

OMRON Safety, Low Signal and General Purpose Relays



This product is RoHS compliant.

OMRON G7SA SERIES: SLIM, PLUG-IN SAFETY RELAYS FOR MACHINE CONTROL

Specifications:

- Rated voltage: 24VDC
- Rated load: 6A @ 250VAC/30VDC
- Flux-tight
- Electrical life: 100,000 operations min.

Features:

- Slim body
- Terminal arrangement simplifies PCB pattern design
- Positive, force-guided contacts

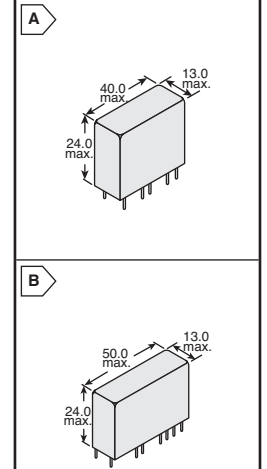


MOUSER STOCK NO.	Omron Part No.	Fig.	No. of Contacts	Contact Form	NO Contacts	NC Power	Price Each			
							1	10	25	50
653-G7SA-2A2B-DC24	G7SA-2A2B-DC24	A	4	DPST-NO, DPST-NC	2	2	39.58	37.67	33.87	32.14
653-G7SA-3A1B-DC24	G7SA-3A1B-DC24	A	4	3PST-NO, SPST-NC	3	1	41.16	37.04	32.92	29.63
653-G7SA-4A2B-DC24	G7SA-4A2B-DC24	B	6	4PST-NO, DPST-NC	4	2	51.43	47.44	44.79	42.81
653-G7SA-5A1B-DC24	G7SA-5A1B-DC24	B	6	5PST-NO, SPST-NC	5	1	45.44	43.26	38.89	36.91

Sockets for G7SA

MOUSER STOCK NO.	Omron Part No.	Fig.	Rated Current (mA)	Power Consumption (approx.)	Price Each
653-P7SA-10F	P7SA-10F		4-pole DIN rail and screw mounting	29.25	27.86
653-P7SA-14F	P7SA-14F		6-pole DIN rail and screw mounting	29.38	27.47
653-P7SA-10P	P7SA-10P		4-pole PCB terminal	8.00	7.50
653-P7SA-14P	P7SA-14P		6-pole PCB terminal	12.59	12.00
653-P7SA-10F-NDCC24	P7SA-10F-ND DC24		4-pole DIN rail and screw mounting with LED indicator	29.97	28.14
653-P7SA-14F-ND	P7SA-14F-ND DC24		6-pole DIN rail and screw mounting with LED indicator	33.48	30.89

DIMENSIONS: mm



OMRON G2RV SERIES: 6A INDUSTRIAL, SLIM RELAYS

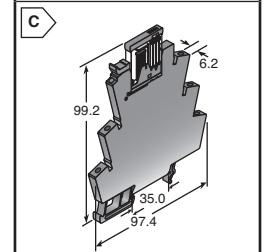
Specifications:

- Rated load: 6A @ 250VAC/30VDC
- Contact resistance: 100mΩ max.
- Contact form: SPDT
- Contact material: AgSnIn
- Terminal type: Screw

Features:

- Large, plug-in terminals for reliable connection
- LED indicator, clear case, and mechanical flag allows easy and immediate visual operation verification.
- Has a maximum switching voltage of 440VAC
- Low power consumption for system energy savings

MOUSER STOCK NO.	Omron Part No.	Fig.	Coil Voltage	Rated Current (mA)			Power Consumption (approx.)		Price Each			
				AC		DC	AC(VA)	DC(mW)	1	25	50	100
				50Hz	60Hz							
653-G2RV-SL-ACDC24	G2RV-SL700-AC/DC24	C	24VAC/DC	21.1	22.5	13.0	0.5	300	17.15	15.60	13.87	13.19
653-G2RV-SL0AC110	G2RV-SL700-AC110	C	110VAC	7.1	7.5	-	0.8	-	22.27	19.95	19.09	18.48
653-G2RV-SL700AC230	G2RV-SL700 AC230	C	230VAC	7.3	7.9	-	1.7	-	26.66	24.24	22.22	20.51
653-G2RV-SL-DC24	G2RV-SL700-DC24(DC24)	C	24VDC	-	-	13.3	-	300	18.98	17.26	15.82	14.60



OMRON G7J SERIES: MULTI-POLE POWER RELAYS

Specifications:

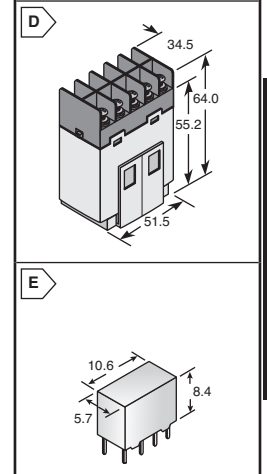
- Contact rating: 25A (NO) @ 250 VAC/30VDC, 8A (NC) @ 220 VAC/30VDC
- Maximum switching current: 25A (NO), 8A (NC)
- Power consumption: AC 1.8-2.6VA / DC 2.0W

Features:

- Push-to-test button on all models
- Ideal for 3-phase motor control applications
- Class F insulation
- UL508 and 1950 approved



MOUSER STOCK NO.	Omron Part No.	Fig.	Contact Form	Rated Current (mA)	Coil Resistance (Ω)	Coil Voltage	Terminal Type	Price Each				
								1	25	50	100	
Relay and W-Bracket Set												
653-G7J-2A2BBW-AC1	G7J-2A2B-B-W1-AC100/120	D	DPST-NO/DPST-NC	18.0-21.6	-	100/120VAC	Screw	35.06	31.87	29.22	26.97	
653-G7J-3A1BBW-AC1	G7J-3A1B-B-W1-AC100/120	D	3PST-NO/SPST-NC	18.0-21.6	-	100/120VAC	Screw	31.60	29.84	28.77	27.31	
653-G7J-3A1BBW-DC24	G7J-3A1B-B-W1-DC24	D	3PST-NO/SPST-NC	83.0	288.0	24VDC	Screw	26.34	24.88	23.99	22.77	
653-G7J-4ABW-AC1	G7J-4A-B-W1-AC100/120	D	4PST-NO	18.0-21.6	-	100/120VAC	Screw	28.30	27.34	26.36	24.60	
653-G7J-4ABW-DC24	G7J-4A-B-W1-DC24	D	4PST-NO	83.0	288.0	24VDC	Screw	28.00	26.41	23.68	22.39	
Relay Only, Requires a W-Bracket for Mounting (Purchased Separately)												
653-G7J-3A1B-T-AC24	G7J-3A1B-T AC24	D	3PST-NO/SPST-NC	75.0	-	24VAC	QC	46.77	42.53	39.00	36.00	
653-G7J-3A1B-BDC24	G7J-3A1B-B DC24	D	3PST-NO/SPST-NC	83.0	288.0	24VDC	Screw	48.00	43.62	39.98	36.91	
653-G7J-3A1B-TDC24	G7J-3A1B-T DC24	D	3PST-NO/SPST-NC	83.0	288.0	24VDC	QC	25.37	22.84	21.61	20.30	
653-G7J-4A-BDC24	G7J-4A-B DC24	D	4PST-NO	83.0	288.0	24VDC	Screw	42.00	38.18	35.00	32.30	
Relay Only, PCB Mount												
653-G7J-2A2BP-AC1	G7J-2A2B-P-AC100/120	D	DPST-NO/DPST-NC	18.0-21.6	-	100/120VAC	PCB	32.42	29.48	27.02	24.95	
653-G7J-3A1B-PDC24	G7J-3A1B-P DC24	D	3PST-NO/SPST-NC	83.0	288.0	24VDC	PCB	42.00	38.18	35.00	32.30	
653-G7J-4A-PAC200240	G7J-4A-P AC200/240	D	4PST-NO	9.0-10.8	-	200/240VAC	PCB	47.26	42.96	39.37	36.35	
653-G7J-4A-P-DC12	G7J-4A-P-DC12	D	4PST-NO	167.0	72.0	12VDC	PCB	52.79	48.00	43.99	40.60	
653-G7J-4A-P-DC24	G7J-4A-P-DC24	D	4PST-NO	83.0	288.0	24VDC	PCB	26.64	24.22	22.20	20.85	
Accessories												
653-R99-04FORG5F	R99-04 FOR G5F	-	W-brackets for mounting						1.22	1.20	1.08	.93



OMRON G6J-Y SERIES: 1A DPDT ULTRA-COMPACT LOW SIGNAL RELAYS

Specifications:

- Rated load: 0.3A @ 125VAC, 1A @ 30VDC
- Non-latching
- Contact resistance: 100mΩ max.
- Contact material: Ag (Au Clad)

Features:

- Slim design provides a mounting area reduction
- Dielectric strength of 1500VAC and an impulse withstand voltage of 2500V for 2x10μs which conforms to Telcordia specifications (formerly Bellcore)
- Conforms to FCC Part 68 requirements (1500V, 10x160μs)



MOUSER STOCK NO.	Omron Part No.	Fig.	Rated Current (mA)	Coil Resistance (Ω)	Coil Voltage (VDC)	Terminal Type	Price Each			
							1	25	50	100
653-G6J-2P-Y-DC3	G6J-2P-Y-DC3	E	48.0	62.5	3	Thru-hole	2.98	2.71	2.48	2.29
653-G6J-2P-Y-DC4.5	G6J-2P-Y-DC4.5	E	32.6	137.9	4.5	Thru-hole	3.65	3.28	2.92	2.63
653-G6J-2P-Y-DC5	G6J-2P-Y-DC5	E	28.9	173.1	5	Thru-hole	3.38	3.09	2.76	2.55
653-G6J-2P-Y-DC12	G6J-2P-Y-DC12	E	12.3	976.8	12	Thru-hole	2.72	2.63	2.53	2.44
653-G6J-2P-Y-DC24	G6J-2P-Y-DC24	E	9.2	2600.5	24	Thru-hole	4.77	4.28	3.81	3.43
653-G6J-2FS-Y-DC3	G6J-2FS-Y-DC3	F	48.0	62.5	3	SMT Short leads	3.72	3.34	2.97	2.68
653-G6J-2FS-Y-DC5	G6J-2FS-Y-DC5	F	28.9	173.1	5	SMT Short leads	2.67	2.58	2.49	2.37
653-G6J-2FS-Y-DC12	G6J-2FS-Y-DC12	F	12.3	976.8	12	SMT Short leads	3.47	3.35	3.23	3.11
653-G6J-2FS-Y-DC24	G6J-2FS-Y-DC24	F	9.2	2600.5	24	SMT Short leads	4.77	4.28	3.81	3.43
653-G6J-2FL-Y-DC4.5	G6J-2FL-Y-DC4.5	F	32.6	137.9	4.5	SMD Gull-wing	3.72	3.34	2.97	2.68
653-G6J-2FL-Y-DC5	G6J-2FL-Y-DC5	F	28.9	173.1	5	SMD Gull-wing	2.97	2.79	2.64	2.50

