

HALF SIZE CRYSTAL CAN RELAY 2 AMPERE DPDT AC COIL

Series AK

Product Description

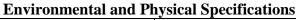
This standard half size crystal can relay series, offer switching capability of low level signal up to 2 amperes under the most extreme environmental conditions.

The following construction features ensure the highest reliability in extreme environments:

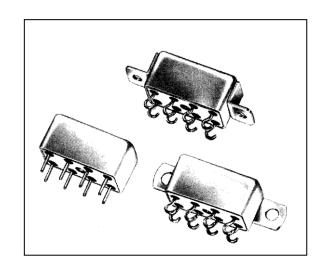
- All welded relay construction
- Cleaning and sealing techniques ensures maximum internal cleanliness
- Low level to 2 amperes switching
- 2 form C, DPDT contacts, special metal alloy with gold plating
- Frame, armature designs and force / mass ratio provides exceptional immunity to shock and vibration
- AC Coil 400 Hz.

Series Type

- **AK** 2 form C, DPDT with internal bridge diode, for AC operation

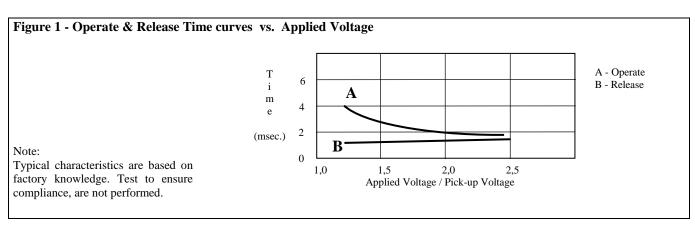


Temperature (Ambient)	- 65°C to + 125°C		
Shock	100 g, 6 ms.		
Vibration (sinusoidal)	20 g, 10 to 2000 Hz		
Acceleration	50 g		
Sealing	All welded, Hermetic		
Weight	0,53 oz. (15,0 grams) max.		



Electrical Characteristics (over the Temperature range. Unless otherwise noted)

Coil Data	See Typical Characteristics chart					
Contact Rating	Type Load	Contact Load	Cycles min.			
	Low Level	10 mA / 30 mV	1.000.000			
(Note: All ratings with grounded	Resistive	2 A / 28 Vdc	100.000			
case)		1 A / 115Vac, 400 Hz	100.000			
		0,3 A / 115 Vac, 60 Hz	100.000			
	Overload	4 A / 28 Vdc	100			
	Inductive	0,75 A / 28 Vdc (200 mH)	100.000			
Contact Resistance	0.05Ω max. initial					
Operate Time	4,0 ms. max. at 25°C					
Release Time	3,0 ms. max. at 25°C					
Contact Bounce	3,0 ms. max. at 25°C					
Dielectric Strength	1.000 Vrms min., 60 Hz, all points, 500 Vrms min. between open contacts and coil to case, at sea level					
Insulation Resistance	$1.000 \text{ M}\Omega$ min. all points at 500 Vdc					
Intercontact Capacitance	2,5 pF between contacts					
Sensitivity	250 mW at pick-up, 660 mW typical at nominal rated coil voltage, at 25 °C					



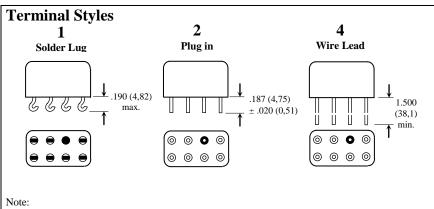


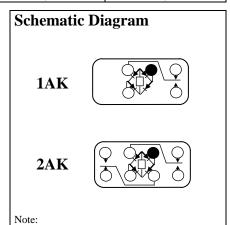
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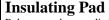
Typical Characteristics

Voltage	Coil Voltage		Coil Resistance	Pick-up Vac 400Hz	Drop-out Vac 400Hz
Code	Nominal	Max.	± 10% at 25°C	Max. at 25°C	Min. at 25°C
106	6,0	7,2	47	4,5	0,25
109	9,0	10,8	100	6,0	0,35
110	10,0	13,0	218	6,5	0,45
112	12,0	14,4	218	9,5	0,65
126	26,5	32,0	1500	18,5	1,0





- Dimensions are shown in inches (millimetres)
- Terminal spacing is .200 (5,08). Terminal diameter is .030 (0,76) + .003 (0,08) .002 (0,05)



Relays can be supplied with a insulating pad epoxied to the relay header, to prevent the possible shorting of printed circuit board land lines and to facilitate circuit board cleaning. To order relay with pad add. "P" to Part Number. Example: 2AK-2A-126 P

- Schematics are viewed from terminals

