Electronic Components

Master Selection Guide





Relays - MOS FET

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General Attributes	G3VM-200	G3VM-350	G3VM-400	G3VM High Voltage & Dielectric	G3VM Current Limiting
Dimensions mm (in)	Please refer to specific data sheets for all dimensional information	Please refer to specific data sheets for all dimensional information	Please refer to specific data sheets for all dimensional information	Please refer to specific data sheets for all dimensional information	Please refer to specific data sheets for all dimensional information
Features	1 & 2 channel configurations Ideal for Instrumentation, Broadband Systems, Measurement Devices, Data Loggers, Consumer Electronics, Medical Equipment	Broad product offering Form A & Form B configurations Ideal for Instrumentation, Broadband Systems, Measurement Devices, Data loggers, Consumer Electronics, Security Systems, Electronic Automatic Exchange Systems, Industrial Automation Equipment, Medical Equipment	Broad product offering 10kV surge withstand models available Ideal for Instrumentation, Broadband Systems, Measurement Devices, Data Loggers, Consumer Electronics, Security Systems, Electronic Automatic Exchange Systems, Industrial Automation Equipment, Medical Equipment	Capable of switching loads up to 600V (AC and DC) 10kV surge withstand Ideal for Instrumentation, Electronic Automatic Exchange Systems, Industrial Automation Systems, Measurement Devices, Security Systems, Medical Equipment	Current limiting of 150 to 300mA Ideal for Electronic Automatic Exchange Systems, Multi-function Telephones, Cordless Telephones, Measurement Devices, Instrumentation
Load voltage	0-200V (AC or DC)	0-350V (AC or DC)	0-400V (AC or DC)	0-600V (AC or DC)	0-350V (AC or DC)
Maximum Ratings and Electrical Characteristics Continuous load current	0-50mA & 0-200mA	0-90mA, 0-100mA, 0-110mA, 0-120mA, 0-150mA	0-120mA	0-100mA	0-120mA
ON resistance (typical)	5Ω & 30Ω	15Ω, 27Ω, 30Ω, 25Ω, 40Ω	17Ω & 18Ω	25Ω	22Ω
Output capacitance	_		_	_	-
Available switching configurations	1 Form A, 2 Form A	1 Form A, 1 Form B, 1 Form A + 1 Form B 2 Form A, 2 Form B	1 Form A, 2 Form A	1 Form A	1 Form A, 2 Form A
Leakage current	10nA (max.) & 1.0μA (max.)	1.0μA (max.)	1.0μA (max.)	1.0μA (max.)	1.0µA (max.)
turn-ON time (typical)	40ms & 600ms	0.1ms, 0.25ms, 0.3ms, 0.5ms, 1.0ms	0.3ms & 0.5ms	0.2ms	0.3ms & 0.5ms
turn-OFF time (typical)	100ms	0.1ms, 0.15ms, 0.5ms, 1.0ms, 3.0ms	0.1ms & 0.5ms	0.2ms	0.3ms & 0.5ms
Dielectric strength (AC for 1 minute between input and output)	1,500Vrms (min.)	1,500Vrms (min.) 2,500Vrms (min.)	1,500Vrms (min.) 2,500Vrms (min.) 5,000Vrms (min.)	5,000Vrms (min.)	1,500Vrms (min.) 2,500Vrms (min.)
Available packaging & terminal choices	SOP 4 PIN, 6 PIN, 8 PIN	PCB, SMT, SOP 4 PIN, 6 PIN, 8 PIN	PCB, SMT, SOP 4 PIN, 6 PIN, 8 PIN	PCB & SMT 6 PIN	PCB, SMT & SOP 4 PIN, 6 PIN, 8 PIN
Accessories	Tape & reel	Tape & reel	Tape & reel	Tape & reel	Tape & reel
Approved standards	UL 1577	UL 1577	UL 1577	UL 1577	UL 1577

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General Attributes	G3VM GR	G3VM LR	G3VM-60	G3VM-80	G3VM-22
Dimensions mm (in)	Please refer to specific data sheets for all dimensional information	Please refer to specific data sheets for all dimensional information	Please refer to specific data sheets for all dimensional information	Please refer to specific data sheets for all dimensional information	Please refer to specific data sheets for all dimensional information
Features	C x R characteristics as low as 5pF*Ω Low leakage current Very high operating speed Ideal for IC and Memory Test Equipment, SoC Testers, Measurement Devices, Instrumentation, Medical Equipment, Broadband Systems, Data Loggers, Security Systems	Smallest MOS FET relay on the market C x R characteristics as low as 5pF*Ω Low leakage current Very high operating speed Ideal for IC and Memory Test Equipment, SoC Testers, Measurement Devices, Instrumentation, Medical Equipment, Broadband Systems, Data Loggers, Security Systems	High current switching capability Low ON-resistance Low leakage current Cost effective solutions Ideal for Measurement Devices, Instrumentation, Security Systems, Medical Equipment, Alarm Controls, Consumer Electronics	High current switching capability Low leakage current Ideal for Broadband Systems, Measurement Devices, Instrumentation, Medical Equipment, Data Loggers, Consumer Electronics	Single input channel with dual output channels Low ON-resistance Ideal for Inline Interface Applications, Data Loggers, ADSL Modems and Routers, Edge Routers, Data Storage Devices
Load voltage	0-20V (AC or DC) 0-40V (AC or DC)	0-20V (AC or DC) 0-40V (AC or DC)	0-60V (AC or DC)	0-80V (AC or DC)	0-20V (AC or DC)
Maximum Ratings and Electrical Characteristics Continuous load current	0-120mA 0-160mA 0-300mA	0-120mA 0-160mA 0-300mA 0-450mA	0-400mA 0-500mA 0-1,000mA 0-2,000mA 0-2,500mA	0-350mA 0-1,250mA	0-150mA
ON resistance (typical)	1Ω , 5Ω , 10Ω	0.8Ω , 1Ω , 5Ω , 10Ω	0.12Ω (max.) 7Ω (max.) 1Ω (typ.)	0.11Ω & 1.0Ω	2Ω
Output capacitance	1.0pF (typ.) 5.0pF (typ.) 10pF (typ.)	0.8pF (typ.) 1.0pF (typ.) 5.0pF (typ.) 10pF (typ.)	-		
Available switching configurations	1 Form A	1 Form A	1 Form A	1 Form A	Dual 1 Form A
Leakage current	1.0nA (max.)	1.0nA (max.)	1.0nA (max.) & 1.0μA (max.)	0.2nA (typ.) & 1.2nA (typ.)	1.0μA (max.)
turn-ON time (typical)	0.3ms	0.3ms	0.8ms 1.0ms 1.4ms	0.3ms 2.0ms	0.5ms
turn-OFF time (typical)	0.3ms	0.3ms	0.1ms 0.2ms 0.6ms	0.3ms 0.7ms	0.5ms
Dielectric strength (AC for 1 minute between input and output)	1,500Vrms (min.)	1,500Vrms (min.)	1,500Vrms (min.) 2,500Vrms (min.)	1,500Vrms (min.)	2,500Vrms (min.)
Available packaging & terminal choices	SOP 4 PIN	SOP 4 PIN	SOP, PCB, SMT 4 PIN, 6 PIN	SOP 4 PIN, 6 PIN	PCB & SMT 8 PIN
Accessories	Tape & reel	Tape & reel	Tape & reel	Tape & reel	Tape & reel
Approved standards	UL 1577	UL 1577	UL 1577	UL 1577	UL 1577

Relays - Low Signal

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General Attributes	G6J-Y	G6K	G6H	G6S	G6A
Dimensions mm (in)	10.0 H x 10.6 L x 5.7 W (0.39 x 0.42 x 0.22)	5.30 H x 10.20 L x 6.70 W (0.21 x 0.40 x 0.26)	5.08 H x 13.97 L x 8.89 W (0.20 x 0.55 x 0.35)	9.40 H x 15 L x 7.50 W (0.37 x 0.59 x 0.30)	8.40 H x 20.20 L x 10.10 W (0.33 x 0.80 x 0.40)
Switching	1A max.	1A max.	1A max.	2A max.	2A max.
Features	Slimline, 2 Form C, 1 Amp relay SMT & PCB versions 2.5kV surge withstand Available in SMT & PCB Latching & non-latching versions Ideal for Telecom, Test & Measurement, Medical, Security, Computer Peripheral, Office Automation	Small real estate, 2 Form C, 1 Amp relay 100mW power consumption 2.5kV surge withstand SMT & PCB versions Latching & non-latching models Ideal for Telecom, Test & Measurement, Medical, Security, Office Automation, Computer Peripheral	Low profile (5mm), 2 Form C, 1 Amp relay) Available in SMT & PCB 1.5kV surge withstand 140mW power consumption Ideal for Telecom, Test & Measurement, Medical, Security, Office Automation, Computer Peripheral	Industry standard, 2 Form C, 2 Amp relay 2.5 kV surge withstand SMT gullwing, SMT inside-L, PCB models Latching & non-latching versions European version available (supplementary insulation at 250V at pollution degree 2 per EN60950/EN41003) Ideal for Telecom, Thermostats, Medical, Test & Measurement, Security	Industry standard, Form C, 2 Amp relay Omw, 400mW Versions Pole & 4 Pole models Latching & non-latching Versions 1.5kV surge withstand Ideal for Telecom, Test Measurement, Security
Contact Information Contact form	2 Form C	2 Form C	2 Form C	2 Form C	2 Form C, 4 Form C
Contact type	Bifurcated crossbar	Bifurcated crossbar	Bifurcated crossbar	Bifurcated crossbar	Bifurcated crossbar
Contact material	Ag with Au alloy clad	Ag with Au clad	Ag with Au clad	Ag with Au clad; AgPd with Au clad	Ag with Au clad; AgPd with Au clad
Rated load (under resistive load)	0.3A @ 125VAC, 1A @ 30VDC	0.3A @ 125VAC, 1A @ 30VDC	0.5A @ 125VAC, 1A @ 30VDC	0.5 @ 125VAC, 2A @ 30VDC 1A @ 30VDC (G5V-2-H1)	0.3A to 0.5A @ 125VAC, 1A to 2A @ 30VDC
Max. operating voltage	125VAC, 110VDC	125VAC, 60VDC	125VAC, 110VDC	250VAC, 220VDC	250VAC, 220VDC
Max. switching capacity under resistive load	37.5VA, 30W (NO)	37.5VA, 30W	62.5VA, 33W	62.5VA, 60W	125VA, 60W
Min. electrical service life (operations at rated load)	100,000	100,000	100,000	100,000	500,000
Min. permissible load (for reference only)	10μA @ 10mVDC	10µA @ 10mVDC	10µA @ 10mVDC	10µA @ 10mVDC	10µA @ 10mVDC
Coil Information Coil voltage	3, 4.5, 5, 12, 24VDC	3, 4.5, 5, 6, 9, 12, 24VDC	3, 5, 6, 9, 12, 24, 48VDC	3, 4.5, 5, 6, 9, 12, 24VDC	3, 5, 6, 9, 12, 24, 48VDC
Power consumption	140mW (230mW for DC24)	100mW (standard and latching)	140mW (standard)	140mW (standard) 140mW, 200mW (latching)	200mW (DPDT standard) 180mW (DPDT latching) 360mW (4PDT standard)
Characteristics Dielectric strength between coil & contacts (50/60 Hz for 1 minute)	1,500VAC	1,500VAC	1,000VAC	2,000VAC	1,000VAC
Surge withstand	1.5kV (10 x 160µs)	2.5kV (2 x 10μs)	1.5kV (10 x 160µs)	2.5kV (2 x 10µs)	1.5kV (10 x 160µs)
Terminal choices	SMT Gullwing, PCB	SMT Gullwing, SMT Inside-L, PCB	PCB (G6H), SMT Gullwing (G6H-2F)	SMT Gullwing, SMT Inside-L, PCB	PCB
Packaging	Tape & reel available	Tape & reel available	Tape & reel available	Tape & reel available	
Approved standards	Bellcore 2.5kV / Telcordia GR-1089-CORE 2.5kV between coil and contacts	Bellcore 2.5kV / Telcordia GR-1089-CORE 2.5kV between coil and contacts	UL, CSA, (FCC Part 68)	Bellcore 2.5 kV / Telcordia GR-1089-CORE 2.5 kV (between coil and contacts)	UL, CSA, (FCC Part 68)

Relays - Low Signal

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General Attributes	G5A	G5V-1	G6L	G5V-2	G6E
Dimensions mm (in)	8.38 H x 16 L x 9.9 W (0.33 x 0.63 x 0.39)	10.0 H x 12.50 L x 7.50 W (0.39 x 0.49 x 0.30)	4.5 H x 10.6 L x 7.0 W (0.18 x 0.42 x 0.28	11.43 H x 20.32 L x 9.91 W (0.45 x 0.80 x 0.39)	8.38 H x 16 L x 9.9 W (0.33 x 0.63 x 0.39)
Switching	1A max.	1A max.	1A max.	2A max.	3A max.
Features	General use, 2 Form C, Amp relay Semi-sealed or fully- sealed construction Ideal for Telecom, Security, Computer Peripheral, Office Automation	General use, 1 Form C, 1 Amp relay 150mW power consumption 1.5kV surge withstand Ideal for Telecom, Security, Computer Peripheral	Very low profile, 1 Form A, 1 Amp relay 1.5kV surge withstand SMT & PCB versions Ideal for Security & General Use	2 Form C, 1-2 Amp relay Ideal for general use Industry standard footprint 150mW, 360mW & 500mW coil power versions 1.5 kV surge withstand	General use, 1 Form C, Amp relay 2.5 kV surge withstand 200mW, 400mW models Latching and non-latching versions
Contact Information Contact form	2 Form C	1 Form C	1 Form A	2 Form C	1 Form C
Contact type	Bifurcated crossbar	Single crossbar	Single crossbar	Bifurcated crossbar	Bifurcated crossbar
Contact material	Ag with Au clad	Ag with Au clad	Ag with Au clad	Ag with Au clad	Ag with Au clad
Rated load (under resistive load)	0.5A @ 24VAC, 1A @ 24VDC	0.5A @ 125VAC, 1A @ 24VDC	0.3A @ 125VAC, 1A @ 24VDC	0.5A @ 125VAC, 2A @ 30VDC	0.4A @ 125VAC, 2A @ 30VDC
Max. operating voltage	125VAC, 125VDC	125VAC, 60VDC	125VAC, 60VDC	125VAC, 125VDC	250VAC, 220VDC
Max. switching capacity under resistive load	37.5VA, 33W	62.5VA, 30W	37.5VA, 24W	62.5VA, 60W	50VA, 60W
Min. electrical service life (operations at rated load)	100,000	100,000	100,000	300,000	100,000
Min. permissible load (for reference only)	1mA @ 5VDC	1mA @ 5VDC	1mA @ 5VDC	10µA @ 10mVDC	10µA @ 10mVDC
Coil Information Coil voltage	5, 6, 9, 12, 24, 48VDC	5, 6, 9, 12, 24VDC	3, 4.5, 5, 12, 24VDC	3, 5, 6, 9, 12, 24, 48VDC	3, 5, 6, 9, 12, 24, 48VDC
Power consumption	200mW (standard & latching)	150mW	180mW (standard)	500mW (standard) 360mW (high-sensitivity) 150mW (ultra-sensitive)	200mW (standard) 400mW (standard)
Characteristics Dielectric strength between coil & contacts (50/60 Hz for 1 minute)	1,000VAC	1,000VAC	1,000VAC	1,000VAC	1,500VAC
Surge withstand		1.5kV (10 x 160µs)	-	1.5kV (10 x 160µs)	2.5kV (2 x 10µs)
Terminal choices	PCB	PCB	PCB, SMT Gullwing	PCB	PCB
Packaging	-	-	Tape & reel available	-	-
Approved standards	ul, CSA	UL, CSA	UL/CSA (FCC Part 68)	UL, CSA	UL/CSA (FCC Part 68) Bellcore 2.5kV / Telcordia GR-1089-CORE 2.5kV between coil and contacts

Relays - Low Signal RF/HF

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General Attributes	G6W	G6Y	G6Z	G6K-RF	G9YA
Dimensions mm (in)	8.9 H x 20 L x 9.4 W (0.35 x 0.79 x 0.37)	9.20 H x 20.70 L x 11.70 W (0.36 x 0.81 x 0.46)	8.9 H x 20 L x 8.6 W (0.35 x 0.79 x 0.34)	5.4 H x 10.3 L x 6.9 W (0.21 x 0.41 x 0.27)	39.0 H x 34.0 L x 13.2 W (1.54 x 1.34 x 0.52)
Switching	0.5A max.	1A max.	0.5A max.	1A max.	100mA max.
Features	5GHz+ HF relay 1 Form C Tri-plate micro strip line technology Latching & non-latching models SMT and PCB versions Ideal for Base Station LNA & TMA switching, Test & Measurement, Broadcast, FWA	900MHz+ HF relay 1 Form C Micro strip line technology Ideal for CATV, Digital TV tuners, Test & Measurement	$ \begin{array}{l} \bullet \ 2.6 \ \text{GHz+ HF relay} \\ \bullet \ 1 \ \text{Form C} \\ \bullet \ \text{Micro strip line technology} \\ \bullet \ 75 \ \Omega \ \& \ 50 \ \Omega \\ \text{impedance models} \\ \bullet \ \text{Latching \& non-latching models} \\ \bullet \ \text{Reverse terminal configurations} \\ \bullet \ \text{Y \& E terminal configurations} \\ \bullet \ \text{Y \& E terminal configurations} \\ \bullet \ \text{SMT and PCB versions} \\ \bullet \ \text{Ideal for Base Station LNA \& TMA switching, CATV, Digital TV tuners, Test \& Measurement, Broadcast, FWA} \\ \end{array} $	1GHz+ HF relay 2 Form C 100mW coil power Smallest 2 Form C on the market Ideal for Test & Measurement, CATV, Digital TV tuners	26.5GHz bandwidth Coaxial HF relay 60dB isolation (26.5GHz) Contact carry power of 120W at 3GHz Available in failsafe & TTL-driven models Also available in non-latching and dual latching configurations Ideal for Mobile Communications Infrastructure Equipment, Broadcast Equipment, Test and Measurement Equipment, Wireless LAN
HF Characteristics Isolation	65dB (2GHz) 60dB (2.5GHz) 40dB (5.0GHz)	65dB (900MHz)	60 - 65dB (900MHz) 30 - 45dB (2.6GHz)	20 - 30dB (1GHz)	60dB (26.5GHz) 65dB (12.4GHz)
Insertion loss	0.2dB (2GHz) 0.2dB (2.5GHz) 0.4dB (5.0GHz)	0.5dB (900MHz)	0.1 - 0.2dB (900MHz) 0.3 - 0.5dB (2.6GHz)	0.2dB (1GHz)	0.8dB (26.5GHz) 0.4dB (12.4GHz) 0.3dB (8GHz)
VSWR	1.2 (2GHz) 1.2 (2.5GHz) 1.5 (5.0GHz)	1.5 (900MHz)	1.1 - 1.2 (900MHz) 1.3 - 1.5 (2.6GHz)	0.2dB (1GHz)	1.7 (26.5GHz) 1.35 (12.4GHz) 1.25 (8GHz)
Contact Information Contact form	1 Form C	1 Form C	1 Form C	2 Form C	1 Form C
Contact type(s)	Twin crossbar	Twin crossbar	Twin crossbar	Bifurcated crossbar	Twin crossbar
Contact material	Au clad Cu alloy	Au clad Cu alloy	Au clad Cu alloy	Au alloy on Ag base	Au clad Cu alloy
Rated load (under resistive load)	10mA @ 30VAC 10mA @ 30VDC 2.5GHz, 10W	10mA @ 30VAC; 10mA @ 30VAC; 900 MHz, 1W	10mA @ 30VAC; 10mA @ 30VDC; 900MHz, 10W	0.3A @ 125VAC; 1A @ 30VDC	100mA @ 30VDC
Max. operating voltage	30VDC, 30VAC	30VDC, 30VAC	30VDC, 30VAC	60VDC, 125VAC	30VDC
Max. switching capacity under resistive load	10VA, 10W	10VA, 10W	10VA, 10W	37.5VA, 30W	120W (3GHz)
Min. electrical service life (operations at rated load)	300,000	300,000	300,000	300,000	5,000,000
Coil Information Coil voltage	3, 4.5, 9, 12, 24VDC	3, 4.5, 5, 6, 9, 12, 24VDC	3, 4.5, 5, 9, 12, 24VDC	3, 4.5, 5, 6, 9, 12, 24VDC	4.5, 5, 12, 15, 24, 28VDC
Power consumption	200mW (standard) 200mW (single latching) 360mW (dual latching)	200mW	200mW (standard) 200mW (single latching) 360mW (dual latching)	100mW	500mW (dual latching) 700mW (failsafe)
Characteristics Dielectric strength between coil & contacts (50/60 Hz for 1 minute)	1,000VAC	1,000VAC	1,000VAC	750VAC	500VAC
Terminal choices	PCB, SMT Gullwing	PCB	PCB, SMT Gullwing	SMT Gullwing	SMA Terminals, Solder Terminals, Pin Terminals
Packaging / Options		-	Tape & reel available	-	Connector Cables

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General Attributes	G5NB	G5NB-E	G5SB	G6D-ASI
Dimensions mm (in)	15.3 H x 20.5 L x 7.2 W	15.3 H x 20.5 L x 7.2 W	15.8 H x 20.3 L x 10.3 W	12.5 H x 17.5 L x 6.5 W
	(0.60 x 0.81 x 0.28)	(0.60 x 0.81 x 0.28) max.	(0.62 x 0.80 x 0.41)	(0.49 x 0.69 x 0.26)
Switching	3A/5A	3A/5A	5A(NO)/3A(NC)	5A
Features	 High capacity 5A version available Meets EN tracking resistance CTI>250 HA version for home appliances 	Small compact form for 10 kV impulse and 5A switching capability Meets EN tracking resistance CTI>250	High insulation between coil & contact Impulse withstand of 8kV Fully Sealed Incorporates 5A NO contact	Subminiature, slim lightweight design Low power consumption Fully Sealed
Contact Information Contact form	1 Form A	1 Form A	1 Form A	1 Form A
Contact type(s)	Single button	Single button	Single button	Single button
Contact material(s)	AgNi	AgSnIn	AgNi/AgSnIn	AgNi/AgSnIn
Electrical service life (@ 1800 ops./hr.)	(resistive load) 200,000 (resistive): 3A @ 125VAC/30VDC	200,000 (resistive): 3A @ 30VDC 100,000: 5A @ 250VAC	For resistive loads: 200,000: 3 A (NO)/3 A (NC) at 125 VAC; 50,000: 5 A (NO)/3 A (NC) at 125 VAC; 50,000: 5 A (NO) at 250 VAC; 10,000: 3 A (NC) at 250 VAC; 10,000: 5 A (NO)/3 A (NC) at 30 VDC	300,000: 2A @ 30VDC/250VAC 70,000: 5A @ 30VDC/250VAC
Max. switching capacity (and resistive load)	375VA, 90W	1,250VA, 90W	1,250VA, 150W(NO) 750VA, 30W(NC)	1,250VA, 150W
Minimum permissible load (for reference only)	10mA @ 5VDC	10mA @ 5VDC	10mA @ 5VDC	10mA @ 5VDC
Coil Information Coil voltage	5, 12, 18, 24VDC	5, 12, 18, 24VDC	5, 9, 12, 24VDC	5, 12, 24, 48, 110/120VDC
Power consumption	200mW	200mW	400mW	200mW
Insulation class	Class A	Class B	Class B	Class B
Characteristics Operating temperature	-40 to +70°C	-40 to +85°C	-40 to +70°C	-25 to +70°C
Impulse withstand voltage (1.2 x 50µ sec. unless noted)	10kV	10kV	8kV	6kV
Dielectric strength (50/60 Hz for 1 minute)	4,000VAC (coil-contact) 750VAC (open contacts)	4,000VAC (coil-contact) 750VAC (open contacts)	4,000VAC (coil-contact) 1,000VAC (open contacts)	3,000VAC (coil-contact) 750VAC (open contacts)
Terminal choices	PCB	РСВ	PCB	РСВ
Protection level	Semi-sealed	Semi-sealed	Semi-sealed	Semi-sealed
Accessories	N/A	N/A	N/A	Socket for back connecting, sockets with PCB terminals
Approved standards	UL, CSA, VDE	UL, CSA, VDE	UL, CSA, VDE	UL, CSA, TUV, SEV

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General Attributes	G6DS	G6M	G2RG	G6B
Dimensions mm (in)	12.4 H x 20 L x 5.0 W (0.60 x 0.81 x 0.28)	17.7 H x 20.3 L x 5.08 W (0.70 x 0.80 x 0.20)	25.5 H x 29 L x 13 W (1.00 x 1.14 x 0.51)	9.91 H x 20.07 L x 9.91 W (0.39 x 0.79 x 0.39)
Switching	5A	5A	8A	8A/5A
Features	Slim 5mm for max. density mounting High sensitive coil option reduces power consumption Meets EN reinforced insulation requirement for control equipment Fully sealed Resistant to mechanical shock	Slim 5mm width, & reduced PCB area (103mm²) ideal for high-density mounting Highly efficient magnetic circuit for high sensitivity UL Class I, Division II approved for hazardous locations	1.5mm contact gap x 2 poles=3mm total gap meeting UPS standards Dimensions & mounting holes are same as G2R relay series Sealed construction, standard Meets EN tracking resistance CTI > 250 UL508/CSA 22.2	Subminiature and low power Sealed construction standard Single & dual coil latching available
Contact Information Contact form	1 Form A	1 Form A	2 Form A	1 Form A, 2 Form A, 2 Form B 1 Form A + 1 Form B
Contact type(s)	Single button	Single button	Single button	Single button
Contact material(s)	AgNi	Ag-Alloy	AgSn0 ₂	AgSn0 ₂
Electrical service life (@ 1800 ops./hr.) (resistive load)	100,000: 5A @ 30VDC/250VAC 80,000 (high sensitivity): 5A @ 30VDC/250VAC	100,000: 3A @ 30VDC/250VAC 6,000: 5A @ 250VAC/24VDC	10,000: 8A @ 250VAC	100,000: 5A @ 30 VDC/250VAC 8A @ 30 VDC/250VAC (high- capacity)
Max. switching capacity (resistive load)	1,250VA, 150W	750VA, 90W	2,000 VA	1,250VA, 150W 2,000VA, 240W (high-capacity type)
Minimum permissible load (for reference only)	5mA @ 24VDC	10mA @ 5VDC	10mA @ 5VDC	10mA @ 5VDC
Coil Information Coil voltage	5, 12, 24VDC	5, 12, 24VDC	12, 24VDC	5, 6, 12, 24VDC
Power consumption	180mW 120mW (high-sensitivity)	120mW	800mW	200mW (1 pole) 300mW (2 pole)
Insulation class	Class B	Class B	Class B	Class A
Characteristics Operating temperature	-40 to +85°C	-40 to +85°C	-40 to +70°C	-25 to +70°C
Impulse withstand voltage (1.2 x 50µ sec. unless noted)	6kV	5.08kV	10kV	_
Dielectric strength (50/60 Hz for 1 minute)	3,000VAC (coil-contacts) 750VAC (open contacts)	3,000VAC, (coil-contact) 750VAC, (open contacts)	5,000VAC, (coil-contact) 3,000VAC, (contacts pole-pole) 1,000VAC (open contacts)	4,000VAC (coil-contact) 2,000VAC (contacts pole-pole) 1,000VAC (open contacts)
Terminal choices	PCB	PCB	PCB	PCB
Protection level	Fully Sealed	Fully sealed	Fully sealed	Fully sealed
Accessories	Socket for back connecting, sockets with PCB terminals	N/A	N/A	Sockets & clips for back connecting sockets with PCB terminals
Approved standards	UL, CSA, VDE	UL, CSA, VDE, EN, IEC 61131-2, IEC 61010	UL, CSA, VDE (0700/0110)	UL, CSA, (FCC Part 68) SEV, TUV, IEC

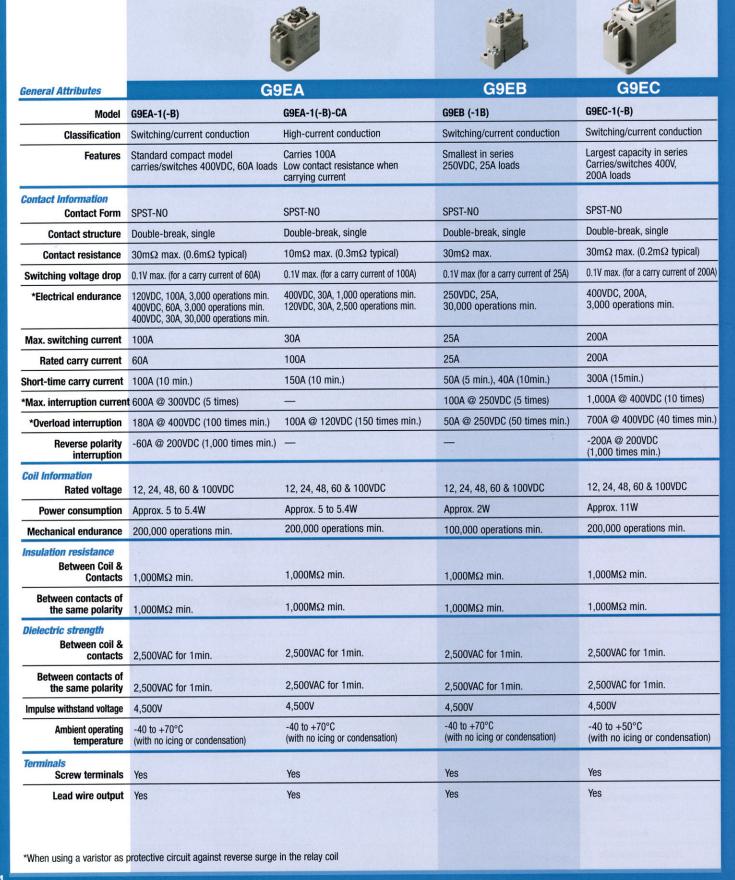
	NATIONAL STREET, STREE			
		NEW!	NEW!	
General Attributes	G6RN	G5LE/-E	G5LB/-25	G5Q
Dimensions mm (in)	15 H x 28.5 L x 10 W (0.59 x 1.12 x 0.39)	19 H x 22.5 L x 16.5 W (0.75 x 0.89 x 0.65)	15.2 H x 19.6 L x 15.6 W (0.60 x 0.77 x 0.61)	15.8 H x 20.3 L x 10.3 W (0.62 x 0.80 x 0.41)
Switching	8A	10A (16A for Semi-sealed "E" type)	10A	10A (NO contacts)
Features	8 mm coil/contact creepage Low profile Sealed construction standard Ideal for switching contactors, solenoids & motors	Small "sugar cube" size used as common platform Sealed construction optional High capacity contacts:-E Increased (0.8) contact gap:-G8 Special application versions available	Sealed construction optional 10A switching in low profile "sugar cube" package Optional -25 type meets stringent EU requirements, including tracking resistance CTI > 250 & extended life 4.5kV impulse withstand Low power consumption	Compact PCB relay with high insulation Withstands impulse of 8kV coil-contacts Meets EN tracking resistance CTI >250 Class F coil insulation standard Low power consumption
Contact Information Contact form	1 Form A, 1 Form C	1 Form A, 1 Form C	1 Form A, 1 Form C	1 Form A, 1 Form C
Contact type(s)	Single button	Single button	Single button	Single button
Contact material(s)	AgNi +gold plating	AgSnO ₂ /AgSnIn (either with gold plating option)	AgSnO ₂	AgNi
Electrical service life (@ 1800 ops./hr.) (resistive load)	100,000: 8A @ 250VAC 5A @ 30VDC	100,000: 13A @ 120VAC (@ 85°C/87°C) 5A @ 250 VAC (AgSn02) 6 FLA, 6 LRA @ 120VAC @ 85°C TV-5 @120VAC 50,000: 10A @ 250VAC 50,000 16A @ 250VAC 1/8 HP @ 120 VAC (@ 85°C) 30,000: 12A @ 120VAC	100,000: 10A @ 120VAC/250VAC 8A @ 30VDC	200,000: 3A (NO)/3 A (NC) @ 125VAC 100,000: 3A (NO)/3 A (NC) @ 250VAC 5A (NO)/3 A (NC) @ 30VDC 50,000: 10A (NO) @125VAC (900 ops. per hour)
Max. switching capacity (resistive load)	2,000VA,150W	1,200VA,240W	1,200VA, 240W 2,500VA, 240W (-25 type)	1,250VA,150W (NO) 375 VA, 90W (NC)
Minimum permissible load (for reference only)	10mA @ 5 VDC	100mA @ 5VDC,	100mA @ 5VDC	10mA @ 5VDC
Coil Information Coil voltage	5, 6, 12, 24, 48VDC	5, 6, 9, 12, 24, 48VDC	3, 5, 6, 9, 12, 24, 36, 48VDC	5, 12, 24VDC
Power consumption	220mW, 250mW (DC24/48)	400mW /360mW available	360mW (standard) 400mW ("-40" style) 600mW ("-60" style)	400mW Form C 200mW Form A
Insulation class	Class B	Class B, F (UL/CSA ONLY)	Class B, F (-25 type)	Class F
Characteristics Operating temperature	-40 to +85°C	-40 to +85°C	-40 to +85°C	-40 to +105°C
Impulse withstand voltage (1.2 x 50µ sec. unless noted)		4.5kV	4.5kV	8kV
Dielectric strength (50/60 Hz for 1 minute)	4,000VAC (coil-contact) 1,000 (open contacts)	2,000VAC (coil-contact) 750VAC (open contacts)	2,000VAC (coil-contact) 750VAC (open contacts)	4,000VAC (coil-contact) 1,000VAC (open contacts)
Terminal choices	PCB	PCB	PCB	PCB
Protection level	Sealed	Standard: Semi-sealed/vented, Option: sealed	Standard: Semi-sealed/vented, Option: sealed	Standard: Semi-sealed/vented, Option: sealed
Accessories	N/A	N/A	N/A	N/A
Approved standards	UL, CSA, VDE	UL, CSA, TUV, VDE	UL, CSA, VDE	UL, CSA, VDE

			NEW TYPES	
General Attributes	G6C	G5CA	G5PA-1	G8PT
Dimensions mm (in)	9.91 H x 20.07 L x 14.99 W (0.39 x 0.79 x 0.59)	11 H x 16 L x 22 W (10A) (0.43 x 0.63 x 0.87) 11 H x 22 L x 25 W (15A)	25 H x 24 L x W 10 (0.985 x 0.95 x 0.40)	Multiple, refer to catalog. Basic: 20.1(H)x 32.1(L) x 27.7(W)
Switching	10A	10A (15A high capacity)	5A (10A option)	30A (SPST) 10A-30A (SPDT)
Features	Low power consumption for high power switching Low profile 10A power relay Single & dual coil latching types available Sealed construction available Meets EN tracking resistance CTI > 250	Fully sealed or flux-sealed High capacity versions High sensitivity types PCB or PCB+QC versions	Ideal for TVs, tuner, & audio power supply switching, both front panel and remote controlled. Also auxiliary switched power outlets on tuners and TVs. A variety of versions in a single standard package meet most UL/FCC power isolation requirements Rated to 100A inrush @ 250 VAC for minimum 40,000 operations	Industry standard form with 30A switching UL Class F insulation standard Wide range of coil ratings Various sealing forms: open frame, vented/flux sealed, fully sealed UL508/UL873 Column A spacings Meets EN Tracking resistance CTI > 175 High dielectric at open contacts
Contact Information Contact form	1 Form A + 1 Form B, 1 Form A	1 Form A	1 Form A	1 Form A, 1Form C
Contact type(s)	Single button	Single button	Single button	Single button
Contact material(s)	Ag-Alloy	AgSnIn	AgSnO ₂	AgSnIn (other alloys available)
Electrical service life (@ 1800 ops./hr.) (resistive load)	100,000: 10A @ 30VDC/250VAC	100,000: 10A @ 30VDC 15A @ 110VAC (high capacity) 10A @ 250VAC (fully sealed, std) 300,000: 10A @ 250VAC (semi-sealed)	30,000: 54@277 VAC 5A @ 30VDC / 277VAC (high capacity type) 25,000: TV-5 TV-8 (optional) 6,000: 5A @ 30VDC 100,000: 10A @ 250 VAC (high-capacity type)	100,000: 30A @ 277VAC (NO) 50,000: 30A @ 277VAC (NC) Consult catalog for other ratings
Max. switching capacity (resistive load)	2,500VA, 300W 2,000VA, 240W (latching)	2,500VA, 300W	N/A	1 Form A: 7,500VA, 560W 1 Form C: 5000/2500VA, 560W/280W*
Minimum permissible load (for reference only)	10mA @ 5VDC	100mA @ 5VDC	10mA @ 5 VDC	500mA @ 5VDC
Coil Information Coil voltage	3, 5, 6, 12, 24VDC	5, 12, 24VDC	5, 6, 9, 12, 24 VDC (4.5 VDC non-standard)	5, 9, 12, 24, 48, 110VDC Other coil voltages available
Power consumption	200mW (monostable & single coil latching) 280mW (dual coil latching)	200mW (standard & high capacity) 150mW (high sensitivity)	250mW 530mW (high capacity, extended electrical life) 150mW (under development)	900m W
Insulation class	Class A	Class B	Class B	Class F
Characteristics Operating temperature	-40 to +70°C	-25 to +70°C	-40 to +70°C	-55°C to +105°C
Impulse withstand voltage (1.2 x 50µ sec. unless noted)	4.5kV	4.5kV	10kV 12kV	6kV
Dielectric strength (50/60 Hz for 1 minute)	2,000VAC (coil -contact) 2,000VAC (contacts pole-pole) 1,000VAC (open contacts)	2,500VAC (coil-contact) 1,000VAC (open contacts)	4,000VAC (coil-contacts) 1,000VAC (open contacts)	2,500VAC, (coil-contact) 1,500VAC, (open contacts)
Terminal choices	PCB, self clinching	PCB Optional: PCB+quick-connect contact terminals	PCB	PCB (optional self-clinching) PCB coil /quick connect contact Flange mount all quick connect
Protection level	Semi-sealed Fully sealed option	Semi-sealed Fully sealed option	Semi-sealed	Open frame, Vented/semi-sealed, Fully sealed
Accessories	Socket for QC contact terms., PCB terms., socket clip	N/A	N/A	N/A
Approved standards	UL, CSA, VDE, SEV	UL, CSA, SEV, SEMKO, IEC/TUV	UL, CSA, SEMKO TUV, VDE	UL, CSA, VDE

			NEW!	NEW!
General Attributes	G2R	G2RL	G5RL	G2RL-TP
Dimensions mm (in)	25.5 H x 29 L x 13 W (1 x 1.14 x 0.51)	15.5 H x 29 L x 12.7 W (0.61 x 1.14 x 0.50)	15.7 H x 28.8 L x 12.5 W (0.61 x 1.14 x 0.49)	15.7H x 40.4 L x 12.5 W (0.61 x 1.60 x 0.49)
Switching	16A max.	16A max.	16A max. (NO), 5A max. (NC)	16A max.
Features	High dielectric withstand 8mm coil/contact spacing 1 & 2 pole models 3mm contact gap version available (see G2RG) Meets EN tracking resistance CTI > 250	Low profile for power rating High isolation Class F insulation option Low power consumption Quick connect terminal option Meets EN tracking resistance CTI > 250	High dielectric due to large internal creepage distances. AC coil in industry standard package	Increased temperature & insulation ratings in low profile package. Simplifies PCB design by allowing removal of high power PCB tracings. Contact/load terminals in both 5mm for RAST5 connection & 7.5mm existing standard Single mounting/soldering process for both types of terminals reduces PCB assembly costs.
Contact Information Contact form	1 Form A, 1 Form C, 2 Form A, 2 Form C	1 Form A, 1 Form C, 2 Form A, 2 Form C	1 Form C	1 Form A
Contact type(s)	Single button, bifurcated button	Single button (bifurcated available)	Single button	Single button
Contact material(s)	Ag alloy	AgSnO ₂ (1 pole); AgNi (2 pole)	AgSnIn	Ag alloy
Electrical service life (@ 1800 ops./hr.) (resistive load)	100,000: (high-capacity type) 16A @ 30VDC/250VAC Consult catalog for other ratings	100,000: 16A @ 250VAC 6,000: 25A @ 240VAC Consult catalog for other ratings	50,000: 16A @ 24VDC/277VAC (NO) 25,000: TV-5 (NO)	50,000: 16A @ 24VDC/277VAC 20A @ 24 VAC (@ 85°C) 25,000: TV-5
Max. switching capacity (resistive Load)	4,000VA, 480W (high-capacity 1 pole) Consult catalog for other ratings	4,000VA, 384W (high-capacity 1 pole) Consult catalog for other ratings	4,000VA, 384W (NO) 1,250VA, 120W (NC)	4,000VA,
Minimum permissible load (@1800 ops./hr.)	1 pole: 100mA @ 5VDC; 2 pole: 10mA @ 5VDC	40mA, 24VDC	40mA @ 24VDC	
Coil Information Coil voltage	12, 18, 24, 48, 50, 100, 110/120, 110, 120, 200/220, 220, 230, 240VAC 5, 6, 9, 12, 18, 24, 48,60, 100, 110VDC	5, 12, 24, 48VDC	24, 100, 115/120, 200, 230/240 VAC 5, 12, 24, 48VDC	12, 24VDC Consult catalog for other coil voltages
Power consumption	0.9VA, 530mW (standard) 360mW (high sensitivity) 850mW (latching set), 600mW (latching reset)	400mW (430mW for 48VDC)	0.75VA 400mW (430mW @ 48VDC)	400mW (430mW for 48VDC)
Insulation class	Class B available	Class F		Class F
Characteristics Operating temperature	-40 to +70°C (+85°C option)	-40 to +85°C	-40 to +70°C (AC coil) -40 to +85°C (DC coil)	-40 to +105°C
Impulse withstand voltage (1.2 x 50µ sec. unless noted)	10kV	10kV	10kV	10kV
Dielectric strength (50/60 Hz for 1 minute)	5,000VAC (coil-contact) 1,000 VAC (open contacts)	5,000VAC (coil-contact) 1,000 VAC (open contacts)	6,000VAC (coil-contact) 1,000VAC (open contacts)	5,000 VAC, (coil-contact) 1,000 VAC, (open contacts)
Terminal choices	PCB, plug in quick-connect (flange mount)	PCB, optional quick-connect contact terminals (-TP type)	PCB	PCB (coil terminals) Quick-connect (contact terminals)
Protection level	Semi-sealed Fully sealed option	Semi-sealed Fully sealed option	Semi-sealed	Semi-sealed
Accessories	N/A	N/A	N/A	N/A
Approved standards	UL, CSA, SEV SEMKO, VDE, TUV	UL, CSA, VDE	UL, CSA, VDE	UL, CSA, EN 60335

Relays - DC Power

The switching and driving sections are isolated, gas injected and hermetically sealed. This advanced construction requires no arc space, saves space, & helps ensure safety.



Relays - General Purpose

Relays - General Purpose

General Attributes	MY	LY
Dimensions mm (in)	36 H x 28 L x 21.5 W (1.42 x 1.10 x 0.85)	35.56 H x 27.94 L x 21.59 W (1.40 x 1.10 x 0.85)
Switching	10A (2 pole); 5 A (4 pole)	15A
Features	Exceptional reliability Push-to-test button standard Arc barrier built into 4 pole Built in diode (DC) or C/R Circuit Name plate and mechanical indicator, standard	Compact power relay LED, Push-to-test button, bifurcated contacts and other features available Space efficient power switching Extended life to 500,000/200,000 operations
Contact Information Contact form	2 Form C, 4 Form C	1 Form C, 2 Form C, 3 Form C, 4 Form C
Contact type(s)	Single button, bifurcated button	Single button, bifurcated
Contact material(s)	AgNi	Ag-Alloy
Electrical service life (@ 1800 ops./hr.) (resistive load)	2P 500,000: 5A @ 30VDC/250VAC 4P 200,000: 3A @ 30VDC/250VAC 100,000: 3A@30VDC/250VAC (bifurcated)	200,000 min: 15A @ 24VDC/110VAC 10A @ 24VDC/110VAC 500,000 min: (2 pole) 10A @ 110VAC
Max. switching capacity (resistive load)	2,500VA, 300W 1,250VA, 150W (4-pole)	1,700VA, 360W (1 pole) 1,100VA, 240W (2, 3, 4 pole) 550VA, 120W (bifurcated)
Minimum permissible load (@1800 ops./hr.)	2 pole: 1mA @ 5VDC 4 pole: 1mA @ 5VDC 10μA @ 1 VDC (bifurcated contacts)	100mA @ 5VDC 10mA @ 5VDC (bifurcated contacts)
Coil Information Coil voltage	6, 12, 24, 48, 110/120, 220/240 VAC; 6,12, 24, 48, 100/110VDC	12, 24, 110/120, 220/240VAC, 12, 24, 48, 100VDC
Power consumption	AC Coil: 0.9 to 1.2VA DC Coil: 0.9W	1.1VA, 0.9W (1 pole); 1.1VA, 0.9W (DPDT); 1.6VA, 1.4W (3PDT); 1.95VA, 1.5W (4PDT)
Insulation class	Class A	Class A
Characteristics Operating temperature	-55°C to +70°C	-25°C to +70°C
Impulse withstand voltage (1.2 x 50µ sec. unless noted)	_	
Dielectric strength (50/60 Hz for 1 minute)	2,000VAC (coil-contact) 1,000VAC (open contacts)	2,000VAC (coil-contact) 1,000VAC (open contacts)
Terminal choices	PCB, plug-in	Track mounted socket PCB with .187/.250 QC
Protection level	Unsealed	Unsealed, semi-sealed
Accessories	Sockets & clips for track mount sockets with screw terminals, & back connecting sockets with solder & PCB terminals. Note: PYF-S series screwless clamp terminal socket available Mounting rails= PFP	Sockets & clips for track mount sockets with screw terminals, & back connecting sockets with solder & PCB terminals
Approved standards	UL, CSA, SEV, CE, VDE, IMA	UL, CSA, SEV, VDE, CE (UL, CSA only with varistors)

Relays - General Purpose

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General Attributes	G7J	G7L
Dimensions mm (in)	64 H x 53.5 L x 34.5 W (2.52 x 2.11 x 1.36)	49.02 H x 68.58 L x 34.54 W (1.93 x 2.70 x 1.36)
Switching	25A max.	30A max.
Features	Variety of contact forms Ideal for 3 phase motor control 4 pole mini contactor DIN rail mountable Minimal chattering UL94V-0	Reliable high power relay 3 mm contact gap Conforms to IEC 950/UL 1950 Class B insulation standard Most cost effective solution in its class. Ideal for pump, motor loads
Contact Information Contact form	4 Form A, 3 Form A/1 Form B, 2 Form A/2 Form B	1 Form A-(Double Make) 2 Form A-(Double Make)
Contact type(s)	Single button	Single button
Contact material(s)	Ag Alloy	Ag Alloy
Electrical service life (@ 1800 ops./hr.) (resistive load)	100,000 min. (at rated loads) (see data sheet for more information)	100,000 min. (at rated loads) (see data sheet for more information)
Maximum switching capacity	5,500VA, 750W (NO contacts) 1,760VA, 240W (NC contacts)	4,400VA
Minimum permissible load (@1800 ops./hr.)	100mA @ 24VDC	100mA @ 5VDC
Coil Information Coil voltage	6, 12, 24, 48, 100/110VDC; 6, 12, 24, 50, 100/120, 200/240VAC	12, 24, 48, 100VDC; 12, 24, 100/120, 200/240VAC
Power consumption	1.8 to 2.6VA, 2.0W	1.7 to 2.5VA, 1.9W
Insulation class	Class A, Class B (available)	Class B
Characteristics Operating temperature	-25°C to +60°C	-20°C to +85°C
Impulse withstand voltage (1.2 x 50µ sec. unless noted)	10kV (coil-contacts)	10kV (coil-contacts)
Dielectric strength (50/60 Hz for 1 minute)	4,000VAC (coil-contacts) 4,000VAC (different polarity) 2,000VAC (open contacts)	4,000VAC (coil-contacts) 2,000VAC (different polarity) 2,000VAC (open contacts)
Terminal choices	Quick-connect, screw, PCB	Quick-connect, screw, PCB
Protection level	Unsealed Semi-sealed	Unsealed Semi-sealed
Accessories	R99-04V for G5D W-bracket	R99-07G5D E bracket; P7LF-D adapter; P7LF-06 front connecting socket
Approved standards	UL, CSA, TUV, CE, IEC	UL, CSA, TUV, CE, VDE available

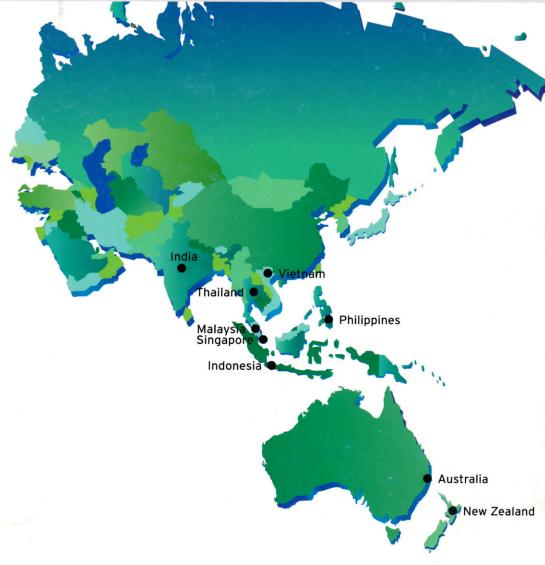
Relays - Solid State

	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	AC and DC models available Socketable Heatsink, available Interchanges with G6B SPST electrical mechanical relay	Flat & vertical packages Ideal for FA & OA equipment	Multi-input SSR Space-saving SIP design Ideal for high density Power PCB applications High current switching capability	Color-coded input & output modules Industry standard footprint AkV 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

Relays - Solid State

	SIP	SIP
General Attributes	G3MB	G3MC
Dimensions mm (in)	20.5 H x 24.5 L x 5.5 W	13.5 H x 24.5 L x 4.5 W
	(0.81 x 0.96 x 0.22)	(0.53 x 0.96 x 0.18)
Switching	2A @ 240VAC	2A @ 240VAC
current (resistive)		
Features	Space saving SIP designIndustry standard footprint	Reduced height thin profile SIP Ideal for close PCB mounting
	 Monoblock construction results 	 Monoblock construction results
	in ultimate reliability	in ultimate reliability • Industry standard footprint
Operating temperature	-30°C to +80°C	-30°C to +80°C
Operating input	5, 12, 24VDC	5, 12, 24VDC
Output voltage	75-264VAC	75-264VAC
Leakage Current	1 EmA (at 200)/AC)	1.5m/ (at 200\/AC)
(max.)	1.5mA (at 200VAC)	1.5mA (at 200VAC)
Isolation	Phototriac	Phototriac
Dielectric strength (50/60Hz for 1 min.)	2,500VAC	2,500VAC
Zero crossing	Optional	Yes
2010 010031119	- Carrier - Carr	
Snubber circuit	Optional	Yes
*		
Life (MTTF)	100,000 hours	100,000 hours
Mounting	PCB	PCB
Terminal	PCB	PCB
Approvals	UL, CSA, TUV	UL, CSA, VDE
Equivalent Omron	G2RV similar for terminal block	G2RV similar for terminal block
EMR footprint		
Optional heat sink	N/A	N/A
Socket	N/A	N/A

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