

Solid State Relays

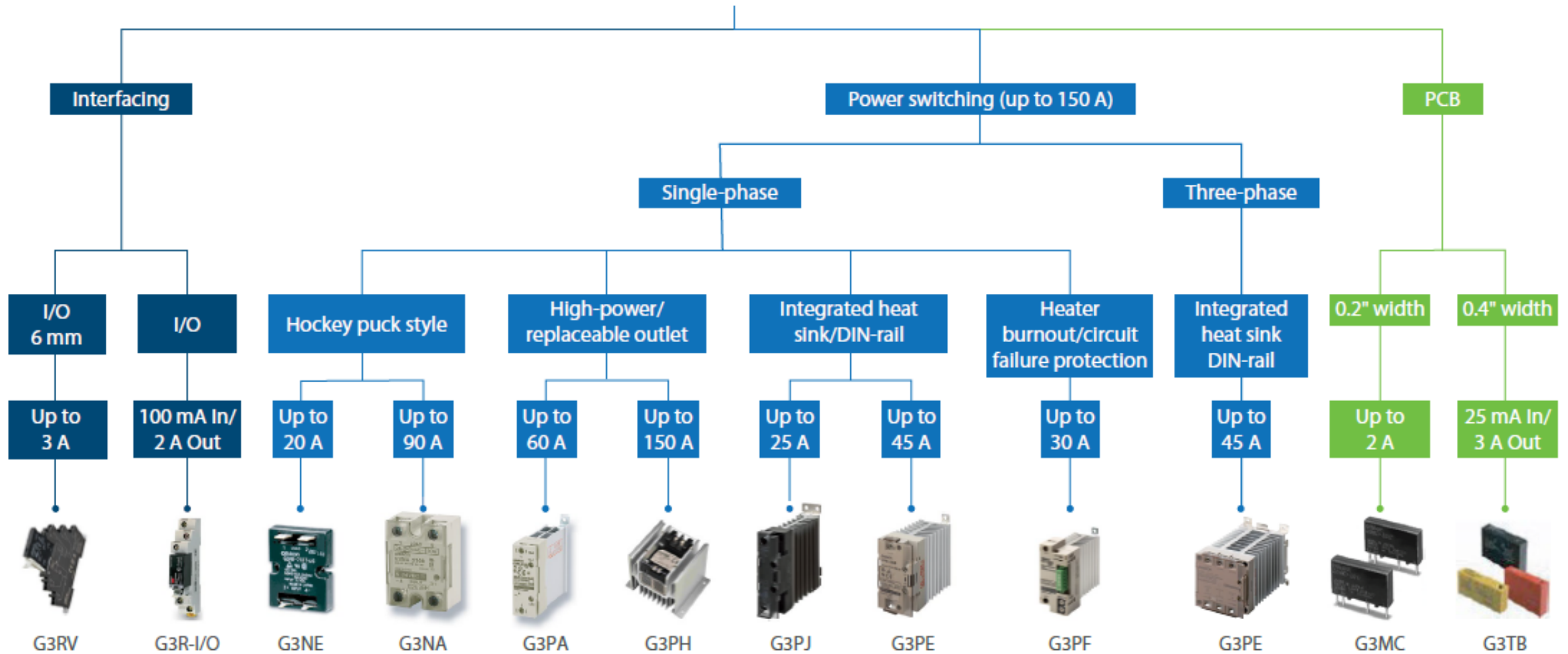
Omron relays are devices that switch electric circuits, driven by an operational signal which is triggered by electric input signal controlled by a switching device.



Solid State Relays

| Omron is the world's largest relay manufacturer and has been manufacturing relays for over 50 years

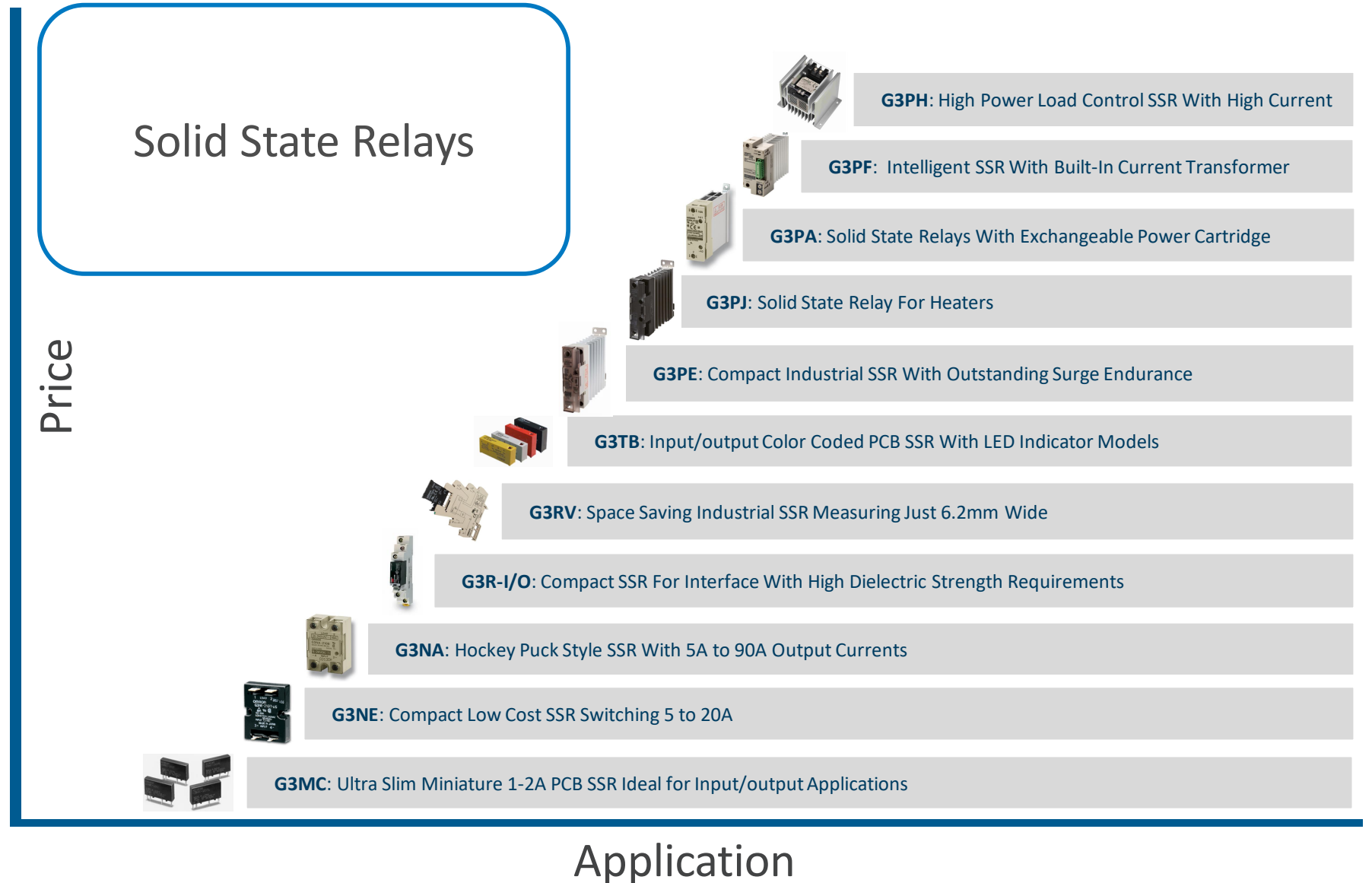
What type of relay is required?



Omron's Solid State Relay Portfolio

Making relays for over 50 years!

Omron Relay Portfolio

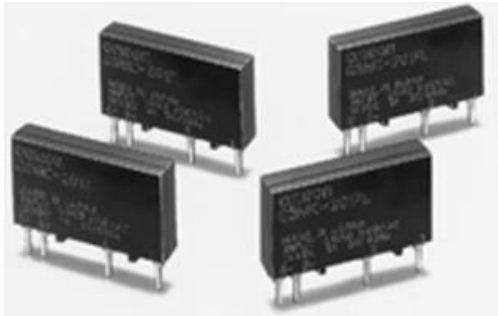




G3MC: Ultra Slim Miniature 1-2A PCB SSR Ideal for Input/output Applications

Specifications:

- PCB Mount AC Load Switching SSR With Width Less Than 0.2"
- G3MC Models occupy $< 1/3$ the area of G3M 3A Models
- Ideal for high density mounting occupying a space < 0.14 inches³
- Zero cross models ideal for minimizing input noise and surge
- All models RoHS Compliant



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Ultra Slim Miniature
PCB SSR



G3NE: Compact Low Cost SSR Switching 5 to 20A

Specifications:

- Wide Load Voltage Range: 75 to 264VAC
- 100V and 200V loads can be handled with the same model
- Dedicated, compact aluminum PCB and power elements are used
- Built-in varistor effectively absorbs external surges
- 5-20A output current
- Quick-connect 110V input and 250V output terminals



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Compact Low Cost SSR



G3NA: Hockey Puck Style SSR With 5A to 90A Output Currents

Specifications:

- Compact dimensions to provide a uniform mounting pitch
- Built-in varistor effectively absorbs external surges
- LED Operation indicator enables monitoring operation
- 5-90A output current
- 24-480VAC/5-200VDC output voltages
- Protective cover for greater safety



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Hockey Puck Style SSR



G3R-I/O: Compact SSR For Interface With High Dielectric Strength Requirements

Specifications:

- 1.5 and 2A output current
- 5 to 200VDC/100 to 240VAC output voltages
- Compatible with G2RS electromechanical relays
- DIN-rail mounting via sockets
- Operation indicator to confirm input



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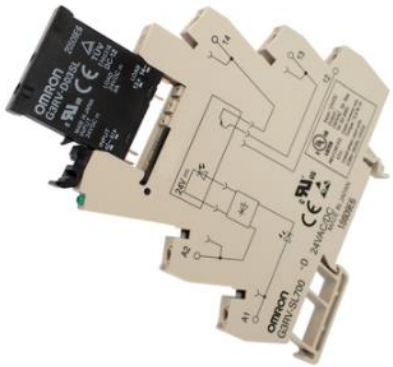
Compact SSR For
Dielectric Strength



G3RV: Space Saving Industrial SSR Measuring Just 6.2mm Wide

Specifications:

- Compact 8-relay SSR output blocks that measure 50mm for frequently switched loads
- SSR output blocks communicate directly to Omron PLCs and slice I/O systems via a PLC adapter
- Class I Div 2 rated models support space-saving control panels used in hazardous environments
- DC output models use MOSFET to manage power switching for ideal heat dissipation
- LED indicator built in relay and socket
- Push-in terminals and accessories for easy wiring
- Large contact area with non-bendable pins



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Space Saving Industrial
SSR



G3TB: Input/output Color Coded PCB SSR With LED Indicator Models

Specifications:

- PCB mount input/output SSR with width less than 0.4"
- Colors assigned to AC input, DC input, AC output, and DC output models to visually identify each relay type
- Models with LED indicator ideal for monitoring relay state
- Interface relay between PLC and Load with potential life > 10 years



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Color Coded PCB SSR



G3PE: Compact Industrial SSR With Outstanding Surge Endurance

Specifications:

- Single & Three Phase, 15-45A output current
- Features an original surge-pass circuit that gives outstanding surge endurance
- Protects the semiconductor device against voltages in excess of 30kV
- 100-240VAC and 200-480 VAC output voltages
- Models available without zero cross
- Improved surge dielectric strength for output circuits
- Terminal cover with finger protection
- Mount to DIN track or with screws



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Compact Industrial SSR



G3PJ: Solid State Relay For Heaters

Specifications:

- Single-phase SSR with low heat generation
- SCCR of 10 kA (UL 508)
- Surge pass protection improves surge dielectric strength for output currents
- Both push-in plus and screw terminal input terminals available
- Mount to DIN Track or with screws
- RoHS compliant



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Solid State Relay For
Heaters



G3PA: Solid State Relays With Exchangeable Power Cartridge

Specifications:

- Optimized heatsink design contributes to the reduced size
- Power cartridges are replaceable for easy maintenance
- Can be DIN-rail or screw mounted
- 10-60A output current
- 24-480VAC output voltages
- Applicable with 3-phase loads
- Replaceable power element cartridges
- All features can be delivered with or without heat sink

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Solid State Relay With
Exchangeable Cartridge



G3PF: Intelligent SSR With Built-In Current Transformer

Specifications:

- Quickly detects heater burnout and SSR short-circuit failure
- Information is provided to let you know which problem has occurred
- Ideal for applications where down time must be minimized
- Built-in Current Transformer (CT) helps reduce wiring steps
- Detects the burnout of any one of a group of heaters
- Detects the burnout of 3-phase heaters
- Detects SSR short-circuit failures
- Error detection level can be easily set with a switch
- Zero cross function
- Operation indicator



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Intelligent SSR With
Built-In Transformer



G3PH: High Power Load Control SSR With High Current

Specifications:

- Designed to switch heaters like alloyed metal heaters and lamp heaters
- Replaceable power cartridge to save on maintenance costs
- Easy-to-mount monoblock construction incorporates a heatsink
- 75 or 150 A; 240 or 480 VAC
- Built-in operation indicator
- Zero-cross and non zero-cross models available
- Surge-pass circuit



[Click on picture to link to datasheet](#)

High Power Load
Control SSR

Omron Relays

Omron is Your Trusted Partner for Industrial Automation Relays

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