





Relays - Solid State

	SIP 	SIP 	SIP 	SIP 
General Attributes	G3S/G3SD	G3CN	G3M	G3TB
Dimensions mm (in)	16.5 H x 20 L x 10 W (0.65 x 0.79 x 0.39)	26H x 33H x 14 W (1.04 x 1.30 x .55) max.	20 H x 40 L x 9 W (0.79 x 1.58 x 0.35)	Input module: 20.5 H x 43.5 L x 10 W (0.81 x 1.70 x 0.39) Output module: 30.5 H x 43.5 L x 10 W (1.20 x 1.70 x 0.39)
Switching current (resistive) (max.)	1A @ 240VAC (1.2A, G3S-PD & heatsink) (1.1A, G3SD-PD & heatsink)	2A, 3A, @ 53VDC, 26VAC	2, 3A, 5A @ 250VAC	Input module: 25mA @ 4 to 32VDC Output module: 3mA max. @ 5 to 48VDC 3mA max. @ 100 to 240 VAC 1.5 max. @ 48 to 200 VDC
Features	<ul style="list-style-type: none"> • AC and DC models available • Socketable • Heatsink, available • Interchanges with G6B SPST electrical mechanical relay 	<ul style="list-style-type: none"> • Flat & vertical packages • Ideal for FA & OA equipment 	<ul style="list-style-type: none"> • Multi-input SSR • Space-saving SIP design • Ideal for high density Power PCB applications • High current switching capability 	<ul style="list-style-type: none"> • Color-coded input & output modules • Industry standard footprint • 4kV dielectric strength • LED indicator
Operating temperature	-30°C to +80°C	-30°C to +80°C	-30°C to +80°C	-30°C to +85°C
Operating input	5, 12, 24VDC	5, 12, 24; 3~28VDC	5, 12, 24VDC	Input module: 80-264VAC, 3-32VDC; Output module: 3-32VDC
Output voltage	5, 12, 24VDC	75~264VAC 3~53VDC	75-264VAC	Input module: 4-32VDC; Output module: 75-264VAC, 4-200VDC
Leakage Current (max.)	2mA (G3S) 0.1mA @ 26VDC (G3S)	2.5/5mA	2mA @ 100VAC/5mA @ 200VAC (2Amp versions) 1.5mA @ 200VAC (3 & 5 Amp versions)	Input module: 100µA max. Output module: 5mA @ 200VAC (AC) 1mA max. (DC)
Isolation	Phototriac (G3S) Photocoupler (G3SD)	Phototriac Photocoupler	Phototriac	Photocoupler
Dielectric strength (50/60Hz for 1 min.)	2,500VAC	2,500VAC	2,000VAC (2A versions) 2,500VAC (3A and 5A versions)	4,000VAC
Zero crossing	No	Optional	Optional	Input module: No; Output module: Yes
Snubber circuit	Yes (Built-in Varistor)	No	Yes	Input module: No; Output module: Yes
Life (MTTF)	100,000 hours	100,000 hours	100,000 hours	100,000 hours
Mounting	PCB or Socket	PCB	PCB	PCB
Terminal	PCB	PCB	PCB	PCB
Approvals	UL, CSA	UL (114), CSA (22.2)	UL, CSA, TUV	UL, CSA
Equivalent Omron EMR footprint	G6B	N/A	N/A	N/A
Optional heat sink	Y92B-S08N	N/A	N/A	N/A
Socket	P6B-04P (PCB)	N/A	N/A	N/A