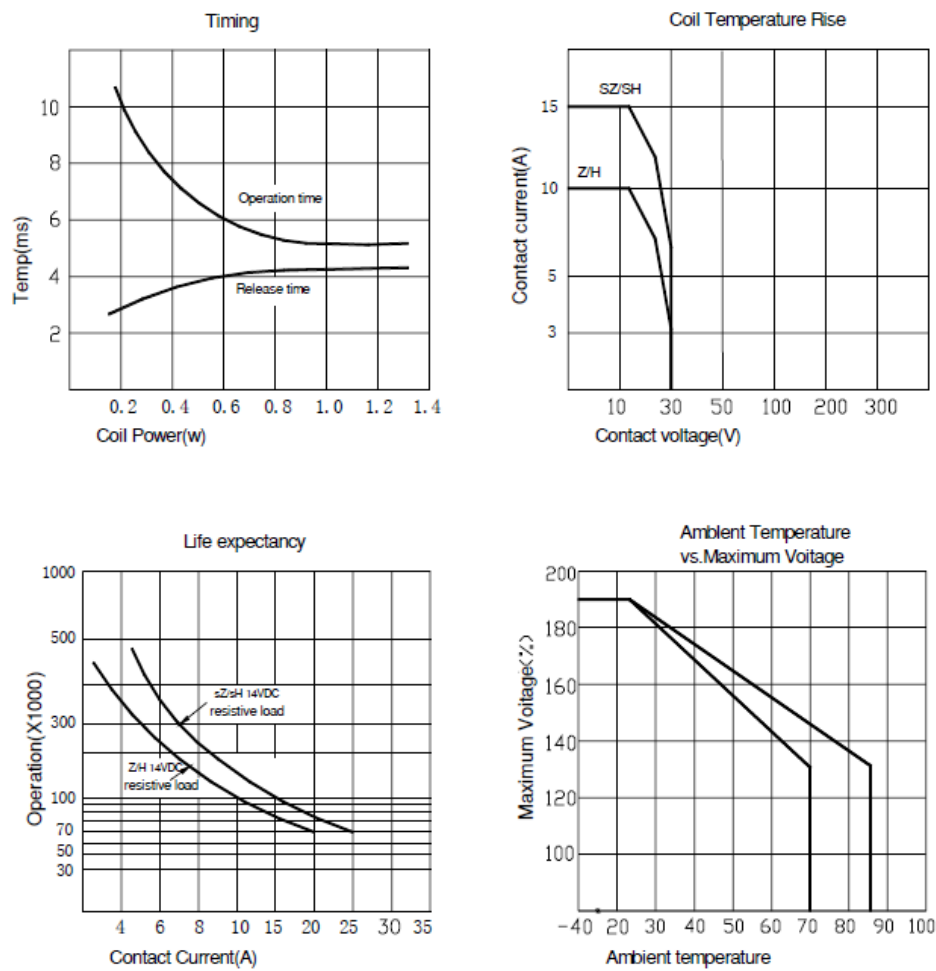
COIL DATA at 23°C

Nominal Voltage VDC	Pick-up Voltage VDC	Drop-out Voltage VDC	Rated Current (mA)	Coil Resistance Ω
6	3.9	0.3	183.3	28 x (1±10%)
9	5.9	0.45	122.2	70 x (1±10%)
12	7.8	0.6	91.7	130 x (1±10%)
18	11.8	0.9	61.1	290 x (1±10%)
24	15.6	1.2	45.8	520 x (1±10%)

ORDERING INFORMATION

	IARB	-1A	D12	S
Type				
Contact form	1A : 1 Form A , 1U : 1 Form U 1C : 1 Form C , 1W : 1 Form W			
Coil voltage	6, 9, 12, 18, 24 VDC			
Construction	S : Sealed type			

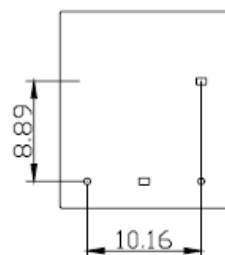
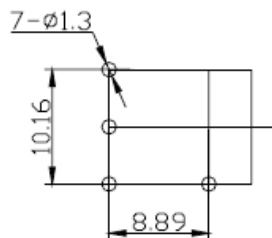
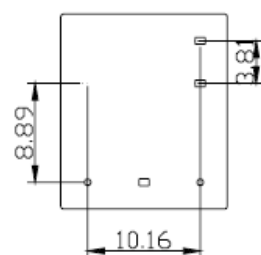
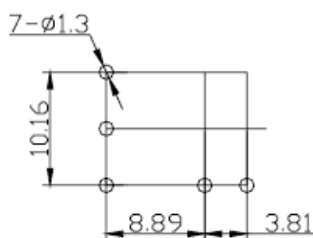
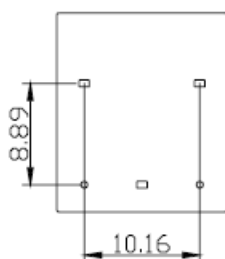
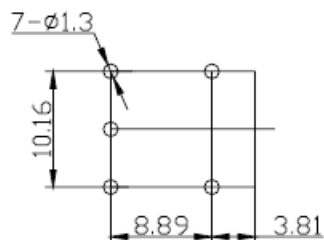
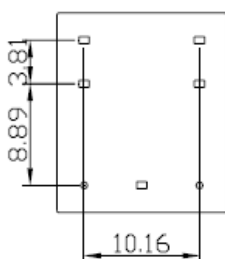
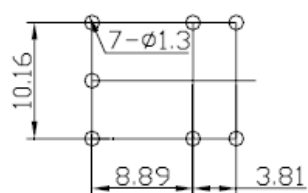
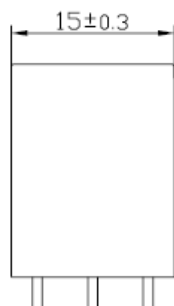
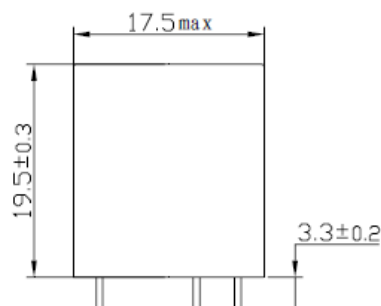
CHARACTERISTIC CURVES



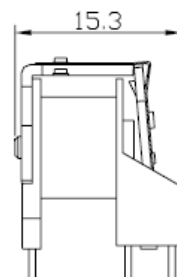
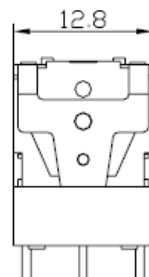
OUTLINE DIMENSIONS, WIRING DIAGRAM AND PC BOARD LAYOUT

Unit:mm

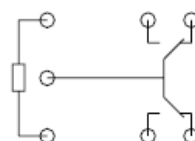
IARB Sealed



IARB Open

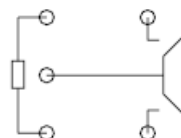


wiring Diagrams (Bottom View)



1W

wiring Diagrams (Bottom View)



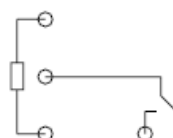
1U

wiring Diagrams (Bottom View)



1C

wiring Diagrams (Bottom View)



1A