GENERAL PURPOSE RELAYS



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. c3's relays come in a variety of base configurations, and we even offer hermetically sealed relays for hazardous locations.



Octal Base w/Pin	547
Square Base w/Blade	549
Flange Mounted w/Blade	553
Miniature Square w/Blade	555
Hermetically Sealed Octal Base w/Pin	563
Hermetically Sealed Miniature Square w/Blade	565
Pin & Blade Sockets	567
Retainer Clips	569
Dimensions	570

PROVEN







Conformity to Standards: GENERAL PURPOSE RELAYS

UL 508

HERMETICALLY SEALED RELAYS

UL 508, 1604 IEC 60947-1, 60947-4-1

SOCKETS

UL 508 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)

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—P	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 for Ordinary and Hazardous locations are available in Octal Base, Square Base, Flange Mounted, Miniature, and Hermetically Sealed.
✓ 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.
✓ Lifetime Warranty*	Every product is backed by our 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

5 724.775.7926 :: www.c3controls.com



Square Base Relay with Blade Terminals



Octal Base Relay with Pin Terminals



Miniature Slim Line Square Base Relay with Blade Terminals



Hermetically Sealed Octal Base Relay with Pin Terminals



UNIQUE PRODUCT LINE FEATURES

CLASS 1, DIVISION 2



Our hermetically sealed metal enclosures have a temperature code of T4A and are suitable for use in Class 1, Division 2 Group A, B, C and D, and Zone 2, Group IIA, IIB, and IIC Hazardous locations.

ZERO CONTAMINANTS



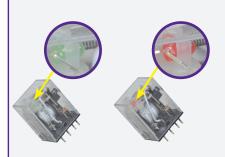
The hermetically sealed relays are vacuum baked and dry nitrogen filled to remove contaminants and provide a clean and dry atmosphere for contacts.

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



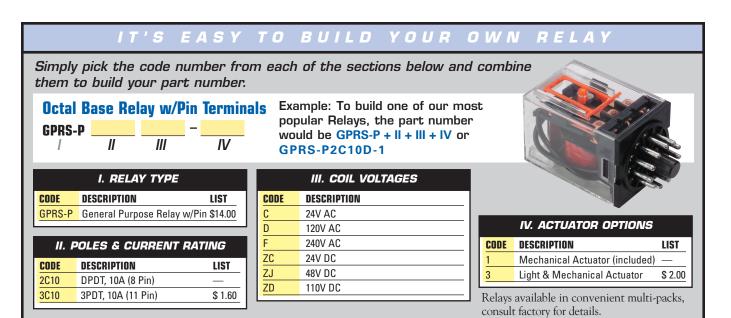
- Certifications
- Specifications
- **Dimension Drawings**
- Installation Instructions
- Easy to Buy

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.



	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: **Represe	nts the Coil Voltage Code. Refer to Chart III Coil Voltage above.
See page 567 for s	socket information.





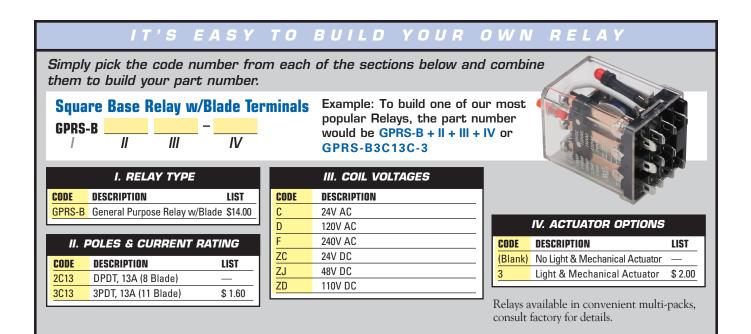
		RELAYS WITH F	IN IERWINAL	15		
	UNI	TS				
ELECTRICAL RATINGS						
POLE COMBINATION			DP			TOT
Contact Resistance	m		50	-		50
Dielectric Strength (Coil to Contact)		60 HZ - 1 Minute)		00 V		00 V
Dielectric Strength (Between Contacts)	, ,	60 HZ - 1 Minute)	_	00 V		00 V
nsulation Resistance (500 VDC)	MΩ [10			00
Max. Switching (ON/OFF) Mechanical		/Min.	24			40
Max. Switching (ON/OFF) Electrical	Oper/Min. 30			30		
Life Expectancy - Mechanical		ons [Min]	10M		10M	
Life Expectancy - Elect (@120 V Resistive)		ons [Min]	100			00K
/ibration: Endurance	1.5 mm (Doub			55 Hz		55 Hz
/ibration: Error Operation	1.5 mm (Doub			55 Hz		55 Hz
Shock: Endurance		∕lin.	50			50
Shock: Error Operation		/lin.	10			10
Coil Operate Time (Pick-Up)		(Max.)	2!			25
Coil Release Time (Drop Out)	mSec	(Max.)	2!	5		25
CONTACT RATING						
Rated Carrying Current			_	Α	10 A	
Max. Allowable Voltage				VAC		VAC
				VDC		VDC
Capacity: Resistive Load	P.F. =	= 1.0	240 VA0		240 VAC - 10 A	
			120 VAC - 10 A		120 VAC - 10 A	
			28 VDC			C - 10 A
nductive Loads	P.F. = 0.4 [L/	R = 7 mSec.]	240 VA		240 VAC - 7 A	
			120 VA(120 VA(
				C - 8 A		C - 8 A
Minimum Recommended Load			10 VDC	- 10 mA	10 VDC	- 10 mA
COIL SPECIFICATIONS (@ 20° C) — (DPDT & 3PDT)						
	Nominal Current	Coil Resistance	Power	Pick-Up	Drop-Out	Max. Allower
IOMINAL COIL VOLTAGE (VOLTS)	(mA)	(+/- 10% OHMS)	Consumption	Voltage	Voltage	Voltage
24 VAC (@ 60 HZ)	88	91	1.9 ~ 2.8 VA	220/ 14	220/ 14:	1100/
120 VAC (@ 60 HZ)	21	1,620	1.9 ~ 2.8 VA	80% Max. Rated	30% Min. Rated	110% Rated
240 VAC (@ 60 HZ)	11	7,100	1.9 ~ 2.8 VA	nateu	nateu	nateu
24 VDC	56	430	1.5 W			
48 VDC	29.5	1,630	1.5 W	80% Max. Rated	10% Min. Rated	110%
110 VDC	16.2	6,800	1.5 W	nateu	nateu	Rated
NVIRONMENTAL/PHYSICAL PARAMETERS						
Operating Ambient Temperature	-1	10° to +40° C (14° to +1	04° F) Assumes a	DRY environmen	t — Enclosed	
Operating Humidity		35%	to 85% RH (Recom	nmended)		
Jnit Weight (2 ~ 3 Pole Relay)			85g (3oz.)			
Relay and Socket Dimensions		See outlin	e drawings on pa	ges 570 - 575		
MATERIALS & CONSTRUCTION						
Contacts			AgNi Alloy			
			Cadmium Fro	ee		
Plated Brass Terminations						
			Lead Free			
Plated Brass Terminations		Th		hermoset		



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: **Represen	NOTE: **Represents the Coil Voltage Code. Refer to Chart III Coil Voltage above.		
See page 568 for so	ocket information.		





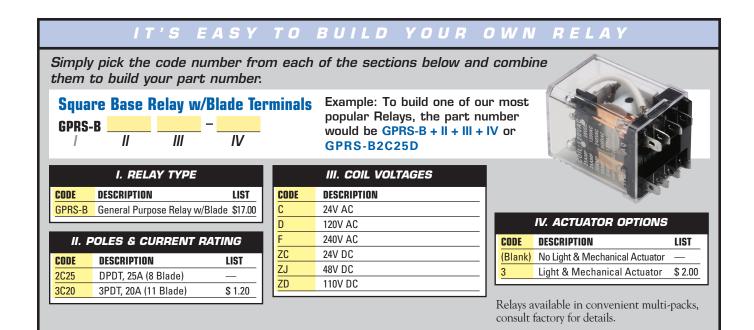
	SQUARE BASE RELAY WITH I	BLADE TERMIN	ALS			
	UNITS					
ELECTRICAL RATINGS						
POLE COMBINATION		DF	DT	31	TOT	
Contact Resistance	mΩ	Ę	0	50		
Dielectric Strength (Coil to Contact)	AC Volts (50/60 HZ - 1 Minute)		0 V		00 V	
Dielectric Strength (Between Contacts)	AC Volts (50/60 HZ - 1 Minute)		0 V		00 V	
Insulation Resistance (500 VDC)	MΩ [Min.]		00		00	
Max. Switching (ON/OFF) Mechanical	Oper./Min.		00	_	00	
Max. Switching (ON/OFF) Electrical	Oper./Min.		0 M		30	
Life Expectancy - Mechanical Life Expectancy - Elect (@120 V Resistive)	Operations [Min] Operations [Min]		0K	10M		
Vibration: Endurance	1.5 mm (Double Amplitude)		55 Hz	100K 10 ~ 55 Hz		
Vibration: Error Operation	1.5 mm (Double Amplitude)		55 Hz		· 55 Hz	
Shock: Endurance	G Min.		0		50	
Shock: Error Operation	G Min.	1	0	1	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			Α	13	3 A	
Max. Allowable Voltage			VAC		VAC	
			VDC		VDC	
Capacity: Resistive Load	P.F. = 1.0		C - 10 A		C - 10 A	
			C - 13 A	_	C - 13 A	
Inductive Loads	DE 04[I/D 7C1		C - 13 A		C - 13 A	
inductive Loads	P.F. = 0.4 [L/R = 7 mSec.]	240 VA	C - 10 A	_	AC - 7 A C - 10 A	
			C - 8 A	_		
Motor Loads	120 VAC		HP	28 VDC - 8 A 1/3 HP		
Wictor Education	240 VAC		HP		2 HP	
Minimum Recommended Load		10 VDC	- 10 mA	10 VDC	- 10 mA	
COIL SPECIFICATIONS (@ 20° C) — (DPDT)						
NOMINAL COLL VOLTACE (VOLTS)	Coil Projetones (. J. 109/ DUMS)	Power Consumption	Pick-Up Voltage	Drop-Out Voltage	Max. Allowed	
NOMINAL COIL VOLTAGE (VOLTS) 24 VAC (@ 60 HZ)	Coil Resistance (+/– 10% OHMS) 85	2.5 VA	voitage	voitage	Voltage	
120 VAC (@ 60 HZ)	2,250	2.5 VA	85% Max.	30% Min.	110%	
240 VAC (@ 60 HZ)	9,110	2.5 VA	Rated	Rated	Rated	
24 VDC	472	1.5 W				
48 VDC	1,800	1.5 W	80% Max. Rated	10% Min. Rated	110% Rated	
110 VDC	10,000	1.5 W	nateu	nateu	nateu	
COIL SPECIFICATIONS (@ 20° C) — (3PDT)						
		Power	Pick-Up	Drop-Out	Max. Allowed	
NOMINIAL COLL VOLTAGE (VOLTE)	Coil Recietance (+/- 10% DHMS)	Consumption	Voltage	Voltage	Voltage	
	Coil Resistance (+/- 10% OHMS)	-			110%	
24 VAC (@ 60 HZ)	72	2.75 VA	85% Max.	30% Min.	110%	
24 VAC (@ 60 HZ) 120 VAC (@ 60 HZ)	72 1,700	2.75 VA 2.75 VA	85% Max. Rated	30% Min. Rated	110% Rated	
24 VAC (@ 60 HZ) 120 VAC (@ 60 HZ) 240 VAC (@ 60 HZ)	72 1,700 7,200	2.75 VA 2.75 VA 2.75 VA				
24 VAC (@ 60 HZ) 120 VAC (@ 60 HZ) 240 VAC (@ 60 HZ) 24 VDC	72 1,700 7,200 472	2.75 VA 2.75 VA 2.75 VA 1.5 W				
24 VAC (@ 60 HZ) 120 VAC (@ 60 HZ) 240 VAC (@ 60 HZ) 24 VDC 48 VDC	72 1,700 7,200 472 1,800	2.75 VA 2.75 VA 2.75 VA 1.5 W	Rated	Rated	Rated	
24 VAC (@ 60 HZ) 120 VAC (@ 60 HZ) 240 VAC (@ 60 HZ) 24 VDC 48 VDC 110 VDC	72 1,700 7,200 472	2.75 VA 2.75 VA 2.75 VA 1.5 W	Rated 80% Max.	Rated 10% Min.	Rated 110%	
24 VAC (@ 60 HZ) 120 VAC (@ 60 HZ) 240 VAC (@ 60 HZ) 24 VDC 48 VDC 110 VDC ENVIRONMENTAL/PHYSICAL PARAMETERS	72 1,700 7,200 472 1,800	2.75 VA 2.75 VA 2.75 VA 1.5 W 1.5 W	Rated 80% Max. Rated	Rated 10% Min. Rated	Rated 110%	
24 VAC (@ 60 HZ) 120 VAC (@ 60 HZ) 240 VAC (@ 60 HZ) 24 VDC 48 VDC 110 VDC ENVIRONMENTAL/PHYSICAL PARAMETERS Operating Ambient Temperature	72 1,700 7,200 472 1,800 10,000	2.75 VA 2.75 VA 2.75 VA 1.5 W 1.5 W	Rated 80% Max. Rated DRY environmen	Rated 10% Min. Rated	Rated 110%	
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	72 1,700 7,200 472 1,800 10,000	2.75 VA 2.75 VA 2.75 VA 1.5 W 1.5 W 1.5 W	Rated 80% Max. Rated DRY environmen	Rated 10% Min. Rated	Rated 110%	
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)	72 1,700 7,200 472 1,800 10,000	2.75 VA 2.75 VA 2.75 VA 1.5 W 1.5 W 1.5 W	Rated 80% Max. Rated DRY environmen	Rated 10% Min. Rated	Rated 110%	
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	72 1,700 7,200 472 1,800 10,000	2.75 VA 2.75 VA 2.75 VA 1.5 W 1.5 W 1.5 W 1.5 W 1.5 W 1.5 W 1.9 W 1.0 W	Rated 80% Max. Rated DRY environmen	Rated 10% Min. Rated	Rated 110%	
120 VAC (@ 60 HZ) 240 VAC (@ 60 HZ) 24 VDC 48 VDC	72 1,700 7,200 472 1,800 10,000	2.75 VA 2.75 VA 2.75 VA 1.5 W 1.5 W 1.5 W 1.5 W 1.5 W 1.5 W 1.9 W 1.0 W	Rated 80% Max. Rated DRY environmen nmended) ages 570 - 575	Rated 10% Min. Rated	Rated 110%	
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	72 1,700 7,200 472 1,800 10,000	2.75 VA 2.75 VA 2.75 VA 1.5 W	Rated 80% Max. Rated DRY environment of the second of th	Rated 10% Min. Rated	Rated 110%	
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 Solder Connections	72 1,700 7,200 472 1,800 10,000 -45° to +70° C (-49° to +	2.75 VA 2.75 VA 2.75 VA 1.5 W	Rated 80% Max. Rated DRY environmen nmended) ages 570 - 575	Rated 10% Min. Rated	Rated 110%	
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	72 1,700 7,200 472 1,800 10,000 -45° to +70° C (-49° to +	2.75 VA 2.75 VA 2.75 VA 1.5 W 1.6 W 1.6 W 1.7 W 1.7 W 1.7 W 1.8 W 1.8 W 1.8 W 1.9 W	Rated 80% Max. Rated DRY environmennmended) ages 570 - 575	Rated 10% Min. Rated t — Enclosed	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	NOTE: **Represents the Coil Voltage Code. Refer to Chart III Coil Voltage above.			
See page 568 for soo	sket information.			



551

724.775.7926 :: www.c3controls.com



	SQUARE BASE RELAYS WITH	BLADE TERMIN	VALS			
FI FOTDIONI DATINO	UNITS					
ELECTRICAL RATINGS			DT.		DT.	
POLE COMBINATION	0		OT CONTRACTOR OF THE PROPERTY		TOT	
Contact Resistance	mΩ	5	~		50	
Dielectric Strength (Coil to Contact)	AC Volts (50/60 HZ - 1 Minute)	150			00 V	
Dielectric Strength (Between Contacts)	AC Volts (50/60 HZ - 1 Minute)	100			00 V	
Insulation Resistance (500 VDC)	MΩ [Min.] Oper./Min.	10	10		00 40	
Max. Switching (ON/OFF) Mechanical	Oper./Min.				40 30	
Max. Switching (ON/OFF) Electrical Life Expectancy - Mechanical	Operations [Min]		30 30 10M 10M			
Life Expectancy - Mechanical Life Expectancy - Elect (@120 V Resistive)	Operations [Min]		10M 100K		100K	
Vibration: Endurance	1.5 mm (Double Amplitude)	10 ~ !			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.)		0		10	
Rated Carrying Current		25	Δ	21) A	
Max. Allowable Voltage			VAC		VAC	
			VDC		VDC	
Capacity: Resistive Load	P.F. = 1.0		C - 25 A	240 VA		
oupuoity. Hoolotivo Loud	1 – 1.0		C - 25 A	120 VA		
			C - 25 A	28 VDC		
Inductive Loads	P.F. = 0.4 [L/R = 7 mSec.]		C - 15 A	240 VA		
	[2,1. /		C - 25 A	120 VA		
			C - 18 A	28 VD0		
Motor Loads	120 VAC	3/4			HP	
	240 VAC		НP		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	Rated	
110 VDC	10,000	1.5 W				
COIL SPECIFICATIONS (@ 20° C) — (3PDT)						
NOMINAL COIL VOLTAGE (VOLTS)	Coil Resistance (+/- 10% OHMS)	Power Consumption	Pick-Up Voltage	Drop-Out Voltage	Max. Allowe Voltage	
24 VAC (@ 60 HZ)	60	2.75 VA	voitage	voltage	Voltage	
120 VAC (@ 60 HZ)	1,300	2.75 VA	85% Max.	30% Min.	110%	
240 VAC (@ 60 HZ)	4,300	2.75 VA	Rated	Rated	Rated	
240 VAC (@ 00 HZ)	4,300	1.5 W				
24 V/DC	240			100/ NA:	110% Max	
24 VDC	340		75% Max.	10% Min.		
48 VDC	1,360	1.5 W	75% Max. Rated	Rated	Rated	
48 VDC 110 VDC					Rated	
48 VDC 110 VDC ENVIRONMENTAL/PHYSICAL PARAMETERS	1,360 8,500	1.5 W 1.5 W	Rated	Rated	Rated	
48 VDC 110 VDC ENVIRONMENTAL/PHYSICAL PARAMETERS Operating Ambient Temperature	1,360 8,500 -45° to +70° C (-49° to -	1.5 W 1.5 W	Rated DRY environmen	Rated	Rated	
48 VDC 110 VDC ENVIRONMENTAL/PHYSICAL PARAMETERS Operating Ambient Temperature Operating Humidity	1,360 8,500 -45° to +70° C (-49° to -	1.5 W 1.5 W -158° F) Assumes a 6 to 85% RH (Recon	Rated DRY environmen	Rated	Rated	
48 VDC 110 VDC ENVIRONMENTAL/PHYSICAL PARAMETERS Operating Ambient Temperature Operating Humidity Unit Weight (2 ~ 3 Pole Relay)	1,360 8,500 -45° to +70° C (-49° to -	1.5 W 1.5 W -158° F) Assumes a % to 85% RH (Recon 90g (3.2oz.)	Rated DRY environmen nmended)	Rated	Rated	
48 VDC 110 VDC ENVIRONMENTAL/PHYSICAL PARAMETERS Operating Ambient Temperature Operating Humidity Unit Weight (2 ~ 3 Pole Relay) Relay and Socket Dimensions	1,360 8,500 -45° to +70° C (-49° to -	1.5 W 1.5 W -158° F) Assumes a 6 to 85% RH (Recon	Rated DRY environmen nmended)	Rated	Rated	
48 VDC 110 VDC ENVIRONMENTAL/PHYSICAL PARAMETERS Operating Ambient Temperature Operating Humidity Unit Weight (2 ~ 3 Pole Relay) Relay and Socket Dimensions MATERIALS & CONSTRUCTION	1,360 8,500 -45° to +70° C (-49° to -	1.5 W 1.5 W -158° F) Assumes a % to 85% RH (Recon 90g (3.2oz.) tline drawings on pa	Rated DRY environmen nmended) ages 570 - 575	Rated	Rated	
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	1,360 8,500 -45° to +70° C (-49° to -	1.5 W 1.5 W 1.5 W -158° F) Assumes a 6 to 85% RH (Recon 90g (3.2oz.) tline drawings on pa	Rated DRY environment nmended) ages 570 - 575	Rated	Rated	
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	1,360 8,500 -45° to +70° C (-49° to -	1.5 W 1.5 W 1.5 W 1.58° F) Assumes a 6 to 85% RH (Recon 90g (3.2oz.) tline drawings on pa	Rated DRY environment nmended) ages 570 - 575	Rated	Rated	
48 VDC	1,360 8,500 -45° to +70° C (-49° to - 35° See ou	1.5 W 1.5 W 1.5 W -158° F) Assumes a 6 to 85% RH (Recon 90g (3.2oz.) tline drawings on pa	Rated DRY environment nmended) ages 570 - 575	Rated	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

 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

	OLLO G OCHALIEI A	A11110
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.



Flange Mounted w/Blade Terminals / GENERAL PURPOSE



	FLANGE MOUNTED RELAYS WIT	H BLADE TERN	IINALS		
	UNITS				
ELECTRICAL RATINGS					
POLE COMBINATION		DP	DT	3	PDT
Contact Resistance	mΩ	50	0	!	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.]	10	00	1	00
Max. Switching (ON/OFF) Mechanical	Oper./Min.	24	10	2	.40
Max. Switching (ON/OFF) Electrical	Oper./Min.	3	0		30
Life Expectancy - Mechanical	Operations [Min]	10	M	1	M
Life Expectancy - Elect (@120 V Resistive)	Operations [Min]	10	0K	10	00K
Vibration: Endurance	1.5 mm (Double Amplitude)	10 ~	55 Hz	10 ~	· 55 Hz
Vibration: Error Operation	1.5 mm (Double Amplitude)	10 ~	55 Hz	10 ~	· 55 Hz
Shock: Endurance	G Min.	5	0	ļ	50
Shock: Error Operation	G Min.	1	0		10
Coil Operate Time (Pick-Up)	mSec (Max.)	1	5		15
Coil Release Time (Drop Out)	mSec (Max.)	1	0		10
CONTACT RATING		<u>'</u>			
Rated Carrying Current		25	Α	2	0 A
Max. Allowable Voltage		600	VAC	600	VAC
		120	VDC	120	VDC
Capacity: Resistive Load	P.F. = 1.0	240 VA0	C - 25 A	240 VA	C - 20 A
		120 VA	C - 25 A	120 VA	C - 20 A
		28 VDC	C - 25 A	28 VD0	: - 13 A
Inductive Loads	P.F. = 0.4 [L/R = 7 mSec.]	240 VA	C - 15 A	240 VA	C - 15 A
		120 VA	C - 25 A	120 VA	C - 20 A
		28 VD	C - 18 A	28 VD0	: - 13 A
Motor Loads	120 VAC	3/4	НР	1/2	. HP
	240 VAC	1	HP.	1/2	2 HP
Minimum Recommended Load		100	mA	100) mA
COIL SPECIFICATIONS (@ 20° C) — (DPDT)					
	0.110.11.11.11.10.11.10.11.10.11	Power	Pick-Up	Drop-Out	Max. Allowed
NOMINAL COIL VOLTAGE (VOLTS)	Coil Resistance (+/- 10% OHMS)	Consumption	Voltage	Voltage	Voltage
24 VAC (@ 60 HZ)	72	2.5 VA	050/ 84	200/ Min	
100 1/4 0 (@ 00 117)			85% Max.	30% Min.	110%
120 VAC (@ 60 HZ)	1,700	2.5 VA	Rated	30% Min. Rated	110% Rated
240 VAC (@ 60 HZ)	1,700 7,200	2.5 VA 2.5 VA			
240 VAC (@ 60 HZ) 24 VDC	1,700 7,200 472	2.5 VA 2.5 VA 1.5 W			
240 VAC (@ 60 HZ) 24 VDC 48 VDC	1,700 7,200 472 1,800	2.5 VA 2.5 VA 1.5 W 1.5 W	Rated	Rated	Rated
240 VAC (@ 60 HZ) 24 VDC 48 VDC 110 VDC	1,700 7,200 472	2.5 VA 2.5 VA 1.5 W	Rated 75% Max.	Rated 10% Min.	Rated 110%
240 VAC (@ 60 HZ) 24 VDC 48 VDC	1,700 7,200 472 1,800	2.5 VA 2.5 VA 1.5 W 1.5 W	Rated 75% Max. Rated	Rated 10% Min. Rated	Rated 110% Rated
240 VAC (@ 60 HZ) 24 VDC 48 VDC 110 VDC COIL SPECIFICATIONS (@ 20° C) — (3PDT)	1,700 7,200 472 1,800 10,000	2.5 VA 2.5 VA 1.5 W 1.5 W 1.5 W	Rated 75% Max. Rated Pick-Up	Rated 10% Min. Rated Drop-Out	Rated 110% Rated Max. Allowed
240 VAC (@ 60 HZ) 24 VDC 48 VDC 110 VDC COIL SPECIFICATIONS (@ 20° C) — (3PDT) NOMINAL COIL VOLTAGE (VOLTS)	1,700 7,200 472 1,800 10,000 Coil Resistance (+/- 10% OHMS)	2.5 VA 2.5 VA 1.5 W 1.5 W 1.5 W	Rated 75% Max. Rated	Rated 10% Min. Rated	Rated 110% Rated
240 VAC (@ 60 HZ) 24 VDC 48 VDC 110 VDC COIL SPECIFICATIONS (@ 20° C) — (3PDT) NOMINAL COIL VOLTAGE (VOLTS) 24 VAC (@ 60 HZ)	1,700 7,200 472 1,800 10,000 Coil Resistance (+/- 10% OHMS) 60	2.5 VA 2.5 VA 1.5 W 1.5 W 1.5 W Power Consumption 2.75 VA	Rated 75% Max. Rated Pick-Up	Rated 10% Min. Rated Drop-Out	Rated 110% Rated Max. Allowed
240 VAC (@ 60 HZ) 24 VDC 48 VDC 110 VDC COIL SPECIFICATIONS (@ 20° C) — (3PDT) NOMINAL COIL VOLTAGE (VOLTS) 24 VAC (@ 60 HZ) 120 VAC (@ 60 HZ)	1,700 7,200 472 1,800 10,000 Coil Resistance (+/- 10% OHMS) 60 1,300	2.5 VA 2.5 VA 1.5 W 1.5 W 1.5 W Power Consumption 2.75 VA 2.75 VA	Rated 75% Max. Rated Pick-Up Voltage	Rated 10% Min. Rated Drop-Out Voltage	Rated 110% Rated Max. Allowed Voltage
240 VAC (@ 60 HZ) 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)	1,700 7,200 472 1,800 10,000 Coil Resistance (+/- 10% OHMS) 60 1,300 4,300	2.5 VA 2.5 VA 1.5 W 1.5 W 1.5 W Power Consumption 2.75 VA 2.75 VA	Rated 75% Max. Rated Pick-Up Voltage 85% Max.	Rated 10% Min. Rated Drop-Out Voltage 30% Min.	Rated 110% Rated Max. Allowed Voltage 110%
240 VAC (@ 60 HZ) 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	1,700 7,200 472 1,800 10,000 Coil Resistance (+/- 10% OHMS) 60 1,300 4,300 340	2.5 VA 2.5 VA 1.5 W 1.5 W 1.5 W Power Consumption 2.75 VA 2.75 VA 2.75 VA 1.5 W	Rated 75% Max. Rated Pick-Up Voltage 85% Max.	10% Min. Rated Drop-Out Voltage 30% Min. Rated	Rated 110% Rated Max. Allowed Voltage 110% Rated
240 VAC (@ 60 HZ) 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	1,700 7,200 472 1,800 10,000 Coil Resistance (+/- 10% OHMS) 60 1,300 4,300 340 1,360	2.5 VA 2.5 VA 1.5 W 1.5 W 1.5 W Power Consumption 2.75 VA 2.75 VA 2.75 VA 1.5 W	Rated 75% Max. Rated Pick-Up Voltage 85% Max. Rated	10% Min. Rated Drop-Out Voltage 30% Min. Rated	Rated 110% Rated Max. Allowed Voltage 110% Rated
240 VAC (@ 60 HZ) 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	1,700 7,200 472 1,800 10,000 Coil Resistance (+/- 10% OHMS) 60 1,300 4,300 340	2.5 VA 2.5 VA 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	Rated 110% Rated Max. Allowed Voltage 110% Rated
240 VAC (@ 60 HZ) 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	1,700 7,200 472 1,800 10,000 Coil Resistance (+/- 10% OHMS) 60 1,300 4,300 340 1,360 8,500	2.5 VA 2.5 VA 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	Pick-Up Voltage 85% Max. Rated 75% Max. Rated	Drop-Out Voltage 30% Min. Rated 10% Min. Rated	Rated 110% Rated Max. Allowed Voltage 110% Rated
240 VAC (@ 60 HZ) 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	1,700 7,200 472 1,800 10,000 Coil Resistance (+/- 10% OHMS) 60 1,300 4,300 340 1,360 8,500	2.5 VA 2.5 VA 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	Pick-Up Voltage 85% Max. Rated 75% Max. Rated 75% Max. Rated	Drop-Out Voltage 30% Min. Rated 10% Min. Rated	Rated 110% Rated Max. Allowed Voltage 110% Rated
240 VAC (@ 60 HZ) 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	1,700 7,200 472 1,800 10,000 Coil Resistance (+/- 10% OHMS) 60 1,300 4,300 340 1,360 8,500	2.5 VA 2.5 VA 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 75% Max. Rated 75% Max. Rated	Drop-Out Voltage 30% Min. Rated 10% Min. Rated	Rated 110% Rated Max. Allowed Voltage 110% Rated
240 VAC (@ 60 HZ) 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)	1,700 7,200 472 1,800 10,000 Coil Resistance (+/- 10% OHMS) 60 1,300 4,300 340 1,360 8,500 -45° to +70° C (-49° to +	2.5 VA 2.5 VA 1.5 W 1.5 W 1.5 W Power Consumption 2.75 VA 2.75 VA 2.75 VA 1.5 W 1.9	Rated 75% Max. Rated Pick-Up Voltage 85% Max. Rated 75% Max. Rated	Drop-Out Voltage 30% Min. Rated 10% Min. Rated	Rated 110% Rated Max. Allowed Voltage 110% Rated
240 VAC (@ 60 HZ) 24 VDC 48 VDC 110 VDC COIL SPECIFICATIONS (@ 20° C) — (3PDT) NOMINAL COIL VOLTAGE (VOLTS) 24 VAC (@ 60 HZ) 120 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	1,700 7,200 472 1,800 10,000 Coil Resistance (+/- 10% OHMS) 60 1,300 4,300 340 1,360 8,500 -45° to +70° C (-49° to +	2.5 VA 2.5 VA 1.5 W 1.5 W 1.5 W Power Consumption 2.75 VA 2.75 VA 2.75 VA 1.5 W	Rated 75% Max. Rated Pick-Up Voltage 85% Max. Rated 75% Max. Rated	Drop-Out Voltage 30% Min. Rated 10% Min. Rated	Rated 110% Rated Max. Allowed Voltage 110% Rated
240 VAC (@ 60 HZ) 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	1,700 7,200 472 1,800 10,000 Coil Resistance (+/- 10% OHMS) 60 1,300 4,300 340 1,360 8,500 -45° to +70° C (-49° to +	2.5 VA 2.5 VA 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 1.5 W 1.5 W 1.6 to 85% RH (Recon 90g (3.2oz.) e drawings on page	Rated 75% Max. Rated Pick-Up Voltage 85% Max. Rated 75% Max. Rated	Drop-Out Voltage 30% Min. Rated 10% Min. Rated	Rated 110% Rated Max. Allowed Voltage 110% Rated
240 VAC (@ 60 HZ) 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	1,700 7,200 472 1,800 10,000 Coil Resistance (+/- 10% OHMS) 60 1,300 4,300 340 1,360 8,500 -45° to +70° C (-49° to +	2.5 VA 2.5 VA 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 1.5 W 2.75 VA 2.75 VA 3.75 VA 4.75	Pick-Up Voltage 85% Max. Rated 75% Max. Rated 75% Max. Rated DRY environmentumended)	Drop-Out Voltage 30% Min. Rated 10% Min. Rated	Rated 110% Rated Max. Allowed Voltage 110% Rated
240 VAC (@ 60 HZ) 24 VDC 48 VDC 110 VDC COIL SPECIFICATIONS (@ 20° C) — (3PDT) NOMINAL COIL VOLTAGE (VOLTS) 24 VAC (@ 60 HZ) 120 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	1,700 7,200 472 1,800 10,000 Coil Resistance (+/- 10% OHMS) 60 1,300 4,300 340 1,360 8,500 -45° to +70° C (-49° to +	2.5 VA 2.5 VA 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 1.5 W 4.6 to 85% RH (Recon 90g (3.2oz.) e drawings on page	Pick-Up Voltage 85% Max. Rated 75% Max. Rated 75% Max. Rated DRY environmentumended)	Drop-Out Voltage 30% Min. Rated 10% Min. Rated	Rated 110% Rated Max. Allowed Voltage 110% Rated
240 VAC (@ 60 HZ) 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 Solder Connections	1,700 7,200 472 1,800 10,000 Coil Resistance (+/- 10% OHMS) 60 1,300 4,300 340 1,360 8,500 -45° to +70° C (-49° to +	2.5 VA 2.5 VA 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 1.5 W A CONSUMPTION A CONSUMPTION A CONSUMPTION B CONSUMP	Pick-Up Voltage 85% Max. Rated 75% Max. Rated 75% Max. Rated DRY environmentumended)	Drop-Out Voltage 30% Min. Rated 10% Min. Rated	Rated 110% Rated Max. Allowed Voltage 110% Rated
240 VAC (@ 60 HZ) 24 VDC 48 VDC 110 VDC COIL SPECIFICATIONS (@ 20° C) — (3PDT) NOMINAL COIL VOLTAGE (VOLTS) 24 VAC (@ 60 HZ) 120 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	1,700 7,200 472 1,800 10,000 Coil Resistance (+/- 10% OHMS) 60 1,300 4,300 340 1,360 8,500 -45° to +70° C (-49° to +	2.5 VA 2.5 VA 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 1.5 W A CONSUMPTION A CONSUMPTION A CONSUMPTION A CONSUMPTION B CONSUMPTION A CONSUMP	Pick-Up Voltage 85% Max. Rated 75% Max. Rated 75% Max. Rated DRY environmentumended) es 570 - 575	Rated 10% Min. Rated Drop-Out Voltage 30% Min. Rated 10% Min. Rated	Rated 110% Rated Max. Allowed Voltage 110% Rated 110% Rated



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.

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-B2C05D



	I. RELAT TIPE			
	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
E ZC	220-240V AC
ZC	24V DC
ZJ	48V DC
ZD	110V DC
	_

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

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 Coil Voltage above.		
See page 569 for so	cket information.		
	· ·		





	UNI	BASE RELAYS V Te				
ELECTRICAL RATINGS	UNI	13				
POLE COMBINATION			np	nt	Д	DNT
Contact Resistance	mΩ		DPDT 100		4PDT	
Dielectric Strength (Coil to Contact)		50 HZ - 1 Minute)	150		100 1500 V	
Dielectric Strength (Between Contacts)		60 HZ - 1 Minute)	100			00 V 00 V
Insulation Resistance (500 VDC)	MΩ [· · · · · · · · · · · · · · · · · · ·		00 0		00 0
Max. Switching (ON/OFF) Mechanical		/Min.		10		40
Max. Switching (ON/OFF) Electrical		/Min.		0		30
Life Expectancy - Mechanical	<u> </u>	ons [Min]	10)M
Life Expectancy - Elect (@120 V Resistive)		ons [Min]	10			00K
Vibration: Endurance	1.0 mm (Doub	<u> </u>	10 ~ 5			55 Hz
Vibration: Error Operation	1.0 mm (Doub		10 ~ 5			55 Hz
Shock: Endurance		/lin.	10~3			00
Shock: Error Operation		ліп. Ліп.	1			10
Coil Operate Time (Pick-Up)		(Max.)	2			25
Coil Release Time (Drop Out)		(Max.)	2			25 25
Coil Temperature Rise (at rated voltage)	Deg C		6			60
CONTACT RATING	Deg C	(IVIAX.)	0	<u> </u>	'	00
Rated Carrying Current			5	۸		: Λ
Max. Allowable Voltage			5 A		5 A	
wax. Allowable voltage			240 VAC		240 VAC 110 VDC	
Capacity: Resistive Load	P.E. = 1.0		110 VDC 240 VAC - 5 A		240 VAC - 5 A	
Capacity. Hesistive Load	r.i. = 1.0		120 VAC - 5 A		120 VAC - 5 A	
			28 VDC - 5 A		28 VDC - 5 A	
Inductive Loads	P.F. = 0.4 [L/R = 7 mSec.]		120 VAC - 2 A		120 VAC - 3 A	
illuuctive Loaus	r.r. = 0.4 [L/	n = / IIISec.j	28 VDC - 2 A		28 VDC - 3 A	
Minimum Recommended Load			10 VDC - 10 mA		10 VDC - 10 mA	
COIL SPECIFICATIONS (@ 20° C) —			10 VDC	TOTILA	10 000	- 10 IIIA
(DPDT & 4PDT)						
	Nominal Current	Coil Resistance	Power	Pick-Up	Drop-Out	Max. Allowe
NOMINAL COIL VOLTAGE (VOLTS)	(mA)	(+/- 10% OHMS)	Consumption	Voltage	Voltage	Voltage
24 VAC (@ 60 HZ)	45	186	1.0 ~ 1.3 VA	/		
120 VAC (@ 60 HZ)	10	4,550	1.0 ~ 1.3 VA	85% Max. Rated	30% Min. Rated	110%
220/240 VAC (@ 60 HZ)	8.5	19,400	1.0 ~ 1.3 VA	nateu	nateu	Rated
24 VDC	36.9	650	0.9 W	220/ 14	400/ 14:	110% Rated
48 VDC	18.5	2,600	0.9 W	80% Max. Rated	10% Min. Rated	
110 VDC	10	13,500	0.9 W	nateu	nateu	
ENVIRONMENTAL/PHYSICAL PARAMETERS						
Operating Ambient Temperature	-2	25° to +55° C (-13° to +	31° F) Assumes a	DRY environme	nt — Enclosed	
Operating Humidity	45% to 85% RH (Recommended)					
Unit Weight (2 and 4 Pole Relay)	35g (1.2oz.)					
Relay and Socket Dimensions	See outline drawings on pages 570 - 575					
MATERIALS & CONSTRUCTION						
Contacts			AgNi Alloy			
Plated Brass Terminations	Cadmium Free					
Solder Connections			Lead Free			
Moldings	Thermoplastic and Thermoset					
ROHS COMPLIANCE	For RoHS compliance documentation by product, refer to www.c3controls.com				w.c3controls.con	



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



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

II. POLES & CURRENT RATING

0220 0 0011112111 12111120				
DESCRIPTION	LIST			
SPDT, 15A (5 Blade)	_			
DPDT, 10A (8 Blade)	\$ 1.60			
	SPDT, 15A (5 Blade)			

III. COIL VOLTAGES
DESCRIPTION
24V AC
120V AC
220-240V AC
24V DC
48V DC
110V DC

IV. ACTUATOR OPTIONS				
DESCRIPTION	LIST			
No Light & Mechanical Actuator				
Light & Mechanical Actuator	\$ 2.00			
	DESCRIPTION No Light & Mechanical Actuator			

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

NOTE: See page 559 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 568 for soc	ket information.			



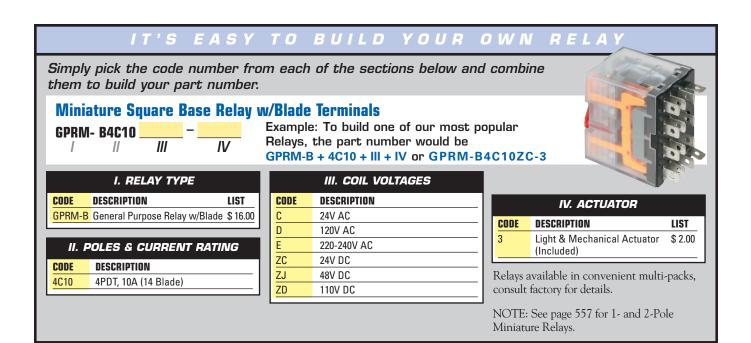


	UNI	TS						
ELECTRICAL RATINGS	OIN	10						
POLE COMBINATION			SP	nt	nı	PDT		
Contact Resistance	mΩ					00		
Dielectric Strength (Coil to Contact)		60 HZ - 1 Minute)	100 1500 V		1500 V			
Dielectric Strength (Between Contacts)		60 HZ - 1 Minute)	100	-		10 V		
Insulation Resistance (500 VDC)	MΩ [1000 V			00		
Max. Switching (ON/OFF) Mechanical		/Min.	240			40		
Max. Switching (ON/OFF) Electrical		/Min.	30			80		
Life Expectancy - Mechanical	<u> </u>	ons [Min]	10)M		
Life Expectancy - Elect (@ Rating)		ons [Min]	_	0K		0K		
Vibration: Endurance	1.0 mm (Doub		10 ~ !			55 Hz		
Vibration: Error Operation	1.0 mm (Doub	· · · · · · · · · · · · · · · · · · ·	10 ~ 5	55 Hz	10 ~	55 Hz		
Shock: Endurance		Лin.		00		00		
Shock: Error Operation	G N	Лin.	1	0	1	0		
Coil Operate Time (Pick-Up)	mSec	(Max.)	2	25		25		
Coil Release Time (Drop Out)	mSec	(Max.)	2	25		25		
Coil Temperature Rise (at rated voltage)	Deg C	. ,	6	60	6	60		
CONTACT RATING			•					
Rated Carrying Current			15 A		10 A			
Max. Allowable Voltage			240 VAC		240 VAC			
			110	VDC	120 VDC			
Capacity: Resistive Load	P.F. = 1.0		240 VAC - 15 A		240 VAC - 10 A			
			120 VA0	C - 15 A	120 VAC - 10 A			
			28 VDC - 15 A		28 VDC - 10 A			
Inductive Loads	P.F. = 0.4 [L/R = 7 mSec.]		28 VD	C - 7 A	28 VD(C - 5 A		
Motor Loads	120 V		1/2		1/2			
	240 V	AC	1/2 HP 10 VDC - 10 mA		1/2			
Minimum Recommended Load			10 VDC	- 10 mA	10 VDC	- 10 mA		
COIL SPECIFICATIONS (@ 20° C) — (SPDT & DPDT)								
COPDI & DEDIT	Nominal Current	Coil Resistance	Power	Pick-Up	Drop-Out	Max. Allowe		
NOMINAL COIL VOLTAGE (VOLTS)	(mA)	(+/- 10% OHMS)	Consumption	Voltage	Voltage	Voltage		
24 VAC (@ 60 HZ)	45	160	1.0 ~ 1.3 VA					
120 VAC (@ 60 HZ)	11.5	3,400	1.0 ~ 1.3 VA		30% Min. Rated	110% Rated		
220/240 VAC (@ 60 HZ)	5	13,600	1.0 ~ 1.3 VA	Rated	nateu	nateu		
24 VDC	36.9	650	0.9 W		400/ 14:	1100/		
48 VDC	18.5	2,600	0.9 W	80% Max. Rated	10% Min. Rated	110% Rated		
110 VDC	10	11,000	0.9 W	nateu	nateu	nateu		
ENVIRONMENTAL/PHYSICAL PARAMETERS								
Operating Ambient Temperature	-25	5° to +55° C (-13° to +13	31° F) Assumes a	DRY environmen	t — Enclosed			
Operating Humidity	45% to 85% RH (Recommended)							
Unit Weight (1 ~ 2 Pole Relay)	35g (1.2oz.)							
Relay and Socket Dimensions		See outlin	ne drawings on pa	ages 570 - 575				
MATERIALS & CONSTRUCTION								
Contacts			AgNi Alloy					
	Cadmium Free							
Plated Brass Terminations					Lead Free			
Solder Connections								
Plated Brass Terminations Solder Connections Moldings ROHS COMPLIANCE		The oHS compliance docur	ermoplastic and T					



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	the Coil Voltage Code. Refer to Chart III Coil Voltage above.			
See page 569 for soo	eket information.			





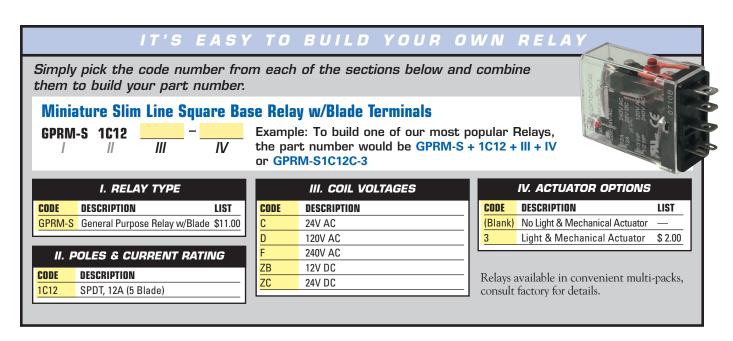
M	INIATURE SQUARE	BASE RELAYS W	ITH BLADE T	ERMINALS		
	UNI	TS				
ELECTRICAL RATINGS						
POLE COMBINATION				4	PDT	
Contact Resistance	m!	mΩ		100		
Dielectric Strength (Coil to Contact)	AC Volts (50/60	HZ - 1 Minute)	1500 V			
Dielectric Strength (Between Contacts)	AC Volts (50/60	HZ - 1 Minute)	1000 V			
Insulation Resistance (500 VDC)	MΩ [l	Min.]	100			
Max. Switching (ON/OFF) Mechanical	Oper.	/Min.		-	240	
Max. Switching (ON/OFF) Electrical	Oper.,	/Min.			30	
Life Expectancy - Mechanical	Operatio		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 M	· · · · · · · · · · · · · · · · · · ·			100	
Shock: Error Operation	G M	lin.			10	
Coil Operate Time (Pick-Up)	mSec (25	
Coil Release Time (Drop Out)	mSec (,			25	
Coil Temperature Rise (at rated voltage)	Deg C (· · ·			60	
CONTACT RATING		,,	-			
Rated Carrying Current				1	0 A	
Max. Allowable Voltage) VAC	
·····					VDC	
Capacity: Resistive Load	P.F. =	1.0	240 VAC - 10 A			
			120 VAC - 10 A			
			28 VDC - 10 A			
Inductive Loads	P.F. = 0.4 [L/I	R = 7 mSec.1	28 VDC - 5 A			
Motor Loads	120 \		1/3 HP			
	240 \	/AC		1/:	2 HP	
Minimum Recommended Load				10 VD(C - 10 mA	
COIL SPECIFICATIONS (@ 20° C) — (4PDT)						
NOMENAL CON VOLTAGE (VOLTA)	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						
Operating Ambient Temperature	-2	5° to +55° C (-13° to +1			nt — Enclosed	
Operating Humidity		45% to	o 85% RH (Recom	nmended)		
Jnit Weight (4 Pole Relay)			35g (1.2oz.)			
Relay and Socket Dimensions			See outline draw	ings on pages 57	/0 - 575	
MATERIALS & CONSTRUCTION						
	AgNi Alloy					
	Cadmium Free					
Plated Brass Terminations				ee		
Contacts Plated Brass Terminations Solder Connections			Lead Free			
Plated Brass Terminations		The	Lead Free ermoplastic and T	hermoset		



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: **Represent	ts the Coil Voltage Code. Refer to Chart III Coil Voltage above.		
See page 568 for so	ocket information.		





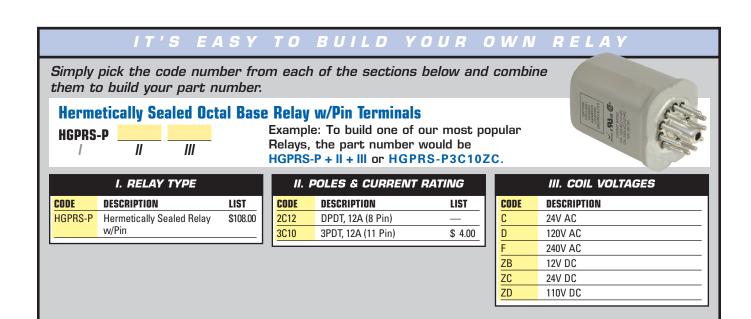
MINIATUI		UARE BASE RELA	YS WITH BLA	ADE TERMIN	ALS	
	UN	ITS				
ELECTRICAL RATINGS						
POLE COMBINATION				S	PDT	
Contact Resistance	m	Ω	50			
Dielectric Strength (Coil to Contact)	AC Volts (50/60	HZ - 1 Minute)	2000 V			
Dielectric Strength (Between Contacts)	AC Volts (50/60	HZ - 1 Minute)	1000 V			
Insulation Resistance (500 VDC)	ΜΩ [Min.]		1	00	
Max. Switching (ON/OFF) Mechanical	Oper	/Min.			240	
Max. Switching (ON/OFF) Electrical		/Min.			30	
Life Expectancy - Mechanical	- 1	ons [Min]			0M	
Life Expectancy - Elect (@ 120 V Rating)		ons [Min]			00K	
Vibration: Endurance		ole Amplitude)			· 55 Hz	
Vibration: Error Operation	· · · · · · · · · · · · · · · · · · ·	ole Amplitude)			55 Hz	
Shock: Endurance		Min.			00	
Shock: Error Operation		∕iin.			10	
·					20	
Coil Operate Time (Pick-Up)		(Max.)				
Coil Release Time (Drop Out)		(Max.)			20	
Coil Temperature Rise (at rated voltage)	Deg C	(Max.)			85	
CONTACT RATING						
Rated Carrying Current					2 A	
Max. Allowable Voltage			240 VAC 110 VDC			
Capacity: Resistive Load	P.F. =	- 1 N	240 VAC - 12 A			
oupacity. Hesistive Load	1.1	- 1.0	24 VDC - 12 A			
Inductive Loads	DE _ 0.4 [I./	R = 7 mSec.]	24 VDC - 12 A 240 VAC - 7 A			
muuctive Loaus	1.1. – 0.4 [L/	11 – 7 111066.]			C - 7 A	
Minimum Recommended Load					- 10 mA	
COIL SPECIFICATIONS (@ 20° C) — (SPDT)				10 120	10 115 (
	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)	72	180	1.7 VA	OE0/ M/	200/ 1/4:	1100/
120 VAC (@ 60 HZ)	14	4,300	1.7 VA	85% Max. Rated	30% Min. Rated	110% Rated
240 VAC (@ 60 HZ)	7	15,720	1.7 VA	Hateu	nateu	nateu
12 VDC	64	188	0.8 W	80% Max.	10% Min.	110%
24 VDC	32	750	0.8 W	Rated	Rated	Rated
ENVIRONMENTAL/PHYSICAL PARAMETERS			•			
Operating Ambient Temperature	-3	30° to +70° C (-22° to +1	58° F) Assumes a	DRY environme	nt — Enclosed	
Operating Humidity		45% t	o 85% RH (Recom	nmended)		
Unit Weight			24g (0.9oz.)	,		
Relay and Socket Dimensions		See outline	drawings on page	es 570 - 575		
MATERIALS & CONSTRUCTION		300 0441110				
Contacts			AgNi Alloy			
Plated Brass Terminations			Cadmium Fre	20		
			Lead Free	50		
Solder Connections		TL -		harmaast		
Moldings	F 5		rmoplastic and T			
ROHS COMPLIANCE	For R	oHS compliance docur	nentation by prod	uct, reter to ww	w.c3controls.com	1



HERMETICALLY SEALED OCTAL BASE RELAYS W/PIN TERMINALS

- 12A, DPDT and 12A, 3PDT, for control circuit application flexibility.
- 1/3 HP @ 120V AC, 1/2 HP @ 240V AC.
- AC and DC coils.
- Temperature Code T4A.
- 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.

- Vacuum baked and dry nitrogen filled removes contaminants and provides a clean and dry atmosphere for contacts.
- Plug-in style, uses standard sockets (see page 567).
- Schematic diagram and terminal markings on the relay for easy reference during installation.
- Low coil consumption to minimize transformer and power supply requirements.
- 100% tested to ensure performance to specifications.
- cURus and CSA.



	COMPATIBLE SOCKETS		
RELAY TYPE	COMPATIBLE SOCKETS		
HGPRS-P2C12*	GPRA-SP08G1 with IP20 Guarded Terminals GPRA-SP08U1 with Open Style Terminals		
HGPRS-P3C10*	GPRA-SP11G1 with IP20 Guarded Terminals GPRA-SP11U1 with Open Style Terminals		
NOTE: **Represents the Coil Voltage Code. Refer to Chart III <i>Coil Voltage</i> above.			
See page 567 for so	cket information.		



Octal Base w/Pin Terminals / HERMETICALLY SEALED

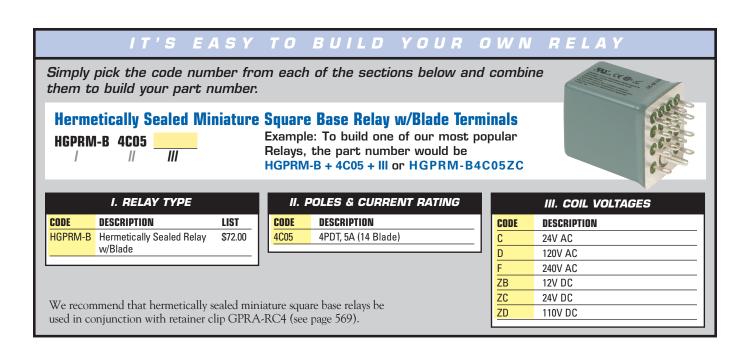


HERMETIC	CALLY SEALED OCTAL BASE RE	LAYS WITH PI	N TERMINAL	.s	
	UNITS				
ELECTRICAL RATINGS					
POLE COMBINATION		DP	DT	31	PDT
Dielectric Strength (Coil to Contact)	AC Volts (50/60 HZ - 1 Minute)	1250 V		125	50 V
Dielectric Strength (Between Contacts)	AC Volts (50/60 HZ - 1 Minute)	125	0 V	125	50 V
Insulation Resistance (500 VDC)	MΩ [Min.]	10	00	1	00
Max. Switching (ON/OFF) Electrical	Oper./Min.	6			6
Life Expectancy - Mechanical	Operations [Min]	5M		5	M
Life Expectancy - Elect (@120 V Resistive)	Operations [Min]	100K		100K	
Vibration: Endurance	1.0 mm (Double Amplitude)	10 ~	55 Hz	10 ~ 55 Hz	
	G Min.	3	3	3	
Shock:	Mechanical	10	G	10) G
Coil Operate Time (Pick-Up)	mSec (Max.)	1	5		15
Coil Release Time (Drop Out)	mSec (Max.)	1			10
CONTACT RATING	mose (max.)		<u> </u>		
Rated Carrying Current		12	Δ	13	2 A
Max. Allowable Voltage			VAC		VAC
viax. Allowable voltage		1	/DC		VDC
Consoity Posistive Load	P.F. = 1.0				
Capacity: Resistive Load	r.r. = 1.U	240 VA(C - 6 A
		120 VA(C - 10 A
	DE 0.17/0 = 0.1	28 VDC			C - 10 A
Inductive Loads	P.F. = 0.4 [L/R = 7 mSec.]	240 VAC	-		AC - 4 A
		120 VA0			AC - 7 A
		28 VD	C - 7 A		C - 7 A
Motor Loads	120 VAC	1/3		1/3 HP	
	240 VAC	1/2		1/2 HP	
Minimum Recommended Load	Switching [0.5 watts]	100 mA	@ 5 VDC	100 mA	@ 5 VDC
COIL SPECIFICATIONS (@ 25° C (77° F)) — (DPDT)					
Temperature Code		T4A			T
NOMINAL COIL VOLTAGE (VOLTS)	Coil Resistance (+/- 10% OHMS)	Power Consumption	Pick-Up Voltage	Drop-Out Voltage	Max. Allowed Voltage
24 VAC (@ 60 HZ)	72	1.2 VA	050/ 84	4E0/ B4:	1100/
120 VAC (@ 60 HZ)	1,700	1.2 VA	85% Max. Rated	15% Min. Rated	110% Rated
240 VAC (@ 60 HZ)	7,200	1.2 VA	nateu	nateu	nateu
	1,200				
12 VDC	120	0.9 W			
		0.9 W 0.9 W	80% Max.	10% Min.	110%
12 VDC 24 VDC	120 470	0.9 W	80% Max. Rated	10% Min. Rated	110% Rated
12 VDC 24 VDC 110 VDC	120				
12 VDC 24 VDC 110 VDC Coil Specifications (@ 25° C (77° F)) — (3PDT)	120 470	0.9 W 0.9 W	Rated		
12 VDC 24 VDC 110 VDC COIL SPECIFICATIONS (@ 25° C (77° F)) — (3PDT)	120 470	0.9 W 0.9 W	Rated	Rated	Rated
12 VDC 24 VDC 110 VDC COIL SPECIFICATIONS (@ 25° C (77° F)) — (3PDT) Temperature Code	120 470	0.9 W 0.9 W	Rated		Rated
12 VDC 24 VDC 110 VDC COIL SPECIFICATIONS (@ 25° C (77° F)) — (3PDT) Temperature Code	120 470 10,000	0.9 W 0.9 W T4A	Rated Pick-Up Voltage	Rated Drop-Out Voltage	Rated Max. Allowed Voltage
12 VDC 24 VDC 110 VDC COIL SPECIFICATIONS (@ 25° C (77° F)) — (3PDT) Temperature Code NOMINAL COIL VOLTAGE (VOLTS)	120 470 10,000 Coil Resistance (+/- 10% OHMS)	0.9 W 0.9 W T4A Power Consumption	Pick-Up Voltage 85% Max.	Drop-Out Voltage	Max. Allowed Voltage
12 VDC 24 VDC 110 VDC COIL SPECIFICATIONS (@ 25° C (77° F)) — (3PDT) Temperature Code NOMINAL COIL VOLTAGE (VOLTS) 24 VAC (@ 60 HZ)	120 470 10,000 Coil Resistance (+/- 10% OHMS) 72 1,700	0.9 W 0.9 W T4A Power Consumption 2 VA 2 VA	Rated Pick-Up Voltage	Rated Drop-Out Voltage	Rated Max. Allowed Voltage
12 VDC 24 VDC 110 VDC COIL SPECIFICATIONS (@ 25° C (77° F)) — (3PDT) Temperature Code NOMINAL COIL VOLTAGE (VOLTS) 24 VAC (@ 60 HZ) 120 VAC (@ 60 HZ) 240 VAC (@ 60 HZ)	120 470 10,000 Coil Resistance (+/- 10% OHMS) 72 1,700 7,200	0.9 W 0.9 W T4A Power Consumption 2 VA 2 VA 2 VA	Pick-Up Voltage 85% Max.	Drop-Out Voltage	Max. Allowed Voltage
12 VDC 24 VDC 110 VDC COIL SPECIFICATIONS (@ 25° C (77° F)) — (3PDT) Temperature Code NOMINAL COIL VOLTAGE (VOLTS) 24 VAC (@ 60 HZ) 120 VAC (@ 60 HZ) 240 VAC (@ 60 HZ) 12 VDC	120 470 10,000 Coil Resistance (+/- 10% OHMS) 72 1,700 7,200 120	0.9 W 0.9 W T4A Power Consumption 2 VA 2 VA 2 VA 1.2 W	Pick-Up Voltage 85% Max.	Drop-Out Voltage	Max. Allowed Voltage
12 VDC 24 VDC 110 VDC 20IL SPECIFICATIONS (@ 25° C (77° F)) — (3PDT) Temperature Code NOMINAL COIL VOLTAGE (VOLTS) 24 VAC (@ 60 HZ) 120 VAC (@ 60 HZ) 240 VAC (@ 60 HZ) 12 VDC 24 VDC	120 470 10,000 Coil Resistance (+/- 10% OHMS) 72 1,700 7,200 120 470	0.9 W 0.9 W T4A Power Consumption 2 VA 2 VA 2 VA 1.2 W 1.2 W	Pick-Up Voltage 85% Max. Rated	Drop-Out Voltage 15% Min. Rated	Max. Allowed Voltage 110% Rated
12 VDC 24 VDC 110 VDC 20IL SPECIFICATIONS (@ 25° C (77° F)) — (3PDT) Temperature Code NOMINAL COIL VOLTAGE (VOLTS) 24 VAC (@ 60 HZ) 120 VAC (@ 60 HZ) 240 VAC (@ 60 HZ) 12 VDC 24 VDC 110 VDC	120 470 10,000 Coil Resistance (+/- 10% OHMS) 72 1,700 7,200 120	0.9 W 0.9 W T4A Power Consumption 2 VA 2 VA 2 VA 1.2 W	Pick-Up Voltage 85% Max. Rated	Drop-Out Voltage 15% Min. Rated	Max. Allowed Voltage 110% Rated
12 VDC 24 VDC 110 VDC COIL SPECIFICATIONS (@ 25° C (77° F)) — (3PDT) Temperature Code NOMINAL COIL VOLTAGE (VOLTS) 24 VAC (@ 60 HZ) 120 VAC (@ 60 HZ) 240 VAC (@ 60 HZ) 12 VDC 24 VDC 110 VDC ENVIRONMENTAL/PHYSICAL PARAMETERS	120 470 10,000 Coil Resistance (+/- 10% OHMS) 72 1,700 7,200 120 470 10,000	0.9 W 0.9 W T4A Power Consumption 2 VA 2 VA 2 VA 1.2 W 1.2 W	Pick-Up Voltage 85% Max. Rated 80% Max. Rated	Drop-Out Voltage 15% Min. Rated	Max. Allowed Voltage 110% Rated
12 VDC 24 VDC 110 VDC COIL SPECIFICATIONS (@ 25° C (77° F)) — (3PDT) Temperature Code NOMINAL COIL VOLTAGE (VOLTS) 24 VAC (@ 60 HZ) 120 VAC (@ 60 HZ) 240 VAC (@ 60 HZ) 12 VDC 24 VDC 110 VDC ENVIRONMENTAL/PHYSICAL PARAMETERS Operating Ambient Temperature	120 470 10,000 Coil Resistance (+/- 10% OHMS) 72 1,700 7,200 120 470 10,000	0.9 W 0.9 W T4A Power Consumption 2 VA 2 VA 1.2 W 1.2 W 1.2 W ed: -40° to +55° C (Pick-Up Voltage 85% Max. Rated 80% Max. Rated	Drop-Out Voltage 15% Min. Rated	Max. Allowed Voltage 110% Rated
12 VDC 24 VDC 110 VDC COIL SPECIFICATIONS (@ 25° C (77° F)) — (3PDT) Temperature Code NOMINAL COIL VOLTAGE (VOLTS) 24 VAC (@ 60 HZ) 120 VAC (@ 60 HZ) 240 VAC (@ 60 HZ) 12 VDC 24 VDC 110 VDC ENVIRONMENTAL/PHYSICAL PARAMETERS Operating Ambient Temperature Assumes a DRY environment — Enclosed	120 470 10,000 Coil Resistance (+/- 10% OHMS) 72 1,700 7,200 120 470 10,000 AC: Operate DC Operated	0.9 W 0.9 W T4A Power Consumption 2 VA 2 VA 1.2 W 1.2 W 1.2 W 1.2 W 1.4 C + 40° to +55° C (-45° to +55° C (-	Pick-Up Voltage 85% Max. Rated 80% Max. Rated	Drop-Out Voltage 15% Min. Rated	Max. Allowed Voltage 110% Rated
12 VDC 24 VDC 110 VDC COIL SPECIFICATIONS (@ 25° C (77° F)) — (3PDT) Temperature Code NOMINAL COIL VOLTAGE (VOLTS) 24 VAC (@ 60 HZ) 120 VAC (@ 60 HZ) 240 VAC (@ 60 HZ) 12 VDC 24 VDC 110 VDC ENVIRONMENTAL/PHYSICAL PARAMETERS Operating Ambient Temperature Assumes a DRY environment — Enclosed Operating Humidity	120 470 10,000 Coil Resistance (+/- 10% OHMS) 72 1,700 7,200 120 470 10,000 AC: Operate DC Operated	0.9 W 0.9 W T4A Power Consumption 2 VA 2 VA 2 VA 1.2 W 1.2 W 1.2 W 1.2 W 1.2 W 1.45° to +55° C (-49) to 85% RH (Recom	Pick-Up Voltage 85% Max. Rated 80% Max. Rated -49° to +131° F) roto + 131° F) mended)	Drop-Out Voltage 15% Min. Rated	Max. Allowed Voltage 110% Rated
12 VDC 24 VDC 110 VDC COIL SPECIFICATIONS (@ 25° C (77° F)) — (3PDT) Temperature Code NOMINAL COIL VOLTAGE (VOLTS) 24 VAC (@ 60 HZ) 120 VAC (@ 60 HZ) 240 VAC (@ 60 HZ) 12 VDC 24 VDC 110 VDC ENVIRONMENTAL/PHYSICAL PARAMETERS Operating Ambient Temperature Assumes a DRY environment — Enclosed Operating Humidity Unit Weight (2 ~ 3 Pole Relay)	120 470 10,000 Coil Resistance (+/- 10% OHMS) 72 1,700 7,200 120 470 10,000 AC: Operated DC Operated	0.9 W 0.9 W T4A Power Consumption 2 VA 2 VA 1.2 W 1.2 W 1.2 W 1.2 W 1.2 W 1.45° to +55° C (-49) to 85% RH (Recom	Pick-Up Voltage 85% Max. Rated 80% Max. Rated -49° to +131° F) roto + 131° F) mended)	Drop-Out Voltage 15% Min. Rated	Max. Allowed Voltage 110% Rated
12 VDC 24 VDC 110 VDC COIL SPECIFICATIONS (@ 25° C (77° F)) — (3PDT) Temperature Code NOMINAL COIL VOLTAGE (VOLTS) 24 VAC (@ 60 HZ) 120 VAC (@ 60 HZ) 120 VAC (@ 60 HZ) 12 VDC 24 VDC 110 VDC ENVIRONMENTAL/PHYSICAL PARAMETERS Operating Ambient Temperature Assumes a DRY environment — Enclosed Operating Humidity Unit Weight (2 ~ 3 Pole Relay) Relay and Socket Dimensions	120 470 10,000 Coil Resistance (+/- 10% OHMS) 72 1,700 7,200 120 470 10,000 AC: Operated DC Operated	0.9 W 0.9 W T4A Power Consumption 2 VA 2 VA 2 VA 1.2 W 1.2 W 1.2 W 1.2 W 1.2 W 1.45° to +55° C (-49) to 85% RH (Recom	Pick-Up Voltage 85% Max. Rated 80% Max. Rated -49° to +131° F) roto + 131° F) mended)	Drop-Out Voltage 15% Min. Rated	Max. Allowed Voltage 110% Rated
12 VDC 24 VDC 110 VDC COIL SPECIFICATIONS (@ 25° C (77° F)) — (3PDT) Temperature Code NOMINAL COIL VOLTAGE (VOLTS) 24 VAC (@ 60 HZ) 120 VAC (@ 60 HZ) 120 VAC (@ 60 HZ) 12 VDC 24 VDC 110 VDC ENVIRONMENTAL/PHYSICAL PARAMETERS Operating Ambient Temperature Assumes a DRY environment — Enclosed Operating Humidity Unit Weight (2 ~ 3 Pole Relay) Relay and Socket Dimensions MATERIALS & CONSTRUCTION	120 470 10,000 Coil Resistance (+/- 10% OHMS) 72 1,700 7,200 120 470 10,000 AC: Operated DC Operated	0.9 W 0.9 W T4A Power Consumption 2 VA 2 VA 1.2 W 1.3 W 1.45° to +55° C (-45° to +55° to +55° C (-45° to +55° to +55° C (-45° to +55°	Pick-Up Voltage 85% Max. Rated 80% Max. Rated -49° to +131° F) roto + 131° F) mended)	Drop-Out Voltage 15% Min. Rated	Max. Allowed Voltage 110% Rated
12 VDC 24 VDC 110 VDC COIL SPECIFICATIONS (@ 25° C (77° F)) — (3PDT) Temperature Code NOMINAL COIL VOLTAGE (VOLTS) 24 VAC (@ 60 HZ) 120 VAC (@ 60 HZ) 240 VAC (@ 60 HZ) 12 VDC 24 VDC 110 VDC ENVIRONMENTAL/PHYSICAL PARAMETERS Operating Ambient Temperature Assumes a DRY environment — Enclosed Operating Humidity Unit Weight (2 ~ 3 Pole Relay) Relay and Socket Dimensions MATERIALS & CONSTRUCTION Contacts	120 470 10,000 Coil Resistance (+/- 10% OHMS) 72 1,700 7,200 120 470 10,000 AC: Operated DC Operated	0.9 W 0.9 W T4A Power Consumption 2 VA 2 VA 1.2 W 1.45° to +55° C (-48) to 85% RH (Recom 130g (4.6 oz.) ine drawings on pa	Pick-Up Voltage 85% Max. Rated 80% Max. Rated -49° to +131° F) or to + 131° F) or mended) or ages 570 - 575	Drop-Out Voltage 15% Min. Rated	Max. Allowed Voltage 110% Rated
12 VDC 24 VDC 110 VDC COIL SPECIFICATIONS (@ 25° C (77° F)) — (3PDT) Temperature Code NOMINAL COIL VOLTAGE (VOLTS) 24 VAC (@ 60 HZ) 120 VAC (@ 60 HZ) 120 VAC (@ 60 HZ) 12 VDC 24 VDC 110 VDC ENVIRONMENTAL/PHYSICAL PARAMETERS Operating Ambient Temperature Assumes a DRY environment — Enclosed Operating Humidity Unit Weight (2 ~ 3 Pole Relay) Relay and Socket Dimensions MATERIALS & CONSTRUCTION Contacts Plated Terminations	120 470 10,000 Coil Resistance (+/- 10% OHMS) 72 1,700 7,200 120 470 10,000 AC: Operated DC Operated	0.9 W 0.9 W T4A Power Consumption 2 VA 2 VA 1.2 W 1.3 W 1.45° to +55° C (-49) 130g (4.6 oz.) ine drawings on pa	Pick-Up Voltage 85% Max. Rated 80% Max. Rated -49° to +131° F) or to + 131° F) or mended) or ages 570 - 575	Drop-Out Voltage 15% Min. Rated	Max. Allowed Voltage 110% Rated
12 VDC 24 VDC 110 VDC COIL SPECIFICATIONS (@ 25° C (77° F)) — (3PDT) Temperature Code NOMINAL COIL VOLTAGE (VOLTS) 24 VAC (@ 60 HZ) 120 VAC (@ 60 HZ) 240 VAC (@ 60 HZ) 12 VDC 24 VDC 110 VDC ENVIRONMENTAL/PHYSICAL PARAMETERS Operating Ambient Temperature Assumes a DRY environment — Enclosed Operating Humidity Unit Weight (2 ~ 3 Pole Relay) Relay and Socket Dimensions MATERIALS & CONSTRUCTION Contacts Plated Terminations Solder Connections	120 470 10,000 Coil Resistance (+/- 10% OHMS) 72 1,700 7,200 120 470 10,000 AC: Operated 35% See outl	0.9 W 0.9 W T4A Power Consumption 2 VA 2 VA 1.2 W 1.45° to +55° C (-49) to 85% RH (Recom 130g (4.6 oz.) ine drawings on pa Ag Alloy Cadmium Free Lead Free	Pick-Up Voltage 85% Max. Rated 80% Max. Rated -49° to +131° F) or to + 131° F) or mended) or ages 570 - 575	Drop-Out Voltage 15% Min. Rated 10% Min. Rated	Max. Allowed Voltage 110% Rated
12 VDC 24 VDC 110 VDC COIL SPECIFICATIONS (@ 25° C (77° F)) — (3PDT) Temperature Code NOMINAL COIL VOLTAGE (VOLTS) 24 VAC (@ 60 HZ) 120 VAC (@ 60 HZ) 120 VAC (@ 60 HZ) 12 VDC 24 VDC 110 VDC ENVIRONMENTAL/PHYSICAL PARAMETERS Operating Ambient Temperature Assumes a DRY environment — Enclosed Operating Humidity Unit Weight (2 ~ 3 Pole Relay) Relay and Socket Dimensions MATERIALS & CONSTRUCTION Contacts Plated Terminations Solder Connections Moldings	120 470 10,000 Coil Resistance (+/- 10% OHMS) 72 1,700 7,200 120 470 10,000 AC: Operated DC Operated 35% See outl	0.9 W 0.9 W T4A Power Consumption 2 VA 2 VA 1.2 W 1.2 W 1.2 W 1.2 W 1.3 W 1.2 W 1.2 W 1.2 W 1.3 W 1.45° to +55° C (-49) 1.45° to +55° C (-49) 1.5 W 1.5 W 1.6 OZ. ine drawings on passes of the drawings o	Pick-Up Voltage 85% Max. Rated 80% Max. Rated -49° to +131° F) or to + 131° F) ormended) orges 570 - 575	Drop-Out Voltage 15% Min. Rated 10% Min. Rated	Max. Allowed Voltage 110% Rated
12 VDC 24 VDC 110 VDC COIL SPECIFICATIONS (@ 25° C (77° F)) — (3PDT) Temperature Code NOMINAL COIL VOLTAGE (VOLTS) 24 VAC (@ 60 HZ) 120 VAC (@ 60 HZ) 240 VAC (@ 60 HZ) 12 VDC 24 VDC 110 VDC ENVIRONMENTAL/PHYSICAL PARAMETERS Operating Ambient Temperature	120 470 10,000 Coil Resistance (+/- 10% OHMS) 72 1,700 7,200 120 470 10,000 AC: Operated DC Operated 35% See outl	0.9 W 0.9 W T4A Power Consumption 2 VA 2 VA 1.2 W 1.2 W 1.2 W 1.2 W 1.2 W 1.3 g (4.6 oz.) ine drawings on pa Ag Alloy Cadmium Free Lead Free Stic and Thermoset Steel with baked en	Pick-Up Voltage 85% Max. Rated 80% Max. Rated -49° to +131° F) romended) ages 570 - 575 ee Rated UL-94V(Drop-Out Voltage 15% Min. Rated 10% Min. Rated	Max. Allowed Voltage 110% Rated 110% Rated



HERMETICALLY SEALED MINIATURE SQUARE BASE RELAYS W/BLADE TERMINALS

- 5A, 4PDT for control circuit application flexibility.
- AC and DC coils.
- Suitable for use in Class 1, Division 2 Group A, B, C and D, and Zone 2, Group IIA, IIB and IIC Hazardous Locations.
- Temperature Code T4A.
- Hermetically sealed metal enclosure.
- Vacuum baked and dry nitrogen filled removes contaminants and provides a clean and dry atmosphere for contacts.
- Plug-in style, uses standard sockets (see page 569).
- Schematic diagram and terminal markings on the relay for easy reference during installation.
- Low coil consumption to minimize transformer and power supply requirements.
- cURus, CSA and CE for acceptance in global applications.
- 100% tested to ensure performance to specifications.



	COMPATIBLE SOCKETS
RELAY TYPE	COMPATIBLE SOCKETS
HGPRM-B4C05**	GPRA-SB14U1 with Open Style Terminals
NOTE: **Represent	s the Coil Voltage Code. Refer to Chart III Coil Voltage above.
See page 569 for so	ocket information.





	ALED MINIATURE SQUARE BA	JE RELATS W	beabe		
LECTRICAL RATINGS	UNITS				
				IDDT	
POLE COMBINATION	AOV 1. (50/00 HZ 4 M2 4)			PDT	
Dielectric Strength (Coil to Contact)	AC Volts (50/60 HZ - 1 Minute)		1240 V		
ielectric Strength (Between Contacts)	, ,	AC Volts (50/60 HZ - 1 Minute) 500 V			
nsulation Resistance (500 VDC)	MΩ [Min.]			100	
Max. Switching (ON/OFF) Mechanical	Oper./Min.			30	
Max. Switching (ON/OFF) Electrical	Oper./Min.			6	
fe Expectancy - Mechanical	Operations [Min]			0M	
ife Expectancy - Elect (@120 V Resistive)	Operations [Min]			00K	
ibration: Endurance	1.0 mm (Double Amplitude)		10 ~	- 55 Hz	
	G Min.			3	
hock	Functional		1	0 G	
oil Operate Time (Pick-Up)	mSec (Max.)			13	
oil Release Time (Drop Out)	mSec (Max.)			6	
ONTACT RATING					
ated Carrying Current				5 A	
/lax. Allowable Voltage			24	0 VAC	
			30	VDC	
apacity: Resistive Load	P.F. = 1.0		240 VA	AC - 5 A	
• •			120 V	AC - 5 A	
		30 VDC - 5 A			
nductive Loads	P.F. = 0.4 [L/R = 7 mSec.]	240 VAC - 3 A			
		120 VAC - 3 A 30 VDC - 2 A			
4: · · · D	0 '. 1' [40/D0]				
/Inimum Recommended Load	Switching [AC/DC]	100 mA @ 5 VDC			
OIL SPECIFICATIONS (@ 25° C (77° F)) — (4PDT)		T4A			
emperature Code		T4A			T
OMINAL COIL VOLTAGE (VOLTS)	Coil Resistance (+/- 10% OHMS)	Power Consumption	Pick-Up Voltage	Drop-Out Voltage	Max. Allowed Voltage
24 VAC (@ 60 HZ)	180	1.2 VA	OEO/ May	1EO/ Min	110%
400 \ / 4 0 (@ 00 117)			85% Max.	15% Min.	
120 VAC (@ 60 HZ)	4,430	1.2 VA	Rated	Rated	
120 VAC (@ 60 HZ) 240 VAC (@ 60 HZ)	4,430 15,720	1.2 VA 1.2 VA		Rated	Rated
			Rated		Rated
240 VAC (@ 60 HZ)	15,720	1.2 VA	Rated 80% Max.	10% Min.	Rated 110%
240 VAC (@ 60 HZ) 12 VDC	15,720 160	1.2 VA 0.9 W	Rated		Rated
240 VAC (@ 60 HZ) 12 VDC 24 VDC	15,720 160 650	1.2 VA 0.9 W 0.9 W	Rated 80% Max.	10% Min.	Rated 110%
240 VAC (@ 60 HZ) 12 VDC 24 VDC 110 VDC NVIRONMENTAL/PHYSICAL PARAMETERS	15,720 160 650	1.2 VA 0.9 W 0.9 W 0.9 W	Rated 80% Max. Rated	10% Min. Rated	Rated 110%
240 VAC (@ 60 HZ) 12 VDC 24 VDC 110 VDC NVIRONMENTAL/PHYSICAL PARAMETERS perating Ambient Temperature	15,720 160 650 13,800	1.2 VA 0.9 W 0.9 W 0.9 W	Rated 80% Max. Rated DRY environme	10% Min. Rated	Rated 110%
240 VAC (@ 60 HZ) 12 VDC 24 VDC 110 VDC WVIRONMENTAL/PHYSICAL PARAMETERS perating Ambient Temperature perating Humidity	15,720 160 650 13,800	1.2 VA 0.9 W 0.9 W 0.9 W 158° F) Assumes a to 85% RH (Recom	Rated 80% Max. Rated DRY environme	10% Min. Rated	Rated 110%
240 VAC (@ 60 HZ) 12 VDC 24 VDC 110 VDC NVIRONMENTAL/PHYSICAL PARAMETERS perating Ambient Temperature perating Humidity nit Weight (4 Pole Relay)	15,720 160 650 13,800 -40° to +70° C (-49° to +	1.2 VA 0.9 W 0.9 W 0.9 W 158° F) Assumes a to 85% RH (Recom 45g (1.6 oz.)	Rated 80% Max. Rated DRY environmenmended)	10% Min. Rated	Rated 110%
240 VAC (@ 60 HZ) 12 VDC 24 VDC 110 VDC NVIRONMENTAL/PHYSICAL PARAMETERS perating Ambient Temperature perating Humidity nit Weight (4 Pole Relay) elay and Socket Dimensions	15,720 160 650 13,800 -40° to +70° C (-49° to +	1.2 VA 0.9 W 0.9 W 0.9 W 158° F) Assumes a to 85% RH (Recom	Rated 80% Max. Rated DRY environmenmended)	10% Min. Rated	Rated 110%
240 VAC (@ 60 HZ) 12 VDC 24 VDC 110 VDC NVIRONMENTAL/PHYSICAL PARAMETERS perating Ambient Temperature perating Humidity nit Weight (4 Pole Relay) elay and Socket Dimensions IATERIALS & CONSTRUCTION	15,720 160 650 13,800 -40° to +70° C (-49° to +	1.2 VA 0.9 W 0.9 W 0.9 W 158° F) Assumes a to 85% RH (Recom 45g (1.6 oz.)	Rated 80% Max. Rated DRY environmenmended)	10% Min. Rated	Rated 110%
240 VAC (@ 60 HZ) 12 VDC 24 VDC 110 VDC NVIRONMENTAL/PHYSICAL PARAMETERS Iperating Ambient Temperature Iperating Humidity Init Weight (4 Pole Relay) Internals & CONSTRUCTION	15,720 160 650 13,800 -40° to +70° C (-49° to +	1.2 VA 0.9 W 0.9 W 0.9 W 158° F) Assumes a to 85% RH (Recom 45g (1.6 oz.)	Rated 80% Max. Rated DRY environmenmended)	10% Min. Rated	Rated 110%
240 VAC (@ 60 HZ) 12 VDC 24 VDC 110 VDC NVIRONMENTAL/PHYSICAL PARAMETERS perating Ambient Temperature perating Humidity nit Weight (4 Pole Relay) elay and Socket Dimensions IATERIALS & CONSTRUCTION ontacts lated Terminations	15,720 160 650 13,800 -40° to +70° C (-49° to +	1.2 VA 0.9 W 0.9 W 0.9 W 158° F) Assumes a to 85% RH (Recom 45g (1.6 oz.) drawings on page Ag Alloy Cadmium Fro	Rated 80% Max. Rated DRY environmenmended)	10% Min. Rated	Rated 110%
240 VAC (@ 60 HZ) 12 VDC 24 VDC 110 VDC NVIRONMENTAL/PHYSICAL PARAMETERS Operating Ambient Temperature Operating Humidity Init Weight (4 Pole Relay) Itelay and Socket Dimensions MATERIALS & CONSTRUCTION Initiation of the state of the	15,720 160 650 13,800 -40° to +70° C (-49° to +35% See outline	1.2 VA 0.9 W 0.9 W 0.9 W 158° F) Assumes a to 85% RH (Recom 45g (1.6 oz.) a drawings on page Ag Alloy Cadmium Free Lead Free	Rated 80% Max. Rated DRY environmenmended) es 570 - 575	10% Min. Rated	Rated 110%
240 VAC (@ 60 HZ) 12 VDC 24 VDC 110 VDC NVIRONMENTAL/PHYSICAL PARAMETERS Iperating Ambient Temperature Iperating Humidity Init Weight (4 Pole Relay)	15,720 160 650 13,800 -40° to +70° C (-49° to +35% See outline	1.2 VA 0.9 W 0.9 W 0.9 W 158° F) Assumes a to 85% RH (Recom 45g (1.6 oz.) drawings on page Ag Alloy Cadmium Fro	Rated 80% Max. Rated DRY environmenmended) es 570 - 575	10% Min. Rated	Rated 110%



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 or DIN Rail Mount

CURRENT CARRYING MEMBERS:

Phosphor Bronze Nickel Plated Steel

TERMINALS: IP20, Screw w/captive wire clamps RECOMMENDED TORQUE: 7-10 lb-in. [.8-1.1 Nm]

ELECTRICAL RATING: 10A, 600V AC

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

FOR USE WITH:

GENERAL PURPOSE RELAY: GPRS-P2C10** and HGPRS-P2C12**

NOTE: **Represents the Coil Voltage Code. For Coil Voltage Codes refer to pages 547 and 563.

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			
CURRENT CARR	YING MEMBERS:			
Phosphor Bronze Nickel Plated Steel				
TERMINALS: Open style, Screw w/captive				
wire clamps.				
RECOMMENDED 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.		
COD HEE WITH.		•		

FOR USE WITH:

GENERAL PURPOSE RELAY: GPRS-P2C10** and HGPRS-P2C12**

NOTE: **Represents the Coil Voltage Code. For Coil Voltage Codes refer to pages 547 and 563.

RETAINER CLIP: GPRA-RC3



TTP	N GUARDED,	TUA		
CODE	DESCRIPTION	LIST		
GPRA-SP11G1	11 Pin Guarded	\$6.00		
SPECIFICATIONS:				
TYPE: Surface o	r DIN Rail Mount			
CURRENT CARRYING MEMBERS: Phosphor Bronze Nickel Plated Steel				
TERMINALS: IP20, Screw w/captive wire clamps				
RECOMMENDE	D TORQUE: 7-10 lb-	in. [.8-1.1 Nm]		
ELECTRICAL RA	TING: 10A, 600V A	3		
ROHS COMPLIANCE: For documentation by product, refer to www.c3controls.com.				
FOR USE WITH:				
GENERAL PURP	OSE RELAY: GPRS-	P3C10**		





11 PIN UNGUARDED, 10A						
CODE	DESCRIPTION	LIST				
GPRA-SP11U1	11 Pin Unguarded	\$6.00				
SPECIFICATIONS	:					
TYPE: Surface of	r DIN Rail Mount					
CURRENT CARE	RYING MEMBERS:					
Phosphor B	ronze Nickel Plated Ste	eel				
TERMINALS: 0	pen style, Screw w/cap	otive				
wire clamps.						
RECOMMENDE	D TORQUE: 7-10 lb-in. [.8-1.1 Nm]				
ELECTRICAL RA	TING: 10A, 600V AC					
ROHS COMPLIA	ANCE: For documenta	tion by				
	product, refer to www.c3controls.com.					
FOR USE WITH:						
	OSE RELAY: GPRS-P30	210**				
and HGPRS	-P3C10**					
NOTE: **Represe	nts the Coil Voltage Code.	For Coil				

Voltage Codes refer to pages 547 and 563.

RETAINER CLIP: GPRA-RC3

NOTE: **Represents the Coil Voltage Code. For Coil Voltage Codes refer to pages 547 and 563.

and HGPRS-P3C10**

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

TERMINALS: IP20, Screw w/captive wire clamps

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 561.

RETAINER CLIP: GPRA-RC4



MINIATURE 8 BLADE GUARDED, 15A

CODE	DESCRIPTION	LIST	
GPRA-SB08G1	Mini 8 Blade Guarded	\$6.00	
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
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 557.

RETAINER CLIP: GPRA-RC2



11 BLADE GUARDED, 20/25A

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

TYPE: Surface or DIN Rail Mount

CURRENT CARRYING MEMBERS:

Phosphor Bronze Nickel Plated Steel

TERMINALS: IP20, Screw w/captive wire clamps

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 549 and 551.

RETAINER CLIP: GPRA-RC1



MINIATURE 8 BLADE UNGUARDED, 15A

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

TYPE: Surface or DIN Rail Mount CURRENT CARRYING MEMBERS:

Phosphor Bronze Nickel Plated Steel

TERMINALS: Open style, Screw w/captive wire clamps

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 557.

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

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 549 and 551.

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

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**, GPRM-B4C05** and HGPRM-B4C05**

NOTE: **Represents the Coil Voltage Code. For Coil Voltage Codes refer to pages 555 and 565.

RETAINER CLIP: GPRA-RC4



MINIATURE 14 BLADE UNGUARDED, 15A

DISCOUNT SCHEDULE

CODE 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

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 559.

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.

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

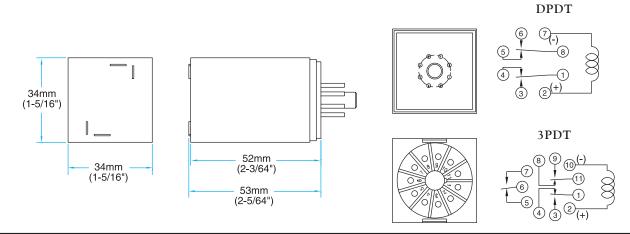
For use with GPRA-SP08U1, GPRA-SP08G1, GPRA-SP11U1



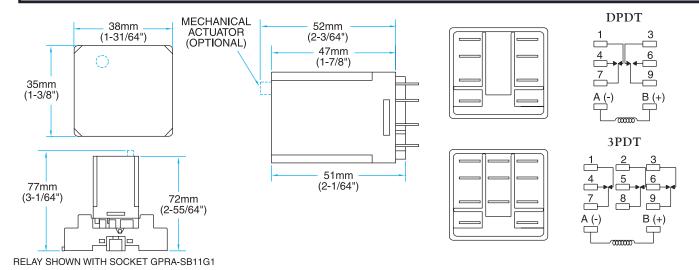




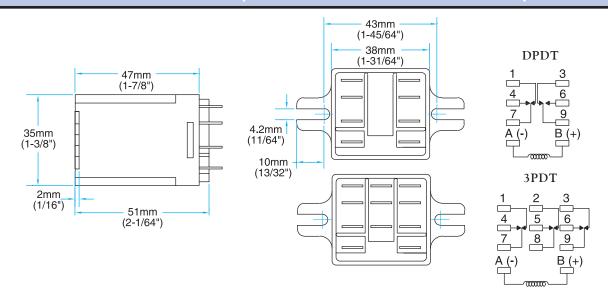
OCTAL BASE RELAYS W/PIN TERMINALS - 2 & 3 POLES (GPRS-P2C10 & P3C10)



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

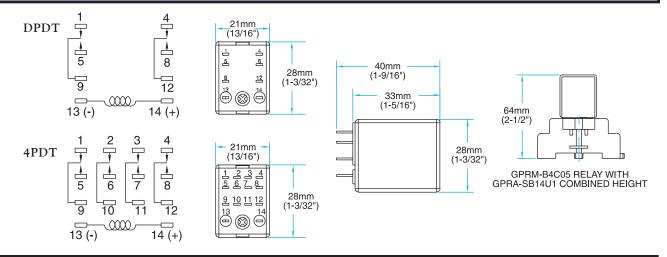


FLANGE MOUNTED RELAYS W/BLADE TERMINALS - 2 & 3 POLES (GPRF-T2C25 & T3C20)

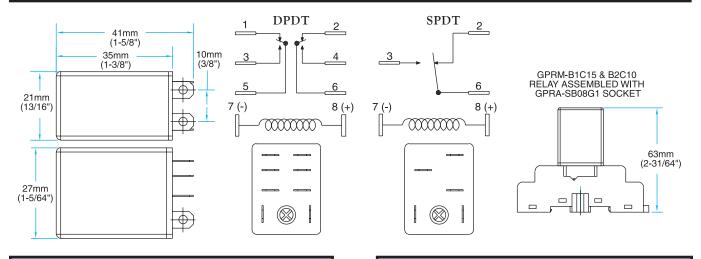




MINIATURE SQUARE BASE RELAYS W/BLADE TERMINALS. 2 & 4 POLES (GPRM-B2C05 & B4C05)

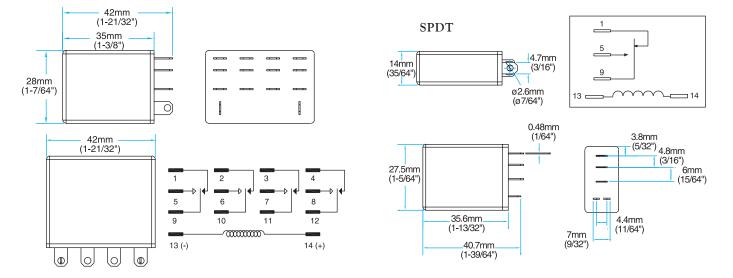


MINIATURE SQUARE BASE RELAYS W/BLADE TERMINALS, 1 & 2 POLES (GPRM-B1C15 & B2C10)



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

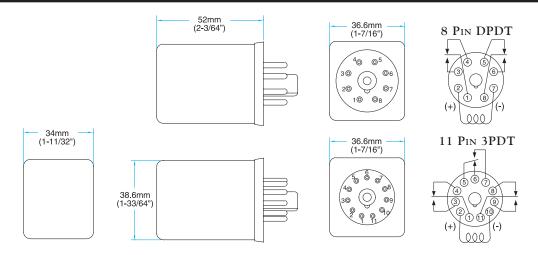
MINIATURE SQUARE BASE RELAYS W/ BLADE TERMINALS - 1 POLE (GPRM-S1C12)



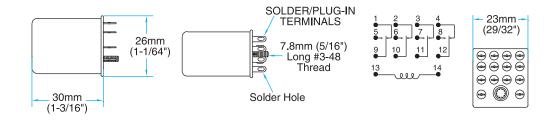
724.775.7926 :: www.c3controls.com



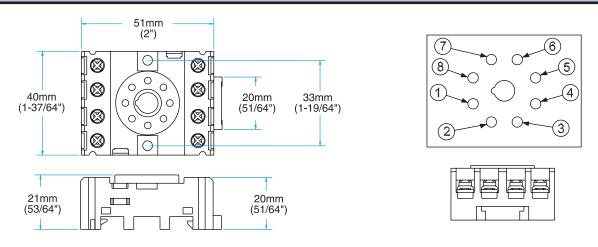
HERMETICALLY SEALED OCTAL BASE RELAYS W/PIN TERMINALS - 2 & 3 POLES (HGPRS-P2C12 & P3C10)



HERMETICALLY SEALED MINIATURE SQUARE BASE RELAYS W/BLADE TERMINALS - 4 POLES (HGPRM-B4C05)



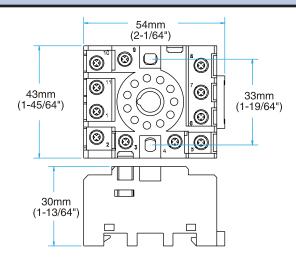
8 PIN GUARDED 10A SOCKET (GPRA-SP08G1)

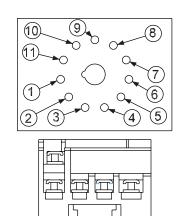


VISIT WWW.C3CONTROLS.COM TO DOWNLOAD CAD DRAWINGS

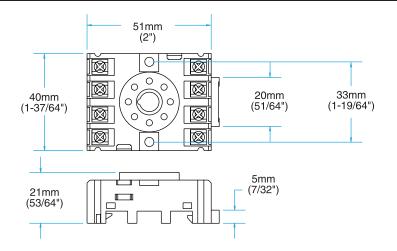


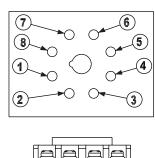
PIN GUARDED 10A SOCKET (GPRA-SP11G1)

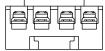


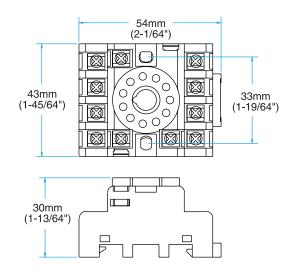


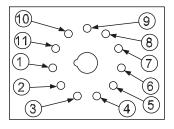
8 PIN UNGUARDED 10A SOCKET (GPRA-SP08U1)

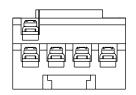








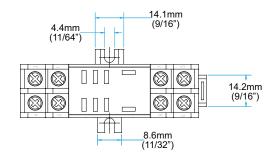


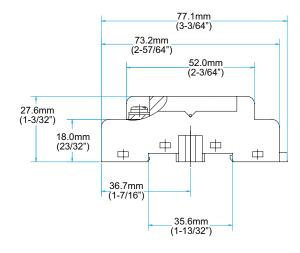


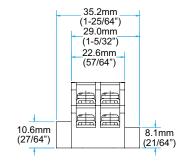
573 724.775.7926 :: www.c3controls.com



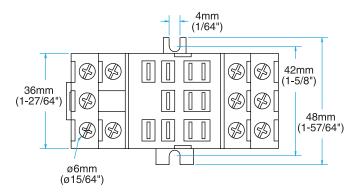
MINIATURE 8 BLADE GUARDED 15A SOCKET (GPRA-SB08G1)

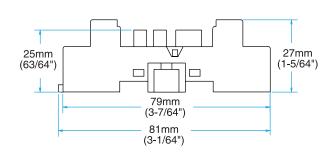


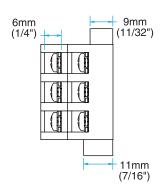




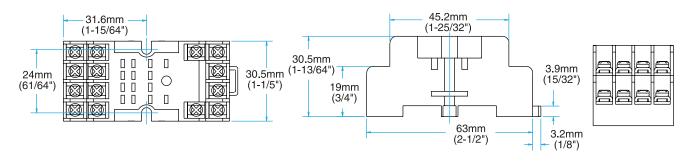
11 BLADE GUARDED 20/25A SOCKET (GPRA-SB11G1)





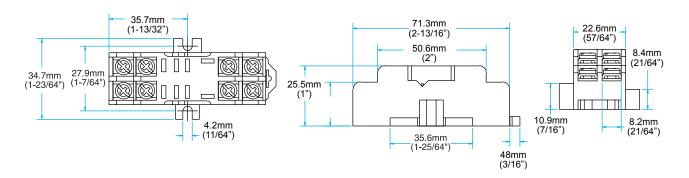


MINIATURE 14 BLADE UNGUARDED 7A SOCKET (GPRA-SB14U1)

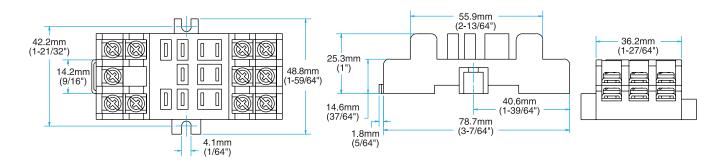




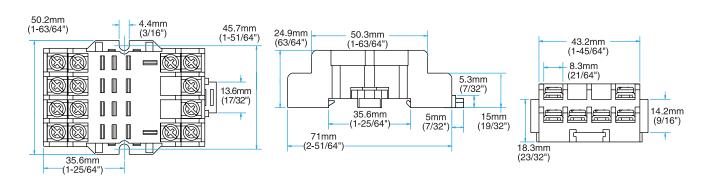
MINIATURE 8 BLADE UNGUARDED 15A SOCKET (GPRA-SB08U1)



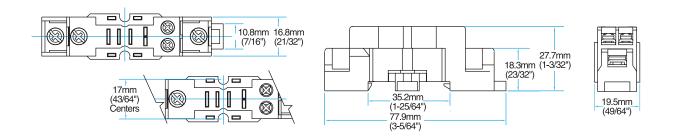
MINIATURE 11 BLADE UNGUARDED 20/25A SOCKET (GPRA-SB11U1)



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



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



724.775.7926 :: www.c3controls.com