

13 AMP MINIATURE POWER RELAY

FEATURES:

- 13 Amp 600VDC switching
- Compact Size: 32.9x29.6x16mm
- CSA : Pending

Application:

- PV power generation systems
- Battery charge and discharge
- Inverter control, DC load control etc.



CONTACTS

Arrangement	DPST (2 Form A)/SPST (1 Form A)
Ratings	Resistive load: Max. switched power: 7800W Max. switched current: 13A Max. switched voltage: 600VDC Max. continuous current: 13A
Rated Load CSA	1A at 500VDC, Res., 40k cycles, 85°C 13A at 600VDC, Res., 6k cycles, 85°C 15A at 750VDC, Res., 100 cycles, 85°C 7.5A at 1000VDC, Res., 10 cycles, 85°C 2A at 1500VDC, Res., 10k cycles, 85°C
Material	Ag alloy
Resistance	< 100mΩ initially (at 6V, 1A, voltage drop method)

COIL

Power At Rated Voltage Max. Continuous Dissipation Temperature Rise	1400 mw (typical) 1.7 W at 20°C(68°F) ambient 70°C Max. at Rated voltage, 85°C
Temperature	Max. 155°C(311°F) class F

NOTES

1. All values at 20°C(68°F)
2. Relay may pull in with less than "Must Operate" value
3. Specifications subject to change without notice.

GENERAL DATA

Life Expectancy Mechanical Electrical	Minimum operations 100,000 cycles Min. 6k cycles @13A 600VDC Res. 40k cycles @1A 500VDC Res.
Operate Time(typical)	30ms Max. at nominal coil voltage
Release Time(typical)	10 ms Max. at nominal coil voltage (with no coil suppression)
Dielectric Strength (at sea level for 1min.)	5000 Vrms(coil to contacts) 2000 Vrms(between open contacts) 4000 Vrms(between contacts sets)
Surge Voltage	6KV @1.2/50μs (coil to contacts)
Insulation Resistance	1,000MΩ min. at 20°C 500VDC 50% RH
Holding voltage	Greater than 40% of nominal coil voltage
Dropout	Greater than 5% of nominal coil voltage
Ambient conditions Temperature Operating Humidity	-40°C(-40°F) to 85°C(185°F) 5%-85%
Vibration	1.5mm DA at 10-55 Hz
Shock	10g
Enclosure	P.B.T, Polyester
Terminals	Tinned copper alloy, P.C.
Max. Solder Temp.	270°C(518°F)
Max. solder time	5 seconds
Weight	41 g

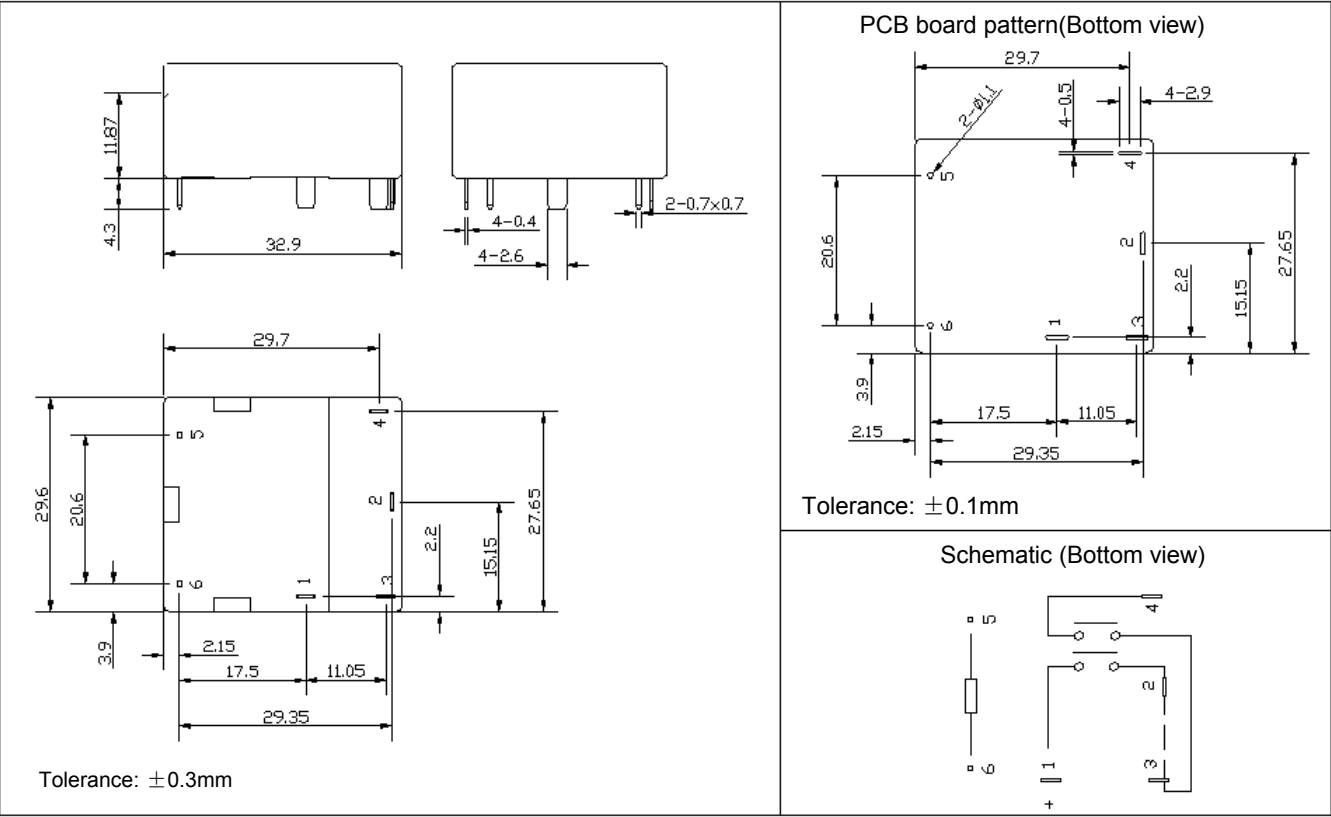
AZDC6

RELAY ORDERING DATA

COIL SPECIFICATIONS					ORDER NUMBER
Nominal Coil VDC	Must Operate VDC	Min. holding VDC	Max. Continuous VDC	Coil Resistance $\Omega \pm 10\%$	
12	9	4.8	13.2	103	AZDC6-2AE-12D

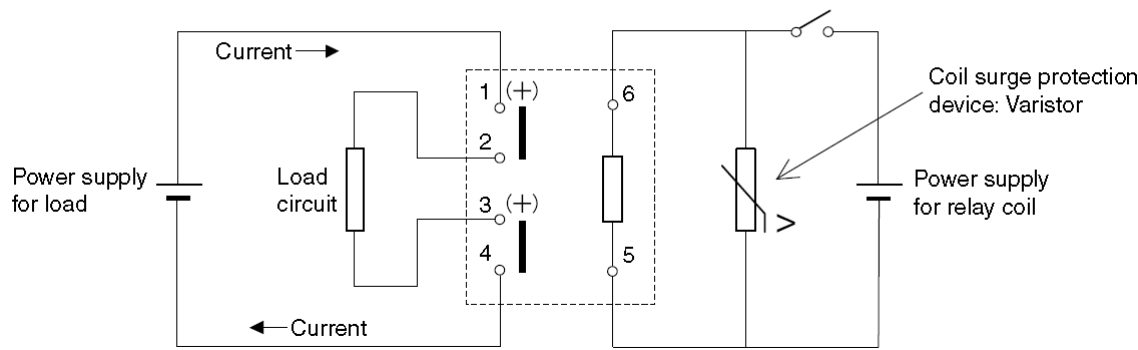
*All values at 20°C

MECHANICAL DATA

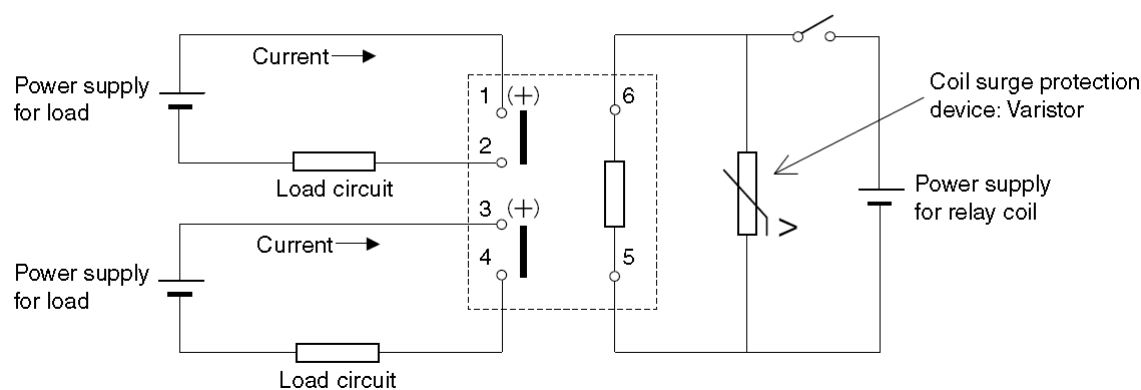


Recommended circuit

1. Each 1 Form A contact connected in series (Bottom view)



2. 1 Form A contact only (Bottom view)



Insulation characteristic (IEC61810-1)

Item	Characteristic (2 Form A)
Clearance/Creepage distance (IEC61810-1)	Min. 3mm /4.5mm
Category of protection (IEC61810-1)	RT II
Over voltage category	II
Rated voltage	600 VDC
Pollution degree	2
Type of insulation (Between contact and coil)	Basic insulation
Type of insulation (Between open contacts)	Full disconnection

Note:

- 1. Min. Holding voltage: $\geq 7.2V$ @85°C