

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.

GENERAL PURPOSE RELAY

Octal Base w/Pin 400

Square Base w/Blade 402

Flange Mounted w/Blade 406

Miniature Square w/Blade 408

Hermetically Sealed Octal Base w/Pin 416

Hermetically Sealed Miniature

Square w/Blade 418

Pin and Blade Sockets 420

> Retainer Clips 422

423 Dimensions

Conformity to Standards: Certifications:

SERIES GR - GENERAL PURPOSE RELAYS

UL File #: E236197 (Guide NLDX2, NLDX8), UL 508

E224085 (Guide NRNT2)

CSA C22.2 No. 14

IEC 60947-1, 60947-4-1, 60947-5-1

SERIES HGR - HERMETICALLY SEALED RELAYS

UL File #: E243998 (Guide NPKR, NPKR2, UL 508, 1604

NPKR7, NPKR8)

CSA C22.2 No. 14, 213 CSA File #: 227135

IEC 60947-1, 60947-4-1, 60947-5-1

SERIES GR - SOCKETS

UL 508

CSA C22.2 No. 14 IEC 60947-1

UL File #: E236196 (Guide SWIV2, SWIV8)







NOTE: The scope (range, description, price, specifications, dimensions, etc.) of the product featured in this section is subject to change without notice. Refer to www.c3controls.com for product updates.



OCTAL BASE RELAYS WITH PIN TERMINALS

them to build your part number. See page 6 for more detailed directions.

- 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.
- Mechanical indicator provided as standard to easily determine relay status.
- 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

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	PRICE				
GPRS-P	General Purpose Relay w/Pin	\$7.00				

II. POLES & CURRENT RATING					
DESCRIPTION	PRICE				
DPDT, 10A					
3PDT, 10A	\$0.80				
	DESCRIPTION DPDT, 10A				

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

	IV. OPTIONS						
ſ	CODE	DESCRIPTION	PRICE				
	1	Mechanical Actuator (included)					
	3	Light & Mechanical Actuator	\$1.00				

Relays available in convenient multi-packs, 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					
	See page 420 for socket information					



Octal Base w/Pin Terminals | General Purpose



ELECTRICAL RATINGS								
POLE COMBINATION			7				DPDT	3PDT
ITEM SPECIFICATION:	1		UNITS				DI DI	
Contact Resistance			mΩ				50	50
Dielectric Strength (Coil to Conta	nt)		AC Volts (50/60 HZ - 1 Minute)			1000 V	1000 V
Dielectric Strength (AC Volts				1000 V	1000 V
Insulation Resistanc		ituotoj	MΩ [Min		<u> </u>	nuto,	100	100
Max. Switching (ON)		nical	Oper./Mir				240	240
Max. Switching (ON)			Oper./Mir				30	30
Life Expectancy - Mo			Operation				10M	10M
Life Expectancy - Elec		sistive)	Operation				100K	100K
Vibration: Endurance		olotivo _j	1.5 mm (E			le)	10 ~ 55 Hz	
Vibration: Error Ope			1.5 mm (E		-		10 ~ 55 Hz	1
Shock: Endurance			G Min.		шрисис	,	50 G Min	50 G Min
Shock: Error Operati	on		G Min.				10 G Min	10 G Min
Coil Operate Time (P			mSec (M	ax)			25	25
Coil Release Time (D			mSec (M				25	25
CONTACT RATING			,	,		DPDT		3PDT
Rated Carrying Curre	ent					10 A		10 A
Max. Allowable Volta					24	0 VAC	2	40 VAC
3			120 VDC		0 VDC	1	20 VDC	
Capacity: Resistive Load			P.F. = 1.0 240 V		'AC - 10 A 240 V		VAC - 10 A	
			120 V		AC - 10 A	120	VAC - 10 A	
					28 VI	DC - 10 A	. 28 \	/DC -10 A
Inductive Loads P.F. =		P.F. = 0	.4 [L/R = 7 r	nSec.]	240 \	/AC - 7 A	240	VAC - 7 A
			120 V		AC - 10 A	120	VAC - 10 A	
			28 VDC - 8 A		DC - 8 A	28	VDC - 8 A	
Minimum Recommen	nded Load				10 VD	C - 10 m/	4 10 V	DC - 10 mA
COIL SPECIFICATIONS	(@ 20° C) —	- (DPDT)						
Nominal Coil Voltage	Nominal Curr	ent Coil I	Resistance	Pov	ver	Pick-Up	Drop-Out	Max. Allowed
(Volts)	(mA)	(+/- 1	0% OHMS)	Consun	nption	Voltage	Voltage	Voltage
24 VAC (@ 60 HZ)	88		91	1.9 ~ 2	.8 VA	80%	30%	110%
120 VAC (@ 60 HZ)	21		1,620	1.9 ~ 2	.8 VA	Max.	Min.	Rated
240 VAC (@ 60 HZ)	11		7,100	1.9 ~ 2		Rated	Rated	
24 VDC	56		430	1.5		80%	10%	110%
48 VDC	29.5		1,630	1.5		Max.	Min. Rated	Rated
110 VDC	16.2		6,800	1.5	W	Rated	nateu	
COIL SPECIFICATIONS (@ 20 DEG. C) — (3PDT)								
Nominal Coil Voltage (Volts)	Nominal Curr (mA)		Resistance 0% OHMS)	Pow		Pick-Up Voltage	Drop-Out Voltage	Max. Allowed Voltage
24 VAC (@ 60 HZ)	88	(17	91	1.9 ~ 2	•		·	voitage
120 VAC (@ 60 HZ)	21		1,620	1.9 ~ 2		80% Max.	30% Min.	110%
240 VAC (@ 60 HZ)	11		7,100	1.9 ~ 2		Rated	Rated	Rated
24 VDC	56		430	1.5 ~ 2				
48 VDC	29.5		1,630	1.5		80% Max.	10% Min.	110%
110 VDC	16.2		6,800	1.5		Rated	Rated	Rated
	10.2		-,000	1.0	••		1	<u> </u>

ENVIRONMENTAL & PHYSICAL PARAMETERS

Operating Ambient Temperature -10° C to +40° C (14° F to +104° F) Assumes a DRY environment — Enclosed

Operating Humidity (Recommended) 35% to 85% RH

Unit Weight (2 ~ 3 Pole Relay) 85 g (3 oz)

Relay & Socket Dimensions See Outline Drawings pages 423-428.

MATERIALS & CONSTRUCTION

Contacts: AgNi Alloy
Plated Brass Terminations: Cadmium Free
Solder Connections: Lead Free

Thermoplastic & Thermoset Moldings
RoHS Compliance:

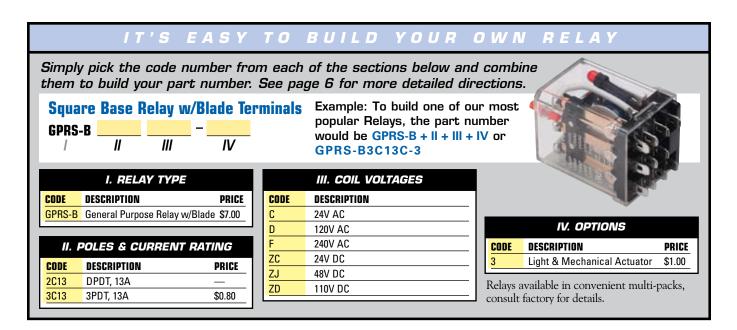
For RoHS compliance documentation by product, refer to www.c3controls.com.



Souare 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.
- Optional indicating lights are color coded, red for AC and green for DC.
- cURus approved.

- Optional mechanical actuator and indicating light 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						
	See page 421 for socket information						



Square Base w/Blade Terminals | General Purpose



		ELE(CTRICAL RATIN	IGS			
POLE COMBINATION						DPDT	3PDT
ITEM SPECIFICATION:			UNITS				
Contact Resistance			mΩ			50	50
Dielectric Strength (Coil to Conta	ct)	AC Volts (50/60 HZ - 1 Minute)			1500 V	1500 V
Dielectric Strength (I	Between Coi	ntacts)	AC Volts (50/60 HZ - 1 Minute)			1000 V	1000 V
Insulation Resistance			MΩ [Min]			100	100
Max. Switching (ON/	OFF) Mecha	nical	Oper./Min.			300	300
Max. Switching (ON/	OFF) Electric	al	Oper./Min.			30	30
Life Expectancy - Me	echanical		Operations [Min]			10M	10M
Life Expectancy - Elec	ct (@120 V Re	sistive)	Operations [Min]			100K	100K
Vibration: Endurance	е		1.5 mm (Double A	Amplitud	le)	10 ~ 55 Hz	10 ~ 55 Hz
Vibration: Error Ope	ration		1.5 mm (Double A	Amplitud	le)	10 ~ 55 Hz	10 ~ 55 Hz
Shock: Endurance			G Min.			50 G Min	50 G Min
Shock: Error Operation	on		G Min.			10 G Min	10 G Min
Coil Operate Time (P	ick-Up)		mSec (Max)			15	15
Coil Release Time (D	rop Out)		mSec (Max)			10	10
CONTACT RATING					OPDT		3PDT
Rated Carrying Curre	ent				13 A		13 A
Max. Allowable Volta	age			30	0 VAC	3	00 VAC
				12	0 VDC	1:	20 VDC
Capacity: Resistive I	Capacity: Resistive Load		P.F. = 1.0 240 VA				VAC - 10 A
			120 V		AC - 13 A 120		VAC - 13 A
			28 VD		DC - 13 A	28 \	/DC -13 A
Inductive Loads	Inductive Loads P.F. =				/AC - 7 A	240	VAC - 7 A
					AC - 10 A		VAC - 10 A
				28 V	DC - 8 A	28 \	/DC - 8 A
Motor Loads					/3 HP		1/3 HP
M: : D			240 VAC	1/2 HP 10 VDC - 10 mA		_	1/2 HP
Minimum Recommer				10 VD	C - 10 MA	4 10 VI	OC - 10 mA
COIL SPECIFICATIONS					Dial. Ha	D 0.4	M All
Nominal Coil Voltage (Volts)	Coil Resi: (+/- 10% (Power Consumption	ı	Voltage	Voltage	Max. Allowed Voltage
24 VAC (@ 60 HZ)	85		2.5 VA	'	85%	30%	voltago
120 VAC (@ 60 HZ)	2,25		2.5 VA		Max.	Min.	110%
240 VAC (@ 60 HZ)	9,11		2.5 VA		Rated	Rated	Rated
24 VDC	472		1.5 W		80%	10%	
48 VDC	1,80	10	1.5 W		Max.	Min.	110%
110 VDC 10,000		-		Rated	Rated	Rated	
COIL SPECIFICATIONS							
Nominal Coil Voltage	Coil Resi		Power		Pick-Up	Drop-Out	Max. Allowed
(Volts)	(+/- 10% (OHMS)	Consumption		Voltage	Voltage	Voltage
24 VAC (@ 60 HZ)	72		2.75 VA		85%	30%	1100/
	1,700		2.75 VA		Max.	Min.	110% Rated
120 VAC (@ 60 HZ)	1,70		2.75 VA		Rated	Rated	nateu
	7,20	0	2.75 VA		Hutou	Hutcu	
120 VAC (@ 60 HZ)			2.75 VA 1.5 W		80%	10%	1100/
120 VAC (@ 60 HZ) 240 VAC (@ 60 HZ)	7,20	2					110% Rated

ENVIRONMENTAL & PHYSICAL PARAMETERS

Operating Ambient Temperature -45° C to +70° C (-49° F to +158° F) Assumes a DRY environment — Enclosed

Operating Humidity (Recommended) 35% to 85% RH

Unit Weight (2 ~ 3 Pole Relay) 90 g (3.2 oz)

Relay & Socket Dimensions See Outline Drawings pages 423-428.

MATERIALS & CONSTRUCTION

Contacts: AgNi Alloy Plated Brass Terminations: Cadmium Free Solder Connections: Lead Free

Thermoplastic & Thermoset Moldings RoHS Compliance:

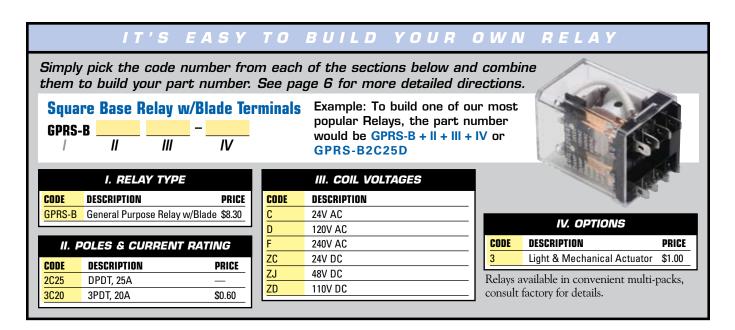
For RoHS compliance documentation by product, refer to www.c3controls.com.



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.
- Optional indicating lights are color coded, red for AC and green for DC.

- cURus and CE for acceptance in global applications.
- Optional mechanical actuator and indicating light 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
	See page 421 for socket information



Square Base w/Blade Terminals | General Purpose



	ELEC	TRICAL RATIN	GS			
					DPDT	3PDT
		UNITS				
		mΩ			50	50
		AC Volts (50/60 HZ - 1 Minute)			1500 V	1500 V
	tacts)		Z - 1 Mi	nute)	1000 V	1000 V
<u> </u>		•			100	100
						240
	al					30
						10M
	sistive)		124 1	,		100K
ration			mplitud	e)		
		_				50 G Min
						10 G Min
•					_	15
rop Out)		msec (iviax)			10	10
				OPDT		3PDT
						20 A
age					1	00 VAC
						20 VDC
Capacity: Resistive Load						VAC - 20 A
						VAC - 20 A
Inductive Loads					_	/DC -18 A
						VAC - 15 A
						VAC - 20 A
					_	/DC - 18 A
				-		3/4 HP
adad Laad						1 HP
			10	JU IIIA		100 mA
	JHIVIS)	•				Voltage
17				1 85%	30%	110%
	n				Min	110/0
1,70		2.5 VA		Max.	Min. Rated	Rated
1,70 7,20	0	2.5 VA 2.5 VA		Max. Rated	Rated	
1,70 7,20 472	0	2.5 VA 2.5 VA 1.5 W		Max. Rated 75%	Rated 10%	
1,70 7,20 472 1,80	0	2.5 VA 2.5 VA 1.5 W 1.5 W		Max. Rated 75% Max.	Rated 10% Min.	Rated
1,70 7,20 472 1,80 10,00	0	2.5 VA 2.5 VA 1.5 W		Max. Rated 75%	Rated 10%	Rated 110%
1,70 7,20 472 1,80 10,00	0 0 00 - (3PDT)	2.5 VA 2.5 VA 1.5 W 1.5 W		Max. Rated 75% Max. Rated	Rated 10% Min. Rated	Rated 110% Rated
1,700 7,200 472 1,800 10,000 (@ 20° C) — Coil Resis	0 0 0 0 - (3PDT)	2.5 VA 2.5 VA 1.5 W 1.5 W 1.5 W		Max. Rated 75% Max. Rated	Rated 10% Min. Rated Drop-Out	Rated 110% Rated Max. Allowed
1,70 7,20 472 1,80 10,00	0 0 0 0 - (3PDT)	2.5 VA 2.5 VA 1.5 W 1.5 W		Max. Rated 75% Max. Rated Pick-Up Voltage	Rated 10% Min. Rated Drop-Out Voltage	Rated 110% Rated Max. Allowed Voltage
1,70 7,20 472 1,80 10,00 (@ 20° C) — Coil Resis (+/- 10% C	0 0 00 - (3PDT) stance 0HMS)	2.5 VA 2.5 VA 1.5 W 1.5 W 1.5 W Consumption		Max. Rated 75% Max. Rated	Rated 10% Min. Rated Drop-Out	Rated 110% Rated Max. Allowed Voltage 110%
1,70 7,20 472 1,80 10,00 (@ 20° C) — Coil Resis (+/-10% C	0 0 00 - (3PDT) stance 0HMS)	2.5 VA 2.5 VA 1.5 W 1.5 W 1.5 W Power Consumption 2.75 VA		Max. Rated 75% Max. Rated Pick-Up Voltage 85%	Rated 10% Min. Rated Drop-Out Voltage 30%	Rated 110% Rated Max. Allowed Voltage
1,70 7,20 472 1,80 10,00 (@ 20° C) — Coil Resis (+/- 10% C	0 0 00 - (3PDT) ttance 0HMS)	2.5 VA 2.5 VA 1.5 W 1.5 W 1.5 W Consumption 2.75 VA 2.75 VA		Max. Rated 75% Max. Rated Pick-Up Voltage 85% Max. Rated	Rated 10% Min. Rated Drop-Out Voltage 30% Min. Rated	Rated 110% Rated Max. Allowed Voltage 110% Rated
1,70 7,20 472 1,80 10,00 (@ 20° C) — Coil Resis (+/- 10% C 60 1,30 4,30	0 0 00 - (3PDT) ttance 0HMS)	2.5 VA 2.5 VA 1.5 W 1.5 W 1.5 W Power Consumption 2.75 VA 2.75 VA		Max. 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%
	Coil to Contact Between Contact Between Contact Coff) Mechar Coff) Mechar Coff) Electric Bethanical Ct (@120 V Rese Contact Contact Contact Contact Contact Contact Contact Contact Contact Coil Resis	Coil to Contact) Between Contacts) e (500 VDC) OFF) Mechanical OFF) Electrical echanical ot (@120 V Resistive) e ration on ick-Up) rop Out) ent age Load P.F. = 0 aded Load (@ 20° C) — (DPDT) Coil Resistance (+/- 10% OHMS)	UNITS mΩ	mΩ	WNITS mΩ	DPDT

ENVIRONMENTAL & PHYSICAL PARAMETERS

Operating Ambient Temperature -45° C to +70° C (-49° F to +158° F) Assumes a DRY environment — Enclosed

Operating Humidity (Recommended) 35% to 85% RH

Unit Weight (2 ~ 3 Pole Relay) 90 g (3.2 oz)

Relay & Socket Dimensions See Outline Drawings pages 423-428.

MATERIALS & CONSTRUCTION

Contacts: AgNi Alloy

Plated Brass Terminations: Cadmium Free Solder Connections: Lead Free

Thermoplastic & Thermoset Moldings

RoHS Compliance:

For RoHS compliance documentation by product, refer to www.c3controls.com.

405



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. See page 6 for more detailed directions.

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	PRICE				
GPRF-T	General Purpose Relay w/Blade	\$8.30				

II. POLES & CURRENT RATING

CODE	DESCRIPTION	PRICE
2C25	DPDT, 25A	_
3C20	3PDT, 20A	\$0.60

	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



		ELE	CTRICAL RATIN	IGS				
POLE COMBINATION						DPDT	3PDT	
ITEM SPECIFICATIONS	S:		UNITS					
Contact Resistance			mΩ			50	50	
Dielectric Strength (Coil to Conta	ct)	AC Volts (50/60 H	Z - 1 Mi	nute)	1500 V	1500 V	
Dielectric Strength (Between Cor	ntacts)	AC Volts (50/60 H	Z - 1 Mi	nute)	1000 V	1000 V	
Insulation Resistanc	e (500 VDC)		MΩ [Min]			100	100	
Max. Switching (ON,	/OFF) Mecha	nical	Oper./Min.	240	240			
Max. Switching (ON/OFF) Electrical			Oper./Min.			30	30	
Life Expectancy - M	echanical		Operations [Min]	10M	10M			
Life Expectancy - Ele	ct (@120 V Re	sistive)	Operations [Min]			100K	100K	
Vibration: Enduranc	е		1.5 mm (Double A	mplitud	e)	10 ~ 55 Hz	z 10 ~ 55 Hz	
Vibration: Error Ope	ration		1.5 mm (Double A	mplitud	e)	10 ~ 55 Hz	z 10 ~ 55 Hz	
Shock: Endurance			G Min.			50 G Min	50 G Min	
Shock: Error Operati	ion		G Min.			10 G Min	10 G Min	
Coil Operate Time (P	ick-Up)		mSec (Max)			15	15	
Coil Release Time (D	rop Out)		mSec (Max)			10	10	
CONTACT RATING					OPDT		3PDT	
Rated Carrying Curre	ent				25 A		20 A	
Max. Allowable Volt	age			60	0 VAC 60		00 VAC	
			120		0 VDC 12		20 VDC	
Capacity: Resistive	Load		P.F. = 1.0 240 VA				/AC - 20 A	
			120 V		AC - 25 A 120 V		/AC - 20 A	
			28 VE		DC - 25 A	28 V	/DC -18 A	
Inductive Loads		P.F. = 0			AC - 15 A	240 \	/AC - 15 A	
					AC - 25 A	1	/AC - 20 A	
					DC - 18 A	28 V	DC - 18 A	
Motor Loads					/4 HP	_	I/2 HP	
					1 HP		I/2 HP	
Minimum Recomme	nded Load			10	00 mA	1	00 mA	
COIL SPECIFICATIONS								
Nominal Coil Voltage			Power				Max. Allowed	
(Volts) 24 VAC (@ 60 HZ)	(+/- 10%		Consumption	1	Voltage	Voltage	Voltage	
120 VAC (@ 60 HZ)	72 1,70		2.5 VA		85% Max.	30% Min.	110%	
240 VAC (@ 60 HZ)	7,20		2.5 VA 2.5 VA		Rated	Rated	Rated	
24 VDC	47:		2.5 VA					
48 VDC					75% Max.	10% Min.	110%	
110 VDC	,		1.5 W 1.5 W		Rated	Rated	Rated	
COIL SPECIFICATIONS (@ 20° C) — (3PDT)								
Nominal Coil Voltage	Coil Resi		Power		Pick-Up	Drop Out	Max. Allowed	
(Volts)	(+/- 10%		Consumption	1	Voltage	Voltage	Voltage	
24 VAC (@ 60 HZ)			2.75 VA		85%	30%		
120 VAC (@ 60 HZ) 1,300		2.75 VA		Max.	Min.	110% Batad		
240 VAC (@ 60 HZ) 4,300		2.75 VA		Rated	Rated	Rated		
24 VDC	34		1.5 W		75%	10%	110%	
48 VDC	1,36	60	1.5 W		Max.	Min.	Max.	
110 VDC	8,50	00	1.5 W		Rated	Rated	Rated	

ENVIRONMENTAL & PHYSICAL PARAMETERS

Operating Ambient Temperature -45° C to +70° C (-49° F to +158° F) Assumes a DRY environment — Enclosed

Operating Humidity (Recommended) 35% to 85% RH

Unit Weight (2 ~ 3 Pole Relay) 90 g (3.2 oz)

Relay & Socket Dimensions See Outline Drawings pages 423-428.

MATERIALS & CONSTRUCTION

Contacts: AgNi Alloy Plated Brass Terminations: Cadmium Free Solder Connections: Lead Free Thermoplastic & Thermoset Moldings

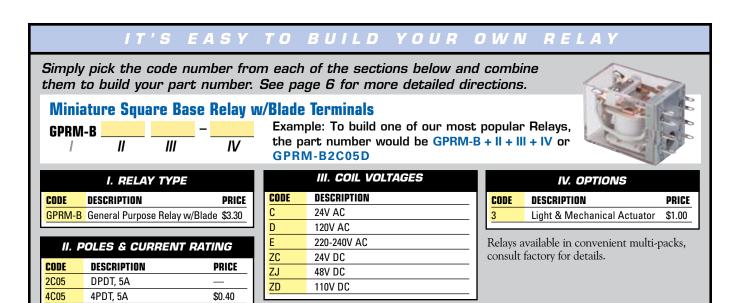
RoHS Compliance: For RoHS compliance documentation by product, refer to www.c3controls.com.



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.
- Optional indicating lights are color coded, red for AC and green for DC.

- cURus and CE for acceptance in global applications.
- Optional mechanical actuator and indicating light 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.



COMPATIBLE SOCKETS					
RELAY TYPE	COMPATIBLE SOCKETS				
GPRM-B2C05**	GPRA-SB14U1 with Open Style Terminals				
GPRM-B4C05**					
	See page 422 for socket information				
_	_				



Miniature Square Base w/Blade Terminals | GENERAL PURPOSE



DOLL COMPUNITOR			CTRICAL F				DDDT	4007
POLE COMBINATION							DPDT	4PDT
ITEM SPECIFICATIONS:			UNITS				100	100
Contact Resistance			mΩ	.0./00 11	7 1 1 1		100	100
Dielectric Strength (Coil to Contact)				AC Volts (50/60 HZ - 1 Minute)			1500 V	1500 V
Dielectric Strength (B		itacts)	-	AC Volts (50/60 HZ - 1 Minute)			1000 V	1000 V
Insulation Resistance	, ,		MΩ [Min]				100	100
Max. Switching (ON/0			Oper./Min.				240	240
Max. Switching (ON/0		al	Oper./Min.				30	30
Life Expectancy - Me			Operations				10M	10M
Life Expectancy - Elec		sistive)	Operations			,	100K	100K
Vibration: Endurance	<u> </u>		1.0 mm (Do				10 ~ 55 Hz	
Vibration: Error Oper	ation		1.0 mm (Do	ouble A	mplitud	e)	10 ~ 55 Hz	
Shock: Endurance			G Min.				100 G Min	100 0 11111
Shock: Error Operation			G Min.	,			10 G Min	10 G Min
Coil Operate Time (Pi			mSec (Max)				25	25
Coil Release Time (Dr			mSec (Max)				25	25
Coil Temperature Rise	e (at rated v	oltage)	Deg C (Max)				60 C	60 C
CONTACT RATING						DPDT		4PDT
Rated Carrying Curre	nt					5 A		5 A
Max. Allowable Volta	ge				24	0 VAC	2	40 VAC
						0 VDC		10 VDC
Capacity: Resistive L	oad				/AC - 5 A	240	VAC - 5 A	
			120			120 VAC - 5 A		VAC - 5 A
			28 VDC -			DC - 5 A	28	VDC -5 A
Inductive Loads		P.F. = 0	.4 [L/R = 7 m	Sec.]				
			120 VAC -		/AC - 2 A		VAC - 3 A	
					28 V	DC - 2 A	28	VDC - 3 A
Minimum Recommen	ded Load				10 VDC - 10 mA		10 VDC - 10 mA	
COIL SPECIFICATIONS	(@ 20° C) –	- (DPDT)	& 4PDT)					
Nominal Coil Voltage	Nominal Cur		il Resistance		ver			Max. Allowed
(Volts)	(mA)	(+/-	10% OHMS)	Consu	mption	Voltage	Voltage	Voltage
24 VAC (@ 60 HZ)	45		186		1.3 VA	85%	30%	110%
120 VAC (@ 60 HZ)	10		,		1.3 VA	Max.	Min.	Rated
220/240 VAC (@ 60 HZ)	8.5		19,400 1.0 ~ 1.3			Rated	Rated	Hatou
24 VDC	36.9		650		W	80%	10%	110%
48 VDC	18.5		2,600 0.9		W	Max.	Min.	Rated
110 VDC	10		13,500 0.9		W	Rated	Rated	

ENVIRONMENTAL & PHYSICAL PARAMETERS

Operating Ambient Temperature -25° C to +55° C (-13° F to +131° F) Assumes a DRY environment — Enclosed

Operating Humidity (Recommended) 45% to 85% RH

> Unit Weight (2, 4 Pole Relay) 35 g (1.2 oz)

Relay & Socket Dimensions See Outline Drawings pages 423-428.

MATERIALS & CONSTRUCTION

Contacts: AgNi Alloy
Plated Brass Terminations: Cadmium Free
Solder Connections: Lead Free
Thermoplastic & Thermoset Moldings
RoHS Compliance:
For RoHS compliance documentation by product, refer to www.c3controls.com.



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 indicating lights are color coded, red for AC and green for DC.

- Optional mechanical actuator and indicating light 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. See page 6 for more detailed directions.

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	PRICE					
GPRM-B	General Purpose Relay w/Blade	\$5.50					
IL DOLEC C CURRENT DATING							

II. POLES & CURRENT RATING						
DESCRIPTION	PRICE					
SPDT, 15A	_					
DPDT, 10A	\$0.80					
	DESCRIPTION SPDT, 15A					

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

	IV. OPTIONS							
ſ	CODE	DESCRIPTION	PRICE					
	3	Light & Mechanical Actuator	\$1.00					
	Relays available in convenient multi-packs, consult factory for details.							

NOTE: See page 412 for 4-Pole Miniature Relay.

COMPATIBLE SOCKETS					
RELAY TYPE	COMPATIBLE SOCKETS				
GPRM-B1C15**	GPRA-SB08G1 with IP20 Guarded Terminals				
GPRM-B2C10** or GPRA-SB08U1 with Open Style Terminals					
See page 421 for socket information					
_	·				



Miniature Square Base w/Blade Terminals | GENERAL PURPOSE



	ELE	CTRIC	CAL RATINGS				
POLE COMBINATION				SPDT	DPDT		
ITEM SPECIFICATIONS:		UNIT	'S				
Contact Resistance		mΩ		100	100		
Dielectric Strength (Coil to C	ontact)	AC V	olts (50/60 HZ - 1 Min.)	1500 V	1500 V		
Dielectric Strength (Between	n Contacts)	AC V	olts (50/60 HZ - 1 Min.)	1000 V	1000 V		
Insulation Resistance (500 V	'DC)	МΩ	[Min]	100	100		
Max. Switching (ON/OFF) Mo	echanical	Oper	:/Min.	240	240		
Max. Switching (ON/OFF) Ele	ectrical	Oper	:/Min.	30	30		
Life Expectancy - Mechanic	al	Oper	ations [Min]	10M	10M		
Life Expectancy - Elect (@ R	ating)	Oper	ations [Min]	100K	100K		
Vibration: Endurance		1.0 m	nm (Double Amplitude)	10 ~ 55 Hz	10 ~ 55 Hz		
Vibration: Error Operation		1.0 mm (Double Amplitude)		10 ~ 55 Hz	10 ~ 55 Hz		
Shock: Endurance		G Min.		100 G Min	100 G Min		
Shock: Error Operation		G Min.		10 G Min	10 G Min		
Coil Operate Time (Pick-Up)		mSec (Max)		25	25		
Coil Release Time (Drop Out)		mSec (Max)		25	25		
Coil Temperature Rise (at ra	ted voltage)	Deg C (Max)		60 C	60 C		
CONTACT RATING			SPDT		OPDT		
Rated Carrying Current			15 A		10 A		
Max. Allowable Voltage			240 VAC	24	0 VAC		
			110 VDC	11	0 VDC		
Capacity: Resistive Load	P.F.= 1.0		240 VAC - 15 A		AC - 10 A		
		120 VAC - 15 A			AC - 10 A		
			28 VDC - 15 A		DC -10 A		
Inductive Loads	P.F. = 0.4	_	28 VDC - 7 A	28 V	DC - 5 A		
	[L/R = 7 mSe	ec.]					
Motor Loads	240 VAC 120 VAC				/2 HP /2 HP		
	120 VAC		1/2 ПГ	10.12	1/2 ПГ		

Min. Recommended Load

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)	45	160	1.0 ~ 1.3 VA	80%	30%	110%
120 VAC (@ 60 HZ)	11.5	3,400	1.0 ~ 1.3 VA	Max.	Min.	Rated
220/240 VAC (@ 60 HZ)	5	13,600	1.0 ~ 1.3 VA	Rated	Rated	nateu
24 VDC	36.9	650	0.9 W	80%	10%	1100/
48 VDC	18.5	2,600	0.9 W	Max.	Min.	110% Rated
110 VDC	10	11,000	0.9 W	Rated	Rated	Hateu

10 VDC - 10 mA

10 VDC - 10 mA

ENVIRONMENTAL & PHYSICAL PARAMETERS

Operating Ambient Temperature -25° C to +55° C (-13° F to +131° F) Assumes a DRY environment — Enclosed

Operating Humidity (Recommended) 45% to 85% RH

Unit Weight (1 ~ 2 Pole Relay) 35 g (1.2 oz)

Relay & Socket Dimensions See Outline Drawings pages 423-428.

MATERIALS & CONSTRUCTION

Contacts: AgNi Alloy

Plated Brass Terminations: Cadmium Free

Solder Connections: Lead Free

Thermoplastic & Thermoset Moldings

RoHS Compliance:

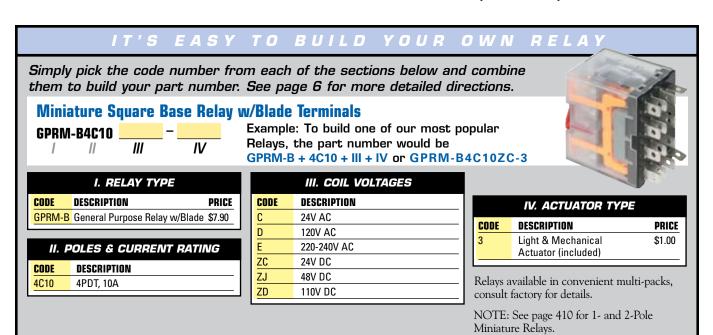
For RoHS compliance documentation by product, refer to www.c3controls.com.



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.
- Optional indicating lights are color coded, red for AC and green for DC.

- Optional mechanical actuator and indicating light 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.
- 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					
See page 422 for socket information					



Miniature Square Base w/Blade Terminals | General Purpose



		ELE	CTRICAL F	RATINGS				
POLE COMBINATION						4PDT		
ITEM SPECIFICATION	S:		UNITS					
Contact Resistance			mΩ			100		
Dielectric Strength (C	oil to C	ontact)	AC Volts (50)	/60 HZ - 1 Min.)		1500 V		
Dielectric Strength (B	Betwee	n Contacts)	AC Volts (50,	/60 HZ - 1 Min.)		1000 V		
Insulation Resistance	(500 V	/DC)	MΩ [Min]			100		
Max. Switching (ON/0	OFF) M	echanical	Oper./Min.			240		
Max. Switching (ON/0	OFF) Ele	ectrical	Oper./Min.			30		
Life Expectancy - Me	chanic	al	Operations [Min]		10M		
Life Expectancy - Elec	ct (@ R	ating)	Operations [Min]		100K		
Vibration: Endurance)		1.0 mm (Dou	ble Amplitude)		10 ~ 55 Hz		
Vibration: Error Opera	ation		1.0 mm (Dou	ble Amplitude)		10 ~ 55 Hz		
Shock: Endurance			G Min.			100 G Min		
Shock: Error Operatio	n		G Min.			10 G Min		
Coil Operate Time (Pi	ck-Up)		mSec (Max)	mSec (Max)			25	
Coil Release Time (Drop Out)			mSec (Max)			25		
Coil Temperature Rise (at rated voltage)			Deg C (Max) 60 C					
CONTACT RATING				4PD	T			
Rated Carrying Curr	d Carrying Current			10 A				
Max. Allowable Voltage		240 VAC						
		110 VDC						
Capacity: Resistive	Load	P.F.			240 VAC			
			120 VAC - 10 A					
					28 VDC -10 A			
Inductive Loads			= 0.4	28 VDC - 5 A				
		• • •	7 mSec.]					
Motor Loads) VAC) VAC	· · · · · · · · · · · · · · · · · · ·				
Min. Recommended Load		VAC		10 VDC - 10 mA				
COIL SPECIFICATIONS	S (@ 2	0° C) — (4 PO	LE RELAYS)	•				
Nominal Coil Voltage		ninal Current C		Power	Pick-Up	Drop-Out	Max. Allowe	
(Volts)			-/- 10% OHMS)		Voltage	Voltage	Voltage	
24 VAC (@ 60 HZ)	93.6 (50	.6 (50Hz) ~ 80 (60Hz) 78 1.9		1.9 ~ 2.5 VA	85%	30%	110%	
120 VAC (@ 60 HZ)	Z) 24.5 (50Hz) ~ 21 (60Hz)		1,600	1.9 ~ 2.5 VA	Max.	Min.	Rated	
220/240 VAC (@ 60 HZ)	13.1 (50	Hz) ~ 11.2 (60Hz)	6,700	1.9 ~ 2.5 VA	Rated	Rated		
24 VDC		69	350	1.5 W	80%	10%	110%	
48 VDC		30	1,600	1.5 W	Max.	Min.	Rated	
110 VDC		15.9	6,900	1.5 W	Rated	Rated		

ENVIRONMENTAL & PHYSICAL PARAMETERS

Operating Ambient Temperature -25° C to +55° C (-13° F to +131° F) Assumes a DRY environment — Enclosed

Operating Humidity (Recommended) 45% to 85% RH

> Unit Weight (4 Pole Relay) 35 g (1.2 oz)

Relay & Socket Dimensions See Outline Drawings pages 423-428.

MATERIALS & CONSTRUCTION

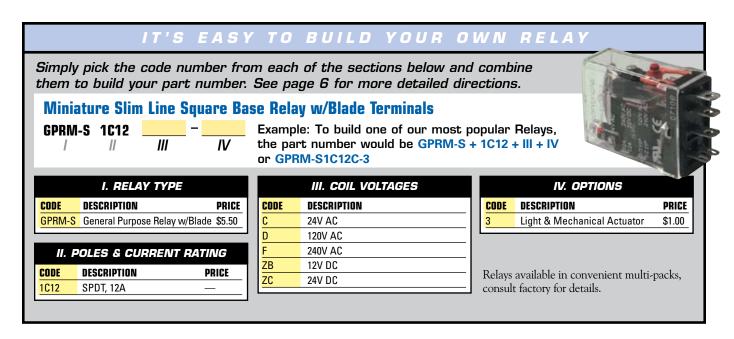
Contacts: AgNi Alloy
Plated Brass Terminations: Cadmium Free
Solder Connections: Lead Free
Thermoplastic & Thermoset Moldings
RoHS Compliance:
For RoHS compliance documentation by
product, refer to www.c3controls.com.



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 indicating lights are color coded, red for AC and green for DC.

- Optional mechanical actuator and indicating light 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				
See page 421 for socket information					



Pick-Up Drop-Out Max. Allowed

Voltage

30%

Min.

Rated

10%

Min.

Rated

Voltage

85%

Max.

Rated

80%

Max.

Rated

Voltage

110%

Rated

110%

Rated



Contact Resistance mΩ 50 Dielectric Strength (Coil to Contact) AC Volts (50/60 HZ - 1 Min.) 2000 V Dielectric Strength (Between Contacts) AC Volts (50/60 HZ - 1 Min.) 1000 V Insulation Resistance (500 VDC) MΩ [Min] 100 Max. Switching (0N/0FF) Mechanical Oper/Min. 240 Max. Switching (0N/0FF) Electrical Oper/Min. 30 Life Expectancy - Mechanical Operations [Min] 50 Million Life Expectancy - Elect (@ 120V Rating) Operations [Min] 500,000 Vibration: Endurance 1.0 mm (Double Amplitude) 10 ~ 55 Hz Shock: Endurance G Min. 100 G Min Shock: Error Operation G Min. 10 G Min Coil Operate Time (Pick-Up) mSec (Max) 20 Coil Release Time (Drop Out) mSec (Max) 20 Coil Temperature Rise (at rated voltage) Deg C (Max) 85 C CONTACT RATING SPDT Rated Carrying Current 12 A Max. Allowable Voltage 240 VAC 110 VDC		ECTRICAL RATINGS		
Contact Resistance $m\Omega$ 50Dielectric Strength (Coil to Contact)AC Volts (50/60 HZ - 1 Min.)2000 VDielectric Strength (Between Contacts)AC Volts (50/60 HZ - 1 Min.)1000 VInsulation Resistance (500 VDC) $M\Omega$ [Min]100Max. Switching (ON/OFF) MechanicalOper/Min.240Max. Switching (ON/OFF) ElectricalOper/Min.30Life Expectancy - MechanicalOperations [Min]50 MillionLife Expectancy - Elect (@ 120V Rating)Operations [Min]500,000Vibration: Endurance1.0 mm (Double Amplitude)10 ~ 55 HzVibration: Error Operation1.0 mm (Double Amplitude)10 ~ 55 HzShock: EnduranceG Min.100 G MinShock: Error OperationG Min.10 G MinCoil Operate Time (Pick-Up)mSec (Max)20Coil Release Time (Drop Out)mSec (Max)20Coil Temperature Rise (at rated voltage)Deg C (Max)85 CCONTACT RATINGSPDTRated Carrying Current12 AMax. Allowable Voltage240 VAC110 VDCCapacity: Resistive LoadP.F. = 1.0240 VAC - 12 A	POLE COMBINATION		SPDT	
Dielectric Strength (Coil to Contact)AC Volts (50/60 HZ - 1 Min.)2000 VDielectric Strength (Between Contacts)AC Volts (50/60 HZ - 1 Min.) 1000 V Insulation Resistance (500 VDC)MΩ [Min] 100 Max. Switching (ON/OFF) MechanicalOper/Min. 240 Max. Switching (ON/OFF) ElectricalOper/Min. 30 Life Expectancy - MechanicalOperations [Min] 50 Million Life Expectancy - Elect (@ 120V Rating)Operations [Min] $500,000$ Vibration: Endurance 1.0 mm (Double Amplitude) $10 \sim 55 \text{ Hz}$ Vibration: Error Operation 1.0 mm (Double Amplitude) $10 \sim 55 \text{ Hz}$ Shock: EnduranceG Min. 100 G Min Shock: Error OperationG Min. 10 G Min Coil Operate Time (Pick-Up)mSec (Max) 20 Coil Release Time (Drop Out)mSec (Max) 20 Coil Temperature Rise (at rated voltage)Deg C (Max) 85 C CONTACT RATINGSPDTRated Carrying Current 12 A Max. Allowable Voltage 240 VAC 110 VDC Capacity: Resistive LoadP.F. = 1.0 $240 \text{ VAC} - 12 \text{ A}$	ITEM SPECIFICATIONS:	UNITS		
Dielectric Strength (Between Contacts) AC Volts (50/60 HZ - 1 Min.) 1000 V Insulation Resistance (500 VDC) $M\Omega$ [Min] 100 Max. Switching (ON/OFF) Mechanical Oper,/Min. 240 Max. Switching (ON/OFF) Electrical Oper,/Min. 30 Life Expectancy - Mechanical Operations [Min] 50 Million Life Expectancy - Elect (@ 120V Rating) Operations [Min] 500,000 Vibration: Endurance 1.0 mm (Double Amplitude) $10 \sim 55 \text{ Hz}$ Vibration: Error Operation 1.0 mm (Double Amplitude) $10 \sim 55 \text{ Hz}$ Shock: Endurance G Min. 100 G Min Shock: Error Operation G Min. 100 G Min Coil Operate Time (Pick-Up) mSec (Max) 20 Coil Release Time (Drop Out) mSec (Max) 20 Coil Temperature Rise (at rated voltage) Deg C (Max) 85 C CONTACT RATING SPDT Rated Carrying Current 12 A Max. Allowable Voltage 240 VAC 110 VDC Capacity: Resistive Load P.F. = 1.0 240 VAC - 12 A	Contact Resistance	m $Ω$	50	
Insulation Resistance (500 VDC) MΩ [Min] 100 Max. Switching (ON/OFF) Mechanical Oper/Min. 240 Max. Switching (ON/OFF) Electrical Oper/Min. 30 Life Expectancy - Mechanical Operations [Min] 50 Million Life Expectancy - Elect (@ 120V Rating) Operations [Min] 500,000 Vibration: Endurance 1.0 mm (Double Amplitude) 10 ~ 55 Hz Vibration: Error Operation 1.0 mm (Double Amplitude) 10 ~ 55 Hz Shock: Endurance G Min. 100 G Min Shock: Error Operation G Min. 10 G Min Coil Operate Time (Pick-Up) mSec (Max) 20 Coil Release Time (Drop Out) mSec (Max) 20 Coil Temperature Rise (at rated voltage) Deg C (Max) 85 C CONTACT RATING SPDT Rated Carrying Current 12 A Max. Allowable Voltage 240 VAC 110 VDC Capacity: Resistive Load P.F. = 1.0 240 VAC - 12 A	Dielectric Strength (Coil to Contact)	AC Volts (50/60 HZ - 1 Min.)	2000 V	
Max. Switching (ON/OFF) MechanicalOper/Min.240Max. Switching (ON/OFF) ElectricalOper./Min.30Life Expectancy - MechanicalOperations [Min]50 MillionLife Expectancy - Elect (@ 120V Rating)Operations [Min]500,000Vibration: Endurance1.0 mm (Double Amplitude)10 ~ 55 HzVibration: Error Operation1.0 mm (Double Amplitude)10 ~ 55 HzShock: EnduranceG Min.100 G MinShock: Error OperationG Min.10 G MinCoil Operate Time (Pick-Up)mSec (Max)20Coil Release Time (Drop Out)mSec (Max)20Coil Temperature Rise (at rated voltage)Deg C (Max)85 CCONTACT RATINGSPDTRated Carrying Current12 AMax. Allowable Voltage240 VAC110 VDCCapacity: Resistive LoadP.F. = 1.0240 VAC - 12 A	Dielectric Strength (Between Contacts)	AC Volts (50/60 HZ - 1 Min.)	1000 V	
Max. Switching (ON/OFF) Electrical Oper/Min. 30 Life Expectancy - Mechanical Operations [Min] 50 Million Life Expectancy - Elect (@ 120V Rating) Operations [Min] 500,000 Vibration: Endurance 1.0 mm (Double Amplitude) 10 ~ 55 Hz Vibration: Error Operation 1.0 mm (Double Amplitude) 10 ~ 55 Hz Shock: Endurance G Min. 100 G Min Shock: Error Operation G Min. 10 G Min Coil Operate Time (Pick-Up) mSec (Max) 20 Coil Release Time (Drop Out) mSec (Max) 20 Coil Temperature Rise (at rated voltage) Deg C (Max) 85 C CONTACT RATING SPOT Rated Carrying Current 12 A Max. Allowable Voltage 240 VAC 110 VDC Capacity: Resistive Load P.F. = 1.0 240 VAC - 12 A	Insulation Resistance (500 VDC)	MΩ [Min]	100	
Life Expectancy - Mechanical Operations [Min] 50 Million Life Expectancy - Elect (@ 120V Rating) Operations [Min] 500,000 Vibration: Endurance 1.0 mm (Double Amplitude) 10 ~ 55 Hz Vibration: Error Operation 1.0 mm (Double Amplitude) 10 ~ 55 Hz Shock: Endurance G Min. 100 G Min Shock: Error Operation G Min. 10 G Min Coil Operate Time (Pick-Up) mSec (Max) 20 Coil Release Time (Drop Out) mSec (Max) 20 Coil Temperature Rise (at rated voltage) Deg C (Max) 85 C CONTACT RATING SPDT Rated Carrying Current 12 A Max. Allowable Voltage 240 VAC 110 VDC Capacity: Resistive Load P.F. = 1.0 240 VAC - 12 A	Max. Switching (ON/OFF) Mechanical	Oper./Min.	240	
Life Expectancy - Elect (@ 120V Rating) Operations [Min] 500,000 Vibration: Endurance 1.0 mm (Double Amplitude) 10 ~ 55 Hz Vibration: Error Operation 1.0 mm (Double Amplitude) 10 ~ 55 Hz Shock: Endurance G Min. 100 G Min Shock: Error Operation G Min. 10 G Min Coil Operate Time (Pick-Up) mSec (Max) 20 Coil Release Time (Drop Out) mSec (Max) 20 Coil Temperature Rise (at rated voltage) Deg C (Max) 85 C CONTACT RATING SPDT Rated Carrying Current 12 A Max. Allowable Voltage 240 VAC 110 VDC Capacity: Resistive Load P.F. = 1.0 240 VAC - 12 A	Max. Switching (ON/OFF) Electrical	Oper./Min.	30	
Vibration: Endurance 1.0 mm (Double Amplitude) 10 ~ 55 Hz Vibration: Error Operation 1.0 mm (Double Amplitude) 10 ~ 55 Hz Shock: Endurance G Min. 100 G Min Shock: Error Operation G Min. 10 G Min Coil Operate Time (Pick-Up) mSec (Max) 20 Coil Release Time (Drop Out) mSec (Max) 20 Coil Temperature Rise (at rated voltage) Deg C (Max) 85 C CONTACT RATING Rated Carrying Current 12 A Max. Allowable Voltage 240 VAC 110 VDC Capacity: Resistive Load P.F. = 1.0 240 VAC - 12 A	Life Expectancy - Mechanical	Operations [Min]	50 Million	
Vibration: Error Operation 1.0 mm (Double Amplitude) 10 ~ 55 Hz Shock: Endurance G Min. 100 G Min Shock: Error Operation G Min. 10 G Min Coil Operate Time (Pick-Up) mSec (Max) 20 Coil Release Time (Drop Out) mSec (Max) 20 Coil Temperature Rise (at rated voltage) Deg C (Max) 85 C CONTACT RATING SPDT Rated Carrying Current 12 A Max. Allowable Voltage 240 VAC 110 VDC Capacity: Resistive Load P.F. = 1.0 240 VAC - 12 A	Life Expectancy - Elect (@ 120V Rating)	Operations [Min]	500,000	
Shock: Endurance G Min. 100 G Min Shock: Error Operation G Min. 10 G Min Coil Operate Time (Pick-Up) mSec (Max) 20 Coil Release Time (Drop Out) mSec (Max) 20 Coil Temperature Rise (at rated voltage) Deg C (Max) 85 C CONTACT RATING SPDT Rated Carrying Current 12 A Max. Allowable Voltage 240 VAC 110 VDC Capacity: Resistive Load P.F. = 1.0 240 VAC - 12 A	Vibration: Endurance	1.0 mm (Double Amplitude)	10 ~ 55 Hz	
Shock: Error Operation G Min. 10 G Min Coil Operate Time (Pick-Up) mSec (Max) 20 Coil Release Time (Drop Out) mSec (Max) 20 Coil Temperature Rise (at rated voltage) Deg C (Max) 85 C CONTACT RATING SPDT Rated Carrying Current 12 A Max. Allowable Voltage 240 VAC 110 VDC Capacity: Resistive Load P.F. = 1.0 240 VAC - 12 A	Vibration: Error Operation	1.0 mm (Double Amplitude)	10 ~ 55 Hz	
Coil Operate Time (Pick-Up) mSec (Max) 20 Coil Release Time (Drop Out) mSec (Max) 20 Coil Temperature Rise (at rated voltage) Deg C (Max) 85 C CONTACT RATING SPDT Rated Carrying Current 12 A Max. Allowable Voltage 240 VAC 110 VDC Capacity: Resistive Load P.F. = 1.0 240 VAC - 12 A	Shock: Endurance	G Min.	100 G Min	
Coil Release Time (Drop Out) mSec (Max) 20 Coil Temperature Rise (at rated voltage) Deg C (Max) 85 C CONTACT RATING SPDT Rated Carrying Current 12 A Max. Allowable Voltage 240 VAC 110 VDC Capacity: Resistive Load P.F. = 1.0 240 VAC - 12 A	Shock: Error Operation	G Min.	10 G Min	
Coil Temperature Rise (at rated voltage) Deg C (Max) 85 C CONTACT RATING SPDT Rated Carrying Current 12 A Max. Allowable Voltage 240 VAC 110 VDC Capacity: Resistive Load P.F. = 1.0 240 VAC - 12 A	Coil Operate Time (Pick-Up)	mSec (Max)	20	
CONTACT RATING SPDT Rated Carrying Current 12 A Max. Allowable Voltage 240 VAC 110 VDC 110 VDC Capacity: Resistive Load P.F. = 1.0 240 VAC - 12 A	Coil Release Time (Drop Out)	mSec (Max)	20	
Rated Carrying Current 12 A Max. Allowable Voltage 240 VAC 110 VDC Capacity: Resistive Load P.F. = 1.0 240 VAC - 12 A	Coil Temperature Rise (at rated voltage)	Deg C (Max)	85 C	
Max. Allowable Voltage 240 VAC 110 VDC Capacity: Resistive Load P.F. = 1.0 240 VAC - 12 A	CONTACT RATING		SPDT	
Capacity: Resistive Load P.F. = 1.0 240 VAC - 12 A	Rated Carrying Current		12 A	
Capacity: Resistive Load P.F. = 1.0 240 VAC - 12 A	Max. Allowable Voltage		240 VAC	
210 1110			110 VDC	
24 VDC - 12 A	Capacity: Resistive Load P.F.	. = 1.0		
DE 04	Indication London	. 04		
Inductive Loads P.F. = 0.4 240 VAC - 7 A				
[L/R = 7 mSec.] 24 VDC - 7 A Min. Recommended Load 10 VDC - 10 mA		/ m5ec.]		

Power

1.7 VA

1.7 VA

1.7 VA

0.8 W

0.8 W

(+/- 10% OHMS) Consumption

180

4,300

15,720

188

750

Nominal Current Coil Resistance

(mA)

72

14

7

64

32

ENVIRONMENTAL & PHYSICAL PARAMETERS

Operating Ambient Temperature -30° C to +70° C (-22° F to +158° F) Assumes a DRY environment — Enclosed

Operating Humidity (Recommended) 45% to 85% RH

Unit Weight 24 g (0.9 oz)

Relay & Socket Dimensions See Outline Drawings pages 423-428.

MATERIALS & CONSTRUCTION

Contacts: AgNi Alloy

Plated Brass Terminations: Cadmium Free
Solder Connections: Lead Free
Thermoplastic & Thermoset Moldings
RoHS Compliance:
For RoHS compliance documentation by product, refer to www.c3controls.com.

Nominal Coil Voltage

24 VAC (@ 60 HZ)

120 VAC (@ 60 HZ)

240 VAC (@ 60 HZ)

(Volts)

12 VDC

24 VDC



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 420).
- 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.

Simply pick the code number from each of the sections below and combine them to build your part number. See page 6 for more detailed directions. **Hermetically Sealed Octal Base Relay w/Pin Terminals** Example: To build one of our most popular **HGPRS-P** Relays, the part number would be Ш HGPRS-P + II + III or HGPRS-P3C10ZC. I. RELAY TYPE II. POLES & CURRENT RATING III. COIL VOLTAGES DESCRIPTION CODE DESCRIPTION PRICE CODE **DESCRIPTION** PRICE CODE HGPRS-P Hermetically Sealed Relay \$54.00 2C12 DPDT, 12A 24V AC w/Pin 3C10 3PDT, 12A \$2.00 D 120V AC 240V AC ΖB **12V DC** 24V DC ZC 110V DC ZD

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			
	See page 420 for socket information			



Octal Base w/Pin Terminals | Hermetically Sealed



		ELEC	CTRICAL RATIN	IGS			
POLE COMBINATION						DPDT	3PDT
ITEM SPECIFICATIONS:			UNITS			5151	
		AC Volts (50/60 HZ	7 - 1 Min	ute)	1250 V	1250 V	
Dielectric Strength (Bety			AC Volts (50/60 HZ			1250 V	1250 V
Insulation Resistance (5		,	MΩ [Min]		,	100	100
Max Switching (ON/OFF)	,	 al			6	6	
Life Expectancy - Mecha			Operations [Min]			5M	5M
Life Expectancy - Elect (@		sistive)	Operations [Min]			100K	100K
Vibration: Endurance		·	1.0 mm (Double A	mplitude	:)	10 ~ 55 Hz	10 ~ 55 Hz
			G Min.			3 G Min	3 G Min
Shock:			Mechanical			10 G	10 G
Coil Operate Time (Pick-	Up)		mSec (Max)			15	15
Coil Release Time (Drop	Out)		mSec (Max)			10	10
CONTACT RATING					PDT		3PDT
Rated Carrying Current					12 A		12 A
Max. Allowable Voltage				24	0 VAC		240 VAC
				28	VDC		28 VDC
Capacity: Resistive Load	i		P.F. = 1.0	240 V	/AC - 8 A 240) VAC - 6 A
				120 V	AC - 12 A	A 120 VAC - 10 A	
			28 VDC		C - 10 A 28 V		VDC - 10 A
Inductive Loads P.F. =		P.F. = 0.	F. = 0.4 [L/R = 7 mSec.] 240) VAC - 4 A
) VAC - 7 A
				28 V	DC - 7 A	28	VDC - 7 A
Motor Loads			120 VAC	1/	3 HP		1/3 HP
		240 VAC		2 HP		1/2 HP	
Minimum Recommended Load Swite		ching [0.5 Watts]	100 m	\ @ 5 VD	C 100 i	nA @ 5 VDC	
COIL SPECIFICATIONS (@	25° C (7	7° F)) —	(DPDT)				
Temperature Code:	T-	4A					
Nominal Coil Voltage (Volts)		sistance 6 OHMS)	Power Consumption	1	Pick-Up Voltage	Drop-Out Voltage	Max. Allowed Voltage
24 VAC (@ 60 HZ)		72	1.2 VA		85%	15%	
120 VAC (@ 60 HZ)	1,7	700	1.2 VA		Max.	Min.	110%
240 VAC (@ 60 HZ)		200	1.2 VA		Rated	Rated	Rated
12 VDC	120		0.9 W	80%		10%	44001
24 VDC	470		0.9 W		Max.	Min.	110% Rated
110 VDC	10,000		0.9 W	Rated		Rated	nateu
COIL SPECIFICATIONS (@ 25° C (77° F)) — (3PDT)							
Temperature Code:		4A					
Nominal Coil Voltage (Volts)		sistance 6 OHMS)	Power Consumption	1	Pick-Up Voltage	Drop-Out Voltage	Max. Allowed Voltage
	72		2 VA		85%	15%	
24 VAC (@ 60 HZ)	1,700		2 VA		Max.	Min.	110%
24 VAC (@ 60 HZ) 120 VAC (@ 60 HZ)	1,	/00	Z VA				
		200	2 VA		Rated	Rated	Rated
120 VAC (@ 60 HZ)	7,					Rated	
120 VAC (@ 60 HZ) 240 VAC (@ 60 HZ)	7,:	200	2 VA		Rated 80% Max.		110% Rated

ENVIRONMENTAL & PHYSICAL PARAMETERS

Operating Ambient Temperature
Assumes a DRY environment — Enclosed

AC Operated: -40° C to +55° C (-49° F to +131° F) DC Operated: -45° C to +55° C (-49° F to +131° F)

Operating Humidity (Recommended) 35% to 85% RH

May mount in ANY position
Unit Weight (2, 3 Pole Relay)
130 g (4.6 oz)

Relay & Socket Dimensions See Outline Drawings pages 423-428.

MATERIALS & CONSTRUCTION

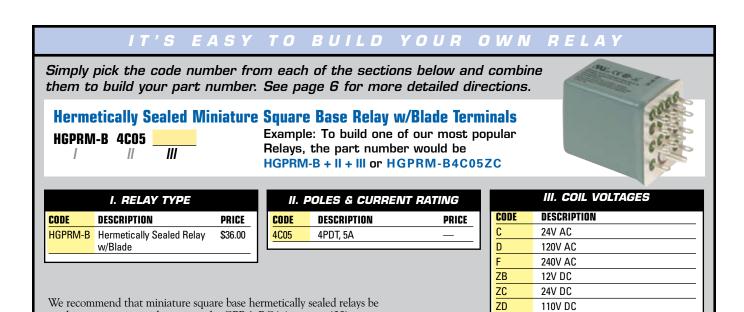
Contacts: Ag Alloy
Plated Terminations: Cadmium Free
Solder Connections: Lead Free
Thermoplastic & Thermoset Moldings
Rated UL-94V0
Protective Covering: Steel with baked enamel finish
RoHS Compliance:
For RoHS compliance documentation by

product, refer to www.c3controls.com.



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 422).
- 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					
See page 422 for socket information					

used in conjunction with retainer clip GPRA-RC4 (see page 422).



Miniature Square Base w/Blade Terminals | HERMETICALLY SEALED



POLE COMBINATION		ELEC	TRICAL RATINGS		4PDT		
ITEM SPECIFICATIONS:			UNITS		4701		
Dielectric Strength (Co	il to Conta	ct)	AC Volts (50/60 HZ -	1 Minute)	1240	V	
Dielectric Strength (Betv			AC Volts (50/60 HZ -			500 V	
Insulation Resistance		0.07	MΩ [Min]	1 Williato)	100		
Max Switching (ON/OF	, ,	nical	Oper./Min.		30		
Max Switching (ON/OF			Oper./Min.		6		
Life Expectancy - Mecl		-	Operations [Min]		10M		
Life Expectancy - Elect (@120 V Re	sistive)	Operations [Min]		100K		
Vibration: Endurance			1.0 mm (Double Am	plitude)	10 ~	55 Hz	
			G Min.		3 G N	/lin	
Shock:			Functional		10 G		
Coil Operate Time (Pick	c-Up)		mSec (Max)		13		
Coil Release Time (Dro	o Out)		mSec (Max)		6	6	
CONTACT RATING 4PDT							
Rated Carrying Current					5 A		
Max. Allowable Voltage					VAC		
			30 VDC				
Capacity: Resistive Load					10 VAC- 5 A	-	
				20 VAC- 5 A	-		
					0 VDC- 5 A		
Inductive Loads P.F. =		P.F. =			10 VAC- 3 A		
					20 VAC- 3 A		
			1. 1.1. [1.0.(D.0]	0 VDC- 2 A			
Minimum Recommended Load S		Si	witching [AC/DC]	100	mA @ 5 V	JC	
COIL SPECIFICATIONS (@			(4PDT)				
Temperature Code:		T4A					
Nominal Coil Voltage (Volts)		esistance % OHMS)	Power Consumption	Pick-Up Voltage	Drop-Out Voltage	Max. Allowed Voltage	
24 VAC (@ 60 HZ)	180		1.2 VA	85%	15%		
120 VAC (@ 60 HZ)	4,430		1.2 VA	Max.	Min.	110% Rated	
240 VAC (@ 60 HZ)	15,720		1.2 VA	Rated	Rated	nated	
12 VDC		160	0.9 W	80%	10%	4400/	
24 VDC		650	0.9 W	Max.	Min.	110% Rated	
110/125 VDC	1;	3,800	0.9 W	Rated	Rated	เาลเซน	

ENVIRONMENTAL & PHYSICAL PARAMETERS

Operating Ambient Temperature -40° C to +70° C (-49° F to +158° F) Assumes a DRY environment — Enclosed

Operating Humidity (Recommended) 35% to 85% RH

Unit Weight (4 Pole Relay) 45 g (1.6 oz)

Relay & Socket Dimensions See Outline Drawings pages 423-428.

MATERIALS & CONSTRUCTION

Contacts: Ag Alloy
Plated Terminations: Cadmium Free
Solder Connections: Lead Free
Thermoplastic & Thermoset Moldings Rated UL-94V0
Protective Covering: Steel with baked enamel finish
RoHS Compliance:
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	PRICE			
GPRA-SP08G1	8 Pin Guarded	\$3.20			
SPECIFICATIONS:					
TYPE: Surface o	r DIN Rail Mount				
CURRENT CARR	YING MEMBERS:				
Phosphor Br	onze Nickel Plate	d 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-					
RETAINER CLIP∙ GPRA-RC3					



8 PIN	UNGUARDED,	10A			
CODE	DESCRIPTION	PRICE			
GPRA-SP08U1	8 Pin Unguarded	\$3.20			
	SPECIFICATIONS:				
TYPE: Surface o	r DIN Rail Mount				
	RYING MEMBERS: ronze Nickel Plated	Steel			
	oen style, Screw w/o re clamps	captive			
RECOMMENDE	D TORQUE: 7-10 lb-i	n. [.8-1.1 Nm]			
ELECTRICAL RA	TING: 10A, 600V AC				
ROHS COMPLIANCE: For documentation by					
product, ref	er to www.c3contro	ls.com.			
	FOR USE WITH:				
GENERAL PURPOSE RELAY: GPRS-P2C10** and HGPRS-P2C12*					
RETAINER CLIP: GPRA-RC3					



11 PIN GUARDED, 10A			
CODE	DESCRIPTION	PRICE	
GPRA-SP11G1	11 Pin Guarded	\$3.20	
	SPECIFICATIONS:		
TYPE: Surface o	r DIN Rail Mount		
CURRENT CARE	YING 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:			
-	OSE RELAY: GPRS-	P3C10**	
and HGPRS-P3C10*			
DETAINED CLID- CDDA DC2			



DISCOUNT SCHEDULE

11 PIN UNGUARDED, 10A		
CODE	DESCRIPTION	PRICE
GPRA-SP11U1	11 Pin Unguarded	\$3.20
	SPECIFICATIONS:	
TYPE: Surface or	DIN Rail Mount	
	RYING MEMBERS:	
Phosphor Bronze Nickel Plated Steel TERMINALS: Open style, Screw w/captive wire clamps		
	D TORQUE: 7-10 lb-in. [8-1 1 Nml
ELECTRICAL RATING: 10A, 600V AC		
ROHS COMPLIANCE: For documentation by product, refer to www.c3controls.com.		
FOR USE WITH:		
GENERAL PURP and HGPRS	OSE RELAY: GPRS-P30 -P3C10*	10**
RETAINER CLIP: GPRA-RC3		



& 11 BLADE GUARDED & UNGUARDED SOCKET



MINIATURE 5 BLADE GUARDED, 15A

CODE	DESCRIPTION	PRICE	
GPRA-SB05G1	Mini 5 Blade Guarded	\$3.20	
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**

RETAINER CLIP: GPRA-RC4



MINIATURE 8 BLADE GUARDED, 15A

CODE	DESCRIPTION	PRICE	
GPRA-SB08G1	Mini 8 Blade Guarded	\$3.20	
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**

RETAINER CLIP: GPRA-RC2



11 BLADE GUARDED, 20/25A

CODE	DESCRIPTION	PRICE
GPRA-SB11G1	11 Blade Guarded	\$4.50

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**

RETAINER CLIP: GPRA-RC1





MINIATURE 8 BLADE UNGUARDED, 15A

CODE	DESCRIPTION	PRICE	
GPRA-SB08U1	Mini 8 Blade Unguarded	\$3.20	
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-B1C15** and GPRM-B2C10**

RETAINER CLIP: GPRA-RC2



11 BLADE UNGUARDED, 20/25A

CODE	DESCRIPTION	PRICE	
GPRA-SB11U1	11 Blade Unguarded	\$4.50	
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.

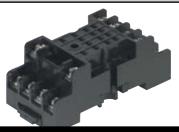
FOR USE WITH:

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

RETAINER CLIP: GPRA-RC1







MINIATURE 14 BLADE UNGUARDED, 7A

CODE	DESCRIPTION	PRICE	
GPRA-SB14U1	Mini 14 Blade Unguarded	\$4.30	
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*

RETAINER CLIP: GPRA-RC4



MINIATURE 14 BLADE UNGUARDED. 15A

CODE	DESCRIPTION	PRICE
GPRA-SB14U2	Mini 14 Blade Unguarded	\$4.30
	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**

RETAINER CLIP: GPRA-RC4

RETAINER CLIPS FOR SOCKETS

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.

	DESCRIPTION		PRICE/PC.
GPRA-RC1	Retainer Clip	10	\$1.00



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

CODE		QTY./I	PKG. PRICE/PC.
GPRA-RC2	Retainer Clip	10	\$1.00
,			



DISCOUNT SCHEDULE

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

CODEDESCRIPTIONQTY./PKG.PRICE/PR.GPRA-RC4Retainer Clip10 pair\$1.00

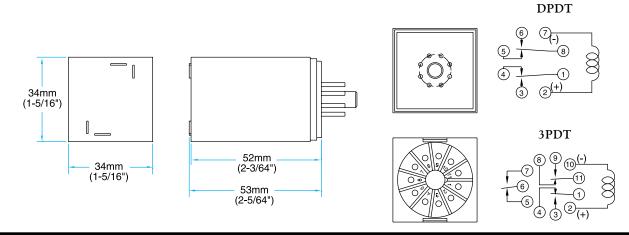
For use with GPRA-SP08U1, GPRA-SP08G1, GPRA-SP11U1 & GPRA-SP11G1 Sockets.

GODE DESCRIPTION QTY/PKG. PRICE/PR.

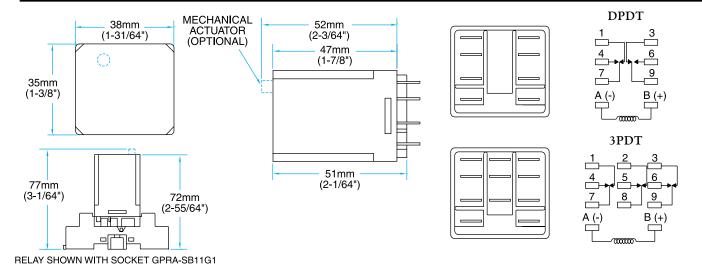
GPRA-RC3 Retainer Clip 10 pair \$1.00



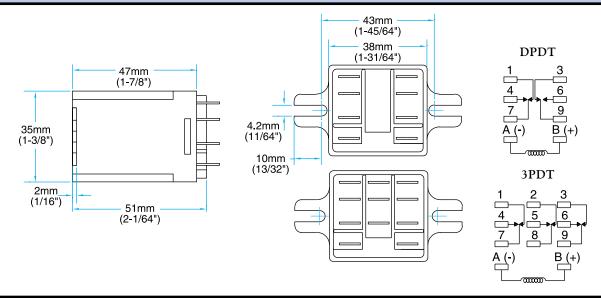




SQUARE BASE RELAYS W/BLADE TERMINALS - 2 & 3 POLES (GPRS-B2C13, B3C13, B2C25 & B3C20,

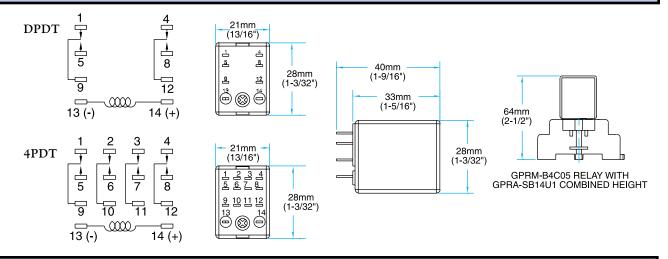


FLANGE MOUNTED RELAYS W/BLADE TERMINALS - 2 & 3 POLES (GPRF-TC25 & T3C20)

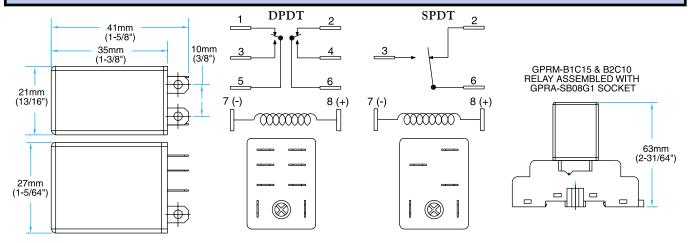




MINIATURE SQUARE BASE RELAYS W/BLADE TERMINALS, 2 & 4 POLES (GPRM-B2C05 & B4C05)

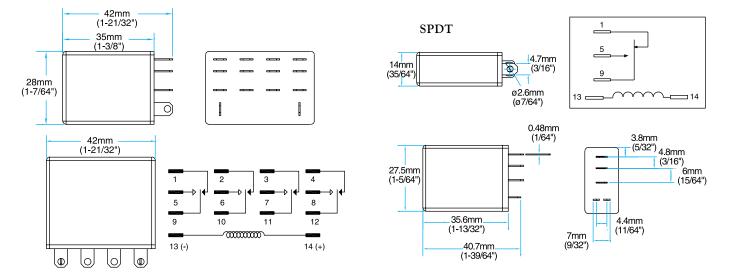


MINIATURE SQUARE BASE RELAYS W/BLADE TERMINALS, 1 & 2 POLES (GPRM-B1C15 & B2C10)



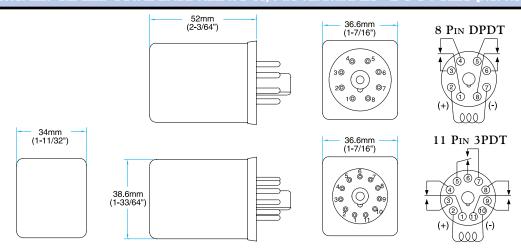
MINIATURE SQUARE BASE RELAYS W/ BLADE TERMINALS - 4 POLES (GPRM-B4C10)

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

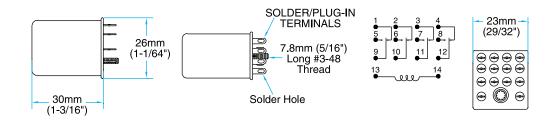




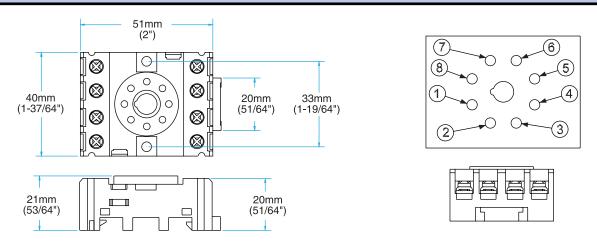
HERMETICALLY SEALED OCTAL BASE RELAYS W/PIN TERMINALS - 2 & 3 POLES (HGPRS-P2C12 & P3C10)



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



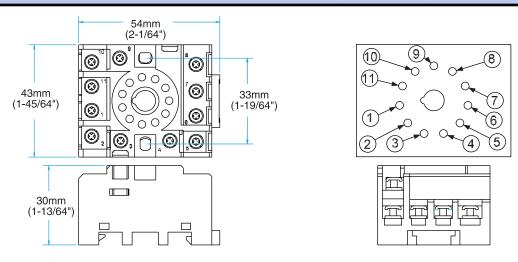
8 PIN GUARDED 10A SOCKET (GPRA-SP08G1)



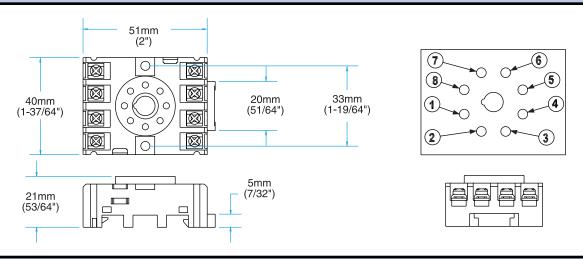
VISIT WWW.C3CONTROLS.COM TO DOWNLOAD CAD DRAWINGS



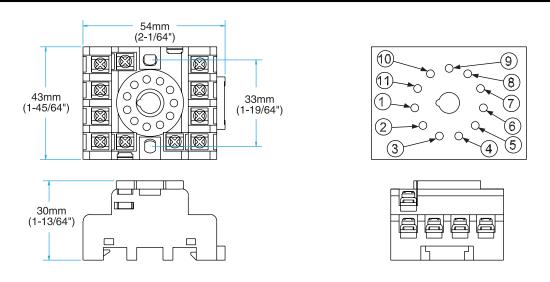
11 PIN GUARDED 10A SOCKET (GPRA-SP11G1)



8 PIN UNGUARDED 10A SOCKET (GPRA-SP08U1)

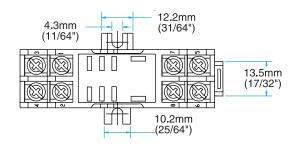


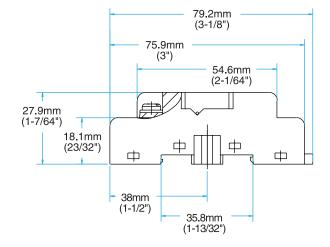
11 PIN UNGUARDED 10A SOCKET (GPRA-SP11U1)

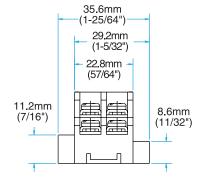




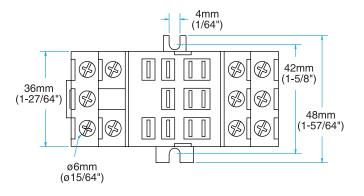
MINIATURE 8 BLADE GUARDED 15A SOCKET (GPRA-SB08G1)

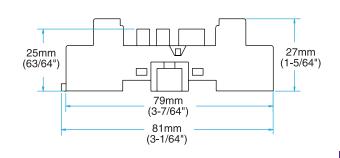


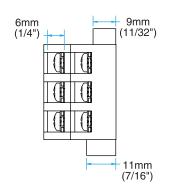




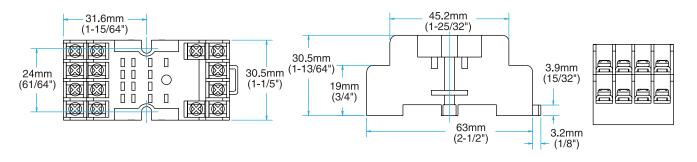
11 BLADE GUARDED 20/25A SOCKET (GPRA-SB11G1)





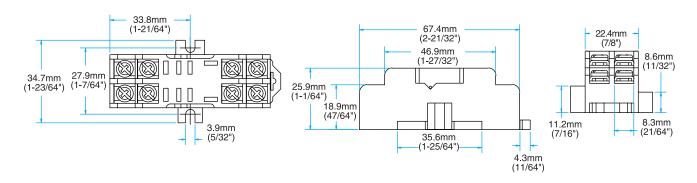


MINIATURE 14 BLADE UNGUARDED 7A SOCKET (GPRA-SB14U1)

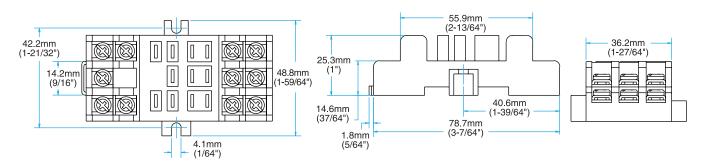




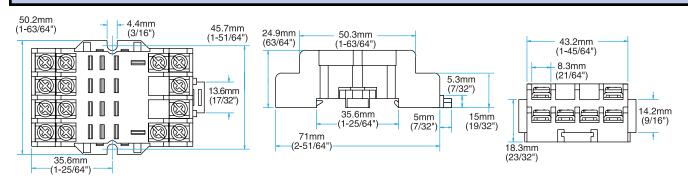
MINIATURE 8 BLADE UNGUARDED 15A SOCKET (GPRA-SB08U1)



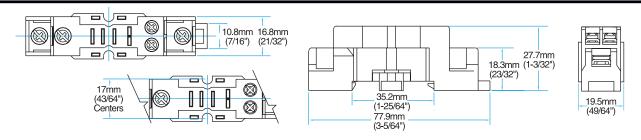
MINIATURE 11 BLADE UNGUARDED 20/25A SOCKET (GPRA-SB11U1)



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



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





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