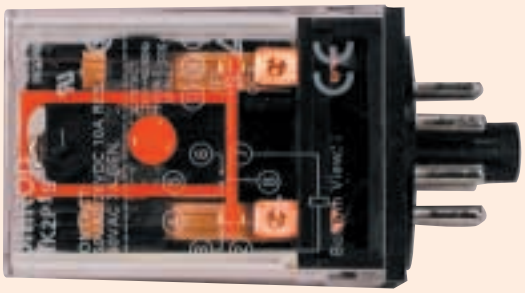
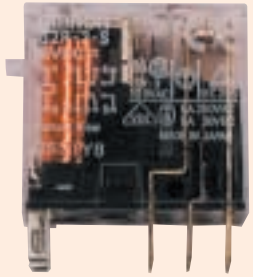
General Purpose Relays

Appearance	Max. load	Contact form	Terminal choices	Features	Approved standards
MY 	5 A at 250 VAC/ 30 VDC (2-pole); 3 A at 250 VAC/ 30 VDC (4-pole)	2 Form C 4 Form C	Plug-in, PCB terminals	Ideal for sequence control and power switching applications White label for customer use and indicator standard Variations include push-to-test, LED and bifurcated contacts, flange mounting	UL, CSA, SEV, CE, VDE
LY 	15 A at 110 VAC/ 24 VDC (1-pole); 10 A at 110 VAC/ 24 VDC (2-, 3-, and 4-pole)	1 Form C 2 Form C 3 Form C 4 Form C	Track mounted sockets, plug-in, PCB terminal	Arc barrier equipped High dielectric strength Options include bifurcated contacts, LED indicator, push-to-test button, and diode surge suppression UL _ hp rating (1- and 2-pole)	UL, CSA, SEV, CE, VDE
MK 	10 A at 250 VAC/ 28 VDC (2- and 3-pole)	2 Form C 3 Form C	Octal base plug-in	Exceptionally reliable Built-in operation indicator, Diode surge suppression, Varistor surge suppression Push-to-test button option available	UL, CSA, TUV, VDE
MJN 	10 A at 250 VAC/ 28 VDC (2-pole and 3-pole)	1 Form A 2 Form C 3 Form C	Quick connect	Contact spacing prevents arcing: 3/16” through air and 3/8” over surface UL/CSA rated for motor controllers at 600 VAC _ hp for 240/480/600 VAC	UL, CSA

Power PCB Relays

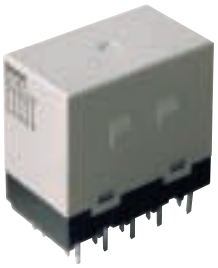
	Appearance	Max. load	Contact form	Terminal choices	Features	Approved standards
G2R		16 A at 250 VAC/ 30 VDC (high capacity); 10 A at 250 VAC/ 30 VDC (general purpose 1-pole); 5 A at 25 0 VAC/ 30 VDC (general purpose 2-pole)	1 Form A 1 Form C 2 Form A 2 Form C	Plug-in, quick-connect, PCB terminals	High dielectric withstand capability 8 mm coil/contact spacing to reduce arcing Class B insulation and push-to-test button are standard	UL, CSA, SEV, SEKO, VDE, TUV
G8PT		30 A at 250 VAC, 20 A at 28 VDC	1 Form A 1 Form C	PCB terminal; PCB + quick-connect; flange mount quick-connect	Heavy duty sealed and open frame versions UL Class F insulation standard Flange mount versions available	UL, CSA

Large General-purpose and Power Relays

Omron offers a wide range of relays for heavy duty load switching.

G7L High Power Relay

- Wide 3 mm contact gap reduces arcing
- Conforms to IEC 950/ UL 1950
- 1 Form A contact, 30 A, 250 VAC
- 2 Form A contact, 25 A, 250 VAC
- UL, CSA, VDE, CE



G7J Mini Contactor

- Ideal for 3-phase motor control
- DIN rail mountable
- 4 Form A, 3 Form A+1 Form B, 2 Form A+2 Form B contacts
- 25 A (NO contacts), 8 A (NC contacts) at 250 VAC, 125 VDC
- UL, CSA, TUV, CE

MGN High-Temperature Relay

- Open frame and Class F insulation for 155°C
- 1 Form A, 1 Form C, 1 Form X, 1 Form B, 2 Form A, 2 Form C contacts
- 30 A at 240 VAC, 28 VDC
- UL, CSA

MY4H Hermetically Sealed Relay

- 4 Form C contacts
- Meets Class 1, Div. 2 of UL1604 for use in hazardous environments
- Sealed to eliminate arcing
- Use in flammable or combustible environments
- UL, CSA (UL508)

Sockets and Accessories

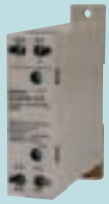
- DIN track or flush mounting sockets
- Finger-protected terminals for CE
- Hold-down clips, heat sinks and more

Sockets and Accessories	
G7J	R99-04 “W” brackets for screw terminal types
G7L	R99-07G5D “E” brackets for screw & quick-connect terminal types; P7LF-D; P7LF-06
LY	PTF08A-E; PT08; PT08QN; PT08-0; PTF11A; PT11; PT11QN; PT11-0; PTF14A-E; PT14; PT14QN; PT14-0
MGN	None
MJN	PTF11PC; PTF21PC; PTF11QDC; PTFPCB
MK	PF083A-E; PF113A-E; PL08; PL08-Q; PLE08-0; PL11; PL11Q; PLE11-Q
MY	PYF08A-E, PYF14A-E; PY08; PY08-Y1; PY08-02; PY14; PY14-Y1; PY14-02; PYF08S; PYF14S
G2R	P2RF-05-E; P2RF-08-E; P2R-05P; P2R-08P; P2R-05A; P2R-08A
G3NA	Y92B-N150; Y92B-A100; Y92B-A150; Y92B-A250 Heat sinks
G3NE	Y92B-N50; Y92N-A100 Heat sinks
G3R I/O	P2RF-05-E
G3TB	None

Industrial Solid State Relays

	G3NA	G3PA	G3PB
Dimensions mm (in)	Consult Omron for specific model dimensions	Consult Omron for specific model dimensions	Consult Omron for specific model dimensions
Switching current range	10 A, 25 A, 40 A	10 A to 50 A	15 A to 45 A
Features	Industry standard footprint; Ideal for industrial controls; LED indicator and finger protection cover standard features	Single-phase; Replaceable power element cartridges; Integrated heat sink; LED indicator and finger protection cover standard features	Available in single-phase or three-phase; Integrated heat sink; LED indicator and finger protection cover standard features; DIN rail or panel mountable; Available in 240 VAC or 480 VAC outputs
Operating input	4 to 32 VDC	4 to 30 VDC / 19.2 to 26.4 VAC	9.6 to 30 VDC
Dielectric strength	2,500 VAC; 50/60 Hz for 1 min.	4,000 VAC; 50/60 Hz for 1 min.	2,500 VAC; 50/60 Hz for 1 min.
Zero crossing	Yes	Yes	Yes
Isolation	Phototriac and Photocoupler available	Phototriac	Phototriac
Snubber circuit	Yes	Yes	Yes
Life expectancy (MTTF)	100,000 hours	100,000 hours	100,000 hours
Mounting	DIN rail and panel	DIN rail and panel	DIN rail and panel
Termination	Screw	Screw	Screw
Optional heat sink available	Yes	Integrated heat sink	Integrated heat sink
Safety approvals	CE, UL, CSA, VDE	CE, UL, CSA, VDE	CE, UL, CSA, VDE

Industrial Solid State Relays

			
	G3PC	**G3PX Power Controller**	**G32A Cycle Control Unit**
Dimensions mm (in)	Consult Omron for specific model dimensions	Consult Omron for specific model dimensions	Consult Omron for specific model dimensions
Switching current range	20 A	20 A, 40 A, 60 A	–
Features	Available in single-phase; Alarm output for NPN/PNP-input devices; SSR short-circuit and SSR open-circuit detection; Integrated heat sink; LED indicator and finger protection cover standard features; DIN rail or panel mountable	Single-phase applications only; Duty adjuster for internal stop setting; Time adjuster for extended soft-start time; Open indicator for single heater burnout detection; Short indicator for single short-mode failure detection; Resettable after short-mode has been corrected; Replaceable power device cartridge	Can be used to connect G3PA's for either single-phase or three-phase applications (2 G3PA's max.); Can be used with all Omron temperature controllers; Cycle control setting; Built-in isolation transformer
Operating input	9.6 to 30 VDC	Either 100/110 VAC or 200/230 VAC	100 to 240 VAC
Dielectric strength	2,500 VAC; 50/60 Hz for 1 min.	2,000 VAC; 50/60 Hz for 1 min.	1,500 VAC; 50/60 Hz for 1 min. (between AC power supply and input/output terminals)
Zero crossing	Yes	–	–
Isolation	Phototriac	–	–
Snubber circuit	Yes	–	–
Life expectancy (MTTF)	100,000 hours	100,000 hours	100,000 hours
Mounting	DIN rail and panel	DIN rail and panel	DIN rail and panel
Termination	Screw	Screw	Screw
Optional heat sink available	Integrated heat sink	Integrated heat sink	–
Safety approvals	CE, UL, CSA, VDE	UL, CSA	UL, CSA