AZSR1160

Preliminary

160 AMP
POWER RELAY

FEATURES:

- Dielectric strength 4000Vrms
- 160 Amp switching
- Contact gap :> 3.15mm(3.6 mm available)
- Clearance / creepage > 10mm
- UL： Pending
- TUV： Pending
- CQC： Pending

CONTACTS

Arrangement	SPST (1 Form A)
Ratings	Resistive load: Max. switched power: 110400VA Max. switched current: 160A Max. switched voltage: 690VAC Max. continuous current: 160A
Rated Load	160A , 690 VAC, Res., 1k cycles, @85℃ 60A, 690VAC on, carrying 160A, 60A, 690VAC off, Res., 30k cycles, @85℃
Material	AgSnO2
Resistance	< 100mΩ initially (at 6V, 1A, voltage drop method)

COIL

Power **At Rated Voltage** **Max. Continuous Dissipation** **Temperature Rise**	3000 mw (typical) 3.63 W at 20℃(68℉) ambient 70℃ Max. at Rated voltage,85℃
Temperature	Max. 155℃(311℉) class F

NOTES

1.All values are initial 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 1000,000 cycles Min. See rated load
Operate Time(typical)	40 ms Max. at nominal coil voltage(not include bounce time)
Release Time(typical)	15 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)
Surge Voltage	10KV @1.2/50μs (coil to contacts) 8150V @1.2/50μs(between open 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 Temperature **Operating** **Storage**	At rated coil voltage -40℃(-40F)to 85℃(185℉)
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	265g

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2018/09/25

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RELAY ORDERING DATA

COIL SPECIFICATIONS @20℃*					ORDER NUMBER
Nominal Coil VDC	Must Operate VDC	Min. holding VDC	Max. Continuous VDC	Coil Resistance Ω±10%	
6	4.5	2.4	6.6	12	AZSR1160-1AE-6D
9	6.7	3.6	9.9	27	AZSR1160-1AE-9D
12	9	4.8	13.2	48	AZSR1160-1AE-12D
24	18	9.6	26.4	192	AZSR1160-1AE-24D

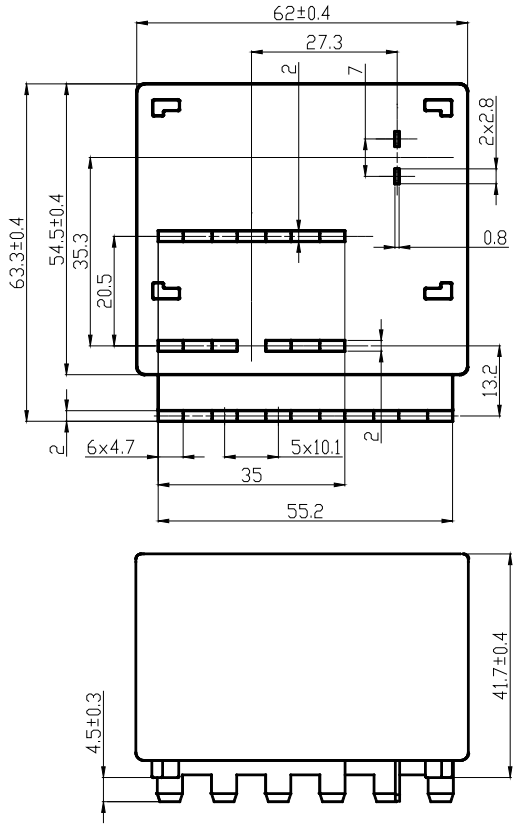
*Terminal down-words direction for operation voltage parameter.

AZSR1160 - 1A E -12 D (XXX) (XXX)
I II III IV V VI

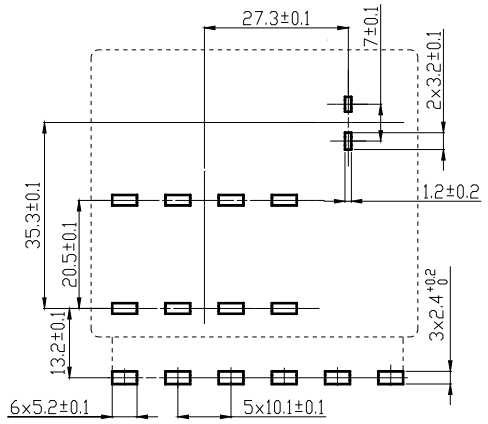
I. Basic Series AZSR1160
II. Contact Form 1A: 1 form A
III. Contact Material E: AgSnO2
IV. Coil Voltage 6, 9, 12, 24VDC.
V. (XXX) Blank: 3.15mm gap, (360) for 3.6mm gap.
VI. (XXX) Additional numbers or letters, which does not designate construction features or ratings

MECHANICAL DATA

OUTLINE DIMENSIONS

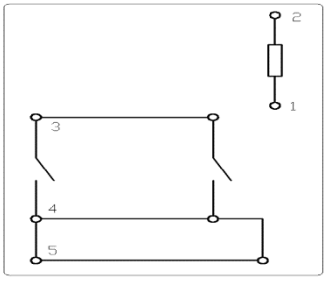


PCB BOARD LAYOUT



Viewed toward terminals

WIRING DIAGRAM



Viewed toward terminals

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