AZDC6

12.5 AMP MINIATURE POWER RELAY

FEATURES:

- 12.5 Amp 600VDC switching
- Compact Size: 33.9x30.6x16mm
- CSA : 70204935

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: 7500W Max. switched current: 12.5A Max. switched voltage: 600VDC Max. continuous current: 12.5A
Rated Load **CSA**	1A at 500VDC, Res., 40k cycles, 90℃ 12.5A at 600VDC, Res., 6k cycles, 90℃
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℃(68℉) ambient 70℃ Max. at Rated voltage,85℃
Temperature	Max. 155℃(311℉) class F

NOTES

1.All values at 20℃(68℉)
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 @12.5A 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.)**	4000 Vrms(coil to contacts) 2000 Vrms(between open contacts) 2000 Vrms(between contacts sets)
Surge Voltage	6KV @1.2/50μs (coil to contacts)
Insulation Resistance	1,000MΩ min. at 20℃ 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℃(-40F)to 90℃(194℉) 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℃(518℉)
Max. solder time	5 seconds
Weight	30 g

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RELAY ORDERING DATA

COIL SPECIFICATIONS					ORDER NUMBER
Nominal Coil VDC	Must Operate VDC	Min. holding VDC	Max.Continuous VDC	Coil Resistance Ω±10%	
5	3.75	2	5	18	AZDC6-2AE-5D
9	6.75	3.6	9	58	AZDC6-2AE-9D
12	9	4.8	12	103	AZDC6-2AE-12D
24	18	9.6	24	410	AZDC6-2AE-24D
48	36	19.2	48	1650	AZDC6-2AE-48D

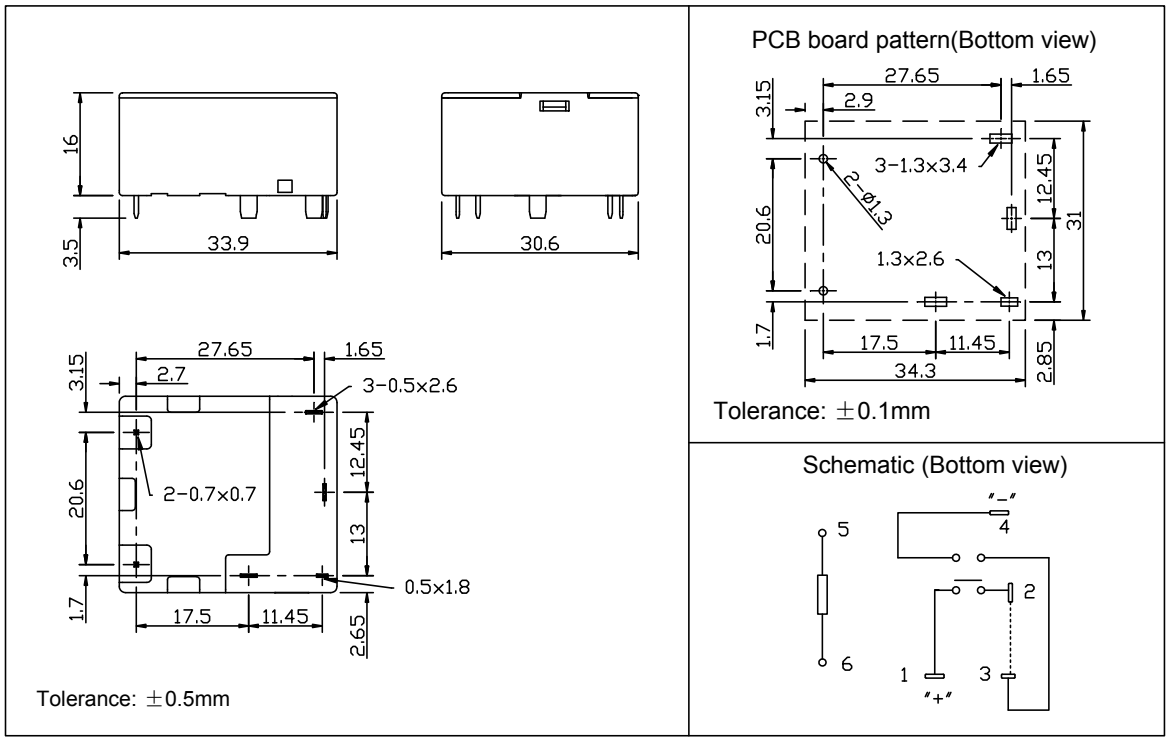
*All values at 20℃

NOMENCLATURE

AZDC6 - 2A E - 12D (000)
I II III IV V

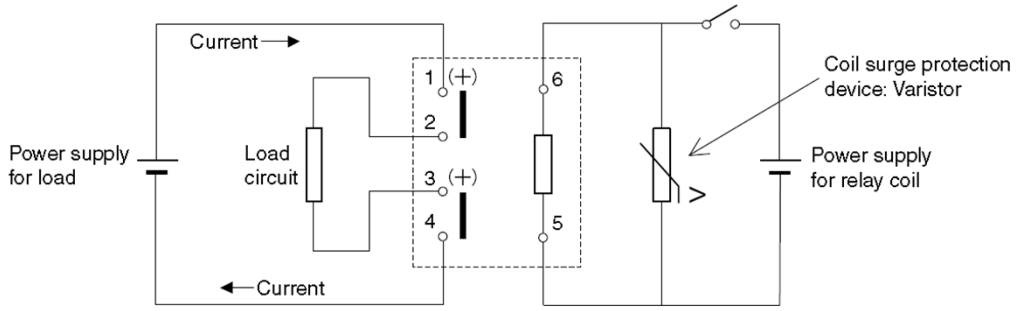
I. Basic series designation	AZDC6
II. Contact Configuration	2A: 2 form A
III. Contact material	E: AgSnO2
IV. Coil Voltage	5, 9, 12, 24,48VDC
V. Special client code	Additional numbers or letters, which does not designate construction features or ratings

MECHANICAL DATA



Recommended circuit

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



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