

# Solid State Relays for Heaters

G3PJ

Providing Strong,  
Slim Alternatives for Control Panels

- Top-class slim design
- Better temperature characteristics and reinforced insulation for safety standard compliance
- Push-In Plus terminal blocks for easy wiring

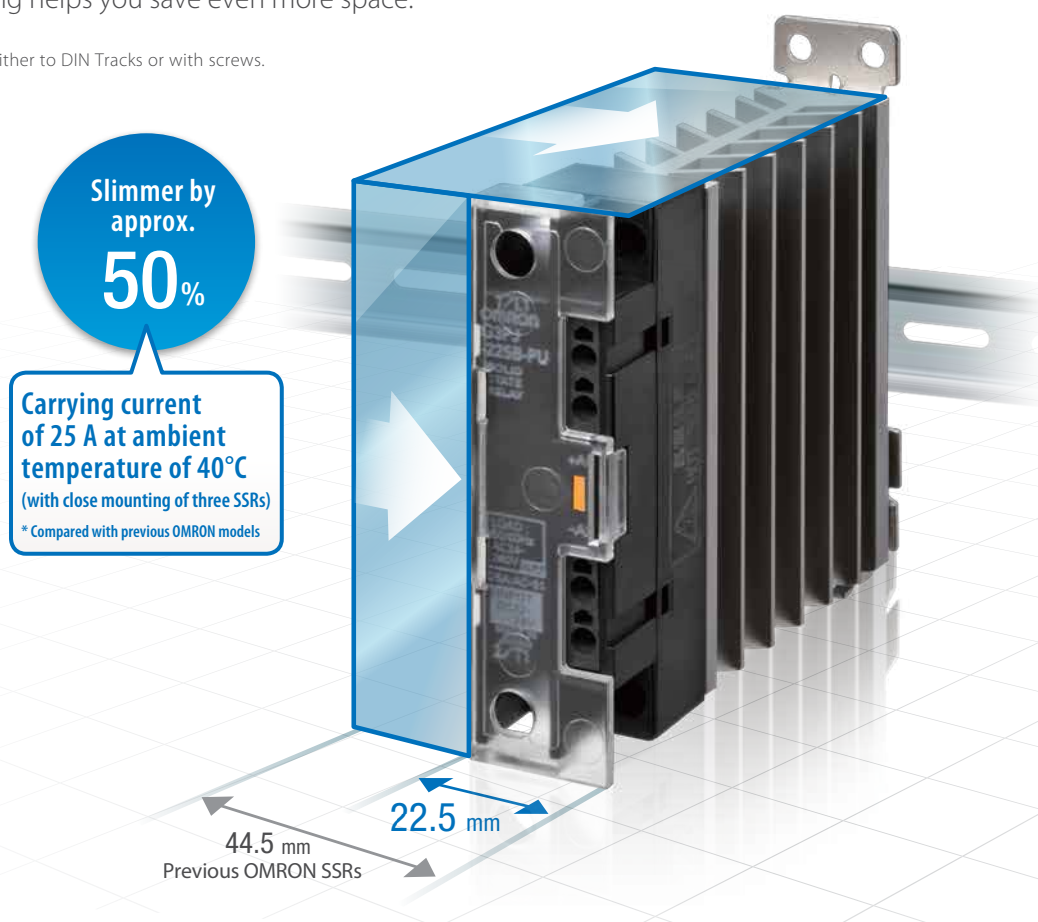
# Providing Strong, Slim Alternatives for Control Panels

## Easier Designing and Wiring While Maintaining the Previous 22.5-mm Width to Help Save Space

### Close Mounting Even with this Top-class Slim Design

Size reductions in Solid State Relays mean you can downsize control panels and cooling equipment. And close mounting helps you save even more space.

\*Mounted either to DIN Tracks or with screws.



## New Value For Control Panels

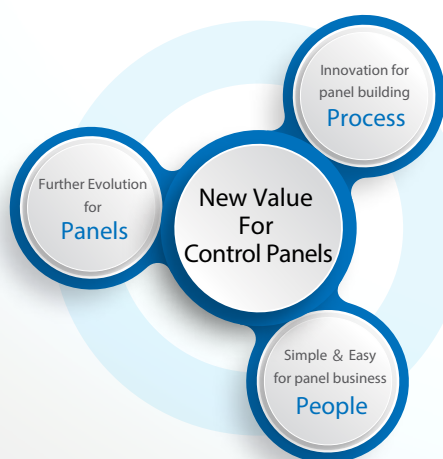


Our shared Value Design for Panel (herein after referred to as "Value Design") concept for the specifications of products used in control panels will create new value to our customer's control panels. Combining multiple products that share the Value Design concept will further increase the value provided to control panels.

Control Panels: The Heart of Manufacturing Sites.

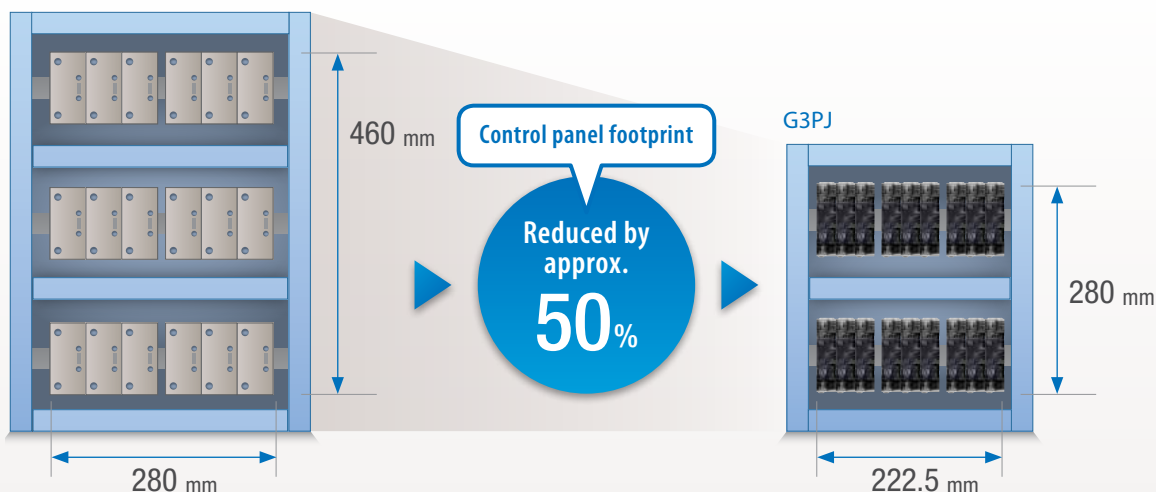
Evolution in control panels results in large evolution in production facilities.

And if control panel design, control panel manufacturing processes, and human interaction with them are innovated, control panel manufacturing becomes simpler and takes a leap forward. OMRON will continue to achieve a control panel evolution and process innovation through many undertakings starting with the shared Value Design for Panel concept for the specifications of products used in control panels.



## Control Panels That Use Many SSRs Can Be Greatly Downsized

Previous OMRON SSRs



Example: Installation of 18 SSRs constituted for three-phase heaters (6 channels)

## Better Temperature Characteristics and Reinforced Insulation for Safety Standard Compliance

UL-listed components, so you can reduce the time required for the UL application process.

- You can use new components or upgraded components at any time.
- You can procure the components even when an urgent need arises for adjustments or problem-solving.



## Push-In Plus Terminal Blocks for Easy Wiring

Just Insert Wires: No Tools Required

Now you can use Push-In Plus terminals to reduce the time and work involved in wiring.

### Double Wiring

Easy crossover wiring for three-phase heaters.

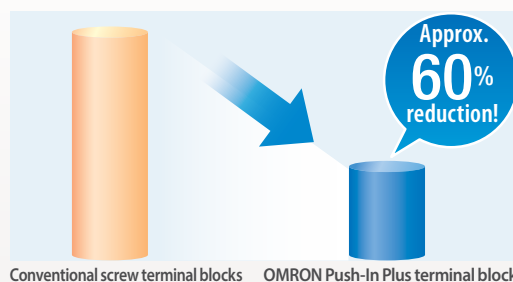


### Push-In Plus Terminal Block

Less work required for wiring.

\*SSRs are also available with screw terminals for inputs.


\*Only input terminals use Push-In Plus terminal blocks.



\*Information for Push-In Plus and screw terminal blocks is based on OMRON's actual measurement value data.



## Product Lineup

Model	Input voltage	Rated load voltage	Rated load current (ambient temperature of 40°C)		Surge current resistivity (I <sup>2</sup> t)	SCCR(UL 508)	Dielectric strength	Input terminal form*
			Close mounting (three SSRs)	Separate mounting				
 G3PJ-215B-PU	12 to 24 VDC	24 to 240 VAC	15 A	18 A	260A <sup>2</sup> s	10 kA	2.5 kV	Push-In Plus terminal block
G3PJ-225B-PU			25 A	27 A	1,260A <sup>2</sup> s		4.0 kV	
G3PJ-515B-PU		100 to 480 VAC	15 A	23 A	1,350A <sup>2</sup> s		2.5 kV	Screw terminals
G3PJ-525B-PU			25 A	27 A	6,600A <sup>2</sup> s		4.0 kV	
G3PJ-215B		24 to 240 VAC	15 A	18 A	260A <sup>2</sup> s		2.5 kV	
G3PJ-225B			25 A	27 A	1,260A <sup>2</sup> s		4.0 kV	
G3PJ-515B		100 to 480 VAC	15 A	23 A	1,350A <sup>2</sup> s		2.5 kV	
G3PJ-525B			25 A	27 A	6,600A <sup>2</sup> s		4.0 kV	

\*M4 screws are used for the output terminals.

Refer to the G3PJ Solid State Relays for Heaters Datasheet (Cat. No. J210) for details.

## Products That Create New Value in Control Panels





Switch Mode Power Supplies S8VK-S



Uninterruptible Power Supply (UPS) S8BA



Power Monitors KM-N2/KM-N3



Measuring and Monitoring Relays K8DT



Solid-state Timers H3DT



Solid-state Timers H3Y(N)-B



Solid-state Timers H3RN-B



Liquid Leakage Sensor Amplifiers K7L-B



Sockets for Relays with Forcibly Guided Contacts (for G7SA) P7SA-PU



Common Sockets (for MY/H3Y(N)-B) PYF-PU(-L)



Common Sockets (for G2R-S/H3RN-B/K7L-B) P2RF-PU



Slim I/O Relays G2RV-SR



Slim I/O Relays G3RV-SR



I/O Relay Terminals G70V



Pushbutton Switches Push-In Plus Terminal Block Series A22N-P/A30N-P/M22N-P



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DIN Track Terminal Block XW5T



Digital Temperature Controllers E5CC-B/E5EC-B

Panel Assist Web

[www.ia.omron.com/solution/panel/](http://www.ia.omron.com/solution/panel/)





Innovation in Control Panel Building  
Cat. No. Y218

Before you place an order, please read and understand "Agreement for Using the Product" available on Omron's latest "Best control devices Omron", "General Brochure" or Omron's website.

**OMRON Corporation** Industrial Automation Company  
Kyoto, JAPAN

Contact: [www.ia.omron.com](http://www.ia.omron.com)

### Regional Headquarters

**OMRON EUROPE B.V.**  
Wegalaan 67-69, 2132 JD Hoofddorp  
The Netherlands  
Tel: (31) 2356-81-300/Fax: (31) 2356-81-388

### OMRON ASIA PACIFIC PTE. LTD.

No. 438A Alexandra Road # 05-05/08 (Lobby 2),  
Alexandra Technopark,  
Singapore 119967  
Tel: (65) 6835-3011/Fax: (65) 6835-2711

### OMRON ELECTRONICS LLC

2895 Greenspoint Parkway, Suite 200  
Hoffman Estates, IL 60169 U.S.A.  
Tel: (1) 847-843-7900/Fax: (1) 847-843-7787

### OMRON (CHINA) CO., LTD.

Room 2211, Bank of China Tower,  
200 Yin Cheng Zhong Road,  
PuDong New Area, Shanghai, 200120, China  
Tel: (86) 21-5037-2222/Fax: (86) 21-5037-2200

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