

AZSR1160

Preliminary

160 AMP MINIATURE POWER RELAY

FEATURES:

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



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 at 690 VAC, Res., 1k cycles, 85°C 60A 690VAC on, carrying 160A, 60A 690VAC off, Res., 30k cycles, 85°C |
| Material | AgSnO2 |
| Resistance | < 100mΩ initially (at 6V, 1A, voltage drop method) |

GENERAL DATA

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|--|--|
| Life Expectancy Mechanical Electrical | Minimum operations 1000,000 cycles Min. 1k cycles @160A 690VAC Res. 30k cycles @60A 690VAC break, 160A carrying, Res |
| Operate Time(typical) | 40 ms Max. at nominal coil voltage |
| 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°C 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°C(-40F)to 85°C(185°F) |
| 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 | 265g |

COIL

| | |
|---|--|
| Power At pickup Voltage Max. Continuous Dissipation Temperature Rise | 3000 mw (typical) 3.63 W at 20°C(68°F) ambient 70°C Max. at Rated voltage,85°C |
| Temperature | Max. 155°C(311°F) class F |

NOTES

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

| COIL SPECIFICATIONS @20°C* | | | | | ORDER NUMBER |
|----------------------------|------------------|------------------|---------------------|-----------------------------------|------------------|
| Nominal Coil VDC | Must Operate VDC | Min. holding VDC | Max. Continuous VDC | Coil Resistance $\Omega \pm 10\%$ | |
| 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 |

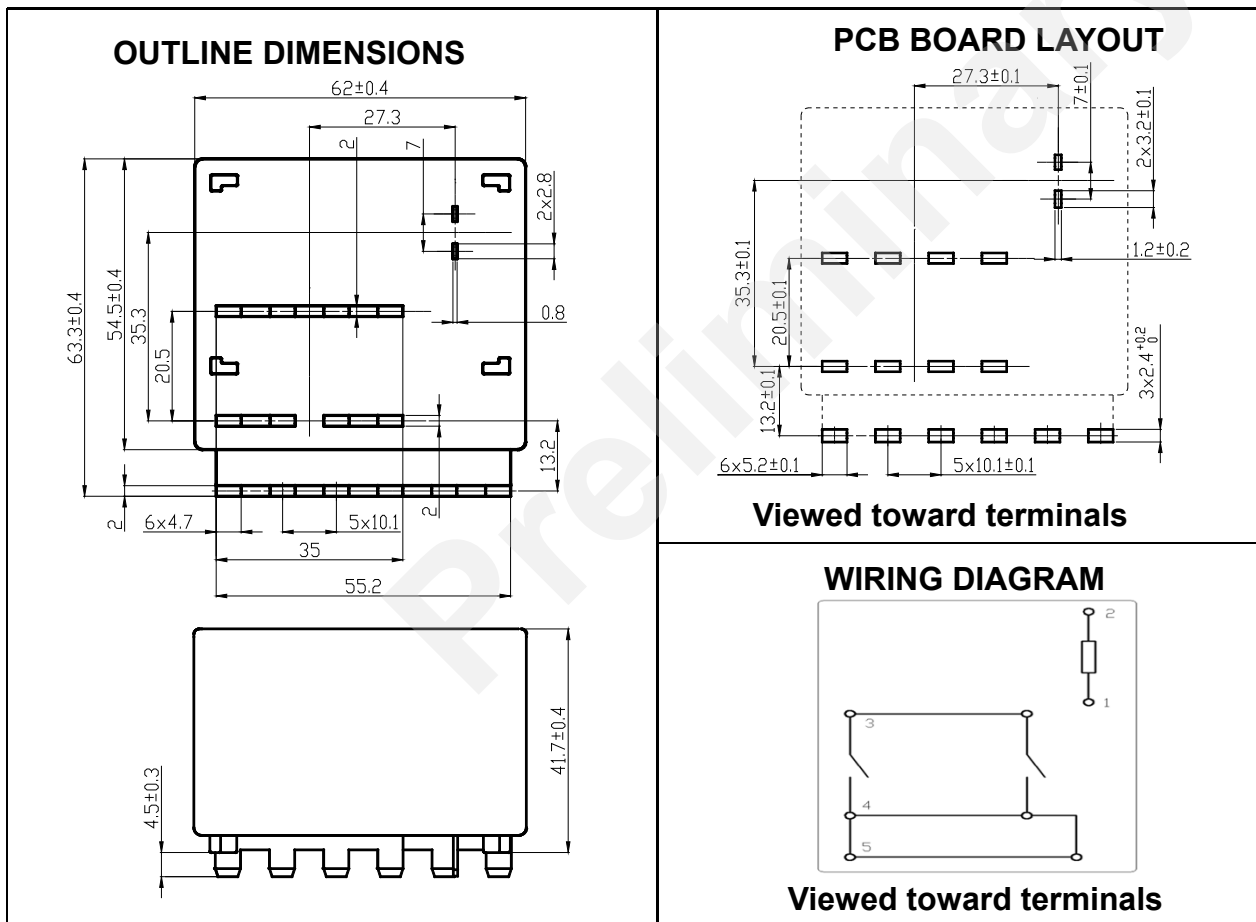
*Terminal down-words direction for operation voltage parameter.

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 Blank: AgNi 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



Disclaimer: The specification is for reference only. We could not evaluate all the performance and all the parameters for every possible application. Thus the user should evaluate and select the suitable product for their own application. If there is any query, please contact ZETTLER. However, it is the user's responsibility to determine which product should be used only.

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