SPECIFICATION

IARE SUBMINIATURE POWER RELAY

CONTACT DATA (IARE)

Contact arrangement	1A	1C	1B	1U
Contact resistance	100mΩ (at 1A 6VDC)			
Contact material	Silver alloy			
Contact rating (Res. load)	NO: 40A 14VDC , 2X20A 14VDC(1U) NC: 30A 14VDC			
Max. switching voltage	30VDC			
Max. switching current	40A			
Max. switching power	560W			
Mechanical endurance	1 x 10^7ops			
Electrical endurance	1 x 10^5ops			

CONTACT DATA

Insulation resistance		100MΩ (at 500VDC)
Dielectric strength	Between coil & contacts	750VAC 1min
	Between open contacts	500VAC 1min
Operate time (at nomi. Volt.)		10ms max.
Release time (at nomi. Volt)		10ms max.
Shock resistance	Functional	10G
	Destructive	20G
Vibration resistance		10-40Hz 1.5mm
Humidity		40% to 85% RH
Ambient temperature		-40℃ to 85℃
Max.switching frequency		Mechanical:18,000 operations/hr Electrical:1,800 Operations/hr
Unit weight		Approx. 40g

COIL

Coil power	1.6W / 1.9W

COIL DATA at 23℃

(1600mW)

Nominal Voltage VDC	Pick-up Voltage VDC	Drop-out Voltage VDC	Rated Current (mA)	Coil Resistance Ω
6	3.9	0.6	267	23 x (1±10%)
12	7.8	1.2	133	90 x (1±10%)
24	15.6	2.4	67	360 x (1±10%)

(1900mW)

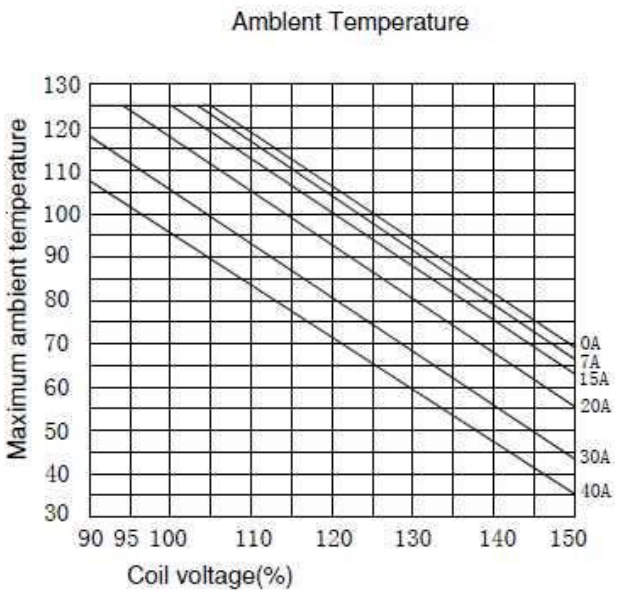
Nominal Voltage VDC	Pick-up Voltage VDC	Drop-out Voltage VDC	Rated Current (mA)	Coil Resistance Ω
6	3.9	0.6	317	19 x (1±10%)
12	7.8	1.2	158	76 x (1±10%)
24	15.6	2.4	79	300 x (1±10%)

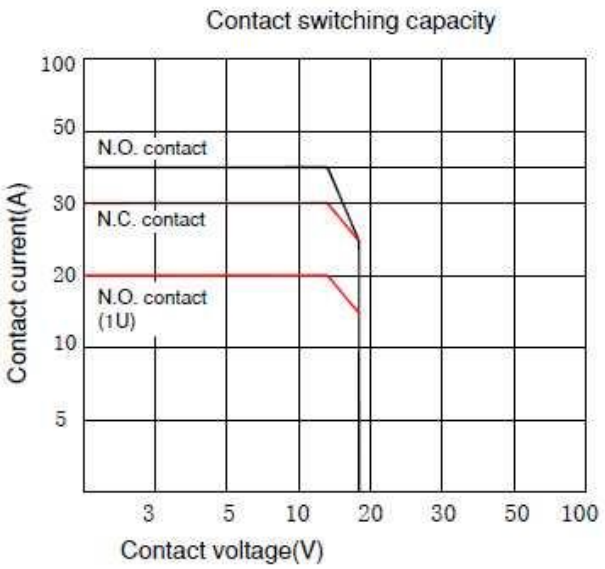
Notes : 1) The data shown above are initial values.
2) Please find coil temperature curve in the characteristic curves below.

ORDERING INFORMATION

	IARE	-1A	-D12	R1	F	P	L
MODEL							
Conatact Form	**1A** : Form A **1B** : Form B **1C** : Form C **1U** : Form U						
Coil Voiltage	6, 12, 24 VDC						
Coil Type	**Nil** : Standard **R1** : Coil Parallel With 1/2W Resistor 680Ω for Coil Voltage 12VDC Coil Parallel With 1/2W Resistor 2700Ω for Coil Voltage 24VDC **D1/D2** : with Diode						
Construction	**Nil :** Without Bracket **F :** With Bracket						
Construction	**P :** PCB Type **B :** SOCKET Type						
Coil Power	**Nil :** 1.9W **L :** 1.6W						

CHARACTERISTIC CURVES





OUTLINE DIMENSIONS, WIRING DIAGRAM AND PC BOARD LAYOUT

Unit:mm