

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, and come in a variety of base configurations. Options include LED indicators and manual lockable push buttons among others. Our relays meet UL, CSA, and IEC standards requirements making them suitable for global applications.



Section 35 Square Base Relays w/Blade Octal Base Relays w/Pin 10 Pin & Blade Sockets 14 Dimensions 17

PROVEN



c. ALus CE

Conformity to Standards: GENERAL PURPOSE RELAYS

CSA C22.2 No. 14-18

SOCKETS

UL 508 CSA C22.2 No. 14-1

Certifications:

JL File #: E224085

CE Marked (As per the Low Voltage Directive 2014/35/EU, and RoHS Directive 2015/863/EU)

UL File #: E236196

CE Marked (As per the Low Voltage Directive 2014/35/EU, and RoHS Directive 2015/863/EU)

 $\label{thm:composition} \mbox{\sc Visit c3controls.com to download product certifications.}$



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 200 and 210 below!

QUICK AND ECONOMICAL—PERFECT FOR ALL YOUR CONTROL LOGIC APPLICATIONS.					
✓ Proven	Our relays meet UL, CSA, and IEC standards requirements making them suitable for global applications.				
✓ Multiple Styles	Our line of General Purpose Relays are available in Octal Base with pin terminals and Square Base with blade-style terminals.				
✓ Convenient Customization	Our Series 210 Octal Base relays with pin style terminals are interchangeable with other commonly available relays.				
√ Easy Reference	Schematic diagrams and terminal markings are located on the relay for easy reference during installation.				
√ Transparent Housing	Allows you to see switching operations and the condition of the contacts.				
✓ Wide Range of Specifications	Various pole combinations, such as SPDT, DPDT, 3PDT, and 4PDT, are in stock for same-day delivery, featuring a current rating up to 10A. Additionally, SPST, DPST, 3PST, 1 NO + NC contacts, and 1 NO Double break contacts are also offered; however, their availability is contingent on lead time and minimum order quantities.				
✓ Environmentally Safe	Our AgNi contacts are cadmium-free and environmentally friendly.				
✓ Limited Lifetime Warranty*	Every product is backed by our limited lifetime warranty—unmatched in the industry—bringing you quality components that perform in the most demanding applications.				
✓ Guaranteed Same-Day Shipping*	Product availability reduces inventory and improves cash flow—saving you money. With c3controls any order for standard catalog items received by 6:00 pm 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

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Square Base 1 Pole with Blade Terminals



Square Base 2 Pole with Blade Terminals



Square Base 4 Pole with Blade Terminals



Octal Base 2 Pole with Pin Terminals



Octal Base 3 Pole with Pin Terminals



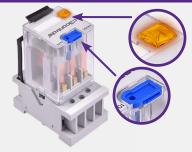
UNIQUE PRODUCT LINE FEATURES

RELIABILITY REDEFINED



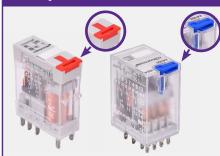
Our General Purpose Relays ensure consistent, trouble-free performance for smooth system

ENHANCED CONTROL AND SAFETY



Opt for our manual push button with an indicator for safe circuit checks without relay energization.

QUICK IDENTIFICATION



Relay coil voltages are printed for easy identification. Color-coded push buttons distinguish DC (blue) and AC (red) controls for simplified operation.

MARKING STRIPS



Marking plates at relays and sockets to provide easy identification, improving maintenance efficiency and minimizing errors.

INBUILT RETAINER CLIPS



Built-in plastic retainer clips in relay sockets ensure secure and hassle-free relay installation and replacement.

VERSATILE APPLICATIONS



Our relays seamlessly adapt to industrial, commercial, and residential applications, making them the ideal choice for diverse settings.

FIND IT **FAST**

General Purpose Relays



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



SQUARE BASE 1 POLE RELAYS WITH BLADE TERMINALS

- SPDT and SPST relays with a 10A rating provide flexibility for control circuit applications.
- Coil voltages printed on top of relays for easy identification, ensuring the right choice for your application.
- Our color-coded push buttons simplify operation by clearly distinguishing between DC (blue) and AC (red) controls.
- Comprehensive selection of coil voltages, ranging from 12V to 230V AC and 12V to 110V DC.
- Low coil consumption to minimize transformer and power supply requirements.
- Transparent housing designed for visual observation of switching mechanisms and contact points, allowing for real-time assessment of operational and wear status.

- Small size requiring minimum panel space for lower installed cost.
- Schematic diagram and terminal markings on the relay for easy reference during installation.
- Optional manual and lockable push button and LED indicator for checking the control circuit operation without energizing the relay and to easily determine the relay status.
- 100% tested to ensure performance to specification.
- UL, CSA and CE for acceptance in global applications.
- AgNi contacts, environmentally friendly cadmium-free.

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.

Square Base 1 Pole Relay with Blade Terminals



Example: To build one of our most popular Relays, the part number would be 200-GP + II + 10 + IV + V or 200-GP1C10C

I. RELAY TYPE		
CODE	DESCRIPTION	
200-GP	General Purpose Relay	

II. POLES / CONTACT TYPE				
CODE	DESCRIPTION	LIST		
1X	SPST (1 N.O.)*	\$20.00		
1C	SPDT (1 C/O)	\$11.00		

III. CURRENT RATING		
CODE	DESCRIPTION	
10	10 Amps	

IV. OPTIONS			
CODE	DESCRIPTION	LIST	
(Blank)	No Options		
LP	LED Indicator, Manual and Lockable Push Button	\$ 2.00	
LPW	LED Indicator, Manual and Lockable Push Button with Free Wheeling Diode*	\$10.00	
LPG	LED Indicator, Manual and Lockable Push Button with Free Wheeling Diode and Polarity Diode*	\$12.00	
LPR	LED Indicator, Manual and Lockable Push Button with RC Circuit*	\$16.00	
LPH	LED Indicator, Manual and Lockable Push Button with Bridge Rectifier*	\$12.00	

V. COIL VOLTAGE			
CODE	DESCRIPTION	FOR OPTION CODES	
В	12V AC*	LP	
C	24V AC	LP, LPH	
J	48V AC*	LP, LPH	
U	115V AC	LP, LPR	
V	230V AC	LP, LPR	
ZB	12V DC	LP, LPW, LPG	
ZC	24V DC	LP, LPW, LPG, LPH	
ZJ	48V DC*	LP, LPW, LPG, LPH	
ZD	110V DC*	LP, LPW, LPG	

*NOTE: Products marked with * are not available for same-day shipping.

Please contact our Customer First Team for lead times and minimum order quantities.



COMPATIBLE SOCKETS			
RELAY TYPE	COMPATIBLE SOCKETS		
200-GP1C10**	200-SB05100 with Screw Clamp Terminals (Guarded) or		
200-GP1X10**	200-SB0510B* with Box Terminals		
NOTE: ** Represents the Options and Coil Voltage codes. Refer to charts IV & V above. See page 14 for socket information.			

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			SQUA	RE BASE 1 POLE	RELAYS	
	UNITS		20	0-GP1C10** & 200-GP1X	10**	
CONTACTS						
Maximum Switching Current	А			10		
Maximum Peak Inrush Current (20ms)	А			30		
Maximum Switching Voltage	V			250		
Maximum AC Load	kVA			2.5		
Resistive Load	PF = 1.0			250 VAC - 10A 30 VDC - 10A		
Inductive Load	PF = 0.4			240 VAC - 3A 240 VDC - 2A		
Motor Load				240 VAC - 1/4 HP 240 VDC - 1/10 HP		
Minimum Recommended Load				10 VDC - 10mA		
INSULATION						
Dielectric Strength (1 minute)						
Open Contacts	kV			1		
Between Contacts and Coil	kV			5		
Insulation Resistance @ 500 VDC	Ω			>3G		
COILS (Ohms ±10% @ 20°C)						
VOLTAGE		Coil Resistance (+/= 10% OHMS)	Power Consumption	Pick-Up Voltage	Drop-Out Voltage	Maximum Allowed Voltage
12V AC		80				
24V AC		290		≤85% of Nominal Voltage	≥ 30% of Nominal Voltage	110% of Rated Voltage
48V AC		1,200	1.1 VA			
115V AC		7,300				
230V AC		28,800				
12V DC		224				
24V DC		742	0.714/	≤75% of Nominal Voltage	≥ 10% of Nominal Voltage	110% of Rated Voltage
48V DC		3,500	0.7 W			
110V DC		19,900				
ENVIRONMENTAL		,				
Operate Time + Bounce Time	ms	10				
Release Time + Bounce Time	ms	8				
Ambient Temperature		-40°C to +70°C (-40°F to +158°F)				
Mechanical Life Operations		10 Million AC, 20 Million DC Relays				
Electrical Life @ Nominal Load	ops	>100,000				
Operating Frequency @ Nominal Load		1,200/hour				
		IP40 / RT1				
Protection		21				
Protection Weight	gms			21		



Souare Base 2 Pole Relays with Blade Terminals

- DPDT and DPST relays with ratings of 6 Amps and 10 Amps provide options for control circuit applications.
- Coil voltages printed on top of relays for easy identification, ensuring the right choice for your application.
- Our color-coded push buttons simplify operation by clearly distinguishing between DC (blue) and AC (red) controls.
- Comprehensive selection of coil voltages, ranging from 6V to 230V AC and 12V to 220V DC.
- Low coil consumption to minimize transformer and power supply
- Transparent housing designed for visual observation of switching mechanisms and contact points, allowing for real-time assessment of operational and wear status.

- Small size requiring minimum panel space for lower installed cost.
- Schematic diagram and terminal markings on the relay for easy reference during installation.
- Optional manual and lockable push button and LED indicator for checking the control circuit operation without energizing the relay and to easily determine the relay status.
- 100% tested to ensure performance to specification.
- UL, CSA and CE for acceptance in global applications.
- AgNi contacts, environmentally friendly cadmium-free.

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.

Square Base 2 Pole Relay with Blade Terminals

200-GP

Ш IV

Example: To build one of our most popular Relays, the part number would be 200-GP + II + III + IV + V or 200-GP2C10C



II. POLES / CONTACT TYPE				
CODE	DESCRIPTION	LIST		
2X	DPST (2 N.O.)*	\$17.40		
2C	DPDT (2 C/O)	\$10.00		
2XY	DPST (1 N.O. + 1 N.C.)*	\$13.90		

II. POLES / CONTACT TYPE				III. CURRENT RATING
DE	DESCRIPTION	LIST	CODE	DESCRIPTION
	DPST (2 N.O.)*	\$17.40	10	10 Amps
	DPDT (2 C/O)	\$10.00	06	6 Amps
1	DPST (1 N.O. + 1 N.C.)*	\$13.90		p rating not available with 2XY contact 110V AC and 220V DC.
			oun voltages	110 V AG alla 220 V DG.

IV. OPTIONS				
CODE	DESCRIPTION	LIST		
(Blank)	No Options	_		
LP	LED Indicator, Manual and Lockable Push Button	\$ 2.00		
LPW	LED Indicator, Manual and Lockable Push Button with Free Wheeling Diode*	\$10.00		
LPG	LED Indicator, Manual and Lockable Push Button with Free Wheeling Diode and Polarity Diode*	\$12.00		
LPR	LED Indicator, Manual and Lockable Push Button with RC Circuit*	\$16.00		
LPH	LED Indicator, Manual and Lockable Push Button with Bridge Rectifier*	\$12.00		
1				

*NOTE: Products marked with * are not available for same-day shipping. Please contact our Customer First Team for lead times and minimum order quantities.



V. COIL VOLTAGE				
CODE	DESCRIPTION	FOR OPTION CODES		
Α	6V AC*	LP		
В	12V AC*	LP		
С	24V AC	LP, LPH		
J	48V AC*	LP, LPH		
I	110V AC*	LP		
U	115V AC	LP, LPR		
V	230V AC	LP, LPR		
ZB	12V DC*	LP, LPW, LPG		
ZC	24V DC	LP, LPW, LPG, LPH		
ZJ	48V DC*	LP, LPW, LPG, LPH		
ZD	110V DC	LP, LPW, LPG		
ZE	220V DC*	LP, LPW, LPG		

LIST

\$ 2.60

	COMPATIBLE SOCKETS			
RELAY TYPE	COMPATIBLE SOCKETS			
200-GP2C06**	200-SB08060 with Screw Clamp Terminals (Guarded) or			
200-GP2X06**	200-SB0806B* with Box Terminals			
200-GP2C10**	000 0D00100 ::L 0			
200-GP2X10**	200-SB08100 with Screw Clamp Terminals (Guarded) or 200-SB0810B* with Box Terminals			
200-GP2XY10**	200-SB0810B" With Box Terminals			
NOTE: ** Represents the Options and Coil Voltage codes. Refer to charts IV & V				
above. See page 14 &15 for socket information.				

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Maximum Switching Current A S J0 J0 Maximum Switching Current A S0 S0 S0 S0					GUAR	E BASE 2 POLE I	RELAYS		
Maximum Pack Inrush Current A 6 10 10 10		UNITS	200-GP2C06** / 200	-GP2X06**	200-G	P2C10** / 200-GP2X10	** 200-	GP2XY10**	
Maximum Peak Inrush Current A 30 30 30 30	CONTACTS								
Maximum Peak Invash Current A 30 30 30 30	Maximum Switching Current	Α	6		10			10	
Maximum Switching Voltage V	Maximum Peak Inrush Current	А	30			30			
Maximum AC Load		V	250			250		250	
Mountive Load	Maximum AC Load	kVA							
Inductive Load	Posistiva Load	DE _ 1 0	250 VAC - 7	A		250 VAC - 10A	250	VAC - 10A	
Minimum Recommended Load PF = U	nesistive Load	F1 = 1.0							
Minimum Recommended Load 10 VDC - 10mA 10 VDC - 10 VDC	Inductive Load	PF = 0.4							
Discretic Strength (1 minute) Discretic Strength (1 minute	Motor Load					240 VAC - 1/4 HP	240 \	/AC -1/4 HP	
Dielectric Strength (1 minute) 2	Minimum Recommended Load		10 VDC - 10n	nA		10 VDC - 10mA	10 V	DC - 10mA	
Dopen Contacts N.W 3 2.5 2.5 2.5									
Setween Contacts and Coil KV 5 2.5 3.6 3.36	-	1.1/	2			2.5		2.5	
Insulation Resistance @ 50 VDC D S36 S36									
VOLTAGE Coil Resistance									
Coll Resistance		52	>30		000 (PAR	>30	
Voltage Vol	COIL9 (UNMS ± 10% @ 20°C)		Coil Desistance	n				Mavim	
1.1 VA 290 290 290 200 220 230 2			(+/- 10% OHMS)		•			Allowed Voltage	
1.1 VA S85% of Nominal Voltage 20% of Nominal Voltage 21% of N	12V AC		80						
1,200	24V AC		290						
115V AC 230V AC 28,800 28,800 224 24V DC 224 24V DC 3,500 20.7 W 275% of Nominal Voltage Vo	48V AC		1,200	1.1 V	Δ				
230V AC 28,800 224 24 24 24 24 24 24	115V AC		7.300						
224 24V DC 742 3,500 110W DC 19,900 200-GP2C10** / 200-GP2K10** / 200-GP2KY10** 110W of Rated Voltage Volta	230V AC		,						
24V DC 3,500 200-6P2C10** / 200-6P2X10** / 2			,						
## Voltage Voltage Voltage Voltage Voltage Voltage Voltage Voltage Voltage ## Voltage Voltage Voltage Voltage Voltage ## Voltage Voltage Voltage Voltage ## Voltage Voltage Voltage Voltage ## Voltage Voltage Voltage									
100 / DC				0.7 W	/				
Coil Coil Resistance Cut							3 .		
Coil Resistance			13,300	200	CD2C10**	 	. CD9VV10**		
12 12 12 13 14 15 15 15 15 15 15 15	VOLTAGE			Powe	r	Pick-Up	Drop-Out		
1.2 VAC 190 1.2 VA ≤85% of Nominal 2 30% of Nominal 110% of Rated Voltage Volta	ev AC			Consump	ition	voltage	Voltage	Allowed Voltage	
24V AC 190 1.2 VA ≤85% of Nominal Voltage V									
ABV AC 785 1.2 VA Voltage						/OE0/ of No	> 200/ of No		
110 / 115 V AC 3,880 230 V AC 17,400 160 24V DC 640 48V DC 13,600 220V DC 13,600 220V DC 54,000 220V DC 54,000 200V DC 100 V DC 200V DC 20				1.2 V	4				
17,400 12V DC 160 24V DC 640 48V DC 13,600 13,600 220V DC 54,000 1.0 W ≤75% of Nominal Voltage Voltage Voltage 110% of Rated Voltage						voitage	voitage	voitage	
12V DC 24V DC 48V DC 48V DC 110V DC 220V DC 54,000 ENVIRONMENTAL Operate Time + Bounce Time Release Time + Bounce Time Release Time + Bounce Time Rechanical Life Operations Electrical Life ® Nominal Load Operating Frequency ® Nominal Load Operating Frequency ® Nominal Load Protection 160 1.0 W ≤75% of Nominal Voltage 110% of Rated Voltage 110% of Nominal Voltage 110% of Rated Voltage 110% of Nominal Load Obout 100% of Nominal Load Obout 100% of Nominal Load Obout 100% of Nominal Load Obout									
24V DC 640 48V DC 1.0 W ≤75% of Nominal Voltage ≤10% of Nominal Voltage 110% of Rated Voltage 110V DC 13,600 54,000 54,000 10 16									
1.0 W 2,600 1.0 W Voltage									
110V DC				1.0 W	/				
Style="background-color: lighter;"> Style="background-color: light					-	Voltage	Voltage		
Departe Time + Bounce Time ms 10 10 16									
Operate Time + Bounce Time ms 10 10 16 Release Time + Bounce Time ms 8 8 8 Ambient Temperature -40°C to +70°C (-40°F to +158°F) -40°C to +70°C (-40°F to +158°F) -40°C to +70°C (-40°F to +158°F) Mechanical Life Operations 10 Million AC, 20 Million DC Relays 10 Million AC, 20 Million DC Relays 10 Million AC, 20 Million DC Relays Electrical Life @ Nominal Load ops >100,000 >100,000 >100,000 Operating Frequency @ Nominal Load 1,200/hour 1,200/hour 1,200/hour 1,200/hour Protection IP40 / RT1 IP40 / RT1 IP40 / RT1 IP40 / RT1 Weight gms 21 43 43			J T ,000	<u> </u>		<u>l</u>			
Release Time + Bounce Time ms 8 8 8 Ambient Temperature -40°C to +70°C (-40°F to +158°F) -40°C to +70°C (-40°F to +158°F) -40°C to +70°C (-40°F to +158°F) Mechanical Life Operations 10 Million AC, 20 Million DC Relays 10 Million AC, 20 Million DC Relays 10 Million AC, 20 Million DC Relays Electrical Life @ Nominal Load ops >100,000 >100,000 Operating Frequency @ Nominal Load 1,200/hour 1,200/hour 1,200/hour Load IP40 / RT1 IP40 / RT1 IP40 / RT1 IP40 / RT1 Weight gms 21 43 43		ms	10			10		16	
Ambient Temperature -40°C to +70°C (-40°F to +158°F) -40°C to +158°F) -40°C to +70°C (-40°F to +158°F) -40°C to +158°F) -40°C to +70°C (-40°F to +158°F) -40°C to +70°C (-40°F to +158°F) -40°C to +70°C (-4									
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Operating Frequency @ Nominal Load 1,200/hour 1,200/hour 1,200/hour Protection IP40 / RT1 IP40 / RT1 IP40 / RT1 Weight gms 21 43 43		ons	·				- 		
Load IP40 / RT1 IP40 / RT1 IP40 / RT1 IP40 / RT1 Weight gms 21 43 43	Operating Frequency @ Nominal		•						
Weight gms 21 43 43			-						
		gme							
	ROHS COMPLIANCE	yms					refer to allocatual		



SQUARE BASE 4 POLE RELAYS WITH BLADE TERMINALS

- 4PDT relays with a 6-amp rating offer flexibility for control circuit applications.
- Coil voltages printed on top of relays for easy identification, ensuring the right choice for your application.
- Our color-coded push buttons simplify operation by clearly distinguishing between DC (blue) and AC (red) controls.
- Comprehensive selection of coil voltages, ranging from 6V to 230V AC and 12V to 220V DC.
- Low coil consumption to minimize transformer and power supply requirements.
- Transparent housing designed for visual observation of switching mechanisms and contact points, allowing for real-time assessment of operational and wear status.

- Small size requiring minimum panel space for lower installed cost.
- Schematic diagram and terminal markings on the relay for easy reference during installation.
- Optional manual and lockable push button and LED indicator for checking the control circuit operation without energizing the relay and to easily determine the relay status.
- 100% tested to ensure performance to specification.
- UL, CSA and CE for acceptance in global applications.
- AgNi contacts, environmentally friendly cadmium-free.

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.

Square Base 4 Pole Relay with Blade Terminals

200-GP 4C 06

II III IV V

Example: To build one of our most popular Relays, the part number would be 200-GP + 4C + 06 + IV + V or 200-GP4C06LPC

I. RELAY TYPE			
CODE	DESCRIPTION		
200-GP	General Purpose Relay		

II. POLES / CONTACT TYPE				
CODE	DESCRIPTION	LIST		
CODE 4C	4PDT (4 C/O)	\$11.20		

III. CURRENT RATING			
CODE	DESCRIPTION		
06	6 Amps		
06	6 Amps		

	IV. OPTIONS	
CODE	DESCRIPTION	LIST
(Blank)	No Options	
LP	LED Indicator, Manual and Lockable Push Button	\$ 2.00
LPW	LED Indicator, Manual and Lockable Push Button with Free Wheeling Diode*	\$10.00
LPG	LED Indicator, Manual and Lockable Push Button with Free Wheeling Diode and Polarity Diode*	\$12.00
LPR	LED Indicator, Manual and Lockable Push Button with RC Circuit*	\$16.00
LPH	LED Indicator, Manual and Lockable Push Button with Bridge Rectifier*	\$12.00

*NOTE: Products marked with * are not available for same-day shipping. Please contact our Customer First Team of for lead times and minimum order quantities.



	V. COIL VOLTAGE					
CODE	DESCRIPTION	FOR OPTION CODES				
Α	6V AC*	LP				
В	12V AC*	LP				
С	24V AC	LP, LPH				
J	48V AC*	LP, LPH				
l	110V AC*	LP				
U	115V AC	LP, LPR				
V	230V AC	LP, LPR				
ZB	12V DC*	LP, LPW, LPG				
ZC	24V DC	LP, LPW, LPG, LPH				
ZJ	48V DC*	LP, LPW, LPG, LPH				
ZD	110V DC	LP, LPW, LPG				
ZE	220V DC*	LP, LPW, LPG				

COMPATIBLE SOCKETS				
RELAY TYPE	COMPATIBLE SOCKETS			
200-GP4C06**	200-SB14060 with Screw Clamp Terminals (Guarded) or 200-SB1406B* with Box Terminals			
NOTE ** Programme the Outline and Call Value and a Defente about IV 9 Values				

NOTE: ** Represents the Options and Coil Voltage codes. Refer to charts IV & V above. See page 15 for socket information.

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			SQUAF	RE BASE 4 POLE R	RELAYS	
	UNITS			200-GP4C06**		
CONTACTS						
Maximum Switching Current	Α			6		
Maximum Peak Inrush Current (20ms)	А			15		
Maximum Switching Voltage	V			250		
Maximum AC Load	kVA			2.5		
Resistive Load	PF = 1.0			250 VAC - 6A 30 VDC - 6A		
Inductive Load	PF = 0.4			120 VAC - 3A 28 VDC - 3A		
Minimum Recommended Load				10 VDC - 10mA		
INSULATION						
Dielectric Strength (1 minute)						
Between Adjacent Poles	kV			2.5		
Between Contacts and Coil	kV			2.5		
Insulation Resistance @ 500 VDC	Ω			3G		
COILS (Ohms ±10% @ 20°C)				T		
VOLTAGE		Coil Resistance (+/– 10% OHMS)	Power Consumption	Pick-Up Voltage	Drop-Out Voltage	Maximum Allowed Voltage
6V AC		3.15				
12V AC		13.3			≥ 30% of Nominal Voltage	110% of Rated Voltage
24V AC		52	1.2 VA	≤85% of Nominal		
48V AC		240	1.2 VA	Voltage		
110 / 115V AC		1,120				
230V AC		5,600				
12V DC		115				
24V DC		480		750/ (1)	≥ 10% of Nominal Voltage	4400/ CD
48V DC		1,850	1.0 W	≤75% of Nominal Voltage		110% of Rated Voltage
110V DC		9,000				
220V DC		29,000				
ENVIRONMENTAL						
Operate Time + Bounce Time	ms			10		
Release Time + Bounce Time	ms			6		
Ambient Temperature			-40	0°C to +70°C (-40°F to +1	58°F)	
Mechanical Life Operations		10 Million AC, 20 Million DC Relays				
Electrical Life @ Nominal Load	ops	>100,000				
Operating Frequency @ Nominal Load		1,200/hour				
Protection		IP40				
Weight	gms	80				
ROHS COMPLIANCE		For RoHS compliance documentation by product, refer to c3controls.com				



OCTAL BASE 2 POLE RELAYS WITH PIN TERMINALS

- DPDT and DPST relays for control circuit application flexibility.
- Pin terminals allow for universal socket fit and are interchangeable with other commonly available octal base relays.
- Coil voltages printed on top of relays for easy identification, ensuring the right choice for your application.
- Our color-coded push buttons simplify operation by clearly distinguishing between DC (blue) and AC (red) controls.
- Comprehensive selection of coil voltages, ranging from 12V to 230V AC and 6V to 220V DC.
- Low coil consumption to minimize transformer and power supply requirements.
- Transparent housing designed for visual observation of switching mechanisms and contact points, allowing for real-time assessment of operational and wear status.
- Small size requiring minimum panel space for lower installed cost.
- Schematic diagram and terminal markings on the relay for easy reference during installation.
- Optional manual and lockable push button and LED indicator for checking the control circuit operation without energizing the relay and to easily determine the relay status.
- 100% tested to ensure performance to specification.
- UL, CSA and CE for acceptance in global applications.
- AgNi contacts, environmentally friendly cadmium-free.

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.

Octal Base 2 Pole Relays with Pin Terminals

210-GF

10

N/

V

Example: To build one of our most popular Relays, the part number would be 210-GP + II + 10 + IV + V or 210-GP2C10LPC

	I. RELAY TYPE
CODE	DESCRIPTION
210-GP	General Purpose Relay

II. POLES / CONTACT TYPE				
CODE	DESCRIPTION	LIST		
2X	DPST (2 N.O.)*	\$24.00		
2C	DPDT (2 C/O)	\$14.00		
2XY	DPST (1 N.O. + 1 N.C.)*	\$20.00		
2XD	SPST (1 N.O., Double Break)*	\$20.00		

YPE	III. CURRENT RATING	
LIST	CODE	DESCRIPTION
\$24.00	10	10 Amps
\$14.00		

	IV. OPTIONS					
CODE	DESCRIPTION	LIST				
(Blank)	No Options					
LP	LED Indicator, Manual and Lockable Push Button	\$ 2.00				
LPG	LED Indicator, Manual and Lockable Push Button with Free Wheeling Diode and Polarity Diode*	\$12.00				
LPR	LED Indicator, Manual and Lockable Push Button with RC Circuit*	\$16.00				
LPH	LED Indicator, Manual and Lockable Push Button with Bridge Rectifier*	\$12.00				

CODE	DESCRIPTION	FOR OPTION CODES
В	12V AC*	LP
С	24V AC	LP, LPH
J	48V AC*	LP, LPH
I	110V AC	LP
V	230V AC	LP, LPR
ZB	12V DC*	LP, LPG
ZC	24V DC	LP, LPG, LPH
ZJ	48V DC*	LP, LPG, LPH
ZD	110V DC	LP, LPG
ZE	220V DC*	LP, LPG

V. COIL VOLTAGE

*NOTE: Products marked with * are not available for same-day shipping. Please contact our Customer First Team for lead times and minimum order quantities.



COMPATIBLE SOCKETS						
RELAY TYPE	COMPATIBLE SOCKETS					
210-GP2C10**						
210-GP2X10**	010 0D0010D 'H D T '					
210-GP2XY10**	210-SP0810B with Box Terminals					
210-GP2XD10**						
NOTE: ** Represents the Options and Coil Voltage codes. Refer to charts IV & V						
above. See page 16 for socket information.						



			OC	TAL BASE 2 POLE	RELAYS		
	UNITS	210-GP2	2C10**	210-GP2X10**		210-GP2X	Y10**/ 210-GP2XD10**
CONTACTS							
Maximum Switching Current	Α			10			
Maximum Peak Inrush Current	Α			30			
(20ms)							
Maximum Switching Voltage Maximum AC Load	V kVA			250 2.5			
				250 VAC - 10A			
Resistive Load	PF = 1.0			30 VDC - 10A			
Inductive Load	PF = 0.4			240 VDC - 6A			
Motor Load				240 VAC - 1/4 HP 240 VDC - 1/10 HP			
Minimum Recommended Load				10 VDC - 10mA			
INSULATION							
Dielectric Strength (1 minute)							
Between Adjacent Poles	kV		1.5			2	
Between Contacts and Coil	kV Ω		2	00014	2	2.5	
Insulation Resistance @ 500 VDC			200M				
COILS (Ohms ±10% @ 20°C)		0.115					
VOLTAGE		Coil Resistance (+/– 10% OHMS)	Power Consumption	Pick-Up Voltage		op-Out oltage	Maximum Allowed Voltage
12V AC		13.3					
24V AC		52				≥ 30% of Nominal Voltage	110% of Rated Voltage
48V AC		240	2.5 VA	≤85% of Nominal Voltage	I		
110V AC		1,120			Vo		
230V AC		5,600					
12V DC		115					
24V DC		480				≥ 10% of Nominal Voltage	110% of Rated Voltage
48V DC		1,850	0.7 W	≤75% of Nominal Voltage	≥ 10%		
		·	U.7 VV		Vo		
110V DC		9,000					
220V DC		29,000					
ENVIRONMENTAL							
Operate Time + Bounce Time	ms	8+3/3.5+8		20+3			
Release Time + Bounce Time	ms	9+8/12+16		20+8			
Ambient Temperature				-40°C to +70°C (-40°F to	+158°F)		
Mechanical Life Operations		10 Million AC, 20 Million DC Relays					
Electrical Life @ Nominal Load	ops	>100,000					
Operating Frequency @ Nominal		· ·					
Load		1,200/hour					
Protection		IP40					
Weight	gms	80					
ROHS COMPLIANCE		For RoHS compliance documentation by product, refer to c3controls.com					



OCTAL BASE 3 POLE RELAYS WITH PIN TERMINALS

- 3PDT and 3PST relays for control circuit application flexibility.
- Pin terminals allow for universal socket fit and are interchangeable with other commonly available octal base relays.
- Coil voltages printed on top of relays for easy identification, ensuring the right choice for your application.
- Our color-coded push buttons simplify operation by clearly distinguishing between DC (blue) and AC (red) controls.
- Comprehensive selection of coil voltages, ranging from 12V to 230V AC and 6V to 220V DC.
- Low coil consumption to minimize transformer and power supply requirements.
- Transparent housing designed for visual observation of switching mechanisms and contact points, allowing for real-time assessment of operational and wear status.
- Small size requiring minimum panel space for lower installed cost.
- Schematic diagram and terminal markings on the relay for easy reference during installation.
- Optional manual and lockable push button and LED indicator for checking the control circuit operation without energizing the relay and to easily determine the relay status.
- 100% tested to ensure performance to specification.
- UL, CSA and CE for acceptance in global applications.
- AgNi contacts, environmentally friendly cadmium-free.

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.

Octal Base 3 Pole Relays with Pin Terminals

Example: To build one of our most popular Relays, the part number would be 210-GP + II + 10 + IV + V or 210-GP3C10C

	I. RELAY TYPE
CODE	DESCRIPTION
210-GP	General Purpose Relay

II. POLES / CONTACT TYPE				
CODE	DESCRIPTION	LIST		
3X	3PST (3 N.O.)*	\$25.00		
3C	3PDT (3 C/O)	\$15.60		

III. CURRENT RATING				
CODE	DESCRIPTION			
10	10 Amps			

	IV. OPTIONS					
CODE	DESCRIPTION	LIST				
(Blank)	No Options					
LP	LED Indicator, Manual and Lockable Push Button	\$ 2.00				
LPW	LED Indicator, Manual and Lockable Push Button with Free Wheeling Diode*	\$10.00				
LPG	LED Indicator, Manual and Lockable Push Button with Free Wheeling Diode and Polarity Diode*	\$12.00				
LPR	LED Indicator, Manual and Lockable Push Button with RC Circuit*	\$16.00				
LPH	LED Indicator, Manual and Lockable Push Button with Bridge Rectifier*	\$12.00				

CODE	DESCRIPTION	FOR OPTION CODES
В	12V AC*	LP
С	24V AC	LP, LPH
J	48V AC*	LP, LPH
l	110V AC	LP
V	230V AC	LP, LPR
ZB	12V DC*	LP, LPW, LPG
ZC	24V DC	LP, LPW, LPG, LPH
ZJ	48V DC*	LP, LPW, LPG, LPH
ZD	110V DC	LP, LPW, LPG
ZE	220V DC*	LP, LPW, LPG

V. COIL VOLTAGE

*NOTE: Products marked with * are not available for same-day shipping. Please contact our Customer First Team for lead times and minimum order quantities.



	COMPATIBLE SOCKETS			
RELAY TYPE	COMPATIBLE SOCKETS			
210-GP3C10**	210-SP1110B with Box Terminals			
210-GP3X10**	210 Of 1110D With Box Terminals			
NOTE: ** Represents the Options and Coil Voltage codes. Refer to charts IV & V above. See page 16 for socket information.				



			OCTAL	BASE 3 POLES R	ELAYS	
	UNITS		2'	10-GP3C10**/	0**	
CONTACTS						
Maximum Switching Current	Α			10		
Maximum Peak Inrush Current	Α			30		
(20ms)	V					
Maximum Switching Voltage Maximum AC Load	kVA			250 2.5		
				250 VAC - 10A		
Resistive Load	PF = 1.0			30 VDC - 10A		
	DE 0.4			240 VAC - 7A		
Inductive Load	PF = 0.4			120 VAC - 10A 28 VDC - 8A		
				240 VAC - 1/3 HP		
Motor Load				120 VAC - 1/4 HP		
Minimum Recommended Load				10 VDC - 10mA		
INSULATION						
Dielectric Strength (1 minute)						
Between Adjacent Poles	kV			2		
Between Contacts and Coil	kV			2.5		
Insulation Resistance @ 500 VDC	Ω	200M				
COILS (Ohms ±10% @ 20°C)				_	,	
VOLTAGE		Coil Resistance (+/– 10% OHMS)	Power Consumption	Pick-Up Voltage	Drop-Out Voltage	Maximum Allowed Voltage
12V AC		13.3				
24V AC		52		≤85% of Nominal voltage	≥ 30% of Nominal voltage	110% of Rated Voltage
48V AC		240	2.5 VA			
110 / 115V AC		1,120				
230V AC		5,600				
12V DC		115				
24V DC		480				
			0.714/	≤75% of Nominal Voltage	≥ 10% of Nominal Voltage	110% of Rated
48V DC		1,850	0.7 W			Voltage
110V DC		9,000				
220V DC		29,000				
ENVIRONMENTAL						
Operate Time + Bounce Time	ms	8+3/3.5+8				
Release Time + Bounce Time	ms	9+8/12+16				
Ambient Temperature		-40°C to +70°C (-40°F to +158°F)				
Mechanical Life Operations		10 Million AC, 20 Million DC Relays				
Electrical Life @ Nominal Load	ops	>100,000				
Operating Frequency @ Nominal	- opo					
Load		1,200/hour				
Protection		IP40				
	ama	80				
Weight	gms			OU		

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.
- UL, CSA 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.







5 BLADE SOCKETS FOR SQUARE BASE 1 POLE RELAYS, 10A

CODE	DESCRIPTION	LIST
200-SB05100	5 Blade 10 Amp Screw Clamp Terminals (Guarded)	\$ 6.00
200-SB0510B	5 Blade 10 Amp Box Terminal*	\$ 6.00

*NOTE: Not available for same-day shipping. Please contact our Customer First Team for lead times and minimum order quantities.

SPECIFICATIONS:	
Nominal Load:	10A /250 V
Insulation:	Di-electric strength, 1 minute
Between Contact and Coil:	5 kV
Between All Terminals and DIN Rail:	5 kV
Between Adjacent Terminals:	3 kV
Brass Tin Plated Screw:	
Maximum Screw Torque:	1.2 Nm
Screw Dimensions:	M3, Pozi
Wire In Lets Capacity:	
Solid Wire:	4mm² or 2x2.25mm²
Multi Core:	22-14 AWG
Ferrule Tip Terminals:	4mm²
Weight Approximately:	28 gms
DOUG COMPUTATION N	

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

FOR USE WITH:

RELAY: 200-GP1C10** & 200-GP1X10**

NOTE: **Represents the Options and Coil Voltage Codes. Refer to page 4 for codes.

8	# = ∤	LAL)E	: To	[0][13	1-1	•] :	10	11	/₄	1:4	1=	:	4 L	:1=	12	ı:	4=	•	∤ ≢	14	12	44	70

CODE	DESCRIPTION	LIST
200-SB08060	8 Blade 6 Amp Screw Clamp Terminals (Guarded)	\$ 6.00
200-SB0806B	8 Blade 6 Amp Box Terminal*	\$ 6.00

*NOTE: Not available for same-day shipping. Please contact our Customer First Team for lead times and minimum order quantities

SPECIFICATIONS:	
Nominal Load:	6A @ 250 V
Insulation:	Di-electric strength, 1 minute
Between Contact and Coil:	5 kV
Between All Terminals and DIN Rail:	5 kV
Between Adjacent Terminals:	3 kV
Brass Tin Plated Screw:	
Maximum Screw Torque:	1.2 Nm
Screw Dimensions:	M3, Pozi
Wire In Lets Capacity:	
Solid Wire:	4mm² or 2x2.25mm²
Multi Core:	22-14 AWG
Ferrule Tip Terminals:	4mm²
Weight Approximately:	38 gms
DOLLO COMPLIANICE, For do sum antest	ion bu needust refer

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

FOR USE WITH:

RELAY: 200-GP2C06** & 200-GP2X06**

NOTE: **Represents the Options and Coil Voltage Codes. Refer to page 6 for



8 & 14 BLADE OPEN & BOX TYPE SOCKETS







CODE	DESCRIPTION	LIST
200-SB08100	8 Blade 10 Amp Screw Clamp Terminals (Guarded)	\$ 6.00
200-SB0810B	8 Blade 10 Amp Box Terminal*	\$ 6.00

8 BLADE SOCKETS FOR SQUARE BASE 2 POLE RELAYS, 10A

*NOTE: Not available for same-day shipping. Please contact our Customer First Team for lead times and minimum order quantities

Customer rinst ream for lead times and	illillillidili order qualitities
SPECIFICATIONS:	
Nominal Load:	12A @ 250 V
Insulation:	Di-electric strength, 1 minute
Between Contact and Coil:	2.5 kV
Between All Terminals and DIN Rail:	2.5 kV
Between Adjacent Terminals:	2.5 kV
Brass Tin Plated Screw:	
Maximum Screw Torque:	1.2 Nm
Screw Dimensions:	M3, Pozi
Wire In Lets Capacity:	
Solid Wire:	4mm² or 2x2.25mm²
Multi Core:	22-14 AWG
Ferrule Tip Terminals:	4mm²
Weight Approximately:	61 gms

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

FOR USE WITH:

RELAY: 200-GP2X10**, 200-GP2C10** & 200-GP2XY10**

NOTE: **Represents the Options and Coil Voltage Codes. Refer to page 6 for codes.

14 BLADE SOCKETS FOR SQUARE BASE 4 POLE RELAYS, 6A
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CODE	DESCRIPTION	LIST
200-SB14060	14 Blade 6 Amp Screw Clamp Terminals (Guarded)	\$ 9.00
200-SB1406B	14 Blade 6 Amp Box Terminal*	\$ 9.00

*NOTE: Not available for same-day shipping. Please contact our Customer First Team for lead times and minimum order quantities

customer riist ream for lead times and	i illillillidili order qualitities
SPECIFICATIONS:	
Nominal Load:	7A @ 250 V
Insulation:	Di-electric strength, 1 minute
Between Contact and Coil:	2.5 kV
Between All Terminals and DIN Rail:	2.5 kV
Between Adjacent Terminals:	2.5 kV
Brass Tin Plated Screw:	
Maximum Screw Torque:	1.2 Nm
Screw Dimensions:	M3, Pozi
Wire In Lets Capacity:	
Solid Wire:	4mm² or 2x2.25mm²
Multi Core:	22-14 AWG
Ferrule Tip Terminals:	4mm²
Weight Approximately:	54 gms

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

FOR USE WITH:

RELAY: 200-GP4C06**

NOTE: **Represents the Options and Coil Voltage Codes. Refer to page 8 for codes



8 & 11 PIN BOX TYPE SOCKETS





 $4mm^2$

47 gms



8 PIN SOCKET FOR OCTAL BASE 2 POLE RELAYS, 10A DESCRIPTION CODE LIST 210-SP0810B 8 Pin 10 Amp Box Terminal \$ 6.00 **SPECIFICATIONS:** Nominal Load: 10A @ 250 V Insulation: Di-electric strength, 1 minute Between Contact and Coil: 2.5 kV Between All Terminals and DIN Rail: 2.5 kV Between Adjacent Terminals: 2.5 kV **Brass Tin Plated Screw:** Maximum Screw Torque: 0.5 Nm Screw Dimensions: M3, Pozi Wire In Lets Capacity: Solid Wire: 4mm² or 2x2.25mm² Multi Core: 22-14 AWG

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

FOR USE WITH:

Ferrule Tip Terminals:

Weight Approximately:

RELAY: 210-GP2X10**, 210-GP2C10**, 210-GP2XY10** & 210-GP2XD10**

NOTE: **Represents the Options and Coil Voltage Codes. Refer to page 10 for codes.

11 PIN SO	CKET FOR OCTAL BA	ASE 3 POLE RELAYS, 10A				
CODE	DESCRIPTION	LIST				
210-SP1110B	11 Pin 10 Amp Box Te	erminal \$6.00				
SPECIFICATIONS	3:					
Nominal Load:		10A @ 250 V				
Insulation:		Di-electric strength, 1 minute				
Between Cont	act and Coil:	2.5 kV				
Between All Te	erminals and DIN Rail:	2.5 kV				
Between Adja	cent Terminals:	2.5 kV				
Brass Tin Plate	d Screw:					
Maximum Sci	rew Torque:	0.5 Nm				
Screw Dimen	sions:	M3, Pozi				
Wire In Lets Ca	pacity:					
Solid Wire:		4mm ² or 2x2.25mm ²				
Multi Core:		22-14 AWG				
Ferrule Tip Te	rminals:	4mm ²				
Weight Approx	imately:	47 gms				

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

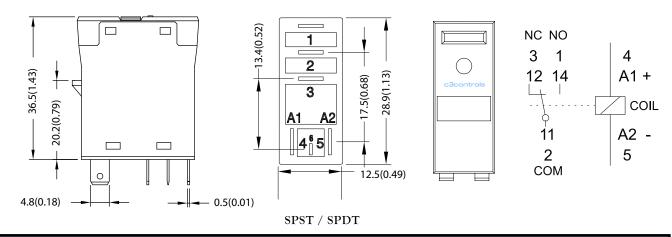
FOR USE WITH:

RELAY: 210-GP3X10** & 210-GP3C10**

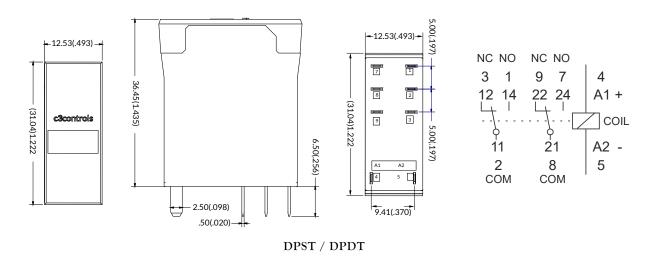
NOTE: **Represents the Options and Coil Voltage Codes. Refer to page 12 for codes.



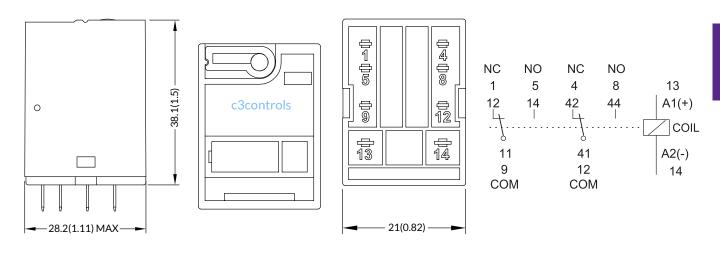
SQUARE BASE W/BLADE TERMINALS - 1 POLE (200-GP1C10** & 200-GP1X10**)



SQUARE BASE W/BLADE TERMINALS - 2 POLES (200-GP2C06** & 200-GP2X06**)

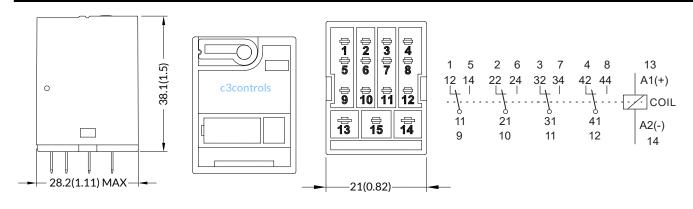


SQUARE BASE W/BLADE IERIVIINALS - 2 PULES (200-GP2C10**, 200-GP2X10** & 200-GP2XY10**,



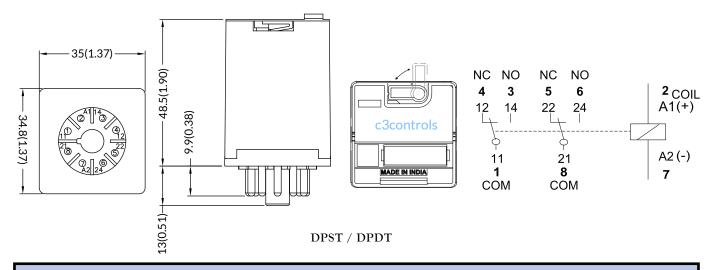
DPST / DPDT

SQUARE BASE W/BLADE TERMINALS - 4 POLES (200-GP4C06**)

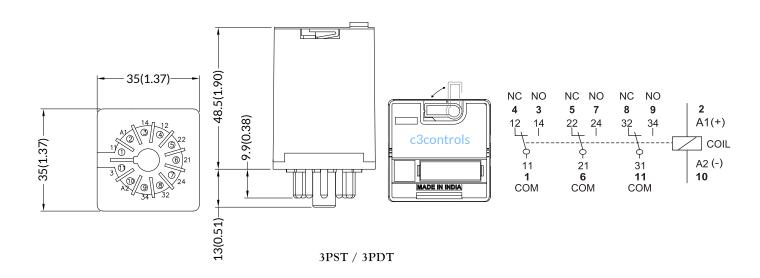


4PDT

OCTAL BASE W/PIN TERMINALS - 2 POLES (210GP2C10**, 210GP2X10**, 210GP2XY10** & 210GP2XD10**

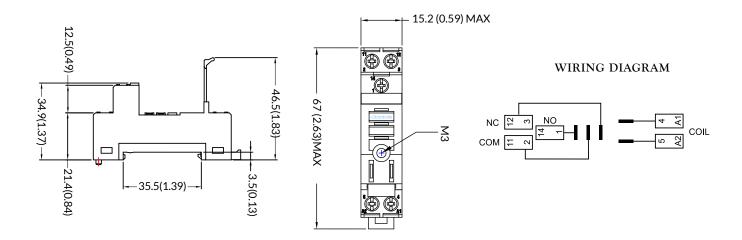


OCTAL BASE W/PIN TERMINALS - 3 POLES (210-GP3C10** & 210-GP3X10**)

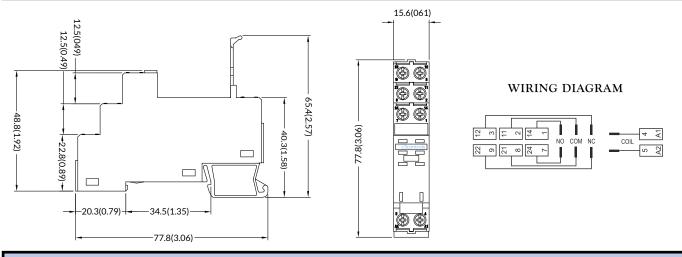


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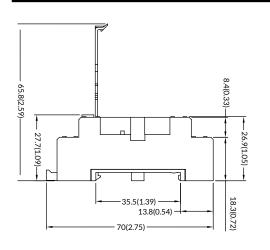
5 BLADE SOCKETS FOR SQUARE BASE RELAYS, 10A (200-SB05100 & 200-SB0510B)

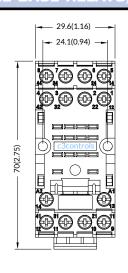


8 BLADE SOCKETS FOR SQUARE BASE RELAYS, 6A (200-SB08060 & 200-SB0806B)



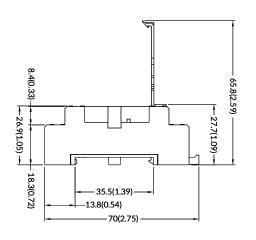
8 BLADE SOCKETS FOR SQUARE BASE RELAYS. 10A (200-SB08100 & 200-SB0810B)

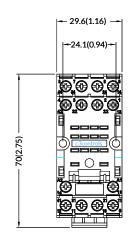


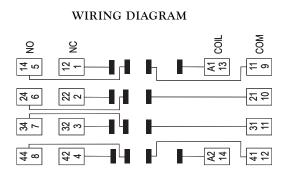


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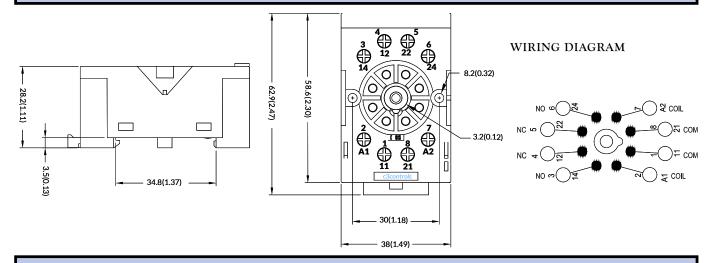
14 BLADE SOCKETS FOR SQUARE BASE RELAYS. 6A (200-5B14060 & 200-5B1406B)



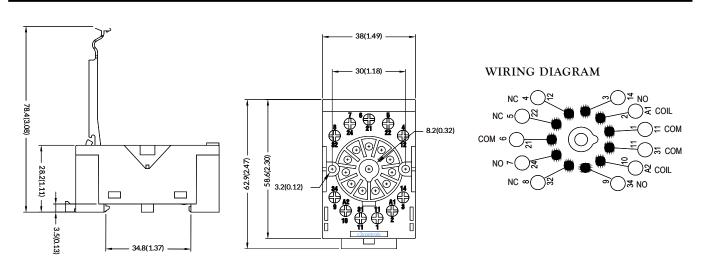




8 PIN SOCKET FOR OCTAL BASE RELAYS, 10A (210-SP0810B)



11 PIN SOCKET FOR OCTAL BASE RELAYS, 10A (210-SP1110B)



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