GENERAL PURPOSE RELAYS



c3controls General Purpose Relays are guick and economical to install, and are available in a variety of base configurations. Our relays come with AC and DC coils for use in multiple applications and are 100% tested to ensure optimal performance in every specification. We even offer hermetically sealed relays for hazardous locations.



FEATURES AND BENEFITS

Multiple Styles

• Our General Purpose Relays are available in many different styles, such as Octal Base, Square Base, Flange Mounted, Miniature, and Hermetically Sealed.

Quick Identification

• Tape wound coils are marked with the coil voltage and optional indicating light are color coded, red for AC and green for DC.

Convenient Customization

• Pin and blade terminal styles are interchangeable with other commonly available relays.

Time Savings

· Optional mechanical actuator and indicating light for checking the control circuit operation without energizing the relay.

Environmentally Safe

· AgNi contacts are cadmium free.

Power Savings

• Low coil consumption to minimize transformer and power supply requirements.

Transparent Housing

• Provides the ability to visually monitor switching operations and contact condition.

Wide Range of Specifications

• Pole combinations available in SPDT, DPDT, 3PDT, 4PDT with a carrying current rating 5A-25A.

ADVANTAGES

Hermetically Sealed

- Suitable for use in Class 1, Division 2 Group A, B, C and D, and Zone 2, Group IIA, IIB, and IIC Hazardous Locations.
- Hermetically sealed metal enclosure with a temperature code rating of T4A.
- · Vacuum baked and dry nitrogen filled provides a clean and dry atmosphere for contacts.

APPLICATIONS

Our General Purpose Relays are ideal for use in a wide variety of control logic applications:

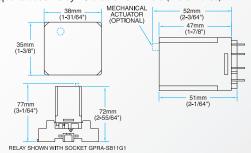
- Logic switching to sequentially control the operation of devices in a control circuit.
- Interposing enables the energy in a high-power circuit to be switched by a low-power control signal.
- Interlocking prevents one part of a control circuit from energizing while another part is energized.
- Load switching turns on and off lights, solenoids, small motors, and heating elements.
- Electrically isolating solid-state devices from the load they control.
- Master control to turn power on or off to an entire control circuit.

SPECIFICATIONS

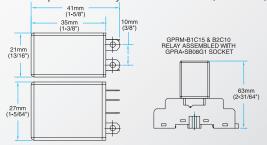
ITEM SPECIFICATION	UNIT	RANGE	
POLE COMBINATION	01111	SPDT, DPDT, 3PDT, 4PDT	
Contact Resistance	mΩ	50 - 100	
Dielectric Strength (Coil to Contact)	AC V (50/60 Hz - 1 Min.)	1000 - 2000 V	
	,	500 - 1250 V	
Dielectric Strength (Between Contacts)	AC V (50/60 Hz - 1 Min.)	100	
Insulation Resistance (500 VDC) Max. Switching (ON/OFF) Mechanical	mΩ (Min.)	240 - 300	
	Oper./Min.	6 - 30	
Max. Switching (ON/OFF) Electrical	Oper./Min.	5M - 50M	
Life Expectancy - Mechanical Life Expectancy - Elect. (@120 V Resistive)	Oper./Min.	100K - 500K	
Vibration: Endurance (Double Amplitude)	Oper./Min. 1.0 - 1.5mm	10 - 55 Hz	
· · · · · · · · · · · · · · · · · · ·			
Vibration: Error Ops. (Double Amplitude)	1.0 - 1.5mm	10 - 55 Hz	
Shock: Endurance / Error Operations	G Min.	50 - 100 / 10	
Coil Operate Time (Pick-Up)	mSec. (Max.)	13 - 25	
Coil Release Time (Drop Out)	mSec. (Max.)	6 - 25	
CONTACT RATING		_	
Rated Carrying Current		5 - 25 A	
Max. Allowable Voltage		240 - 600 VAC, 28 - 120 VDC	
Capacity: Resistive Load	P.F. = 1.0	240 VAC {5 - 25 A} 120 VAC {5 - 25 A} 24 VDC {12 A} 28 VDC {5 - 25 A} 30 VDC {5 A}	
Inductive Loads	P.F. = 0.4 (L/R = 7mSec.)	240 VAC {3 - 15 A} 120 VAC {2 - 25 A} 24 VDC {7 A} 28 VDC {2 - 25 A} 30 VDC {2 A}	
Motor Loads	120 VAC	1/3, 1/2, 3/4 HP	
	240 VAC	1/2, 1 HP	
Min. Recommended Load		10 VDC - 10mA, 100mA 5VDC - 100mA	
COIL SPECIFICATIONS (@ 20° (C)		
NOMINAL COIL VOLTAGE (VOLTS)	POWER CONSUMPTION	OPERATING VOLTAGE	
24 VAC, 120 VAC, 240 VAC (@60 Hz)	1.0 - 2.8 VA	80 - 110%	
24 VDC, 48 VDC, 110 VDC	0.8 - 1.5 W	75 - 110%	
ENVIRONMENTAL & PHYSICA	PARAMETERS		
Operating Ambient Temperature	-45° C to +70° C (-49° C to +158° F) Assumes a DRY environment - Enclosed		
Operating Humidity (Recommended)	35% to 85% RH		
Unit Weight	24g (0.9 oz.) to 130g (4.6 oz.)		
Relay and Socket Dimensions	Refer to www.c3controls.com		
MATERIALS & CONSTRUCTION	l .		
Contacts		AgNi Alloy	
Plated Brass Terminations	Cadmium Free		
Solder Connections	Lead Free		
Moldings	Thermoplastic & Thermoset		
RELAY SOCKET	memo	olastic & memoset	
	C. C.	ar DIN Dail Mauri	
	Surface or DIN Rail Mount		
Type	DI 1 2	Phosphor Bronze Nickel Plated Steel	
Current Carrying Members			
	IP20 or Open Style	, Screw w/captive wire clamps 5A, 300 - 600 VAC	

DIMENSIONS

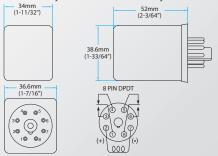
Square Base Relay w/ Blade Terminals (2 & 3 Poles)



Miniature Square Base Relay w/ Blade Terminals (1 & 2 Poles)



Hermetically Sealed Octal Base Relay w/ Pin Terminals (2 & 3 Poles)



CERTIFICATIONS

Conformity to Standards: GENERAL PURPOSE RELAYS

GENERAL PURPOSE RELAYS UL 508

CSA C22.2 No. 14 IEC 60947-1, 60947-4-1, 60947-5-1

HERMETICALLY SEALED RELAYS UL 508, 1604

CSA C22.2 No. 14, 213 IEC 60947-1, 60947-4-1

SOCKETS UL 508 CSA C22.2 No. 14 IEC 60947-1

Certifications:

- UL File #: E236197 (Guide NLDX2, NLDX8); E224085 (Guide NRNT2)
- CE Marked (per EU Low Voltage Directive 2006/95/EC and RoHS Directive 2011/65/EU)
- UL File #: E243998 (Guide NPKR, NPKR2, NPKR7, NPKR8)
- CSA File #: 227135
- CE Marked (per EU Low Voltage Directive 2006/95/EC and RoHS Directive 2011/65/EU)
- UL File #: E236196 (Guide SWIV2, SWIV8)
- CE Marked (per EU Low Voltage Directive 2006/95/EC and RoHS Directive 2011/65/EU)



Visit c3controls.com to download product certifications.









For complete ratings and detailed specifications visit www.c3controls.com.













