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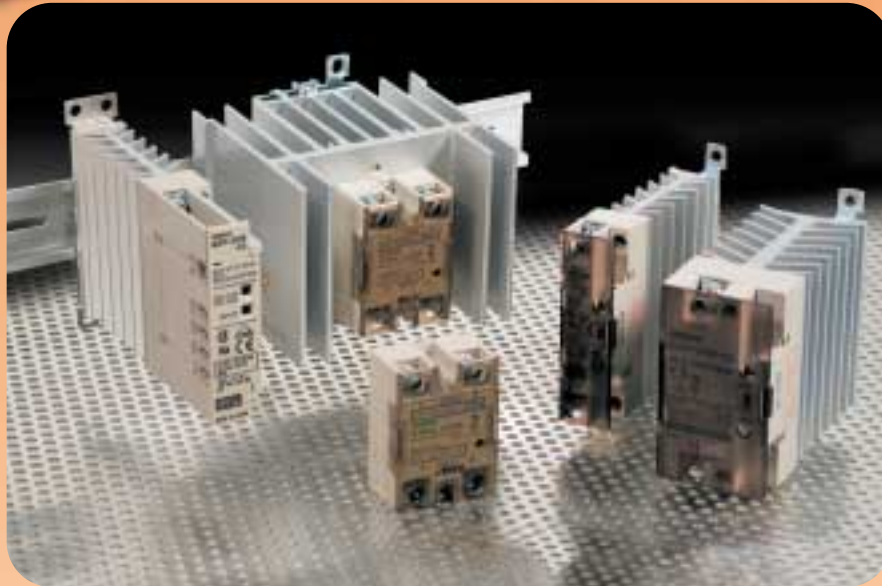
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Solid State Relays

OMRON
the problem solvers™

Reliable Solutions for Industrial Control



Maximize Uptime in Tough Applications

Take advantage of Solid State Relay's (SSR's) long service life and fast response times for your process control applications. Omron offers industry-standard models as well as slim track-mount models with built-in heat sinks. They are in stock, ready to support your installation, whether it's HVAC, motion control, machine tools, or process and temperature control.

Partner with a Relay Leader

Omron leads the world in relay production and quality, assuring reliable performance and ready stock wherever you manufacture. Our global network of sales and technical support can also provide you sensors, switches, safety products, programmable controllers and full integration and training services. Our SSRs conform to UL, CSA and CE requirements.

Three Outstanding SSR Families

G3NA



- Industry-standard foot print
- Same compact dimensions for all models
- Available with input voltages of 5-24 VDC or 100-120 VAC
- Rated output load of 24 to 240 VAC
- Operation indicator allows monitoring of operation
- Zero-crossing function minimizes inrush loads
- Separate heat sinks available to maximize performance
- 43 W x 58 D x 27 H mm

G3PB



- Space-saving 3-phase output SSRs in 100-240 VAC and 200-480 VAC load voltage ranges
- Built-in heat sink increases life and reliability
- Voltage turn-on at zero crossing reduces initial inrush load currents
- LED indicator turns on when control power is applied
- Mounts on DIN rail
- 80 W x 140 H x 150.5 D mm max.

G3PC



- Failure detection alarm signal protects machine from a fire hazard
- Alarm does not require a separate current transformer and reduces maintenance and troubleshooting
- Built-in heat sink increases life and reliability
- Ideal for plastic molding machines, packing/sealing machines, semiconductor processing equipment
- Slim housing mounts on DIN rail
- 100 H x 22.5 W x 130 D mm

SSR Advantages at a Glance

Compare performance between SSRs and electromechanical relays (EMR), and you discover SSRs are ideal for high-frequency load switching with great accuracy.

Advantages	SSR	EMR
Life Expectancy	Very High	High
Contact Bounce	None	Yes
EMI Noise Reduction	Very Good	Not Good
Response Speed	Very Fast	Slow
High Inrush Current Capability	Very Good	Poor

Ordering Information

G3NA



G3PB



G3PC



Solid State Relays

Max. load current with heat sink	Max. load current with-out heat sink	Max. inrush current	Operating voltage	Load voltage	Part number
Compact 3-phase SSRs with built-in heat sinks, 2 poles					
15 A	–	150 A, 60 Hz	12-24 VDC	100-240 VAC	G3PB-215B-VD DC12-24V
25 A	–	220 A, 60 Hz			G3PB-225B-VD DC12-24V
35 A	–	440 A, 60 Hz			G3PB-235B-VD DC12-24V
45 A	–	440 A, 60 Hz			G3PB-245B-VD DC12-24V
15 A	–	220 A, 60 Hz	12-24 VDC	200-480 VAC	G3PB-515B-2N-VD DC12-24V
25 A	–	220 A, 60 Hz			G3PB-525B-2N-VD DC12-24V
35 A	–	440 A, 60 Hz			G3PB-535B-2N-VD DC12-24V
45 A	–	440 A, 60 Hz			G3PB-545B-2N-VD DC12-24V
Compact 3-phase SSRs with built-in heat sinks, 3 poles					
15 A	–	220 A, 60 Hz	12-24 VDC	200-480 VAC	G3PB-515B-3N-VD DC12-24V
25 A	–	220 A, 60 Hz			G3PB-525B-3N-VD DC12-24V
35 A	–	440 A, 60 Hz			G3PB-535B-3N-VD DC12-24V
45 A	–	440 A, 60 Hz			G3PB-545B-3N-VD DC12-24V
Compact SSR with failure detection alarm output and built-in heat sink					
20 A	–	220 A, 60 Hz	12-24 VDC	100-240 VAC	G3PC-202B-VD DC12-24V
Industry standard models					
10 A	4 A	150 A, 60 Hz	100-240 VAC	24-240 VAC	G3NA-210B AC100-240V
			5-24 VDC		G3NA-210B DC5-24V
25 A	4 A	220 A, 60 Hz	100-240 VAC		G3NA-225B AC100-240V
			5-24 VDC		G3NA-225B DC5-24V
40 A	6 A	220 A, 60 Hz	100-240 VAC		G3NA-240B AC100-240V
			5-24 VDC		G3NA-240B DC5-24V

Heat Sinks

Description	Applicable SSR	Part number
Heat sink, flush mount	G3NA-210B	Y92B-A100V
	G3NA-225B, G3NA-240B	Y92B-A150NV
Heat sink, track mount	G3NA-210B	Y92B-N50V
	G3NA-225B, G3NA-240B	Y92B-N150V

Mounting Track

Description	Applicable SSR	Part number
DIN rail track	0.5 m (1.64 ft) length	PFP-50M
	1 m (3.28 ft) length	PFP-100M

Omron offers SSRs with ratings to match your application. If you do not find it here, contact your local Omron representative.

OMRON
www.omron.com/oei

OMRON ELECTRONICS LLC
Industrial Automation Division
Schaumburg, IL

OMRON CANADA, INC.
Scarborough, Ontario

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