AZSR180

80 A POWER RELAY

FEATURES

- 80 Amp switching
- Wide contact gap > 2.05mm
- Holding power <100 mW
- Dielectric strength 5000 Vrms
- Isolation spacing greater than 10 mm
- Double insulation, EN 60730-1 (VDE 0631, part 1)
- Reinforced insulation, EN 60335-1 (VDE 0700, part 1)
- UL, CUR E44211
- VDE certificate 40044305

RoHS compliant!



CONTACTS

Arrangement	SPST (1 Form A)			
Ratings	Resistive load:			
	Max. switched power: 2400 W or 22160 VA Max. switched current: 80 A (1000 cycles) Max. continuous current: 80 A Max. switched voltage: 150 VDC* or 440 VAC * Note: If switching voltage is greater than 30 VDC, special precautions must be taken. Please contact the factory.			
Rated Load UL	80 A at 277 VAC, resistive, 1k cycles			
VDE	80 A at 277 VAC, resistive, 1k cycles, 85°C 30 A at 263 VAC, AC-7a, 30k cycles , 85°C			
Material	Silver tin oxide			
Resistance	< 50 milliohms initially			

COIL

Power At Pickup Voltage (typical)	270 mW		
Max. Continuous Dissipation	2.0 W at 20°C (68°F) ambient		
Temperature Rise	15°C (27°F) at nominal coil voltage		
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.
- 4. Recommended PCB cross section 16 mm².

GENERAL DATA

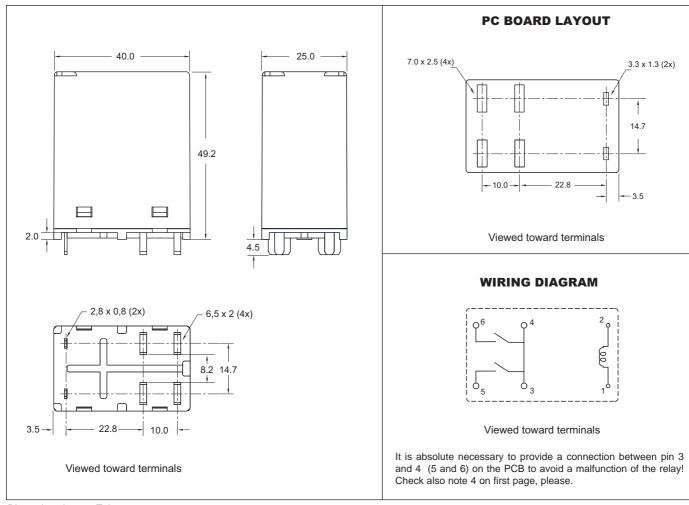
Life Expectancy Mechanical Electrical	Minimum operations 1 x 10 ⁵ 3 x 10 ⁴ at 30 A 250 VAC Res.		
Operate Time (typical)	40 ms at nominal coil voltage		
Release Time (typical)	5 ms at nominal coil voltage (with no coil suppression)		
Dielectric Strength (at sea level for 1 min.)	5000 Vrms coil to contact 2500 Vrms between open contacts		
Insulation Resistance	1000 megohms min. at 20°C 500 VDC 50% RH		
Insulation (according to DIN VDE 0110, IEC 60664-1)	C250 Overvoltage category: III Pollution degree: 3 Nominal voltage: 250 VAC		
Dropout	Greater than 5% of nominal coil voltage		
Ambient Temperature Operating	At nominal coil voltage -40°C (-40°F) to 85°C (185°F)		
Vibration	0.062" (1.5 mm) DA at 10-55 Hz		
Shock	10 g		
Enclosure	PA		
Terminals	Tinned copper alloy, P.C.		
Max. Solder Temp.	270°C (518°F)		
Max. Solder Time	5 seconds		
Weight	105 grams		
Packing unit in pcs	10 per inner carton / 100 per carton box		

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RELAY ORDERING DATA

COIL SPECIFICATIONS - SPST (1 FORM A)							
Nominal Coil VDC	Must Operate VDC	Min. Holding VDC	Max. Continuous VDC	Coil Resistance Ohm ± 10%	ORDER NUMBER		
12	9.00	4.0	24.0	300	AZSR180-1AE-12D		
24	18.00	8.0	48.0	1200	AZSR180-1AE-24D		

MECHANICAL DATA



Dimensions in mm. Tolerance: ± .25 mm