# 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
- Reinforced insulation, EN 60730-1 (VDE 0631, part 1), EN 60335-1 (VDE 0700, part 1)
- UL, CUR intended
- VDE intended

# **RoHS** compliant!



#### **CONTACTS**

Arrangement	SPST (1 Form A)		
Ratings	Resistive load:		
	Max. switched power: Max. switched current: Max. continuous current: Max. switched voltage:  * Note: If switching voltage is special precautions melease contact the face	ust be taken.	
Rated Load	80 A at 277 VAC, resistive		
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 mm .

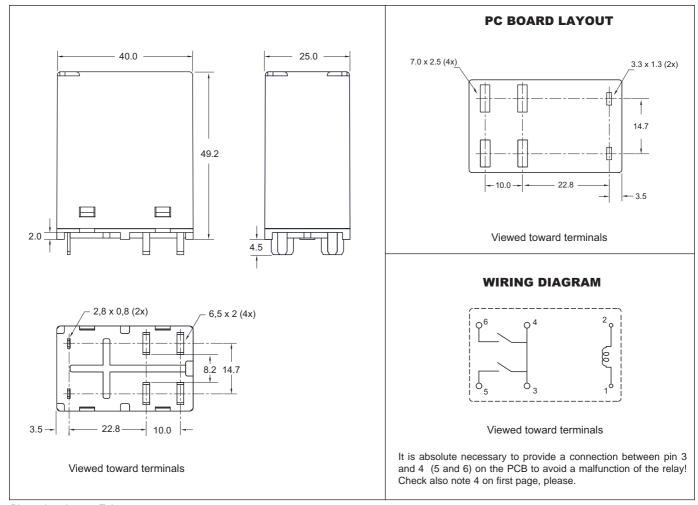
## **GENERAL DATA**

Life Expectancy Mechanical Electrical	Minimum operations 1 x 10 <sup>5</sup> 3 x 10 <sup>4</sup> 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	P.B.T. polyester		
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		

#### **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:  $\pm .25$  mm