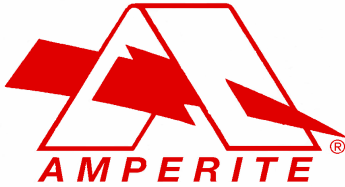


# Solving Your Relay Requirements Since 1922



Amperite Co.

(800) 752-2329

[www.Amperite.com](http://www.Amperite.com)

## GP1 - Series

## General Purpose Low Cost Relays



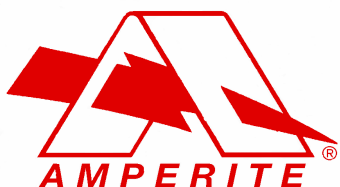
**Small Size and Light Weight**  
**Low Coil Power Consumption**  
**Bulk Packaging**  
**Plug in Termination**  
**Clear See-Thru Dust Cover**

**Contact Ratings 3 and 5 Amperes**

## SPECIFICATIONS

Contact Material	Silver Alloy		
Contact Resistance	Maximum 100 Milliohms		
Operate Time	Maximum 25 Milliseconds		
Release Time	Maximum 25 Milliseconds		
Insulation Resistance	100 Megohm Minimum ( 500 VDC )		
Voltage	—		
Coil to Contact	1500 VAC ( 50 / 60 Hz ) for 1 Minute		
Contacts	1000 VAC ( 50 / 60 Hz ) for 1 Minute		
Vibration Resistance	Functional	10 to 55 Hz Double Amplitude of 1.5mm	
	Destruction	10 to 55 Hz Double Amplitude of 1.5mm	
Shock Resistance	Functional	10 G's Minimum	
	Destruction	100 G's Minimum	
Life ( Minimum Operations )	Mechanical	At 180 CPM	1,000,000
	Electrical	At 20 CPM	100,000
Ambient Temperature	-25° C to +55° C		
Operating Humidity	40 to 85% RH		
Unit Weight	40 Grams		

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### CONTACT RATINGS

Arrangement	2C	4C
Resistive Load Cos. $\Phi = 1$	5A, 28VDC / 5A, 250 VAC	3A, 28VDC / 3A, 250 VAC
Resistive Load Cos. $\Phi = 0.7\sim 0.8$	2A, 28VDC / 2A, 250 VAC	1A, 28VDC / 1A, 250 VAC
Maximum Contact Voltage	110 VDC / 250 VAC	
Maximum Contact Current	5A	3A
Maximum Switched Power	150W / 600 VA	90W / 360 VA

### COIL DATA (at 20°C)

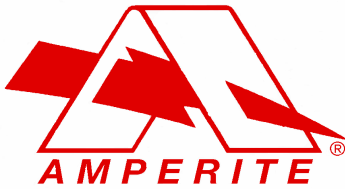
Nominal Voltage	12VDC	110VAC	220VAC
Pick-up Voltage VDC (Max.)	9.6	88	176
Drop-out Voltage VDC (Min.)	1.2	33	66
Coil Resistance $\pm 10\%$	160 $\Omega$	3400 $\Omega$	13600 $\Omega$
Power Consumption	0.9W	1.3VA	1.3VA
Max. Allowable Voltage	110% of Nominal Voltage		

THE AMPERITE PART NUMBERING SYSTEM IS LISTED BELOW. IF YOU DO NOT SEE THE NUMBER LISTED THAT YOU NEED, PLEASE CONTACT US. WE CAN PROVIDE MOST TYPES OF RELAYS AVAILABLE TODAY.

Part Number	CONTACT ARRANGEMENT	COIL VOLTAGE	TERMINATION
GP1-2C 012D 01	2C = DPDT	012D = 12 VDC	01 = PLUG IN
GP1-4C 012D 01	4C = 4PDT	012D = 12 VDC	01 = PLUG IN
GP1-2C 110A 01	2C = DPDT	110A = 110 VAC	01 = PLUG IN
GP1-4C 110A 01	4C = 4PDT	110A = 110 VAC	01 = PLUG IN
GP1-4C 220A 01	4C = 4PDT	220A = 220 AC	01 = PLUG IN

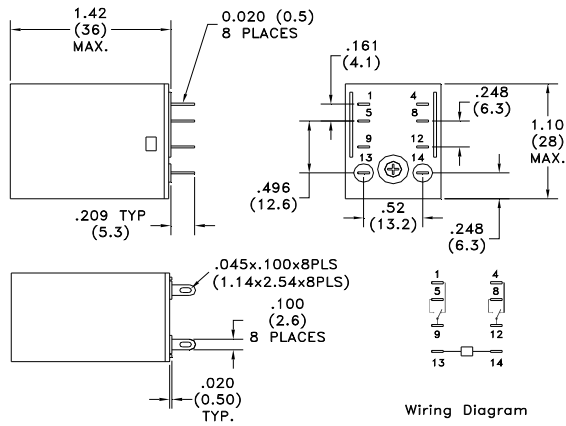
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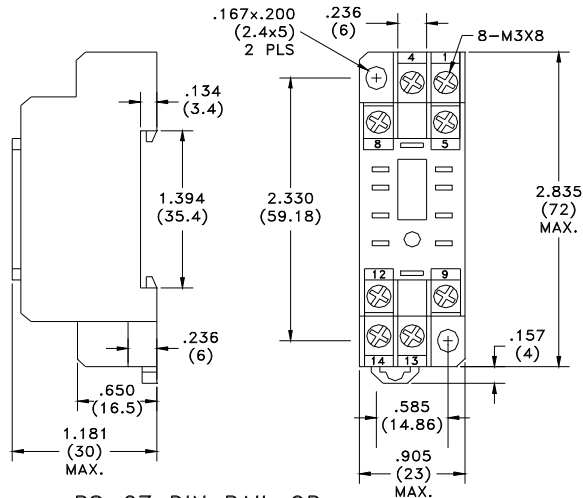


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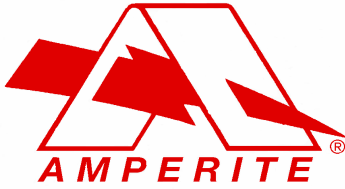
Outline Dimensions GP1  
2 Pole Plug-In Terminal



RS-27 DIN RAIL OR  
SURFACE MOUNT  
SCREW TERMINAL SOCKET

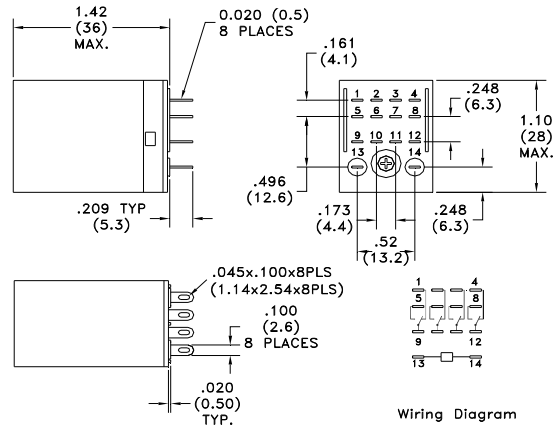
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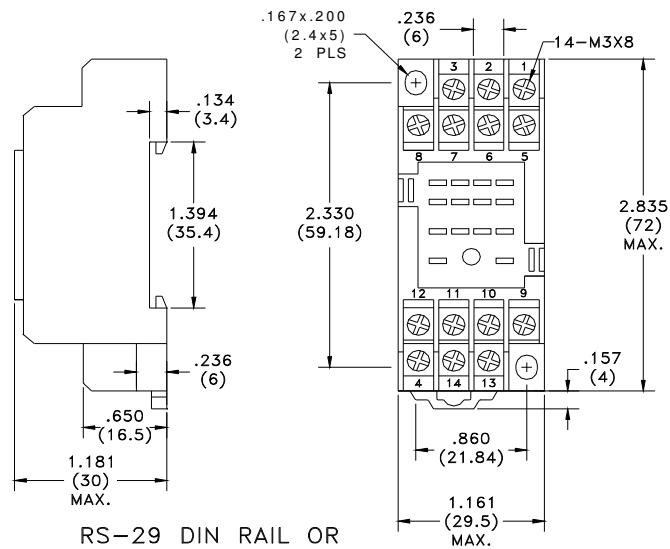


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Outline Dimensions GP1  
4 Pole Plug-In Terminal



RS-29 DIN RAIL OR  
SURFACE MOUNT  
SCREW TERMINAL SOCKET