GENERAL PURPOSE RELAYS



Section 26

c3controls offers a full line of General Purpose Relays ("plug-in" relays), perfect for your control logic applications. Quick and economical to install, our relays allow for easy maintenance and assembly, and come in a variety of base configurations.



Octal Base w/Pin	4
Square Base w/Blade	6
Flange Mounted w/Blade	10
Miniature Square w/Blade	12
Pin & Blade Sockets	20
Retainer Clips	22
Dimensions	23

PROVEN







Conformity to Standards: GENERAL PURPOSE RELAYS

UL 508 IEC 60947-1, 60947-4-1, 60947-5-1

SOCKETS

UL 508 IEC 60947-1

Certifications:

CE Marked (per EU Low Voltage Directive 2006/95/EC and

UL File #: E236196 (Guide SWIV2, SWIV8)

CE Marked (per EU Low Voltage Directive 2006/95/EC and RoHS Directive 2011/65/EU)



GENERAL PURPOSE RELAYS

Every c3controls product is designed and manufactured to meet the needs of the machine builder, including our comprehensive line of General Purpose Relays. Check out all the features of our Series GR below!

QUICK AND ECONOMICAL—PI	ERFECT FOR ALL YOUR CONTROL LOGIC APPLICATIONS.
✓ Proven	Our general purpose relays meet UL, CSA and IEC standards requirements making them suitable for use in global applications.
✓ Multiple Styles	Our line of General Purpose Relays are available in Octal Base, Square Base, Flange Mounted, and Miniature.
✓ Convenient Customization	Pin and blade terminal styles are interchangeable with other commonly available relays.
√ Easy Reference	Schematic diagrams and terminal markings are located right on the relay for easy reference during installation.
✓ Power Savings	Low coil consumption minimizes transformer and power supply requirements.
√ Transparent Housing	Allows you to see switching operations and the condition of the contacts.
✓ Wide Range of Specifications	Pole combinations are available in SPDT, DPDT, 3PDT, 4PDT with a carrying current rating of 5A-25A.
✓ Environmentally Safe	Our AgNi contacts are cadmium free and environmentally friendly.
✓ Limited Lifetime Warranty*	Every product is backed by our limited lifetime warranty—unmatched in the industry—bringing you quality components that perform in the most demanding applications.
✓ Guaranteed Same-Day Shipping*	Product availability reduces inventory, and improves cash-flow—saving you money. With c3controls any order for standard catalog items received by 6:00pm ET is guaranteed to ship same-day.
√ Advantage Pricing	Our approach to product development, manufacturing, and focus on servicing the OEM and Electrical Equipment Builder reduces cost. The result—the best value in the industry.

^{*}See c3controls Terms & Conditions

For years, c3controls has helped us meet the rigorous specifications for quality and performance on all of our systems, while also providing us superior service and delivery.

Brandon Durar, President · JonRie InterTech, LLC

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Square Base Relay with Blade Terminals



Octal Base Relay with Pin Terminals



Miniature Slim Line Square Base Relay with Blade Terminals



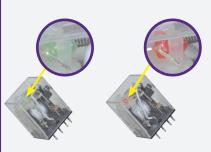
UNIQUE PRODUCT LINE FEATURES

MECHANICAL ACTUATOR



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

QUICK IDENTIFICATION



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

FLANGE MOUNTED RELAY



Flange mounting eliminates the need for a socket resulting in lower installation costs.

FIND IT FAST

General Purpose Relays



- Certifications
- Specifications
- Dimension Drawings
- Installation Instructions
- Easy to Buy

www.c3controls.com



OCTAL BASE RELAYS WITH PIN TERMINALS

- DPDT and 3PDT for control circuit application flexibility.
- 10A, DPDT and 10A, 3PDT.
- AC and DC coils.
- Pin terminals are interchangeable with other commonly available relays.
- Tape wound coils are marked with the coil voltage for easy identification.
- AgNi contacts, environmentally friendly cadmium free.
- 100% tested to ensure performance to specification.
- Mechanical actuator provided as standard for checking the control circuit operation without energizing the relay.
- Optional indicating light (red for AC, green for DC) to easily determine the relay status.
- Schematic diagram and terminal markings on the relay for easy reference during installation.
- Low coil consumption to minimize transformer and power supply requirements.
- cURus and CE for acceptance in global applications.
- Transparent housing to visually monitor switching operations and contact condition.

Simply pick the code number from each of the sections below and combine them to build your part number.

Octal Base Relay w/Pin Terminals



Example: To build one of our most popular Relays, the part number would be GPRS-P + II + III + IV or GPRS-P2C10D-1

	I. RELAY TYPE	
CODE	DESCRIPTION	LIST
GPRS-P	General Purpose Relay w/Pin	\$14.00

II. POLES & CURRENT RATING

CODE	DESCRIPTION	LIST
2C10	DPDT, 10A (8 Pin)	_
3C10	3PDT, 10A (11 Pin)	\$ 1.60
3C10	3PDT, 10A (11 Pin)	\$ 1.60

	III. COIL VOLTAGES
CODE	DESCRIPTION
С	24V AC
F	240V AC
ZC	24V DC
ZJ	48V DC
ZD	110V DC

IV. ACTUATOR OPTIONS

CODE DESCRIPTION LIST

Mechanical Actuator (included) —

Light & Mechanical Actuator \$2.00

Relays available in convenient multi-packs, consult factory for details.

*NOTE: All combinations may not be available. Please consult factory for details.

	COMPATIBLE SOCKETS
RELAY TYPE	COMPATIBLE SOCKETS
GPRS-P2C10**	GPRA-SP08G1 with IP20 Guarded Terminals or GPRA-SP08U1 with Open Style Terminals
GPRS-P3C10**	GPRA-SP11G1 with IP20 Guarded Terminals or GPRA-SP11U1 with Open Style Terminals
NOTE: **Represer	nts the Coil Voltage Code. Refer to Chart III Coil Voltage above.
See page 24 for so	ocket information.





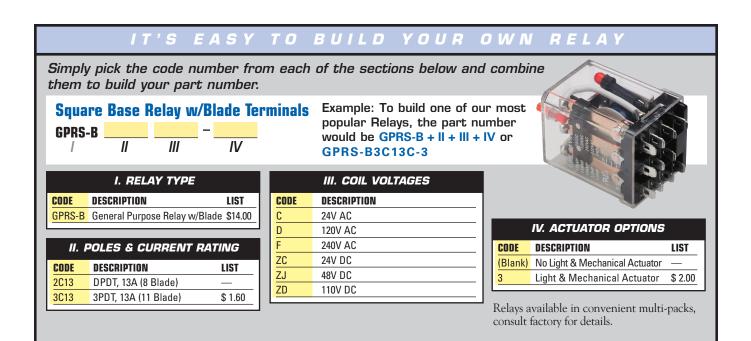
	OCTAL BASI	E RELAYS WITH P	IN TERMINAL	.s			
	UNI	TS					
ELECTRICAL RATINGS							
POLE COMBINATION			DP	DT	31	PDT	
Contact Resistance	m	Ω	50		50		
Dielectric Strength (Coil to Contact)	AC Volts (50/60 HZ - 1 Minute)		1000 V		1000 V		
Dielectric Strength (Between Contacts)	AC Volts (50/60 HZ - 1 Minute)		1000 V		1000 V		
Insulation Resistance (500 VDC)	ΜΩ [Min.]	100		100		
Max. Switching (ON/OFF) Mechanical	Oper	:/Min.	240		240		
Max. Switching (ON/OFF) Electrical	Oper./Min.		30		30		
Life Expectancy - Mechanical	Operations [Min]		10M		10M		
Life Expectancy - Elect (@120 V Resistive)	Operation	ons [Min]	100	100K		100K	
Vibration: Endurance	1.5 mm (Doub	le Amplitude)	10 ~ !	55 Hz	10 ~	55 Hz	
Vibration: Error Operation	1.5 mm (Doub	le Amplitude)	10 ~ !	55 Hz	10 ~	55 Hz	
Shock: Endurance	G N	Min.	50)	!	50	
Shock: Error Operation	G I	Min.	10			10	
Coil Operate Time (Pick-Up)	mSec	(Max.)	25	j	:	25	
Coil Release Time (Drop Out)	mSec	(Max.)	25	5		25	
CONTACT RATING							
Rated Carrying Current			10	A	10	0 A	
Max. Allowable Voltage			240	VAC	240 VAC		
			120	VDC	120 VDC		
Capacity: Resistive Load	P.F. = 1.0		240 VAC - 10 A		240 VAC - 10 A		
			120 VAC	C - 10 A 120 VA		C - 10 A	
			28 VDC - 10 A		28 VDC - 10 A		
Inductive Loads	P.F. = 0.4 [L/R = 7 mSec.]		240 VAC - 7 A		240 VAC - 7 A		
			120 VAC - 10 A		120 VAC - 10 A		
			28 VD0	C - 8 A	28 VDC - 8 A		
Minimum Recommended Load			10 VDC - 10 mA		10 VDC	- 10 mA	
COIL SPECIFICATIONS (@ 20° C) —							
(DPDT & 3PDT)		T			T		
NOMINAL COIL VOLTAGE (VOLTS)	Nominal Current (mA)	Coil Resistance (+/- 10% OHMS)	Power Consumption	Pick-Up Voltage	Drop-Out Voltage	Max. Allowed Voltage	
24 VAC (@ 60 HZ)	88	91	1.9 ~ 2.8 VA	80% Max.	30% Min.	110%	
240 VAC (@ 60 HZ)	11	7,100	1.9 ~ 2.8 VA	Rated	Rated	Rated	
24 VDC	56	430	1.5 W	80% Max.	10% Min.	110%	
48 VDC	29.5	1,630	1.5 W	Rated	Rated	Rated	
110 VDC	16.2	6,800	1.5 W			1	
ENVIRONMENTAL/PHYSICAL PARAMETERS							
Operating Ambient Temperature	-	10° to +40° C (14° to +1			t — Enclosed		
Operating Humidity		35% 1	to 85% RH (Recom	ımended)			
Jnit Weight (2 ~ 3 Pole Relay)			85g (3oz.)				
Relay and Socket Dimensions		See outlin	e drawings on pa	ges 27 - 32			
MATERIALS & CONSTRUCTION							
Contacts			AgNi Alloy				
Plated Brass Terminations			Cadmium Fre	e			
Solder Connections	Lead Free						
Moldings	Thermoplastic and Thermoset						
ROHS COMPLIANCE	For P	oHS compliance docu	mentation by prod	uct, refer to ww	w.c3controls.con	1	



SQUARE BASE RELAYS WITH BLADE TERMINALS

- DPDT and 3PDT for control circuit application flexibility.
- 13A, DPDT and 13A, 3PDT.
- 1/3HP @ 120V AC, 1/2HP @ 240V AC.
- AC and DC coils.
- Blade terminals (3/16") are interchangeable with other commonly available relays.
- Tape wound coils are marked with the coil voltage for easy identification.
- AgNi contacts, environmentally friendly cadmium free.
- cURus and CE for acceptance in global applications.

- Optional mechanical actuator and indicating light (red for AC and green for DC) for checking the control circuit operation without energizing the relay and to easily determine the relay status.
- Schematic diagram and terminal markings on the relay for easy reference during installation.
- Low coil consumption to minimize transformer and power supply requirements.
- Transparent housing to visually monitor switching operations and contact condition.
- 100% tested to ensure performance to specification.



	COMPATIBLE SOCKETS
RELAY TYPE	COMPATIBLE SOCKETS
GPRS-B2C13**	GPRA-SB11G1 with IP20 Guarded Terminals or
GPRS-B3C13**	GPRA-SB11U1 with Open Style Terminals
NOTE: **Represent	ts the Coil Voltage Code. Refer to Chart III Coil Voltage above.
See page 25 for so	cket information.



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Square Base w/Blade Terminals / GENERAL PURPOSE



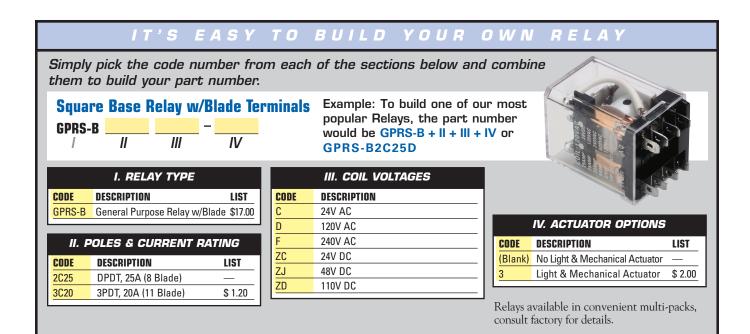
	SQUARE BASE RELAY WITH E	SLADE TERMIN	ALS		
	UNITS				
ELECTRICAL RATINGS					
POLE COMBINATION		DF	TOT	31	PDT
Contact Resistance	mΩ		i0	!	50
Dielectric Strength (Coil to Contact)	AC Volts (50/60 HZ - 1 Minute)	150	0 V	15	00 V
Dielectric Strength (Between Contacts)	AC Volts (50/60 HZ - 1 Minute)	100	0 V	10	00 V
Insulation Resistance (500 VDC)	MΩ [Min.]	1	00	1	00
Max. Switching (ON/OFF) Mechanical	Oper./Min.	3	00	3	800
Max. Switching (ON/OFF) Electrical	Oper./Min.	3	30	;	30
Life Expectancy - Mechanical	Operations [Min]		M		0M
Life Expectancy - Elect (@120 V Resistive)	Operations [Min]		0K	100K	
Vibration: Endurance	1.5 mm (Double Amplitude)	10 ~	55 Hz	10 ~ 55 Hz	
Vibration: Error Operation	1.5 mm (Double Amplitude)		55 Hz		√ 55 Hz
Shock: Endurance	G Min.		50		50
Shock: Error Operation	G Min.		0		10
Coil Operate Time (Pick-Up)	mSec (Max.)		5		15
Coil Release Time (Drop Out)	mSec (Max.)	1	0		10
CONTACT RATING			_	Ι	
Rated Carrying Current			S A		3 A
Max. Allowable Voltage			VAC		VAC
	DF 10		VDC		VDC
Capacity: Resistive Load	P.F. = 1.0		C - 10 A	1	C - 10 A
		-	C - 13 A		.C - 13 A
1.1.2.1.1	DE 04[1/D 7 0 1		C - 13 A	<u> </u>	C - 13 A
Inductive Loads	P.F. = 0.4 [L/R = 7 mSec.]	240 VA		_	AC - 7 A
			C - 10 A	1	.C - 10 A
Motor Loads	120 VAC		C - 8 A HP	28 VDC - 8 A 1/3 HP	
Wiotor Loads	240 VAC		HP		one 2 HP
Minimum Recommended Load	2.0 0.0		- 10 mA	10 VDC - 10 mA	
COIL SPECIFICATIONS (@ 20° C) — (DPDT)					
		Power	Pick-Up	Drop-Out	Max. Allowed
NOMINAL COIL VOLTAGE (VOLTS)	Coil Resistance (+/- 10% OHMS)	Consumption	Voltage	Voltage	Voltage
24 VAC (@ 60 HZ)	85	2.5 VA	85% Max.	30% Min.	110%
120 VAC (@ 60 HZ)	2,250	2.5 VA	Rated	Rated	Rated
240 VAC (@ 60 HZ)	9,110	2.5 VA			Hatou
24 VDC	472	1.5 W	80% Max.		
24 VDC 48 VDC	472 1,800	1.5 W 1.5 W	80% Max. Rated	10% Min. Rated	110% Rated
24 VDC 48 VDC 110 VDC	472	1.5 W		10% Min.	110%
24 VDC 48 VDC	472 1,800	1.5 W 1.5 W 1.5 W	Rated	10% Min. Rated	110% Rated
24 VDC 48 VDC 110 VDC COIL SPECIFICATIONS (@ 20° C) — (3PDT)	472 1,800 10,000	1.5 W 1.5 W 1.5 W	- Rated Pick-Up	10% Min. Rated	110% Rated
24 VDC 48 VDC 110 VDC COIL SPECIFICATIONS (@ 20° C) — (3PDT) NOMINAL COIL VOLTAGE (VOLTS)	472 1,800 10,000 Coil Resistance (+/- 10% OHMS)	1.5 W 1.5 W 1.5 W Power Consumption	Rated	10% Min. Rated	110% Rated
24 VDC 48 VDC 110 VDC COIL SPECIFICATIONS (@ 20° C) — (3PDT) NOMINAL COIL VOLTAGE (VOLTS) 24 VAC (@ 60 HZ)	472 1,800 10,000 Coil Resistance (+/- 10% OHMS)	1.5 W 1.5 W 1.5 W Power Consumption 2.75 VA	Pick-Up Voltage 85% Max.	10% Min. Rated Drop-Out Voltage 30% Min.	110% Rated Max. Allowed Voltage 110%
24 VDC 48 VDC 110 VDC COIL SPECIFICATIONS (@ 20° C) — (3PDT) NOMINAL COIL VOLTAGE (VOLTS) 24 VAC (@ 60 HZ) 120 VAC (@ 60 HZ)	472 1,800 10,000 Coil Resistance (+/- 10% OHMS) 72 1,700	1.5 W 1.5 W 1.5 W Power Consumption 2.75 VA 2.75 VA	Rated Pick-Up Voltage	10% Min. Rated Drop-Out Voltage	110% Rated Max. Allowed Voltage
24 VDC 48 VDC 110 VDC COIL SPECIFICATIONS (@ 20° C) — (3PDT) NOMINAL COIL VOLTAGE (VOLTS) 24 VAC (@ 60 HZ)	472 1,800 10,000 Coil Resistance (+/- 10% OHMS)	1.5 W 1.5 W 1.5 W Power Consumption 2.75 VA	Pick-Up Voltage 85% Max.	10% Min. Rated Drop-Out Voltage 30% Min.	110% Rated Max. Allowed Voltage 110%
24 VDC 48 VDC 110 VDC COIL SPECIFICATIONS (@ 20° C) — (3PDT) NOMINAL COIL VOLTAGE (VOLTS) 24 VAC (@ 60 HZ) 120 VAC (@ 60 HZ) 240 VAC (@ 60 HZ)	472 1,800 10,000 Coil Resistance (+/- 10% OHMS) 72 1,700 7,200 472	1.5 W 1.5 W 1.5 W Power Consumption 2.75 VA 2.75 VA 2.75 VA 1.5 W	Pick-Up Voltage 85% Max. Rated	10% Min. Rated Drop-Out Voltage 30% Min. Rated 10% Min.	110% Rated Max. Allowed Voltage 110% Rated
24 VDC 48 VDC 110 VDC COIL SPECIFICATIONS (@ 20° C) — (3PDT) NOMINAL COIL VOLTAGE (VOLTS) 24 VAC (@ 60 HZ) 120 VAC (@ 60 HZ) 240 VAC (@ 60 HZ) 24 VDC	472 1,800 10,000 Coil Resistance (+/- 10% OHMS) 72 1,700 7,200	1.5 W 1.5 W 1.5 W Power Consumption 2.75 VA 2.75 VA 2.75 VA	Pick-Up Voltage 85% Max. Rated	10% Min. Rated Drop-Out Voltage 30% Min. Rated	110% Rated Max. Allowed Voltage 110% Rated
24 VDC 48 VDC 110 VDC COIL SPECIFICATIONS (@ 20° C) — (3PDT) NOMINAL COIL VOLTAGE (VOLTS) 24 VAC (@ 60 HZ) 120 VAC (@ 60 HZ) 240 VAC (@ 60 HZ) 24 VDC 48 VDC	472 1,800 10,000 Coil Resistance (+/- 10% OHMS) 72 1,700 7,200 472 1,800	1.5 W 1.5 W 1.5 W Power Consumption 2.75 VA 2.75 VA 2.75 VA 1.5 W	Pick-Up Voltage 85% Max. Rated	10% Min. Rated Drop-Out Voltage 30% Min. Rated 10% Min.	110% Rated Max. Allowed Voltage 110% Rated
24 VDC 48 VDC 110 VDC COIL SPECIFICATIONS (@ 20° C) — (3PDT) NOMINAL COIL VOLTAGE (VOLTS) 24 VAC (@ 60 HZ) 120 VAC (@ 60 HZ) 240 VAC (@ 60 HZ) 24 VDC 48 VDC 110 VDC	472 1,800 10,000 Coil Resistance (+/- 10% OHMS) 72 1,700 7,200 472 1,800	1.5 W 1.5 W 1.5 W Power Consumption 2.75 VA 2.75 VA 2.75 VA 1.5 W 1.5 W	Pick-Up Voltage 85% Max. Rated 80% Max. Rated	10% Min. Rated Drop-Out Voltage 30% Min. Rated 10% Min. Rated	110% Rated Max. Allowed Voltage 110% Rated
24 VDC 48 VDC 110 VDC COIL SPECIFICATIONS (@ 20° C) — (3PDT) NOMINAL COIL VOLTAGE (VOLTS) 24 VAC (@ 60 HZ) 120 VAC (@ 60 HZ) 240 VAC (@ 60 HZ) 24 VDC 48 VDC 110 VDC ENVIRONMENTAL/PHYSICAL PARAMETERS	472 1,800 10,000 Coil Resistance (+/- 10% OHMS) 72 1,700 7,200 472 1,800 10,000	1.5 W 1.5 W 1.5 W Power Consumption 2.75 VA 2.75 VA 2.75 VA 1.5 W 1.5 W	Pick-Up Voltage 85% Max. Rated 80% Max. Rated	10% Min. Rated Drop-Out Voltage 30% Min. Rated 10% Min. Rated	110% Rated Max. Allowed Voltage 110% Rated
24 VDC 48 VDC 110 VDC COIL SPECIFICATIONS (@ 20° C) — (3PDT) NOMINAL COIL VOLTAGE (VOLTS) 24 VAC (@ 60 HZ) 120 VAC (@ 60 HZ) 240 VAC (@ 60 HZ) 24 VDC 48 VDC 110 VDC ENVIRONMENTAL/PHYSICAL PARAMETERS Operating Ambient Temperature	472 1,800 10,000 Coil Resistance (+/- 10% OHMS) 72 1,700 7,200 472 1,800 10,000	1.5 W 1.5 W 1.5 W Power Consumption 2.75 VA 2.75 VA 1.5 W 1.5 W 1.5 W 158° F) Assumes a	Pick-Up Voltage 85% Max. Rated 80% Max. Rated	10% Min. Rated Drop-Out Voltage 30% Min. Rated 10% Min. Rated	110% Rated Max. Allowed Voltage 110% Rated
24 VDC 48 VDC 110 VDC COIL SPECIFICATIONS (@ 20° C) — (3PDT) NOMINAL COIL VOLTAGE (VOLTS) 24 VAC (@ 60 HZ) 120 VAC (@ 60 HZ) 240 VAC (@ 60 HZ) 24 VDC 48 VDC 110 VDC ENVIRONMENTAL/PHYSICAL PARAMETERS Operating Ambient Temperature Operating Humidity	472 1,800 10,000 Coil Resistance (+/- 10% OHMS) 72 1,700 7,200 472 1,800 10,000 -45° to +70° C (-49° to +	1.5 W 1.5 W 1.5 W Power Consumption 2.75 VA 2.75 VA 2.75 VA 1.5 W 1.5 W 1.5 W 1.5 W	Pick-Up Voltage - 85% Max Rated - 80% Max Rated - BOW Max Rated	10% Min. Rated Drop-Out Voltage 30% Min. Rated 10% Min. Rated	110% Rated Max. Allowed Voltage 110% Rated
24 VDC 48 VDC 110 VDC COIL SPECIFICATIONS (@ 20° C) — (3PDT) NOMINAL COIL VOLTAGE (VOLTS) 24 VAC (@ 60 HZ) 120 VAC (@ 60 HZ) 240 VAC (@ 60 HZ) 24 VDC 48 VDC 110 VDC ENVIRONMENTAL/PHYSICAL PARAMETERS Operating Ambient Temperature Operating Humidity Unit Weight (2 ~ 3 Pole Relay)	472 1,800 10,000 Coil Resistance (+/- 10% OHMS) 72 1,700 7,200 472 1,800 10,000 -45° to +70° C (-49° to +	1.5 W 1.5 W 1.5 W Power Consumption 2.75 VA 2.75 VA 2.75 VA 1.5 W 1.5 W 1.5 W 1.5 W 1.9 W	Pick-Up Voltage - 85% Max Rated - 80% Max Rated - BOW Max Rated	10% Min. Rated Drop-Out Voltage 30% Min. Rated 10% Min. Rated	110% Rated Max. Allowed Voltage 110% Rated
24 VDC 48 VDC 110 VDC COIL SPECIFICATIONS (@ 20° C) — (3PDT) NOMINAL COIL VOLTAGE (VOLTS) 24 VAC (@ 60 HZ) 120 VAC (@ 60 HZ) 240 VAC (@ 60 HZ) 24 VDC 48 VDC 110 VDC ENVIRONMENTAL/PHYSICAL PARAMETERS Operating Ambient Temperature Operating Humidity Unit Weight (2 ~ 3 Pole Relay) Relay and Socket Dimensions	472 1,800 10,000 Coil Resistance (+/- 10% OHMS) 72 1,700 7,200 472 1,800 10,000 -45° to +70° C (-49° to +	1.5 W 1.5 W 1.5 W Power Consumption 2.75 VA 2.75 VA 2.75 VA 1.5 W 1.5 W 1.5 W 1.5 W 1.9 W	Pick-Up Voltage - 85% Max. Rated - 80% Max. Rated - Rated - Rated	10% Min. Rated Drop-Out Voltage 30% Min. Rated 10% Min. Rated	110% Rated Max. Allowed Voltage 110% Rated
24 VDC 48 VDC 110 VDC COIL SPECIFICATIONS (@ 20° C) — (3PDT) NOMINAL COIL VOLTAGE (VOLTS) 24 VAC (@ 60 HZ) 120 VAC (@ 60 HZ) 240 VAC (@ 60 HZ) 24 VDC 48 VDC 110 VDC ENVIRONMENTAL/PHYSICAL PARAMETERS Operating Ambient Temperature Operating Humidity Unit Weight (2 ~ 3 Pole Relay) Relay and Socket Dimensions MATERIALS & CONSTRUCTION	472 1,800 10,000 Coil Resistance (+/- 10% OHMS) 72 1,700 7,200 472 1,800 10,000 -45° to +70° C (-49° to +	1.5 W 1.5 W 1.5 W Power Consumption 2.75 VA 2.75 VA 2.75 VA 1.5 W 1.5 W 1.5 W 1.5 W 1.6 to 85% RH (Recorging 90g (3.2oz.)) dine drawings on positions.	Pick-Up Voltage - 85% Max. Rated - 80% Max. Rated - Rated - Rated	10% Min. Rated Drop-Out Voltage 30% Min. Rated 10% Min. Rated	110% Rated Max. Allowed Voltage 110% Rated
24 VDC 48 VDC 110 VDC COIL SPECIFICATIONS (@ 20° C) — (3PDT) NOMINAL COIL VOLTAGE (VOLTS) 24 VAC (@ 60 HZ) 120 VAC (@ 60 HZ) 240 VAC (@ 60 HZ) 24 VDC 48 VDC 110 VDC ENVIRONMENTAL/PHYSICAL PARAMETERS Operating Ambient Temperature Operating Humidity Unit Weight (2 ~ 3 Pole Relay) Relay and Socket Dimensions MATERIALS & CONSTRUCTION Contacts	472 1,800 10,000 Coil Resistance (+/- 10% OHMS) 72 1,700 7,200 472 1,800 10,000 -45° to +70° C (-49° to +	1.5 W 1.5 W 1.5 W Power Consumption 2.75 VA 2.75 VA 2.75 VA 1.5 W 1.5 W 1.5 W 1.5 W 1.6 to 85% RH (Recorgon 90g (3.2oz.) dine drawings on p.	Pick-Up Voltage 85% Max. Rated 80% Max. Rated DRY environmen nmended) ages 27 - 32	10% Min. Rated Drop-Out Voltage 30% Min. Rated 10% Min. Rated	110% Rated Max. Allowed Voltage 110% Rated
24 VDC 48 VDC 110 VDC COIL SPECIFICATIONS (@ 20° C) — (3PDT) NOMINAL COIL VOLTAGE (VOLTS) 24 VAC (@ 60 HZ) 120 VAC (@ 60 HZ) 240 VAC (@ 60 HZ) 24 VDC 48 VDC 110 VDC ENVIRONMENTAL/PHYSICAL PARAMETERS Operating Ambient Temperature Operating Humidity Unit Weight (2 ~ 3 Pole Relay) Relay and Socket Dimensions MATERIALS & CONSTRUCTION Contacts Plated Brass Terminations	472 1,800 10,000 Coil Resistance (+/- 10% OHMS) 72 1,700 7,200 472 1,800 10,000 -45° to +70° C (-49° to + 35° See out	1.5 W 1.5 W 1.5 W Power Consumption 2.75 VA 2.75 VA 2.75 VA 1.5 W 1.5 W 1.5 W 1.5 W 1.6 W 1.8 RH (Recorned of the Normal State	Pick-Up Voltage 85% Max. Rated 80% Max. Rated DRY environment of the model of th	10% Min. Rated Drop-Out Voltage 30% Min. Rated 10% Min. Rated	Max. Allowed Voltage 110% Rated 110% Rated



SQUARE BASE RELAYS WITH BLADE TERMINALS

- DPDT and 3PDT for control circuit application flexibility.
- 25A, DPDT and 20A, 3PDT.
- Maximum 1/2HP @ 120V AC, 1/2HP @ 240V AC.
- AC and DC coils.
- Blade terminals (3/16") are interchangeable with other commonly available relays.
- Tape wound coils are marked with the coil voltage for easy identification.
- AgNi contacts, environmentally friendly cadmium free.

- cURus and CE for acceptance in global applications.
- Optional mechanical actuator and indicating light (red for AC and green for DC) for checking the control circuit operation without energizing the relay and to easily determine the relay status.
- Low coil consumption to minimize transformer and power supply requirements.
- Transparent housing to visually monitor switching operations and contact condition.
- 100% tested to ensure performance to specification.



	COMPATIBLE SOCKETS
RELAY TYPE	COMPATIBLE SOCKETS
GPRS-B2C25**	GPRA-SB11G1 with IP20 Guarded Terminals or
GPRS-B3C20**	GPRA-SB11U1 with Open Style Terminals
NOTE: **Represents	the Coil Voltage Code. Refer to Chart III Coil Voltage above.
See page 25 for soci	ket information.



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	SQUARE BASE RELAYS WITH	BLADE TERMIN	VALS			
ELECTRICAL RATINGS	UNITS					
POLE COMBINATION		D.F.	DT	21	PDT	
Contact Resistance		5			וטי 50	
	mΩ AC Volts (50/60 HZ - 1 Minute)	150	~		50 00 V	
Dielectric Strength (Coil to Contact) Dielectric Strength (Between Contacts)	AC Voits (50/60 HZ - 1 Minute) AC Volts (50/60 HZ - 1 Minute)		0 V		00 V 00 V	
Insulation Resistance (500 VDC)	MΩ [Min.]			100		
Max. Switching (ON/OFF) Mechanical	Oper./Min.		100 240		40	
Max. Switching (ON/OFF) Electrical	Oper./Min.		10 10		30	
Life Expectancy - Mechanical	Operations [Min]	10)M	
Life Expectancy - Nectranical Life Expectancy - Elect (@120 V Resistive)	Operations [Min]		0K	100K		
Vibration: Endurance	1.5 mm (Double Amplitude)		55 Hz		55 Hz	
Vibration: Error Operation	1.5 mm (Double Amplitude)	10 ~			55 Hz	
Shock: Endurance	G Min.		0		50	
Shock: Error Operation	G Min.		0		10	
Coil Operate Time (Pick-Up)	mSec (Max.)		5		15	
Coil Release Time (Drop Out)	mSec (Max.)		0		10	
CONTACT RATING	moce (wax.)	'	<u> </u>		10	
Rated Carrying Current		2F	iΑ	21	D A	
Max. Allowable Voltage			VAC		VAC	
			VDC		VDC	
Capacity: Resistive Load	P.F. = 1.0		C - 25 A		C - 20 A	
		120 VA	C - 25 A		C - 20 A	
			C - 25 A		- 13 A	
Inductive Loads	P.F. = 0.4 [L/R = 7 mSec.]		C - 15 A	240 VAC - 15 A		
	.,	120 VA	120 VAC - 25 A		120 VAC - 20 A	
			C - 18 A		C - 13 A	
Motor Loads	120 VAC	3/4	HP	1/2 HP		
	240 VAC	1 1	HP	1/2 HP		
Minimum Recommended Load		100	mA	100) mA	
COIL SPECIFICATIONS (@ 20° C) — (DPDT)						
		Power	Pick-Up	Drop-Out	Max. Allowe	
NOMINAL COIL VOLTAGE (VOLTS)	Coil Resistance (+/- 10% OHMS)	Consumption	Voltage	Voltage	Voltage	
24 VAC (@ 60 HZ)	72	2.5 VA	85% Max.	30% Min.	110%	
120 VAC (@ 60 HZ)	1,700	2.5 VA	Rated	Rated	Rated	
240 VAC (@ 60 HZ)	7,200	2.5 VA				
24 VDC	472	1.5 W	75% Max.	10% Min.	110% Max	
48 VDC	1,800	1.5 W	Rated		Rated	
110 VDC	10,000	1.5 W				
COIL SPECIFICATIONS (@ 20° C) — (3PDT)						
	Coil Desistance (J. 100/ QUMC)	Power	Pick-Up	Drop-Out		
NOMINAL COIL VOLTAGE (VOLTS)	Coil Resistance (+/- 10% OHMS)	Consumption	Pick-Up Voltage	Drop-Out Voltage	Max. Allowe Voltage	
NOMINAL COIL VOLTAGE (VOLTS) 24 VAC (@ 60 HZ)	60	Consumption 2.75 VA	Voltage	Voltage	Voltage	
NOMINAL COIL VOLTAGE (VOLTS) 24 VAC (@ 60 HZ) 120 VAC (@ 60 HZ)	60 1,300	Consumption 2.75 VA 2.75 VA				
NOMINAL COIL VOLTAGE (VOLTS) 24 VAC (@ 60 HZ) 120 VAC (@ 60 HZ) 240 VAC (@ 60 HZ)	60 1,300 4,300	2.75 VA 2.75 VA 2.75 VA 2.75 VA	Voltage 85% Max.	Voltage 30% Min.	Voltage 110%	
NOMINAL COIL VOLTAGE (VOLTS) 24 VAC (@ 60 HZ) 120 VAC (@ 60 HZ) 240 VAC (@ 60 HZ) 24 VDC	60 1,300 4,300 340	2.75 VA 2.75 VA 2.75 VA 2.75 VA 1.5 W	Voltage 85% Max. Rated	Voltage 30% Min. Rated	Voltage 110% Rated	
NOMINAL COIL VOLTAGE (VOLTS) 24 VAC (@ 60 HZ) 120 VAC (@ 60 HZ) 240 VAC (@ 60 HZ) 24 VDC 48 VDC	60 1,300 4,300 340 1,360	2.75 VA 2.75 VA 2.75 VA 2.75 VA 1.5 W	Voltage 85% Max.	Voltage 30% Min.	Voltage 110% Rated	
NOMINAL COIL VOLTAGE (VOLTS) 24 VAC (@ 60 HZ) 120 VAC (@ 60 HZ) 240 VAC (@ 60 HZ) 24 VDC 48 VDC 110 VDC	60 1,300 4,300 340	2.75 VA 2.75 VA 2.75 VA 2.75 VA 1.5 W	Voltage 85% Max. Rated 75% Max.	Voltage 30% Min. Rated 10% Min.	Voltage 110% Rated 110% Max	
NOMINAL COIL VOLTAGE (VOLTS) 24 VAC (@ 60 HZ) 120 VAC (@ 60 HZ) 240 VAC (@ 60 HZ) 24 VDC 48 VDC 110 VDC ENVIRONMENTAL/PHYSICAL PARAMETERS	60 1,300 4,300 340 1,360 8,500	2.75 VA 2.75 VA 2.75 VA 2.75 VA 1.5 W 1.5 W	Voltage 85% Max. Rated 75% Max. Rated	Voltage 30% Min. Rated 10% Min. Rated	Voltage 110% Rated 110% Max	
NOMINAL COIL VOLTAGE (VOLTS) 24 VAC (@ 60 HZ) 120 VAC (@ 60 HZ) 240 VAC (@ 60 HZ) 24 VDC 48 VDC 110 VDC ENVIRONMENTAL/PHYSICAL PARAMETERS Operating Ambient Temperature	60 1,300 4,300 340 1,360 8,500	Consumption 2.75 VA 2.75 VA 2.75 VA 1.5 W 1.5 W 1.5 W	Voltage 85% Max. Rated 75% Max. Rated	Voltage 30% Min. Rated 10% Min. Rated	Voltage 110% Rated 110% Max	
NOMINAL COIL VOLTAGE (VOLTS) 24 VAC (@ 60 HZ) 120 VAC (@ 60 HZ) 240 VAC (@ 60 HZ) 24 VDC 48 VDC 110 VDC ENVIRONMENTAL/PHYSICAL PARAMETERS Operating Ambient Temperature Operating Humidity	60 1,300 4,300 340 1,360 8,500	Consumption 2.75 VA 2.75 VA 2.75 VA 1.5 W	Voltage 85% Max. Rated 75% Max. Rated	Voltage 30% Min. Rated 10% Min. Rated	Voltage 110% Rated 110% Max	
NOMINAL COIL VOLTAGE (VOLTS) 24 VAC (@ 60 HZ) 120 VAC (@ 60 HZ) 240 VAC (@ 60 HZ) 24 VDC 48 VDC 110 VDC ENVIRONMENTAL/PHYSICAL PARAMETERS Operating Ambient Temperature Operating Humidity Unit Weight (2 ~ 3 Pole Relay)	60 1,300 4,300 340 1,360 8,500 -45° to +70° C (-49° to +	Consumption 2.75 VA 2.75 VA 2.75 VA 1.5 W	Voltage 85% Max. Rated 75% Max. Rated DRY environment	Voltage 30% Min. Rated 10% Min. Rated	Voltage 110% Rated 110% Max	
NOMINAL COIL VOLTAGE (VOLTS) 24 VAC (@ 60 HZ) 120 VAC (@ 60 HZ) 240 VAC (@ 60 HZ) 24 VDC 48 VDC 110 VDC ENVIRONMENTAL/PHYSICAL PARAMETERS Operating Ambient Temperature Operating Humidity Unit Weight (2 ~ 3 Pole Relay) Relay and Socket Dimensions	60 1,300 4,300 340 1,360 8,500 -45° to +70° C (-49° to +	Consumption 2.75 VA 2.75 VA 2.75 VA 1.5 W	Voltage 85% Max. Rated 75% Max. Rated DRY environment	Voltage 30% Min. Rated 10% Min. Rated	Voltage 110% Rated 110% Max	
NOMINAL COIL VOLTAGE (VOLTS) 24 VAC (@ 60 HZ) 120 VAC (@ 60 HZ) 240 VAC (@ 60 HZ) 24 VDC 48 VDC 110 VDC ENVIRONMENTAL/PHYSICAL PARAMETERS Operating Ambient Temperature Operating Humidity Unit Weight (2 ~ 3 Pole Relay) Relay and Socket Dimensions MATERIALS & CONSTRUCTION	60 1,300 4,300 340 1,360 8,500 -45° to +70° C (-49° to +	Consumption 2.75 VA 2.75 VA 2.75 VA 1.5 W 1.5 W 1.5 W 1.5 W 1.5 W 1.6 W 1.9 W	Voltage 85% Max. Rated 75% Max. Rated DRY environmentumended)	Voltage 30% Min. Rated 10% Min. Rated	Voltage 110% Rated 110% Max	
NOMINAL COIL VOLTAGE (VOLTS) 24 VAC (@ 60 HZ) 120 VAC (@ 60 HZ) 240 VAC (@ 60 HZ) 24 VDC 48 VDC 110 VDC ENVIRONMENTAL/PHYSICAL PARAMETERS Operating Ambient Temperature Operating Humidity Unit Weight (2 ~ 3 Pole Relay) Relay and Socket Dimensions MATERIALS & CONSTRUCTION Contacts	60 1,300 4,300 340 1,360 8,500 -45° to +70° C (-49° to +	Consumption 2.75 VA 2.75 VA 2.75 VA 1.5 W 1.5 W 1.5 W 1.5 W 1.5 W 1.6 to 85% RH (Recom 90g (3.2oz.)	Voltage 85% Max. Rated 75% Max. Rated DRY environmentumended)	Voltage 30% Min. Rated 10% Min. Rated	Voltage 110% Rated 110% Max	
NOMINAL COIL VOLTAGE (VOLTS) 24 VAC (@ 60 HZ) 120 VAC (@ 60 HZ) 240 VAC (@ 60 HZ) 24 VDC 48 VDC 110 VDC ENVIRONMENTAL/PHYSICAL PARAMETERS Operating Ambient Temperature Operating Humidity Unit Weight (2 ~ 3 Pole Relay) Relay and Socket Dimensions MATERIALS & CONSTRUCTION Contacts Plated Brass Terminations	60 1,300 4,300 340 1,360 8,500 -45° to +70° C (-49° to +	Consumption 2.75 VA 2.75 VA 2.75 VA 1.5 W 1.6 Agni Alloy Cadmium Fr	Voltage 85% Max. Rated 75% Max. Rated DRY environmennmended) ages 27 - 32	Voltage 30% Min. Rated 10% Min. Rated	Voltage 110% Rated 110% Max	
120 VAC (@ 60 HZ) 240 VAC (@ 60 HZ) 24 VDC 48 VDC	60 1,300 4,300 340 1,360 8,500 -45° to +70° C (-49° to +	Consumption 2.75 VA 2.75 VA 2.75 VA 1.5 W 1.5 W 1.5 W 1.5 W 1.5 W 1.6 to 85% RH (Recom 90g (3.2oz.)	Voltage 85% Max. Rated 75% Max. Rated DRY environmentumended) ages 27 - 32	Voltage 30% Min. Rated 10% Min. Rated	110% Rated	



FLANGE MOUNTED RELAYS WITH BLADE TERMINALS

- DPDT and 3PDT for control circuit application flexibility.
- 25A, DPDT and 20A, 3PDT.
- 3/4HP @ 120V AC, 1HP @ 240V AC.
- AC and DC coils.
- Flange mounting eliminates the need for a socket resulting in lower installed cost.
- Blade terminals (1/4") accept commonly available fast-on connectors.

- Tape wound coils are marked with the coil voltage for easy identification.
- AgNi contacts, environmentally friendly cadmium free.
- Low coil consumption to minimize transformer and power supply requirements.
- cURus and CE for acceptance in global applications.
- Transparent housing to visually monitor switching operations and contact condition.
- 100% tested to ensure performance to specification.

IT'S EASY TO BUILD YOUR OWN RELAY

Simply pick the code number from each of the sections below and combine them to build your part number.

Flange Mounted Relay w/Blade Terminals

GPRF-T // // ///

Example: To build one of our most popular Relays, the part number would be GPRF-T + II + III or GPRF-T2C25ZC

I. RELAY TYPE				
CODE	DESCRIPTION	LIST		
GPRF-T	General Purpose Relay w/Blade	\$17.00		

II. POLES & CURRENT RATING

II. FOLLO & CONNEILI NATING			
CODE	DESCRIPTION	LIST	
2C25	DPDT, 25A (8 Blade)	_	
3C20	3PDT, 20A (11 Blade)	\$ 1.20	

III. COIL VOLTAGES		
CODE	DESCRIPTION	
С	24V AC	
D	120V AC	
F	240V AC	
ZC	24V DC	
ZJ	48V DC	
ZD	110V DC	

Relays available in convenient multi-packs, consult factory for details.



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Flange Mounted w/Blade Terminals / GENERAL PURPOSE



F	FLANGE MOUNTED RELAYS WIT	H BLADE TERN	IINALS		
	UNITS				
ELECTRICAL RATINGS					
POLE COMBINATION		DP	DT	3	PDT
Contact Resistance	mΩ 50		50		
Dielectric Strength (Coil to Contact)	AC Volts (50/60 HZ - 1 Minute)	1500 V		1500 V	
Dielectric Strength (Between Contacts)	AC Volts (50/60 HZ - 1 Minute)	100		1000 V	
Insulation Resistance (500 VDC)	MΩ [Min.]	10			00
Max. Switching (ON/OFF) Mechanical	Oper./Min.	24			240
Max. Switching (ON/OFF) Electrical Life Expectancy - Mechanical	Oper./Min. Operations [Min]	10	0 N/I		30 0M
Life Expectancy - Nechanical Life Expectancy - Elect (@120 V Resistive)	Operations [Min]	10			00K
Vibration: Endurance	1.5 mm (Double Amplitude)		55 Hz		· 55 Hz
Vibration: Error Operation	1.5 mm (Double Amplitude)		55 Hz		· 55 Hz
Shock: Endurance	G Min.	5			50
Shock: Error Operation	G Min.		0		10
Coil Operate Time (Pick-Up)	mSec (Max.)	1	5		15
Coil Release Time (Drop Out)	mSec (Max.)	1	0		10
CONTACT RATING		·			
Rated Carrying Current		25	Α	2	0 A
Max. Allowable Voltage		1	VAC	600	VAC
			VDC		VDC
Capacity: Resistive Load	P.F. = 1.0	240 VA(240 VA	
		120 VA(120 VAC - 20 A	
	DE 04[1/D 7 0 1	28 VDC		28 VDC - 13 A	
Inductive Loads	P.F. = 0.4 [L/R = 7 mSec.]	240 VA(240 VAC - 15 A	
		120 VAC - 25 A		120 VAC - 20 A 28 VDC - 13 A	
Motor Loads	120 VAC	28 VDC - 18 A 3/4 HP		1/2 HP	
iviotor Eddus	240 VAC	1 HP		1/2 HP	
Minimum Recommended Load			100 mA) mA
COIL SPECIFICATIONS (@ 20° C) — (DPDT)					
NOMINAL CON VOLTAGE (VOLTO)	0.10.14.40%00000	Power	Pick-Up	Drop-Out	Max. Allowed
NOMINAL COIL VOLTAGE (VOLTS) 24 VAC (@ 60 HZ)	Coil Resistance (+/– 10% OHMS) 72	Consumption 2.5 VA	Voltage	Voltage	Voltage
120 VAC (@ 60 HZ)	1,700	2.5 VA 2.5 VA	85% Max.	30% Min.	110% Rated
240 VAC (@ 60 HZ)	7,200	2.5 VA	Rated	Rated	
24 VDC	472	1.5 W			
48 VDC	1,800	1.5 W	75% Max.	10% Min.	110%
110 VDC	10,000	1.5 W	Rated	Rated	Rated
COIL SPECIFICATIONS (@ 20° C) — (3PDT)		-	I		1
		Power	Pick-Up	Drop-Out	Max. Allowed
NOMINAL COIL VOLTAGE (VOLTS)	Coil Resistance (+/- 10% OHMS)	Consumption	Voltage	Voltage	Voltage
24 VAC (@ 60 HZ)	60	2.75 VA	85% Max.	30% Min.	110%
120 VAC (@ 60 HZ)	1,300	2.75 VA	Rated	Rated	Rated
240 VAC (@ 60 HZ)	4,300	2.75 VA			
24 VDC 48 VDC	340	1.5 W	75% Max.	10% Min.	110%
110 VDC	1,360 8,500	1.5 W 1.5 W	Rated	Rated	Rated
ENVIRONMENTAL/PHYSICAL PARAMETERS	8,500	1.3 VV			
Operating Ambient Temperature	-45° to +70° C (-49° to +	-158° F) Assumes a	DRY environmen	t — Enclosed	
Operating Humidity		% to 85% RH (Recom			
Unit Weight (2 ~ 3 Pole Relay)	90g (3.2oz.)				
Relay and Socket Dimensions	See outlir	ne drawings on page	es 27 - 32		
MATERIALS & CONSTRUCTION		J - 1 - 3			
Contacts		AgNi Alloy			
Contacts	Cadmium Free				
		Cadmium Fre	ee		
Plated Brass Terminations Solder Connections		Cadmium Fro Lead Free	ee		
Plated Brass Terminations					



MINIATURE SQUARE BASE RELAYS W/BLADE TERMINALS

- DPDT and 4PDT for control circuit application flexibility.
- 5A, DPDT and 5A, 4PDT.
- AC and DC coils.
- Blade terminals are interchangeable with other commonly available relays.
- Tape wound coils are marked with the coil voltage for easy identification.
- AgNi contacts, environmentally friendly cadmium free.
- Small size requiring minimum panel space for lower installed cost.
- cURus and CE for acceptance in global applications.

- Optional mechanical actuator and indicating light (red for AC and green for DC) for checking the control circuit operation without energizing the relay and to easily determine the relay status.
- Terminal markings on the relay for easy reference during installation.
- Low coil consumption to minimize transformer and power supply requirements.
- Transparent housing to visually monitor switching operations and contact condition.
- 100% tested to ensure performance to specification.

Simply pick the code number from each of the sections below and combine

Miniature Square Base Relay w/Blade Terminals



them to build your part number.

Example: To build one of our most popular Relays, the part number would be GPRM-B+II+III+IV or GPRM-B2C05D



I. RELAY TYPE					
CODE	DESCRIPTION	LIST			
GPRM-B	General Purpose Relay w/Blade	\$10.00			
II. POLES & CURRENT RATING					

II. POLES & CURRENT RATING				
CODE	DESCRIPTION	LIST		
2C05	DPDT, 5A (8 Blade)	_		
4C05	4PDT, 5A (14 Blade)	\$ 1.20		

	III. COIL VOLTAGES
CODE	DESCRIPTION
С	24V AC
D	120V AC
Е	220-240V AC
ZC	24V DC
ZJ	48V DC
ZD	110V DC

	IV. ACTUATOR OPTIONS				
	CODE	DESCRIPTION	LIST		
	(Blank)	No Light & Mechanical Actuator	_		
	3	Light & Mechanical Actuator	\$ 2.00		
-					

Relays available in convenient multi-packs, consult factory for details.

COMPATIBLE SOCKETS				
RELAY TYPE	COMPATIBLE SOCKETS			
GPRM-B2C05**	GPRA-SB14U1 with Open Style Terminals			
GPRM-B4C05**				
NOTE: **Represents the Coil Voltage Code. Refer to Chart III <i>Coil Voltage</i> above.				
See page 26 for socket information.				



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	<i>IIATURE SQUARE</i> UNI		DEADE	LHIVIIIVALO		
LECTRICAL RATINGS	UNI	13				
POLE COMBINATION			DP	DT	Л	PDT
Contact Resistance	m	0	10			00
		52 60 HZ - 1 Minute)	1500			00 V
Dielectric Strength (Coil to Contact)		60 HZ - 1 Minute)	100			00 V
Dielectric Strength (Between Contacts) nsulation Resistance (500 VDC)		· · · · · · · · · · · · · · · · · · ·	1000			00 v
, ,	MΩ [:/Min.	+	10		40
Max. Switching (ON/OFF) Mechanical		<u> </u>	3			40 30
Max. Switching (ON/OFF) Electrical	<u> </u>	:/Min. ons [Min]	10)M
Life Expectancy - Mechanical Life Expectancy - Elect (@120 V Resistive)			100)0K
/ibration: Endurance	<u> </u>	ons [Min]	10 ~ 5			55 Hz
		le Amplitude)				
/ibration: Error Operation	1.0 mm (Doub		10 ~ 5			55 Hz
Shock: Endurance		Min.	10			00
Shock: Error Operation		Min.	10			0
Coil Operate Time (Pick-Up)		(Max.)	2			25
Coil Release Time (Drop Out)		(Max.)	2			25
Coil Temperature Rise (at rated voltage)	Deg C	(Max.)	6	U		60
CONTACT RATING			T _		_	_
Rated Carrying Current			5.			A
Max. Allowable Voltage			240 \ 110 \		_	VAC VDC
Capacity: Resistive Load	P.F. = 1.0		240 VAC - 5 A		240 VAC - 5 A	
. ,			120 VAC	C - 5 A	120 VA(C - 5 A
			28 VDC	: - 5 A	28 VDC	: - 5 A
nductive Loads	P.F. = 0.4 [L/	/R = 7 mSec.]	120 VAC		120 VA	
			28 VD0	C - 2 A	28 VD	C - 3 A
Minimum Recommended Load			10 VDC - 10 mA		10 VDC	- 10 mA
COIL SPECIFICATIONS (@ 20° C) — OPDT & 4PDT)			<u>'</u>			
NOMINAL COIL VOLTAGE (VOLTS)	Nominal Current	Coil Resistance	Power	Pick-Up	Drop-Out	Max. Allowe
24 VAC (@ 60 HZ)	(m A) 45	(+/- 10% OHMS) 186	Consumption 1.0 ~ 1.3 VA	Voltage	Voltage	Voltage
120 VAC (@ 60 HZ)	10	4,550	1.0 ~ 1.3 VA	85% Max.	30% Min.	110%
220/240 VAC (@ 60 HZ)	8.5	19.400	1.0 ~ 1.3 VA	Rated	Rated	Rated
24 VDC	36.9	650	0.9 W			
48 VDC	18.5	2,600	0.9 W	80% Max.	10% Min.	110%
110 VDC	10.5	13,500	0.9 W	Rated	Rated	Rated
ENVIRONMENTAL/PHYSICAL PARAMETERS	10	13,300	0.9 VV			
		0E0 to . EE0 C / 120 to .	1210 F\ Accumac o	DDV anvironma	nt England	
Operating Ambient Temperature	-4	25° to +55° C (-13° to +			nt — Enclosed	
Operating Humidity	45% to 85% RH (Recommended)					
Unit Weight (2 and 4 Pole Relay)	35g (1.2oz.) See outline drawings on pages 27 - 32					
Relay and Socket Dimensions WATERIALS & CONSTRUCTION		See outil	ne drawings on pa	iges 27 - 32		
VIAITKIALS & GUNSIKUGIIUN			A . N A II			
			AgNi Alloy			
Contacts			Cadmium Free			
Contacts Plated Brass Terminations				ee		
Contacts			Cadmium Fre Lead Free ermoplastic and T			



MINIATURE SQUARE BASE RELAYS W/BLADE TERMINALS

- SPDT and DPDT for control circuit application flexibility.
- 15A, SPDT and 10A, DPDT.
- 1/2HP @ 120V AC, 1/2HP @ 240V AC.
- AC and DC coils.
- Blade terminals (13/64") are interchangeable with other commonly available relays.
- Tape wound coils are marked with the coil voltage for easy identification.
- AgNi contacts, environmentally friendly cadmium free.
- Small size requiring minimum panel space for lower installed cost.
- Optional mechanical actuator and indicating light (red for AC and green for DC) for checking the control circuit operation without energizing the relay and to easily determine the relay status.
- Terminal markings on the relay for easy reference during installation.
- Low coil consumption to minimize transformer and power supply requirements.
- cURus and CE for acceptance in global applications.
- Transparent housing to visually monitor switching operations and contact condition.
- 100% tested to ensure performance to specification.

IT'S EASY TO BUILD YOUR OWN RELAY

Simply pick the code number from each of the sections below and combine them to build your part number.

Miniature Square Base Relay w/Blade Terminals



Example: To build one of our most popular Relays, the part number would be GPRM-B + II + III + IV or GPRM-B2C10D-3



REVISION 03.2022

I. RELAY TYPE				
CODE	DESCRIPTION	LIST		
GPRM-B	General Purpose Relay w/Blade	\$11.00		

II. POLES & CURRENT RATING

0220 & 0012111 11112			
CODE	DESCRIPTION	LIST	
1C15	SPDT, 15A (8 Blade)	_	
2C10	DPDT, 10A (8 Blade)	\$ 1.60	

	III. COIL VOLTAGES
CODE	DESCRIPTION
С	24V AC
D	120V AC
D E ZC	220-240V AC
ZC	24V DC
ZJ	48V DC
ZD	110V DC
1	

IV. ACTUATOR OPTIONS			
LIST	CODE		
	(Blank)		
\$ 2.00	3		
-			

Relays available in convenient multi-packs, consult factory for details.

NOTE: See page 16 for 4-Pole Miniature Relay.

COMPATIBLE SOCKETS			
RELAY TYPE	COMPATIBLE SOCKETS		
GPRM-B1C15**	GPRA-SB08G1 with IP20 Guarded Terminals or		
GPRM-B2C10** GPRA-SB08U1 with Open Style Terminals			
NOTE: **Represents the Coil Voltage Code. Refer to Chart III Coil Voltage above.			
See page 25 for sock	et information.		



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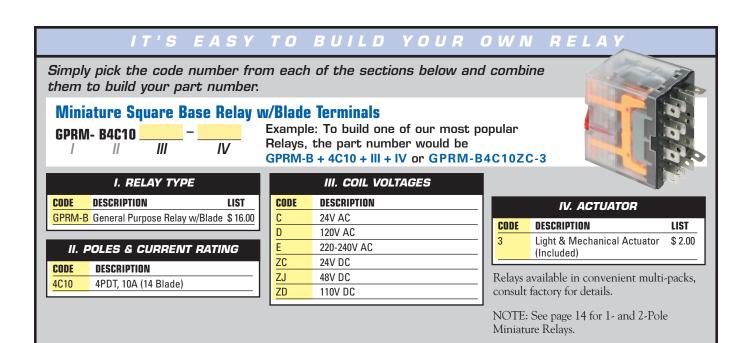


MI	NIATURE SQUARE	BASE RELAYS W	ITH BLADE T	ERMINALS		
	UNI	TS				
ELECTRICAL RATINGS						
POLE COMBINATION			SP	DT	DI	PDT
Contact Resistance	m!	Ω	100		100	
Dielectric Strength (Coil to Contact)	AC Volts (50/6	60 HZ - 1 Minute)	150	0 V	150	00 V
Dielectric Strength (Between Contacts)	AC Volts (50/6	60 HZ - 1 Minute)	100	0 V	100	00 V
Insulation Resistance (500 VDC)	MΩ [Min.]	10	00	1	00
Max. Switching (ON/OFF) Mechanical	-	/Min.		40		40
Max. Switching (ON/OFF) Electrical		/Min.	30		3	30
Life Expectancy - Mechanical		ons [Min]	10	M	10	DM
Life Expectancy - Elect (@ Rating)		ons [Min]		0K		00K
Vibration: Endurance	1.0 mm (Doub	- P	10 ~ 5	55 Hz	10 ~	55 Hz
Vibration: Error Operation	1.0 mm (Doub		10 ~ 5	55 Hz		55 Hz
Shock: Endurance		∕lin.	10	00	1	00
Shock: Error Operation		Лin.		0		0
Coil Operate Time (Pick-Up)	mSec	. ,		5		25
Coil Release Time (Drop Out)		(Max.)		5		25
Coil Temperature Rise (at rated voltage)	Deg C	(Max.)	6	0	6	60
CONTACT RATING			1			
Rated Carrying Current			15) A
Max. Allowable Voltage			1	VAC		VAC
				VDC	120 VDC	
Capacity: Resistive Load	P.F. =	= 1.0	240 VA0		240 VAC - 10 A	
			120 VAC - 15 A		120 VAC - 10 A	
		28 VDC - 15 A		28 VDC		
Inductive Loads		P.F. = 0.4 [L/R = 7 mSec.] 28 VDC - 7 A		28 VD(
Motor Loads	120 V 240 V		1/2 1/2		1/2 1/2	HP
Minimum Recommended Load	Z40 V	AL	10 VDC		10 VDC	
COIL SPECIFICATIONS (@ 20° C) —			10 400	- IU IIIA	10 VDC	- 10 IIIA
(SPDT & DPDT)						
	Nominal Current	Coil Resistance	Power	Pick-Up	Drop-Out	Max. Allowed
NOMINAL COIL VOLTAGE (VOLTS)	(mA)	(+/- 10% OHMS)	Consumption	Voltage	Voltage	Voltage
24 VAC (@ 60 HZ)	45	160	1.0 ~ 1.3 VA	80% Max.	30% Min.	110%
120 VAC (@ 60 HZ)	11.5	3,400	1.0 ~ 1.3 VA	Rated	Rated	Rated
220/240 VAC (@ 60 HZ)	5	13,600	1.0 ~ 1.3 VA			
24 VDC	36.9	650	0.9 W	80% Max.	10% Min.	110%
48 VDC	18.5	2,600	0.9 W	Rated	Rated	Rated
			0.9 W	114104		1.000
110 VDC	10	11,000	0.5 VV			
ENVIRONMENTAL/PHYSICAL PARAMETERS	-	,				!
ENVIRONMENTAL/PHYSICAL PARAMETERS Operating Ambient Temperature	-	5° to +55° C (-13° to +13	31° F) Assumes a		t — Enclosed	
ENVIRONMENTAL/PHYSICAL PARAMETERS Operating Ambient Temperature Operating Humidity	-	5° to +55° C (-13° to +13	31° F) Assumes a to 85% RH (Recon		t — Enclosed	
ENVIRONMENTAL/PHYSICAL PARAMETERS Operating Ambient Temperature Operating Humidity Unit Weight (1 ~ 2 Pole Relay)	-	5° to +55° C (-13° to +13 45% t	81° F) Assumes a to 85% RH (Recom 35g (1.2oz.)	nmended)	t — Enclosed	
ENVIRONMENTAL/PHYSICAL PARAMETERS Operating Ambient Temperature Operating Humidity Unit Weight (1 ~ 2 Pole Relay) Relay and Socket Dimensions	-	5° to +55° C (-13° to +13 45% t	31° F) Assumes a to 85% RH (Recon	nmended)	t — Enclosed	
ENVIRONMENTAL/PHYSICAL PARAMETERS Operating Ambient Temperature Operating Humidity Unit Weight (1 ~ 2 Pole Relay) Relay and Socket Dimensions MATERIALS & CONSTRUCTION	-	5° to +55° C (-13° to +13 45% t	31° F) Assumes a to 85% RH (Recom 35g (1.2oz.) ne drawings on pa	nmended)	t — Enclosed	
ENVIRONMENTAL/PHYSICAL PARAMETERS Operating Ambient Temperature Operating Humidity Unit Weight (1 ~ 2 Pole Relay) Relay and Socket Dimensions MATERIALS & CONSTRUCTION Contacts	-	5° to +55° C (-13° to +13 45% t	31° F) Assumes a to 85% RH (Recom 35g (1.2oz.) ne drawings on pa	nmended) ages 27 - 32	t — Enclosed	
ENVIRONMENTAL/PHYSICAL PARAMETERS Operating Ambient Temperature Operating Humidity Unit Weight (1 ~ 2 Pole Relay) Relay and Socket Dimensions MATERIALS & CONSTRUCTION Contacts	-	5° to +55° C (-13° to +13 45% t	31° F) Assumes a to 85% RH (Recom 35g (1.2oz.) ne drawings on pa	nmended) ages 27 - 32	t — Enclosed	
ENVIRONMENTAL/PHYSICAL PARAMETERS Operating Ambient Temperature Operating Humidity Unit Weight (1 ~ 2 Pole Relay) Relay and Socket Dimensions MATERIALS & CONSTRUCTION	-	s° to +55° C (-13° to +13° 45% t 45% t See outlin	AgNi Alloy Cadmium Free B1° F) Assumes a Co 85% RH (Recom 35g (1.2oz.) Cadrawings on pa AgNi Alloy Cadmium Free Lead Free	nmended) ages 27 - 32	t — Enclosed	
ENVIRONMENTAL/PHYSICAL PARAMETERS Operating Ambient Temperature Operating Humidity Unit Weight (1 ~ 2 Pole Relay) Relay and Socket Dimensions MATERIALS & CONSTRUCTION Contacts Plated Brass Terminations	-25	s° to +55° C (-13° to +13° 45% t 45% t See outlin	21° F) Assumes a to 85% RH (Recom 35g (1.2oz.) ne drawings on pa AgNi Alloy Cadmium Fro Lead Free ermoplastic and T	nmended) ages 27 - 32 ee chermoset		



MINIATURE SQUARE BASE RELAYS W/BLADE TERMINALS

- 4PDT for control circuit application flexibility.
- 10A, 4PDT.
- 1/2HP @ 120V AC, 1/2HP @ 240V AC.
- AC and DC coils.
- Blade terminals (13/64") are interchangeable with other commonly available relays.
- Tape wound coils are marked with the coil voltage for easy identification.
- AgNi contacts, environmentally friendly cadmium free.
- Small size requiring minimum panel space for lower installed cost.
- Terminal markings on the relay for easy reference during installation.
- Mechanical actuator and indicating light (red for AC and green for DC), provided as standard, for checking the control circuit operation without energizing the relay and to easily determine the relay status.
- Low coil consumption to minimize transformer and power supply requirements.
- cURus and CE for acceptance in global applications.
- Transparent housing to visually monitor switching operations and contact condition.
- Writable marking label allows for fast and easy circuit identification.
- 100% tested to ensure performance to specification.



COMPATIBLE SOCKETS					
RELAY TYPE	COMPATIBLE SOCKETS				
GPRM-B4C10**	GPRA-SB14U2 with Open Style Terminals				
NOTE: **Represents	NOTE: **Represents the Coil Voltage Code. Refer to Chart III Coil Voltage above.				
See page 26 for socket information.					



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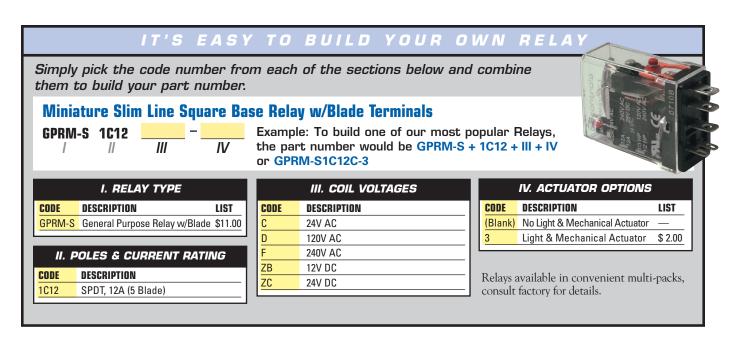
M	NIATURE SQUARE	BASE RELAYS W	ITH BLADE T	ERMINALS		
	UNI	TS				
ELECTRICAL RATINGS						
POLE COMBINATION				4	PDT	
Contact Resistance	m!	$\overline{\Omega}$		1	00	
Dielectric Strength (Coil to Contact)	AC Volts (50/60	HZ - 1 Minute)		15	00 V	
Dielectric Strength (Between Contacts)	AC Volts (50/60	HZ - 1 Minute)		10	00 V	
Insulation Resistance (500 VDC)	MΩ [I	Min.]	100			
Max. Switching (ON/OFF) Mechanical	Oper.,	Min.		2	240	
Max. Switching (ON/OFF) Electrical	Oper.,	Min.	30			
Life Expectancy - Mechanical	Operatio	ns [Min]	10M			
Life Expectancy - Elect (@ Rating)	Operatio	ns [Min]		1	00K	
Vibration: Endurance	1.0 mm (Doubl	e Amplitude)		10 ~	55 Hz	
Vibration: Error Operation	1.0 mm (Doubl	e Amplitude)		10 ~	55 Hz	
Shock: Endurance	G N	· · · · · · · · · · · · · · · · · · ·		1	100	
Shock: Error Operation	G M	lin.			10	
Coil Operate Time (Pick-Up)	mSec (Max.)			25	
Coil Release Time (Drop Out)	mSec (25	
Coil Temperature Rise (at rated voltage)	Deg C	· · · · · · · · · · · · · · · · · · ·			60	
CONTACT RATING		,				
Rated Carrying Current	10 A					
Max. Allowable Voltage				240	VAC	
				110	VDC	
Capacity: Resistive Load	P.F. = 1.0			240 VA	AC - 10 A	
•				120 VA	C - 10 A	
				28 VD	C - 10 A	
Inductive Loads	P.F. = 0.4 [L/I	R = 7 mSec.]		28 VD	IC - 5 A	
Motor Loads	120 \			1/3	3 HP	
	240 \	/AC		1/2	2 HP	
Minimum Recommended Load				10 VD0	C - 10 mA	
COIL SPECIFICATIONS (@ 20° C) — (4PDT)						
NOMINAL COLL VOLTAGE (VOLTO)	Nominal Current	Coil Resistance	Power	Pick-Up	Drop-Out	Max. Allowed
NOMINAL COIL VOLTAGE (VOLTS)	(mA)	(+/- 10% OHMS)	Consumption	Voltage	Voltage	Voltage
24 VAC (@ 60 HZ)	93.6 (50Hz) ~ 80 (60Hz)	78	1.9 ~ 2.5 VA	85% Max.	30% Min.	110%
120 VAC (@ 60 HZ)	24.5 (50Hz) ~ 21 (60Hz)	1,600	1.9 ~ 2.5 VA	Rated	Rated	Rated
220/240 VAC (@ 60 HZ)	13.1 (50Hz) ~ 11.2 (60Hz)	6,700	1.9 ~ 2.5 VA			
24 VDC	69	350	1.5 W	80% Max.	10% Min.	110%
48 VDC	30	1,600	1.5 W	Rated	Rated	Rated
110 VDC	15.9	6,900	1.5 W			
ENVIRONMENTAL/PHYSICAL PARAMETERS		F0 . FF0 0 / 100 . 1	010 5\ A	DDV :		
Operating Ambient Temperature	-2	-25° to +55° C (-13° to +131° F) Assumes a DRY environment — Enclosed				
Operating Humidity	45% to 85% RH (Recommended)					
Unit Weight (4 Pole Relay)	35g (1.2oz.) See outline drawings on pages 27 - 32					
Relay and Socket Dimensions		,	See outline draw	ings on pages 2	1 - 32	
MATERIALS & CONSTRUCTION						
Contacts	AgNi Alloy					
Plated Brass Terminations	Cadmium Free					
Solder Connections	Lead Free					
Moldings	Thermoplastic and Thermoset For RoHS compliance documentation by product, refer to www.c3controls.com					
ROHS COMPLIANCE						



MINIATURE SLIM LINE SQUARE BASE RELAYS W/BLADE TERMINALS

- 12A, SPDT.
- 1/3 HP @ 120V AC, 1/2HP @ 240V AC.
- Small size requiring minimum panel space for lower installed costs. Relay is only 14mm (35/64") wide!
- AC and DC coils
- Blade terminals (13/64") are interchangeable with other commonly available relays.
- Tape wound coils are marked with the coil voltage for easy identification.
- AgNi contacts, environmentally friendly cadmium free.

- Optional mechanical actuator and indicating light (red for AC and green for DC) for checking the control circuit operation without energizing the relay and to easily determine the relay status.
- Terminal markings and schematic on the relay for easy reference during installation.
- Low coil consumption to minimize transformer and power supply requirements.
- cURus and CE for acceptance in global applications.
- Transparent housing to visually monitor switching operations and contact condition.
- 100% tested to ensure performance to specification.



COMPATIBLE SOCKETS			
RELAY TYPE	COMPATIBLE SOCKETS		
GPRM-S1C12**	GPRA-SB05G1 with IP20 Guarded Terminals		
NOTE: **Represents the Coil Voltage Code. Refer to Chart III Coil Voltage above.			
See page 25 for so	cket information.		



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		ITS		ADE TERMIN		
ELECTRICAL RATINGS	UIV	113				
POLE COMBINATION					PDT	
Contact Resistance	m	Ω		3		
Dielectric Strength (Coil to Contact)) HZ - 1 Minute)	50 2000 V			
Dielectric Strength (Between Contacts)		HZ - 1 Minute)				
nsulation Resistance (500 VDC)	MΩ [1000 V			
Max. Switching (ON/OFF) Mechanical		/Min.	100			
Max. Switching (ON/OFF) Electrical	<u> </u>	/Min.	240			
ife Expectancy - Mechanical			30 50M			
· · ·		ons [Min]				
ife Expectancy - Elect (@ 120 V Rating)		ons [Min]			00K	
/ibration: Endurance		ole Amplitude)			- 55 Hz	
/ibration: Error Operation		ole Amplitude)			~ 55 Hz	
Shock: Endurance	G N				100	
Shock: Error Operation		Ain.			10	
Coil Operate Time (Pick-Up)	mSec	, ,			20	
Coil Release Time (Drop Out)		(Max.)			20	
Coil Temperature Rise (at rated voltage)	Deg C	(Max.)			85	
ONTACT RATING			T			
ated Carrying Current			12 A			
Max. Allowable Voltage		240 VAC 110 VDC				
Capacity: Resistive Load	P.F. =	= 1.0	240 VAC - 12 A			
		24 VDC - 12 A				
nductive Loads	P.F. = 0.4 [L/	R = 7 mSec.]			AC - 7 A DC - 7 A	
Minimum Recommended Load					5 - 10 mA	
COIL SPECIFICATIONS (@ 20° C) — (SPDT)				10 VDC	- 10 IIIA	
SOIL SPECIFICATIONS (@ 20 G) — (SPDI)	Nominal Current	Coil Resistance	Power	Pick-Up	Drop-Out	Max. Allowe
IOMINAL COIL VOLTAGE (VOLTS)	(mA)	(+/- 10% OHMS)	Consumption	Voltage	Voltage	Voltage
24 VAC (@ 60 HZ)	72	180	1.7 VA	- J		
120 VAC (@ 60 HZ)	14	4,300	1.7 VA	85% Max.	30% Min.	110%
240 VAC (@ 60 HZ)	7	15,720	1.7 VA	Rated	Rated	Rated
12 VDC	64	188	0.8 W	80% Max.	10% Min.	110%
24 VDC	32	750	0.8 W	Rated	Rated	Rated
NVIRONMENTAL/PHYSICAL PARAMETERS	<u> </u>	7.00	0.0 11	Hatou		
Operating Ambient Temperature	-3	30° to +70° C (-22° to +1	58° F) Assumes a	DRY environme	ent — Enclosed	
Operating Humidity		<u> </u>	5 85% RH (Recom		2.10.0004	
Init Weight		1070 11	24g (0.9oz.)			
lelay and Socket Dimensions	Z4g (0.902.) See outline drawings on pages 27 - 32					
NATERIALS & CONSTRUCTION		Joo outille t				
Contacts			AgNi Alloy			
Plated Brass Terminations	Agni Alloy Cadmium Free					
Solder Connections						
Moldings	Lead Free Thermoelectic and Thermoset					
	Thermoplastic and Thermoset For RoHS compliance documentation by product, refer to www.c3controls.com					



GENERAL PURPOSE PIN & BLADE RELAY SOCKETS

- DIN rail mounting for fast and easy installation.
- IP20 guarded terminals to prevent accidental contact with live parts.
- Combination head (+/-) terminal screws accept straight, phillips, or pozidrive screwdrivers.
- cURus and CE for acceptance in global applications.
- Open style terminals to accept ring tongue terminals.
- Panel mounting for secure installation in high vibration and shock installations.
- Break resistant polycarbonate or glass-filled nylon.

8 & 11 PIN GUARDED & UNGUARDED SOCKETS



8 PIN GUARDED, 10A					
CODE	DESCRIPTION	LIST			
GPRA-SP08G1	8 Pin Guarded	\$6.00			
SPECIFICATIONS:					
TYPE: Surface of	r DIN Rail Mount				
00	YING MEMBERS: onze Nickel Plate	d Steel			
TERMINALS: IP2	20, Screw w/capti	ve wire clamps			
WIRE SIZE: 22AWG-14AWG					
RECOMMENDE	TORQUE: 7-10 lb	-in. [.8-1.1 Nm]			
ELECTRICAL RAT	ΓING: 10A, 600V A	С			
ROHS COMPLIA	ROHS COMPLIANCE: For documentation by				
product, refer to www.c3controls.com.					
FOR USE WITH:					
GENERAL PURPOSE RELAY: GPRS-P2C10**					
NOTE: **Represents the Coil Voltage Code. For Coil					



Voltage Codes refer to page 4.

RETAINER CLIP: GPRA-RC3

11 PI	N GUARDED,	10A		
CODE	DESCRIPTION	LIST		
GPRA-SP11G1	11 Pin Guarded	\$6.00		
SPECIFICATIONS				
TYPE: Surface of	r DIN Rail Mount			
CURRENT CARE	RYING MEMBERS:			
Phosphor B	ronze Nickel Plated	Steel		
TERMINALS: IP	20, Screw w/captiv	e wire clamps		
WIRE SIZE: 22A	WG-14AWG			
RECOMMENDE	D TORQUE: 7-10 lb-	in. [.8-1.1 Nm]		
ELECTRICAL RA	TING: 10A, 600V AC	;		
ROHS COMPLIANCE: For documentation by				
product, ref	er to www.c3contro	ols.com.		
FOR USE WITH:				
GENERAL PURP	OSE RELAY: GPRS-	P3C10**		

NOTE: **Represents the Coil Voltage Code. For Coil

Voltage Codes refer to page 4.
RETAINER CLIP: GPRA-RC3



8 PIN	UNGUARDED,	10A		
CODE	DESCRIPTION	LIST		
GPRA-SP08U1	8 Pin Unguarded	\$6.00		
SPECIFICATIONS:				
TYPE: Surface o	r DIN Rail Mount			
0011112111 0711111	YING MEMBERS: ronze Nickel Plated S	Steel		
TERMINALS: Op wire clamps	en style, Screw w/c s.	aptive		
WIRE SIZE: 22A	WG-14AWG			
RECOMMENDE	D TORQUE: 7-10 lb-in	. [.8-1.1 Nm]		
ELECTRICAL RA	TING: 10A, 600V AC			
ROHS COMPLIA	ANCE: For documen	tation by		
product, refe	er to www.c3control	s.com.		
FOR USE WITH:				
GENERAL PURP	OSE RELAY: GPRS-P	2C10**		
NOTE: **Represer Voltage Codes refe	its the Coil Voltage Coder to page 4.	e. For Coil		
RETAINER CLIP:	GPRA-RC3			





11 PIN UNGUARDED, 10A					
CODE	DESCRIPTION	LIST			
GPRA-SP11U1	11 Pin Unguarded	\$6.00			
SPECIFICATIONS					
TYPE: Surface or	DIN Rail Mount				
	RYING MEMBERS: ronze Nickel Plated St	eel			
TERMINALS: Op wire clamp	oen style, Screw w/cap s.	otive			
WIRE SIZE: 22A	WG-14AWG				
RECOMMENDE	D TORQUE: 7-10 lb-in.	.8-1.1 Nm]			
ELECTRICAL RA	TING: 10A, 600V AC				
ROHS COMPLIANCE: For documentation by product, refer to www.c3controls.com.					
FOR USE WITH:					
GENERAL PURP	OSE RELAY: GPRS-P30	210**			
NOTE: **Represer Voltage Codes ref	nts the Coil Voltage Code. er to page 4.	For Coil			
RETAINER CLIP:	GPRA-RC3				

5, 8 & 11 BLADE GUARDED & UNGUARDED SOCKETS



MINIATURE 5 BLADE GUARDED, 15A

CODE	DESCRIPTION	LIST
GPRA-SB05G1	Mini 5 Blade Guarded	\$6.00

SPECIFICATIONS:

TYPE: Surface or DIN Rail Mount

CURRENT CARRYING MEMBERS: Phosphor Bronze Nickel Plated Steel

MINALS: IP20 Serous Moenting wire element

TERMINALS: IP20, Screw w/captive wire clamps

WIRE SIZE: 22AWG-16AWG

RECOMMENDED TORQUE: 7-10 lb-in. [.8-1.1 Nm]

ELECTRICAL RATING: 15A, 300V AC

ROHS COMPLIANCE: For documentation by product, refer to www.c3controls.com.

FOR USE WITH:

GENERAL PURPOSE RELAY: GPRM-S1C12**

NOTE: **Represents the Coil Voltage Code. For Coil Voltage Codes refer to page 18.

RETAINER CLIP: GPRA-RC4



MINIATURE 8 BLADE GUARDED, 15A

CODE	DESCRIPTION	LIST
GPRA-SB08G1	Mini 8 Blade Guarded	\$6.00

SPECIFICATIONS:

TYPE: Surface or DIN Rail Mount

CURRENT CARRYING MEMBERS:

Phosphor Bronze Nickel Plated Steel

TERMINALS: IP20, Screw w/captive wire clamps

WIRE SIZE: 22AWG-14AWG

RECOMMENDED TORQUE: 7-10 lb-in. [.8-1.1 Nm]

ELECTRICAL RATING: 15A, 300V AC

ROHS COMPLIANCE: For documentation by product, refer to www.c3controls.com.

FOR USE WITH:

GENERAL PURPOSE RELAY: GPRM-B1C15** and GPRM-B2C10**

NOTE: **Represents the Coil Voltage Code. For Coil Voltage Codes refer to page 14.

RETAINER CLIP: GPRA-RC2



11 BLADE GUARDED, 20/25A

CODE	DESCRIPTION	LIST	
GPRA-SB11G1	11 Blade Guarded	\$9.00	
SDECIFICATIONS:			

TYPE: Surface or DIN Rail Mount

CURRENT CARRYING MEMBERS:

Phosphor Bronze Nickel Plated Steel

TERMINALS: IP20, Screw w/captive wire clamps

WIRE SIZE: 22AWG-12AWG

RECOMMENDED TORQUE: 7-10 lb-in. [.8-1.1 Nm]
ELECTRICAL RATING: DPDT: 25A, 300V AC
and 3PDT: 20A, 300V AC

ROHS COMPLIANCE: For documentation by product, refer to www.c3controls.com.

FOR USE WITH:

GENERAL PURPOSE RELAY: GPRS-B2C13**, GPRS-B2C25**, GPRS-B3C13** and GPRS-B3C20**

NOTE: **Represents the Coil Voltage Code. For Coil Voltage Codes refer to pages 6 & 8.

RETAINER CLIP: GPRA-RC1



MINIATURE 8 BLADE UNGUARDED, 15A

CODE	DESCRIPTION	LIST		
GPRA-SB08U1	Mini 8 Blade Unguarded	\$6.00		
SPECIFICATIONS:				

TYPE: Surface or DIN Rail Mount

CURRENT CARRYING MEMBERS:

Phosphor Bronze Nickel Plated Steel

TERMINALS: Open style, Screw w/captive wire clamps

WIRE SIZE: 22AWG-14AWG

RECOMMENDED TORQUE: 7-10 lb-in. [.8-1.1 Nm]

ELECTRICAL RATING: 15A, 300V AC

ROHS COMPLIANCE: For documentation by product, refer to www.c3controls.com.

FOR USE WITH:

GENERAL PURPOSE RELAY: GPRM-B1C15** and GPRM-B2C10**

NOTE: **Represents the Coil Voltage Code. For Coil Voltage Codes refer to page 14.

RETAINER CLIP: GPRA-RC2



11 BLADE UNGUARDED, 20/25A

CODE	DESCRIPTION	LIST
GPRA-SB11U1	11 Blade Unguarded	\$9.00
SPECIFICATIONS:		

TYPE: Surface or DIN Rail Mount

CURRENT CARRYING MEMBERS:

Phosphor Bronze Nickel Plated Steel

TERMINALS: Open style, Screw w/captive wire clamps

WIRE SIZE: 22AWG-12AWG

RECOMMENDED TORQUE: 7-10 lb-in. [8-1.1 Nm] ELECTRICAL RATING: DPDT: 25A, 300V AC and

3PDT: 20A, 300V AC

ROHS COMPLIANCE: For documentation
by product, refer to www.c3controls.com.

FOR USE WITH:

GENERAL PURPOSE RELAY: GPRS-B2C13**, GPRS-B2C25**, GPRS-B3C13** and GPRS-B3C20**

NOTE: **Represents the Coil Voltage Code. For Coil Voltage Codes refer to pages 6 & 8.

RETAINER CLIP: GPRA-RC1







MINIATURE 14 BLADE UNGUARDED, 7A

CODE	DESCRIPTION	LIST	
GPRA-SB14U1	Mini 14 Blade Unguarded	\$9.00	
SPECIFICATIONS:			

TYPE: Surface or DIN Rail Mount

CURRENT CARRYING MEMBERS:

Phosphor Bronze Nickel Plated Steel

TERMINALS: Open style, Screw w/captive wire clamps

WIRE SIZE: 24AWG-16AWG

RECOMMENDED TORQUE: 7-10 lb-in. [.8-1.1 Nm]

ELECTRICAL RATING: 7A, 300V AC

ROHS COMPLIANCE: For documentation by product, refer to www.c3controls.com.

FOR USE WITH:

GENERAL PURPOSE RELAY: GPRM-B2C05** and GPRM-B4C05**

NOTE: **Represents the Coil Voltage Code. For Coil Voltage Codes refer to page 12.

RETAINER CLIP: GPRA-RC4



DISCOUNT SCHEDULE

MINIATURE 14 BLADE UNGUARDED, 15A

GPRA-SB14U2 SPECIFICATIONS	DESCRIPTION	LIST		
GPRA-SB14U2	Mini 14 Blade Unguarded	\$9.00		
SPECIFICATIONS:				

TYPE: Surface or DIN Rail Mount

CURRENT CARRYING MEMBERS:

Phosphor Bronze Nickel Plated Steel

TERMINALS: Open style, Screw w/captive wire clamps

WIRE SIZE: 22AWG-14AWG

RECOMMENDED TORQUE: 7-10 lb-in. [.8-1.1 Nm]

ELECTRICAL RATING: 15A, 300V AC

ROHS COMPLIANCE: For documentation by product, refer to www.c3controls.com.

FOR USE WITH:

GENERAL PURPOSE RELAY: GPRM-B4C10**

NOTE: **Represents the Coil Voltage Code. For Coil Voltage Codes refer to page 16.

RETAINER CLIP: GPRA-RC4



Recommended for use in high vibration applications to further secure relay in socket. For RoHS compliance documentation by product, refer to www.c3controls.com.

For use with GPRA-SB11U1 & GPRA-SB11G1 Sockets.





For use with GPRA-SB08U1 & GPRA-SB08G1 Sockets.

CODE	DESCRIPTION	QTY./PKG.	LIST/PC.
GPRA-RC2	Retainer Clip	10	\$2.00



For use with GPRA-SB05G1, GPRA-SB14U1 and GPRA-SB14U2 Sockets.

CODE	DESCRIPTION	QTY./PKG.	LIST/PR.
GPRA-RC4	Retainer Clip	10 pair	\$2.00

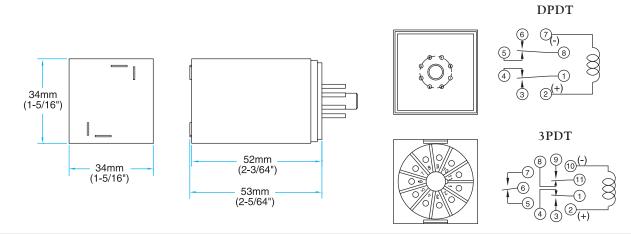
For use with GPRA-SP08U1, GPRA-SP08G1, GPRA-SP11U1



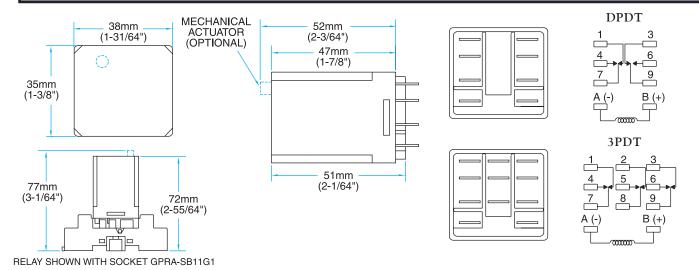
	DESCRIPTION		LIST/PR.
GPRA-RC3	Retainer Clip	10 pair	\$2.00
·			



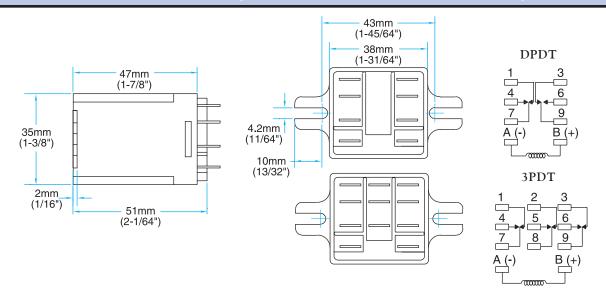
OCTAL BASE RELAYS W/PIN TERMINALS - 2 & 3 POLES (GPRS-P2C10 & P3C10)



SQUARE BASE RELAYS W/BLADE TERMINALS - 2 & 3 POLES (GPRS-B2C13, B3C13, B2C25 & B3C20,

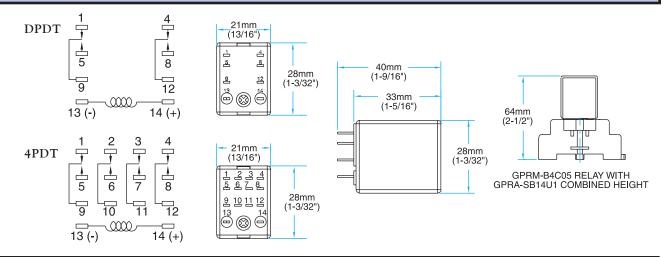


FLANGE MOUNTED RELAYS W/BLADE TERMINALS - 2 & 3 POLES (GPRF-T2C25 & T3C20)

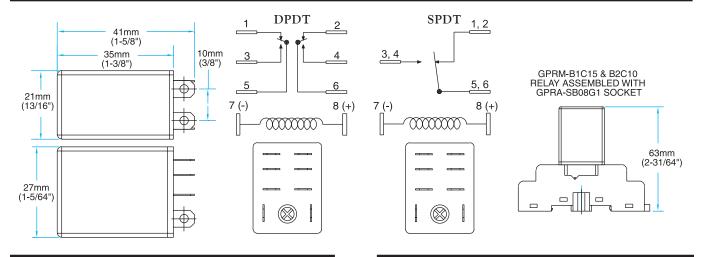




MINIATURE SQUARE BASE RELAYS W/BLADE TERMINALS. 2 & 4 POLES (GPRM-B2C05 & B4C05)

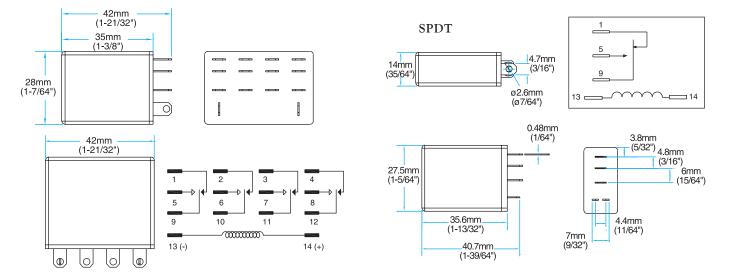


MINIATURE SQUARE BASE RELAYS W/BLADE TERMINALS, 1 & 2 POLES (GPRM-B1C15 & B2C10)



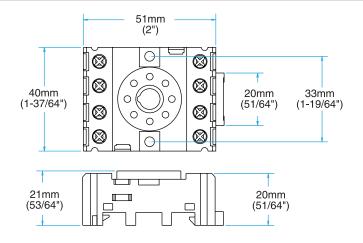
MINIATURE SQUARE BASE RELAYS W/ BLADE TERMINALS - 4 POLES (GPRM-B4C10)

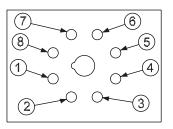
MINIATURE SQUARE BASE RELAYS W/ BLADE TERMINALS - 1 POLE (GPRM-S1C12)

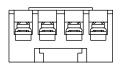




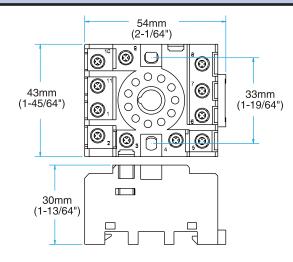
8 PIN GUARDED 10A SOCKET (GPRA-SP08G1)

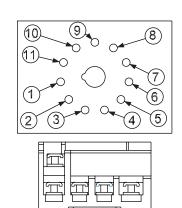




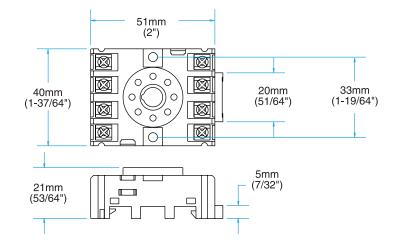


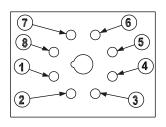
11 PIN GUARDED 10A SOCKET (GPRA-SP11G1)

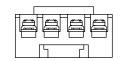




8 PIN UNGUARDED 10A SOCKET (GPRA-SP08U1)

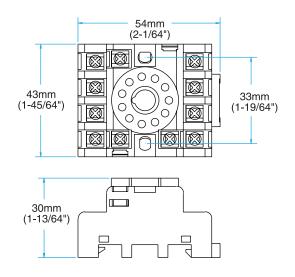


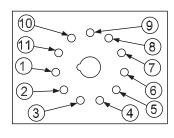


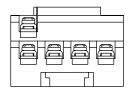




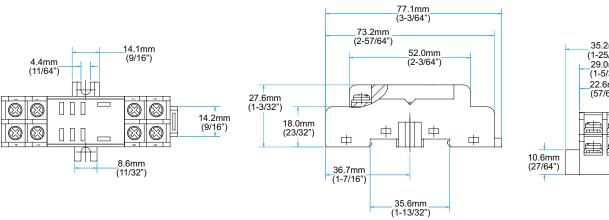
PIN UNGUARDED 10A SOCKET (GPRA-SP11U1)

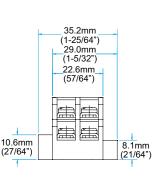




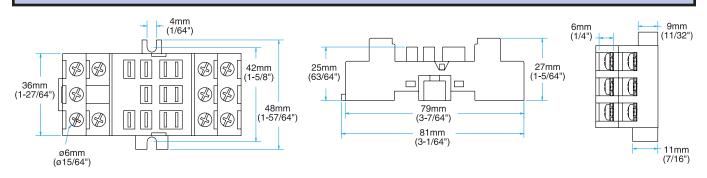


GUARDED BLADE SOCKET (GPRA-SB08G1)





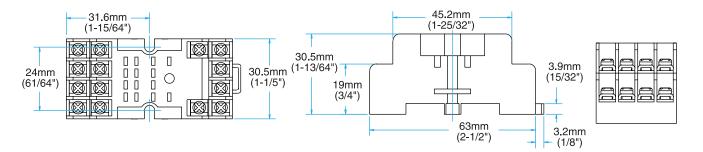
GUARDED BLADE SOCKET (GPRA-SB11G1)



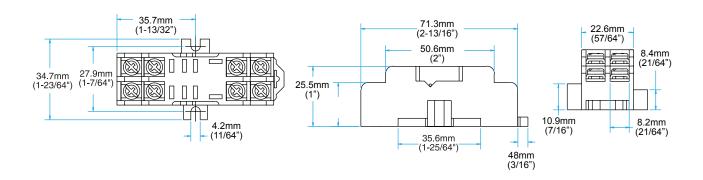
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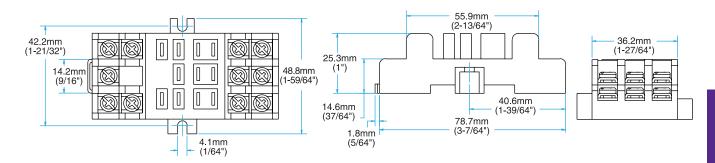
MINIATURE 14 BLADE UNGUARDED 7A SOCKET (GPRA-SB14U1)



MINIATURE 8 BLADE UNGUARDED 15A SOCKET (GPRA-SB08U1)



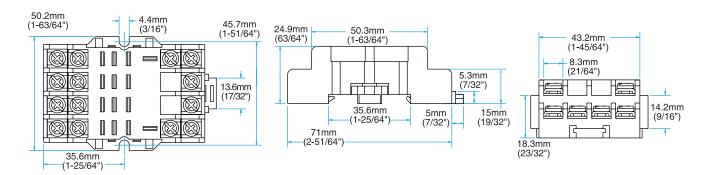
MINIATURE 11 BLADE UNGUARDED 20/25A SOCKET (GPRA-SB11U1)



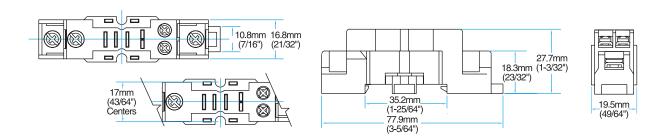
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MINIATURE 14 BLADE UNGUARDED 15A SOCKET (GPRA-SB14U2)



MINIATURE 5 BLADE GUARDED 15A SOCKET (GPRA-SB05G1)



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