AZSR1160

160 AMP POWER RELAY

FEATURES:

- Dielectric strength 4000Vrms
- 160 Amp switching
- Contact gap: ＞3.2mm /3.6mm available
- Clearance / creepage > 10mm
- UL：E365652
- TUV ： B 088793 0013
- Insulation Class F

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 **UL/TUV**	160A , 690 VAC, Res., 1k cycles, @85℃ 690VAC Make/Break 60A, Carrying 160A, 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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RELAY ORDERING DATA

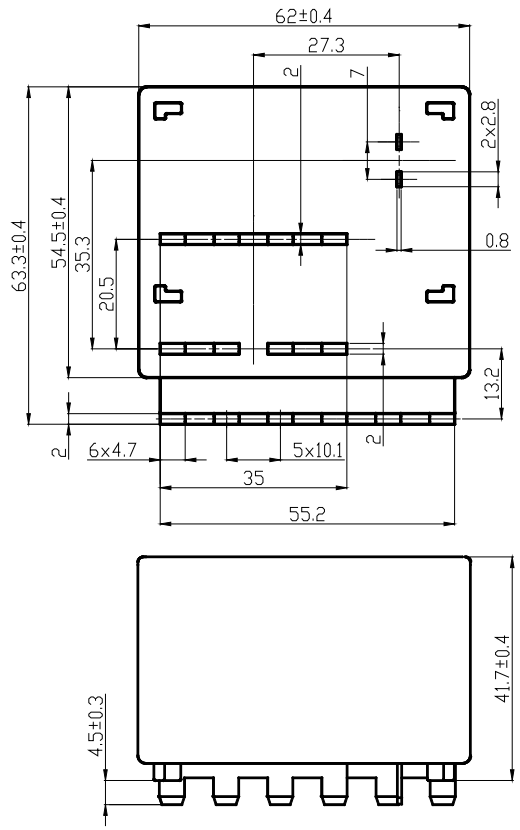
COIL SPECIFICATIONS @20℃*					ORDER NUMBER
Nominal Coil VDC	Must Operate VDC	Min. holding VDC	Max. Continuous VDC	Coil Resistance Ω±10%	
6	4.5	2.4	6.6	12	AZSR1160-1AE-6D
9	6.7	3.6	9.9	27	AZSR1160-1AE-9D
12	9	4.8	13.2	48	AZSR1160-1AE-12D
24	18	9.6	26.4	192	AZSR1160-1AE-24D
48	36	19.2	52.8	768	AZSR1160-1AE-48D

*Terminal down-words direction for operation voltage parameter.

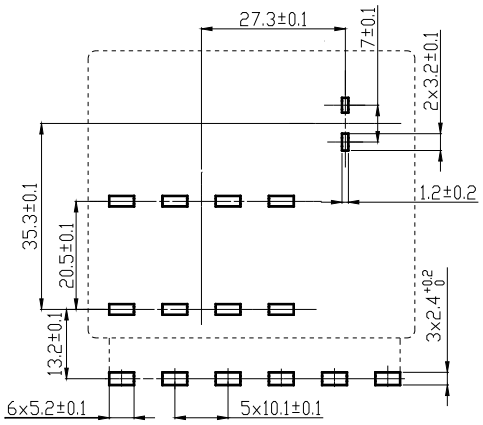
Add Suffix, (360) for 3.6mm gap.

MECHANICAL DATA

OUTLINE DIMENSIONS

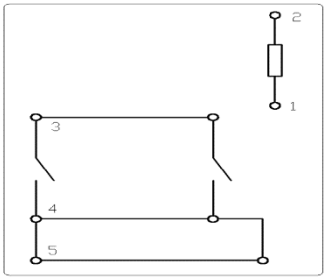


PCB BOARD LAYOUT



Viewed toward terminals

WIRING DIAGRAM



Viewed toward terminals

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