

SPECIFICATION

IARF

AUTOMOTIVE RELAY

CONTACT DATA

Contact arrangement	1A	1B	1C
Contact resistance	100mΩ(at 1A 6VDC)		
Contact material	Silver Alloy		
Contact rating (Res. load)	NO: 50A 14VDC NC: 40A 14VDC		
	NO: 80A 14VDC NC: 60A 14VDC		
Max. switching voltage	75VDC		
Max. switching current	80A		
Max. switching power	1120W		
Mechanical endurance	1 x 10 ⁷ ops		
Electrical endurance	1 x 10 ⁵ ops		

COIL

Coil power	1.8 W
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COIL DATA

at 23°C

(1.8 W)

Nominal Voltage VDC	Pick-up Voltage VDC	Drop-out Voltage VDC	Rated Current (mA)	Coil Resistance Ω
6	3.9	0.6	300	20 x (1±10%)
12	7.8	1.2	150	80 x (1±10%)
24	15.6	2.4	75	320 x (1±10%)

CHARACTERISTICS DATA

Insulation resistance	100MΩ Min (at 500VDC)	
Dielectric strength	Between coil & contacts	500VAC 1min
	Between open contacts	500VAC 1min
Operate time (at nomi. Volt.)	7ms.	
Release time (at nomi. Volt.)	5ms.	
Shock resistance	Operating Extremes	10G
	Damage Limits	20G
Vibration resistance	10Hz to 40Hz 1.5mm DA	
Humidity	40% to 85% RH	
Temperature Range	-40°C to 85°C	
Termination	PCB	
Unit weight	Approx. 46g	

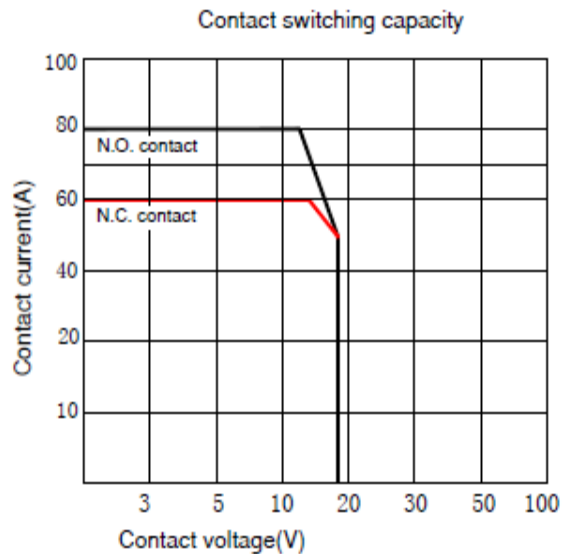
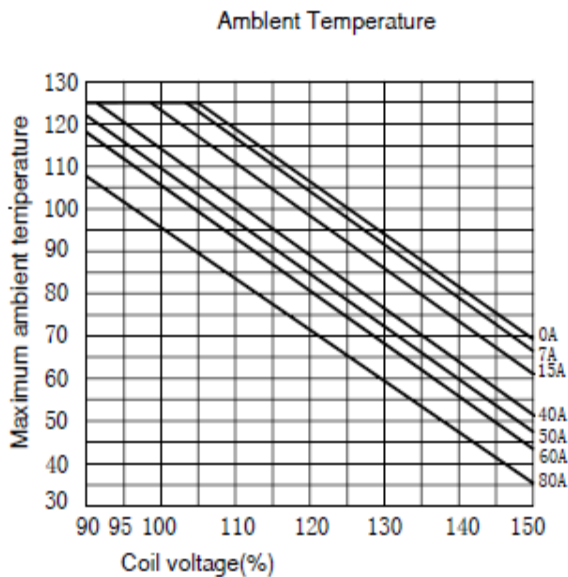
- Notes :** 1) The data shown above are initial values.
2) Please find coil temperature curve in the characteristic curves below.

ORDERING INFORMATION

	IARF	-1A	-D12	F	P1
Type					
Contact form	1A : 1 Form A 1B : 1 Form B 1C : 1 Form C				
Coil voltage	6, 12, 24 VDC				
BRACKET	F : WITH BRACKET NIL : WITHOUT BRACKET				
Type2	Nil : B Type P1 : PCB Type 5.3mm P2 : PCB Type 3.2mm				

Notes : 1) Only some typical rating are listed above. If more details are required, please contact us.

CHARACTERISTIC CURVE



OUTLINE DIMENSIONS, WIRING DIAGRAM AND PC BOARD LAYOUT

Unit:mm

