

# Greenwich Electronics, Inc.

## GP4 Series

- Universal octal package
- Two and three pole
- Rugged construction
- Applications: timers, heaters, water treatment controls



### COIL DATA

Nominal Voltage (DC)	Nominal Coil Current (mA)		Coil Resistance ( $\Omega$ )	
	( $\pm 10\%$ at $20^{\circ}\text{C}$ )		( $\pm 10\%$ at $20^{\circ}\text{C}$ )	
	Type 1	Type 2	Type 1	Type 2
6	150	250	40	24
12	80	126	150	95
24	42	56	570	430
48	22*	29*	2230*	1650*
60	19*	----	3200*	----

Nominal Voltage (AC)	Nominal Coil Current (mA)		Coil Resistance ( $\Omega$ )	
	( $\pm 10\%$ at $20^{\circ}\text{C}$ )		( $\pm 10\%$ at $20^{\circ}\text{C}$ )	
	Type 1	Type 2	Type 1	Type 2
6	1091	1364	6	4.4
12	500	600	24	20
24	258	291	93	80
110	49*	59*	1600*	1860*
220	25*	30*	7400*	7400*

\* indicates  $\pm 15\%$

Pick-up Voltage	$\leq 80\%$ nominal
Drop-out Voltage	<b>DC:</b> $\geq 10\%$ nominal, <b>AC:</b> $\geq 30\%$ nominal
Max. Coil Voltage	120% nominal
Coil Consumption	<b>DC:</b> Type 1 - 1.2W, Type 2 - 1.5W, <b>AC:</b> 2.5VA

### Contact

Configuration	<b>2C:</b> 2 form C (DPDT), <b>3C:</b> 3 form C (3PDT)
Material	AgCdO
Rated Load	10A@28VDC/220VAC
Max. Carry Current	10A
Max. Switching Voltage	120VDC 300VAC

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Max. Switching Current 10A  
Max. Switching Power 280W, 2500VA

## CHARACTERISTICS

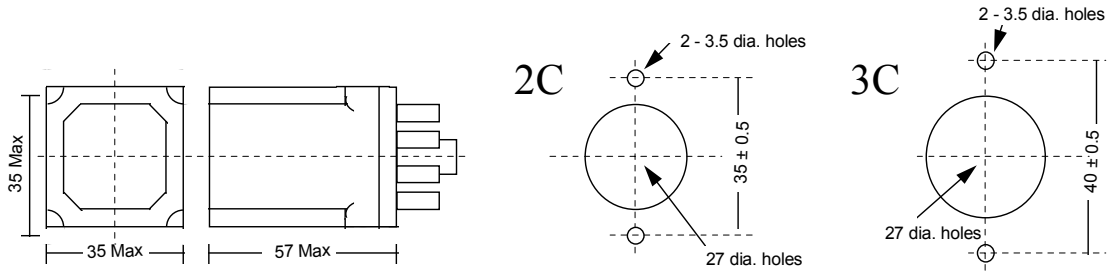
Contact Resistance Max. 100mΩ  
Operate Time ≤20ms  
Release Time ≤20ms  
Insulation Resistance ≥100MΩ (@500VDC)  
Dielectric Strength:  
• Between coil and contacts 1500VAC - 50Hz / one minute  
• Between open contacts 1000VAC - 50Hz / one minute  
Vibration Resistance 10-50Hz, 0.35mm, double amplitude  
Shock Resistance 15g Approx.  
Ambient Temperature  
• Operate -40°C to 55°C  
• Storage -40°C to 110°C  
Relative Humidity 90% - 95%@40°C  
Life Expectancy:  
• Mechanical  $1 \times 10^7$   
• Electrical  $1 \times 10^5$  (at rated load)  
Weight Approx. 125 grams

## ORDERING INFORMATION

	<u>GP4</u>	-	<u>024A</u>	-	<u>2C</u>	<u>2</u>
	I		II		III	IV
I.	Series				<b>GP4</b>	
II.	Coil Voltage				DC: <b>006, 012, 024, 048, 060</b>	
					AC: <b>006, 012, 024, 110, 220</b>	
					<b>D - DC, A - AC</b>	
III.	Contact Configuration				<b>2C - 2 form C (DPDT), 3C - 3 form C (3PDT)</b>	
IV.	Coil Connection				<b>1:</b> DPDT: coil ties pins 1 & 8 3PDT: coil ties pins 1 & 11	
					<b>2:</b> DPDT: coil ties pins 2 & 7 3PDT: coil ties pins 2 & 10	

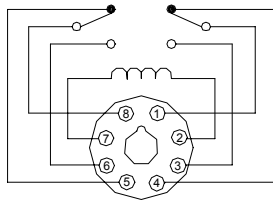
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## GP4 Series Dimensions and Schematics (in mm)

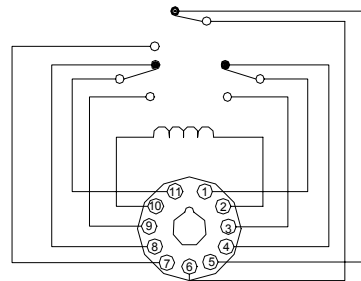
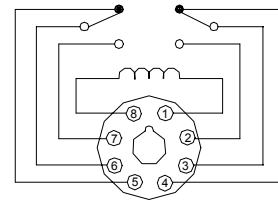


### Terminal arrangement and wiring diagram

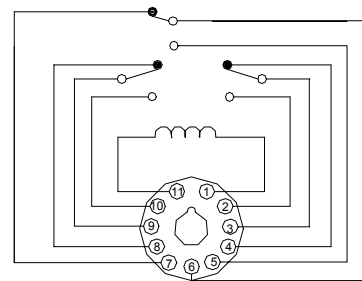
GP4-2C-2



GP4-2C-1



GP4-3C-2



GP4-3C-1