

OMRON Solid State Relays



OMRON G3PE SERIES: SINGLE-PHASE SOLID STATE RELAYS FOR HEATERS

Specifications:

- Isolation method: Phototriac coupler
- Operation indicator: Yellow
- Rated input voltage: 12-24VDC
- Rated input current: 7mA max.
- Rated output load voltage: 100-240VAC (50/60Hz)

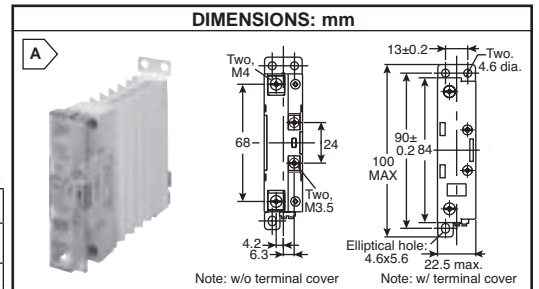
Features:

- Slim profile industrial SSR with heatsink ideal for heater applications
- Snubber circuit for short-term surge absorption
- Zero cross function
- DIN track or panel mounting possible
- LED indicator standard on all models



For quantities greater than listed, call for quote.

MOUSER STOCK NO.	Omron Part No.	Fig.	Inrush Current (60Hz, 1 cycle)	Resistive Load (@ 200VAC)	Applicable Load Current	Price Each			
						1	25	50	100
653-G3PE-215BDC12-24	G3PE-215B DC12-24	A	150A	3kW	15A@100-240VAC	47.46	46.11	44.75	43.39
653-G3PE-225BDC12-24	G3PE-225B DC12-24	A	220A	5kW	25A@100-240VAC	64.41	58.54	53.70	49.55
653-G3PE-245BDC12-24	G3PE-245B DC12-24	B	440A	9kW	45A@100-240VAC	93.60	85.09	78.00	72.00



OMRON G3DZ SERIES: 0.6A MAXIMUM SWITCHING SOLID STATE RELAYS

Specifications:

- Applicable output load: 0.6A @ 5-240VAC, 0.6A @ 5-100VDC
- Output load current: 100µA-0.6A
- Output inrush current: 6A (ms)

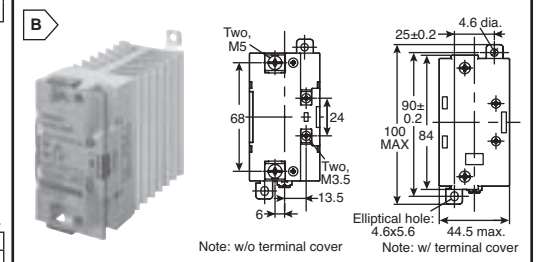
Features:

- 2,500VAC dielectric strength ensured between input and output terminals
- Switching full- and half-wave rectified alternating currents
- Maximum AC/DC switching current of 0.6A
- 10µA current leakage max. between open output terminals



For quantities greater than listed, call for quote.

MOUSER STOCK NO.	Omron Part No.	Fig.	Rated Input Voltage (VDC)	Operating Input Voltage (VDC)	Input Impedance (±20%)	Price Each			
						1	25	50	100
653-G3DZ-2R6PLDC5	G3DZ-2R6PL DC5	C	5	4.0-6.0	830Ω	11.28	10.96	10.63	10.31
653-G3DZ-2R6PLDC24	G3DZ-2R6PL DC24	C	24	19.2-28.8	4kΩ	14.00	13.60	13.20	12.80
Socket						Description			
653-P6D-04P	P6D-04P	-	Connecting Socket			2.45	2.39	2.30	2.20



OMRON G3M SERIES: SIP SOLID STATE RELAYS

Specifications:

- Isolation method: Phototriac
- Output load current: 0.1-3A 203P, 0.1-5A 205P
- Output inrush current: 45A (60Hz, 1 cycle)

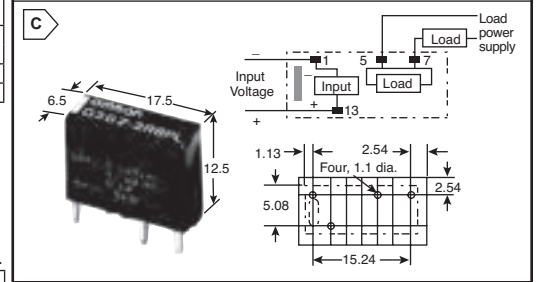
Features:

- Single in-line package SSR
- Thin design for high-density PCB applications
- DC input / AC output for up to a 5A load
- Two footprints offer greater flexibility



For quantities greater than listed, call for quote.

MOUSER STOCK NO.	Omron Part No.	Fig.	Rated Input Voltage (VDC)	Applicable Output Load	Zero Cross Function	Price Each			
						1	25	50	100
7.62mm Input Terminal Pitch									
653-G3M203PDC5	G3M-203P-DC5	D	5	3A @ 100-240VAC	Yes	15.52	14.53	13.43	12.86
653-G3M203PDC12	G3M-203P-DC12	D	12	3A @ 100-240VAC	Yes	12.18	11.40	11.02	10.60
653-G3M203PDC24	G3M-203P-DC24	D	24	3A @ 100-240VAC	Yes	14.35	13.69	12.90	12.35
653-G3M203PLDC24	G3M-203PL-DC24	D	24	3A @ 100-240VAC	No	14.62	13.68	12.66	12.12
653-G3M205PLDC5	G3M-205PL-DC5	E	5	5A @ 100-240VAC	No	15.89	14.87	13.76	13.17
653-G3M205PLDC12	G3M-205PL-DC12	E	12	5A @ 100-240VAC	No	14.78	13.83	13.36	12.86
653-G3M205PLDC24	G3M-205PL-DC24	E	24	5A @ 100-240VAC	No	15.23	14.25	13.77	13.25
5.08mm Input Terminal Pitch									
653-G3M-203P-4DC5	G3M-203P-4 DC5	D	5	3A @ 100-240VAC	Yes	14.35	13.69	12.66	11.94
653-G3M-205PL-4DC24	G3M-205PL-4 DC24	E	24	5A @ 100-240VAC	No	13.01	12.22	11.91	11.30



OMRON G3MC SERIES: SIP COMPACT SOLID STATE RELAYS

Specifications:

- Isolation method: Phototriac
- Insulation resistance: 1000MΩ min. (@ 500VDC)
- Dielectric strength: 2500VAC, 50/60Hz for 1 min. 3000VAC, 50/60Hz for 1 min. for G3MC-VD
- Built-in snubber circuit
- Rated at ambient temperature: 25°C

Features:

- Compact, thin-profile, low-cost SSR with reinforced insulation
- Small bottom surface area for close PCB mounting
- Monoblock construction with an all-in-one frame incorporates a PCB, terminals, and a heatsink
- DC and AC output for an applicable load of 1A at 40°C



*VDE approved models

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MOUSER STOCK NO.	Omron Part No.	Fig.	Rated Input Voltage (VDC)	Applicable Output Load	Zero Cross Function	Price Each			
						1	25	50	100
653-G3MC-101P-DC5	G3MC-101P-DC5	F	5VDC	1A @ 100-120VAC	Yes	3.76	3.52	3.36	3.19
653-G3MC-101P-DC12	G3MC-101P-DC12	F	12VDC	1A @ 100-120VAC	Yes	4.08	3.71	3.40	3.14
653-G3MC-101P-DC24	G3MC-101P-DC24	F	24VDC	1A @ 100-120VAC	Yes	4.08	3.71	3.40	3.14
653-G3MC-101PL-DC5	G3MC-101PL-DC5	F	5VDC	1A @ 100-120VAC	No	3.90	3.55	3.25	3.00
653-G3MC101PL-DC12	G3MC-101PL-DC12	F	12VDC	1A @ 100-120VAC	No	3.70	3.36	3.08	2.84
653-G3MC101PL-DC24	G3MC-101PL-DC24	F	24VDC	1A @ 100-240VAC	Yes	3.33	3.15	2.99	2.87
653-G3MC-201P-DC5	G3MC-201P-DC5	F	5VDC	1A @ 100-240VAC	Yes	4.45	4.04	3.71	3.61
653-G3MC-201P-DC12	G3MC-201P-DC12	F	12VDC	1A @ 100-240VAC	Yes	5.39	4.89	4.49	4.14
653-G3MC-201PL-DC5	G3MC-201PL-DC5	F	5VDC	1A @ 100-240VAC	No	4.56	4.15	3.81	3.52
653-G3MC201PL-DC12	G3MC-201PL-DC12	F	12VDC	1A @ 100-240VAC	No	3.52	3.20	2.93	2.85
653-G3MC201PL-DC24	G3MC-201PL-DC24	F	24VDC	1A @ 100-240VAC	No	4.56	4.15	3.81	3.52
653-G3MC-202P-DC5	G3MC-202P-DC5	G	5VDC	2A @ 100-240VAC	Yes	4.21	3.94	3.77	3.60
* 653-G3MC-202P-VDDC5	G3MC-202P-VD DC5	G	5VDC	2A @ 100-240VAC	Yes	8.74	8.32	7.99	7.01
653-G3MC-202P-DC12	G3MC-202P-DC12	G	12VDC	2A @ 100-240VAC	Yes	4.51	4.21	4.05	3.98
* 653-G3MC202P-VDDC12	G3MC-202P-VD DC12	G	12VDC	2A @ 100-240VAC	Yes	8.46	7.99	7.34	6.99
653-G3MC-202P-DC24	G3MC-202P-DC24	G	24VDC	2A @ 100-240VAC	Yes	4.77	4.46	4.13	3.95
653-G3MC-202PL-DC5	G3MC-202PL-DC5	G	5VDC	2A @ 100-240VAC	No	4.70	4.40	4.21	4.02
653-G3MC202PL-DC12	G3MC-202PL-DC12	G	12VDC	2A @ 100-240VAC	No	4.51	4.22	3.91	3.74
* 653-G3MC202P-VDDC12	G3MC-202P-VD DC12	G	12VDC	2A @ 100-240VAC	Yes	8.46	7.99	7.34	6.99
653-G3MC202PL-DC24	G3MC-202PL-DC24	G	24VDC	2A @ 100-240VAC	No	5.19	4.85	4.49	4.30

