

Discontinuation Notice of G3PA series. (For OEE area only)

Product Discontinuation

Solid State Relays
Model G3PA series



Power Device Cartridge
Model G32A-A series

Recommended Replacement

Solid State Relays for Heaters
Model G3PJ or
No recommended replacement

No recommended replacement

[Final order entry date]

The end of March, 2017

[Date of The Last Shipping]

The end of April, 2017

[Difference from discontinued product]

Recommended replacement Model	Body Color	Dimensions	Wire connection	Mounting Dimensions	Characteristics	Operation ratings	Operation methods
Model G3PJ series	--	--	**	*	--	--	--

** : Compatible

* : The change is a little/Almost compatible



-- : Not compatible

- : No corresponding specification

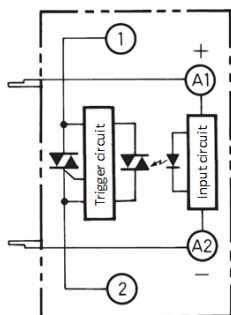
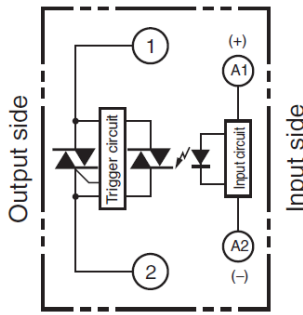
[Product Discontinuation and recommended replacement]

Product discontinuation	Recommended replacement
G3PA-210B-VD AC24	No recommended replacement
G3PA-210B-VD DC5-24	G3PJ-215B DC12-24
G3PA-210B-VD-2S	No recommended replacement
G3PA-210BL-VD DC5-24	No recommended replacement
G3PA-220B-VD AC24	No recommended replacement
G3PA-220B-VD DC5-24	G3PJ-225B DC12-24
G3PA-220B-VD-2S	No recommended replacement
G3PA-220BL-VD DC5-24	No recommended replacement
G32A-A10-VD AC24	No recommended replacement
G32A-A10-VD DC5-24	No recommended replacement
G32A-A20-VD AC24	No recommended replacement
G32A-A20-VD DC5-24	No recommended replacement

[Body color]

Product discontinuation Model G3PA	Recommendable replacement Model G3PJ
	

[Wire connection]

Product discontinuation Model G3PA	Recommendable replacement Model G3PJ
	

[Dimensions / Mounting dimensions]

<p>Product discontinuation Model G3PA</p>	<p>Recommendable replacement Model G3PJ</p>
<p>G3PA-210B(L)-VD</p> <p>Without Terminal Cover</p> <p>With Terminal Cover</p> <p>Mounting Holes</p> <p>Two, 4.5 dia. or M4 holes</p>	<p>G3PJ-215B, 225B</p> <p>Note: Without terminal cover.</p> <p>Note: With terminal cover.</p> <p>Mounting Holes</p>
<p>G3PA-220B(L)-VD</p> <p>Without Terminal Cover</p> <p>With Terminal Cover</p> <p>Mounting Holes</p> <p>Two, 4.5 dia. or M4 holes</p>	<p>Mounting Holes</p>

[Ratings]

Item	Product discontinuation Model G3PA	Recommendable replacement Model G3PJ
Input (at an Ambient Temperature of 25°C)		
Rated voltage	5 to 24 VDC 24 VAC	12 to 24 VDC
Operating Voltage range	4 to 30 VDC 19.2 to 26.4 VAC	9.6 to 30 VDC
Input current impedance	7 mA max. 1.4 kΩ±20%	7 mA max.
Must operate voltage	4.0 VDC max. 19.2 VAC max.	9.6 VDC max.
Must release voltage	1.0 VDC min. 4.8 VAC min.	1.0 VDC min.
Output		
Rated load voltage	24 to 240 VAC (50/60 Hz)	24 to 240 VAC 50/60 Hz
Load voltage range	19 to 264 VAC (50/60 Hz)	19 to 264 VAC 50/60 Hz
Load current	G3PA-210B(L)-VD 0.1 to 10 A at 40°C G3PA-220B(L)-VD 0.1 to 20 A at 40°C	G3PJ-215B Close mounting *: 15 A, Separate mounting: 18 A G3PJ-225B Close mounting *: 25 A, Separate mounting: 27 A * For close mounting of three SSRs.
Inrush current	G3PA-210B(L)-VD 150 A (60 Hz, 1 cycle) G3PA-220B(L)-VD 220 A (60 Hz, 1 cycle)	G3PJ-215B 150 A (60 Hz, 1 cycle) G3PJ-225B 220 A (60 Hz, 1 cycle)
I²t	G3PA-210B(L)-VD 260A ² s G3PA-220B(L)-VD 1,260A ² s	G3PJ-215B 260A ² s G3PJ-225B 1,260A ² s

[Characteristics]

G3PA

Item	G3PA-210B(L)-VD	G3PA-220B(L)-VD
Operate time	1/2 of load power source cycle + 1 ms max. (DC Input, -B models) 1 1/2 of load power source cycle + 1 ms max. (AC Input) 1 ms max. (-BL models)	
Release time	1/2 of load power source cycle + 1 ms max. (DC Input) 1 1/2 of load power source cycle + 1 ms max. (AC Input)	
Output ON voltage drop	1.6 V (RMS) max.	
Leakage current	5 mA max. (at 100 VAC) 10 mA max. (at 200 VAC)	
I²t	260 A ² s	
Insulation resistance	100 MΩ min. (at 500 VDC)	
Dielectric strength	4,000 VAC, 50/60 Hz for 1 min	
Vibration resistance	Destruction: 10 to 55 to 10 Hz, 0.375-mm single amplitude (Mounted to DIN track)	
Shock resistance	Destruction: 300 m/s ² (mounted to DIN track)	
Ambient temperature	Operating: -30°C to 80°C (with no icing or condensation) Storage: -30°C to 100°C (with no icing or condensation)	
Certified standards	UL508 CSA C22.2 (No.14, No.950) EN60950-1 File No.5915ÜG	
EMC	Emission: EN55011 Group 1 Class A Immunity: EN61000-6-2	
Ambient humidity	Operating: 45% to 85%	
Weight	Approx. 260 g	Approx. 340 g

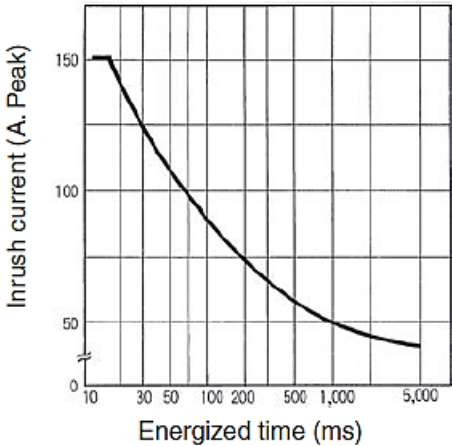
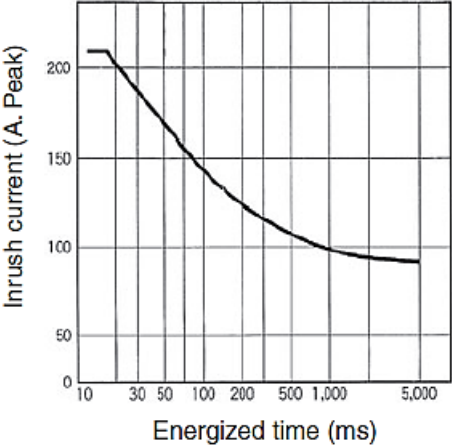
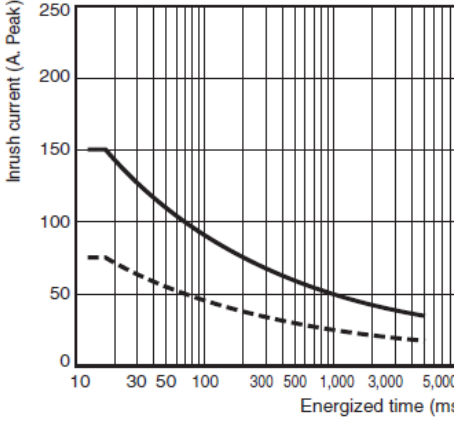
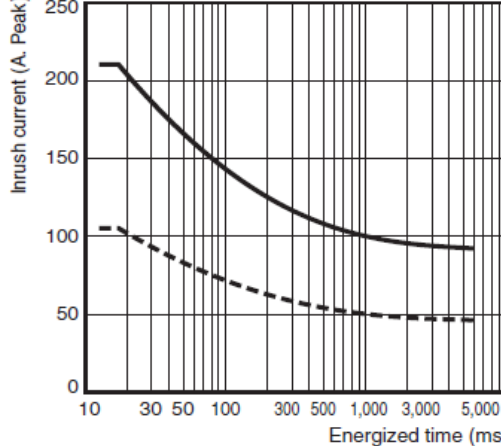
G3PJ

Item	G3PJ
Operate time	1/2 of load power source cycle + 1 ms max. Release time
Release time	1/2 of load power source cycle + 1 ms max. Release time
Output ON voltage drop	1.6 V (RMS) max.
Leakage current	10 mA max. (at 240 VAC)
Insulation resistance	100 MΩ min. (at 500 VDC)
Dielectric strength	2,500 VAC 50/60 Hz for 1 min
Vibration resistance	10 to 55 to 10 Hz, 0.35 mm single amplitude (0.7 mm double amplitude) (Mounted to DIN track)
Shock resistance	Destruction: 300 m/s ² (mounted to DIN track)
Ambient storage temperature	-30°C to 100°C (with no icing or condensation)
Ambient operating temperature	-30°C to 80°C (with no icing or condensation)
Ambient operating humidity	Operating: 45% to 85%
Weight	Approx. 240 g

[Operation ratings]

<p align="center">Product discontinuation Model G3PA</p>	<p align="center">Recommendable replacement Model G3PJ</p>
<p>Input Voltage vs. Input Impedance and Input Voltage vs. Input Current</p>	<p>Input Voltage vs. Input Impedance and Input Voltage vs. Input Current</p>
<p>Load Current vs. Ambient Temperature</p> <p>For close mounting of two or three SSRs, limit the load current to 90% or less.</p>	<p>Load Current vs. Ambient Temperature</p> <p>Close Mounting of Eight SSRs</p>

[Operation ratings]

<p align="center">Product discontinuation Model G3PA</p>	<p align="center">Recommendable replacement Model G3PJ</p>
<p>Inrush Current Resistance: Non-repetitive Keep the inrush current to half the rated value if it occurs repetitively</p> <p>G3PA-210B(L)-VD</p>  <p>G3PA-220B(L)-VD</p> 	<p>Inrush Current Resistance: Non-repetitive Keep the inrush current to below the inrush current resistance value (i.e., below the broken line) if it occurs repetitively.</p> <p>G3PJ-215B</p>  <p>G3PJ-225B</p> 

[G32A-A Power Device Cartridge] Replacement Parts

The G32A-A Power Device Cartridge (a Triac Unit) can be replaced with a new one. When the temperature indicator has changed from pink to red, the triac circuitry may have malfunctioned possibly by an excessive flow of current, in which case, dismount the damaged cartridge for replacement.

The damaged cartridge can be replaced with a new one without disconnecting the wires from the G3PA.

Improve the heat radiation efficiency of the G3PA before replacing the cartridge.

The G32A-A Power Device Cartridge can withstand an excessive current for a short period of time, such as may be caused accidentally by the short circuiting of the load, in which case the temperature indicator will not turn red.

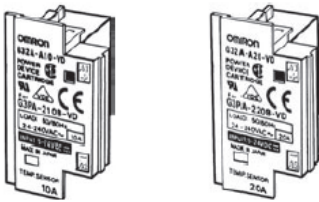
Be sure to turn OFF the power supply when replacing the Cartridge. Supplying power with the Cartridge removed may result in malfunction.

To remove or replace the Power Device Cartridge for the G3PA-210B-VD, G3PA-220B-VD, or G3PA-420B-VD(-2), use the special tool provided with it for extraction. (No special tool is required for other models.)

The G3PA can be broadly divided into two series: Previous models and models with model numbers that end with "-VD." The Cartridge shown at the right cannot be mounted to models in the G3PA-□□□B(-US) Series.

Appearance

G32A-A10(L)-VD G32A-A20(L)-VD



Specifications and prices in this product news are as of the issue date and are subject to change without notice. Only main changes in specifications are described in this document. Please be sure to read the relevant catalogs, datasheets, product specifications, instructions, and manuals for precautions and necessary information when using products.