

NO: RL-159 **PRODUCT:** G3PA SSRs, G32A Cartridges
DATE: January 2017 **TYPE:** Partial Discontinuation Notice

Select G3PA SSRs and G32A Cartridges to be Discontinued;
 Replace with G3PA-X or G3PJ Relays, G32A-A-X Cartridges

Last order date: end of February 2017
 Final ship date: end of March 2017

Affected Parts

Non-compliant with EN standard (no CE mark)

Product discontinuation	Recommended replacement
G3PA-210B-VD DC5-24	G3PA-210B-VD-X DC5-24
G3PA-220B-VD DC5-24	G3PA-220B-VD-X DC5-24
G32A-A10-VD DC5-24	G32A-A10-VD-X DC5-24
G32A-A20-VD DC5-24	G32A-A20-VD-X DC5-24
G3PA-210B-VD-2S	G3PA-210B-VD-X-2S
G3PA-220B-VD-2S	G3PA-220B-VD-X-2S

Refer to Pages 2-7.

Compliant with EN standard (CE mark)

Product discontinuation	Recommended replacement
G3PA-210B-VD DC5-24	G3PJ-215B DC12-24
G3PA-220B-VD DC5-24	G3PJ-225B DC12-24

Refer to Pages 8-13.

Cautions on Applying Replacements

Model G3PA-X series are not compliant with EN standard (CE mark).

Difference from discontinued product

The specification of G3PA -X series is same with G3PA series.
 The specification of G32A-A -X series is same with G32A-A series.
 These are only change of model number.

See the detail of differences on the following pages.





Detail of Differences

Reference Documentation

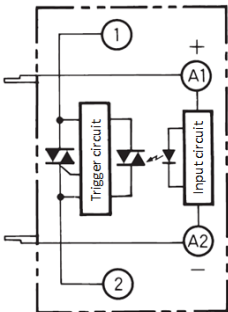
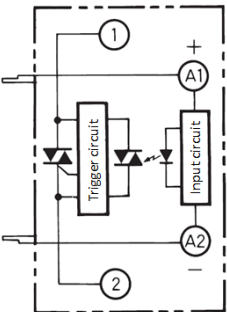
Description	Media	Publication number
G3PA SSR datasheet	PDF	J26I-E-02

Recommended product: Model G3PA-X series

Body color

Product discontinuation Model G3PA series	Recommended replacement Model G3PA-X series
	

Wiring diagram

Product discontinuation Model G3PA series	Recommended replacement Model G3PA-X series
	

Dimensions / Mounting dimensions

Product discontinuation Model G3PA series	Recommended replacement Model G3PA-X series
<p>G3PA-210B-VD</p> <p>Without Terminal Cover</p> <p>With Terminal Cover</p> <p>Mounting Holes</p>	<p>G3PA-210B-VD-X</p> <p>Without Terminal Cover</p> <p>With Terminal Cover</p> <p>Mounting Holes</p>
<p>G3PA-220B-VD</p> <p>Without Terminal Cover</p> <p>With Terminal Cover</p> <p>Mounting Holes</p>	<p>G3PA-220B-VD-X</p> <p>Without Terminal Cover</p> <p>With Terminal Cover</p> <p>Mounting Holes</p>

Ratings

Item	Product discontinuation Model G3PA series	Recommended replacement Model G3PA-X series
Input (at an Ambient Temperature of 25°C)		
Rated voltage	5 to 24 VDC	5 to 24 VDC
Operating Voltage range	4 to 30 VDC	4 to 30 VDC
Input current impedance	7 mA max.	7 mA max.
Must operate voltage	4.0 VDC max.	4.0 VDC max.
Must release voltage	1.0 VDC 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-VD 0.1 to 10 A at 40°C G3PA-220B-VD 0.1 to 20 A at 40°C	G3PA-210B-VD-X 0.1 to 10 A at 40°C G3PA-220B-VD-X 0.1 to 20 A at 40°C
Inrush current	G3PA-210B-VD 150 A (60 Hz, 1 cycle) G3PA-220B-VD 220 A (60 Hz, 1 cycle)	G3PA-210B-VD-X 150 A (60 Hz, 1 cycle) G3PA-220B-VD-X 220 A (60 Hz, 1 cycle)
I²t	G3PA-210B-VD 260A ² s G3PA-220B-VD 1,260A ² s	G3PA-210B-VD-X 260A ² s G3PA-220B-VD-X 1,260A ² s

Characteristics

G3PA series

Item	G3PA-210B-VD	G3PA-220B-VD
Operate time	1/2 of load power source cycle + 1 ms max.	
Release time	1/2 of load power source cycle + 1 ms max.	
Output ON voltage drop	1.6 V (RMS) max.	
Leakage current	5 mA max. (at 100 VAC) 10 mA max. (at 200 VAC)	
I^2t	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

G3PA-X series

Item	G3PA-210B-VD-X	G3PA-220B-VD-X
Operate time	1/2 of load power source cycle + 1 ms max.	
Release time	1/2 of load power source cycle + 1 ms max.	
Output ON voltage drop	1.6 V (RMS) max.	
Leakage current	5 mA max. (at 100 VAC) 10 mA max. (at 200 VAC)	
I^2t	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

Operation ratings

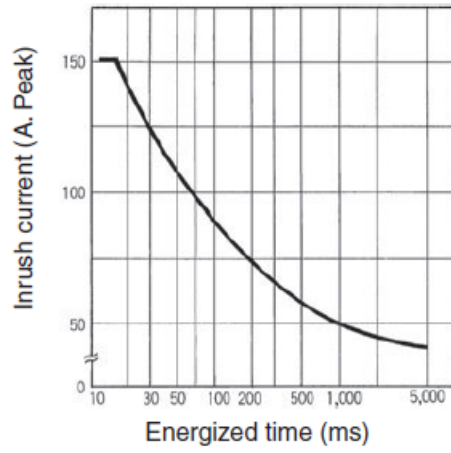
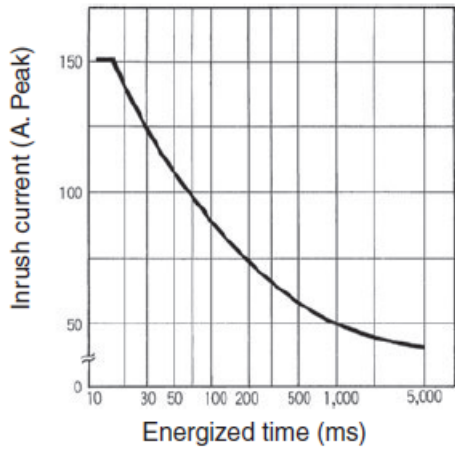
Product discontinuation Model G3PA series	Recommended replacement Model G3PA -X series
<p>Input Voltage vs. Input Impedance and Input Voltage vs. Input Current</p>	<p>Input Voltage vs. Input Impedance and Input Voltage vs. Input Current</p>
<p>Load Current vs. Ambient Temperature</p>	<p>Load Current vs. Ambient Temperature</p>
<p>For close mounting of two or three SSRs, limit the load current to 90% or less.</p> <p>Inrush Current Resistance: Non-repetitive Keep the inrush current to half the rated value if it occurs repetitively</p>	<p>For close mounting of two or three SSRs, limit the load current to 90% or less.</p> <p>Inrush Current Resistance: Non-repetitive Keep the inrush current to half the rated value if it occurs repetitively</p>

**Product discontinuation
Model G3PA series**

**Recommended replacement
Model G3PA -X series**

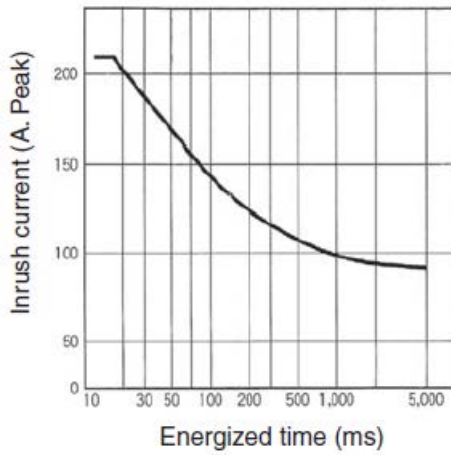
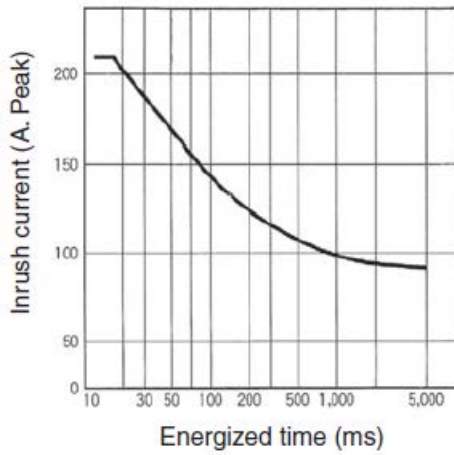
G3PA-210B-VD

G3PA-210B-VD-X





G3PA-220B-VD

G3PA-220B-VD-X

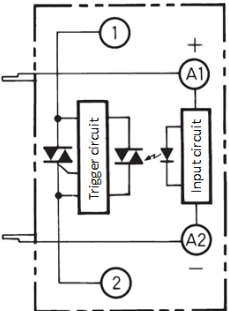
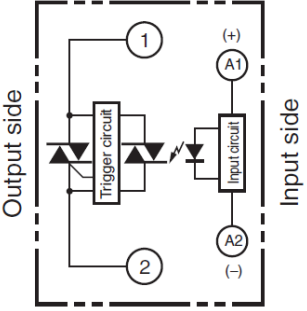


Recommended product: Model G3PJ series

Body color

Product discontinuation Model G3PA series	Recommended replacement Model G3PJ series
	

Wiring diagram

Product discontinuation Model G3PA series	Recommended replacement Model G3PJ series
	

Dimensions / Mounting dimensions

Product discontinuation Model G3PA series	Recommended replacement Model G3PJ series
<p>G3PA-210B(L)-VD</p> <p>Without Terminal Cover</p> <p>With Terminal Cover</p> <p>Mounting Holes</p>	<p>G3PJ-215B,225B</p> <p>Note: Without terminal cover.</p> <p>Note: With terminal cover.</p>
<p>G3PA-220B(L)-VD</p> <p>Without Terminal Cover</p> <p>With Terminal Cover</p> <p>Mounting Holes</p>	

Ratings

Item	Product discontinuation Model G3PA	Recommended replacement Model G3PJ
Input (at an Ambient Temperature of 25°C)		
Rated voltage	5 to 24 VDC	12 to 24 VDC
Operating Voltage range	4 to 30 VDC	9.6 to 30 VDC
Input current impedance	7 mA max.	7 mA max.
Must operate voltage	4.0 VDC max.	9.6 VDC max.
Must release voltage	1.0 VDC 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

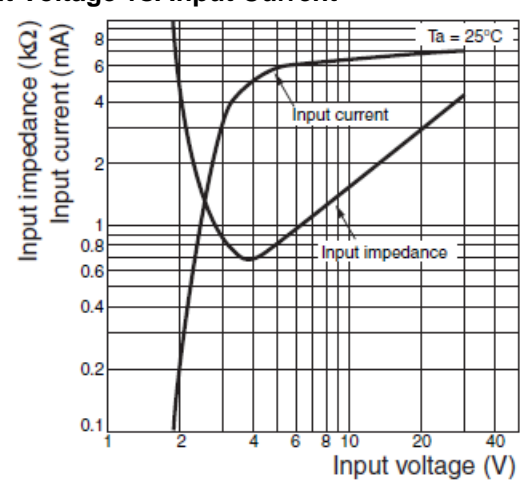
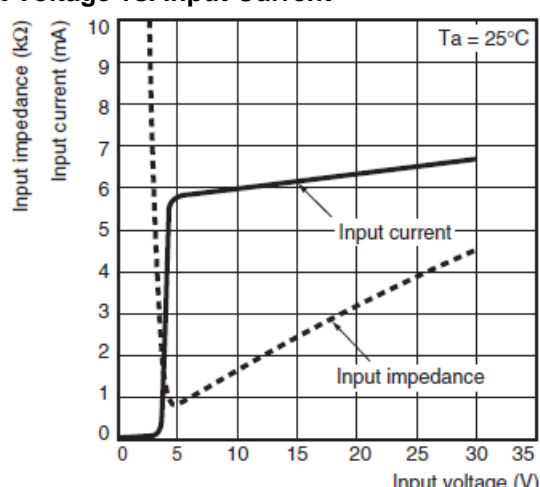
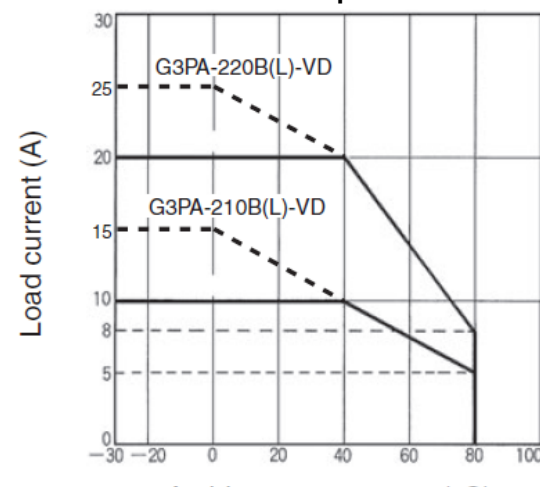
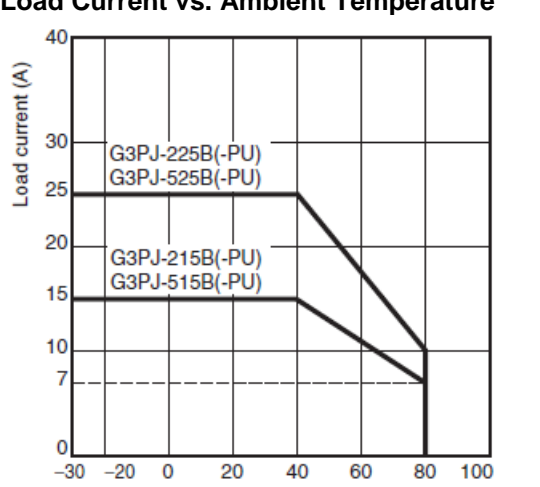
G3PA series

Item	G3PA-210B-VD	G3PA-220B-VD
Operate time	1/2 of load power source cycle + 1 ms max.	
Release time	1/2 of load power source cycle + 1 ms max.	
Output ON voltage drop	1.6 V (RMS) max.	
Leakage current	5 mA max. (at 100 VAC) 10 mA max. (at 200 VAC)	
I^2t	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 series

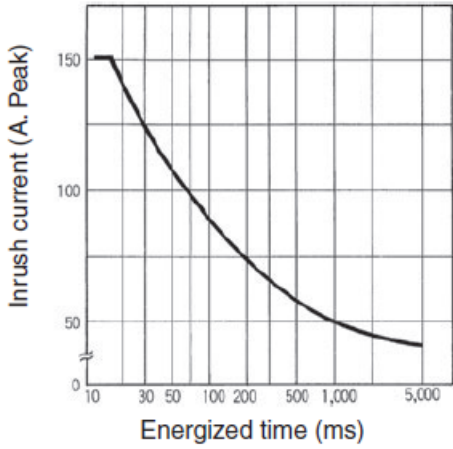
Item	G3PJ
Operate time	1/2 of load power source cycle + 1 ms max. Release time
Release time	1/2 of load power source cycle + 1 ms max. Release time
Output ON voltage drop	1.6 V (RMS) max.
Leakage current	10 mA max. (at 240 VAC)
Insulation resistance	100 MΩ min. (at 500 VDC)
Dielectric strength	2,500 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

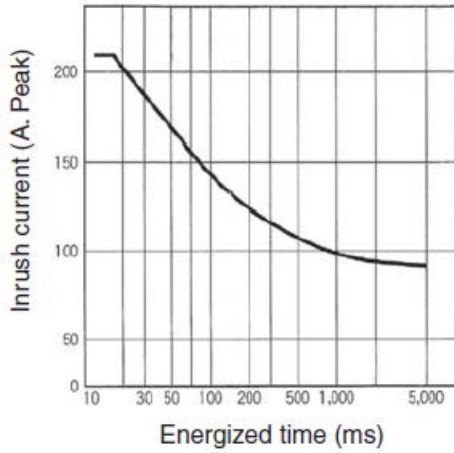
Product discontinuation Model G3PA series	Recommended replacement Model G3PJ series
<p>Input Voltage vs. Input Impedance and Input Voltage vs. Input Current</p> 	<p>Input Voltage vs. Input Impedance and Input Voltage vs. Input Current</p> 
<p>Load Current vs. Ambient Temperature</p> 	<p>Load Current vs. Ambient Temperature</p> 
<p>For close mounting of two or three SSRs, limit the load current to 90% or less.</p> <p>Inrush Current Resistance: Non-repetitive Keep the inrush current to half the rated value if it occurs repetitively.</p>	<p>Close Mounting of Three SSRs</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>

**Product discontinuation
Model G3PA series**

G3PA-210B-VD

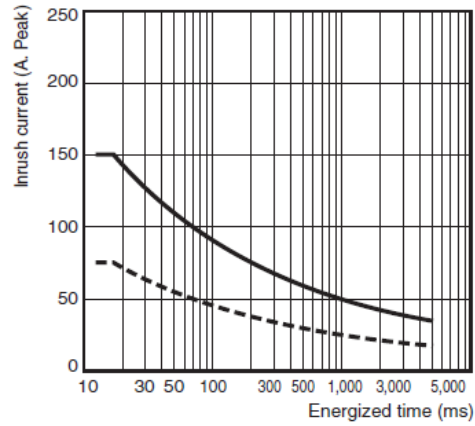


G3PA-220B-VD

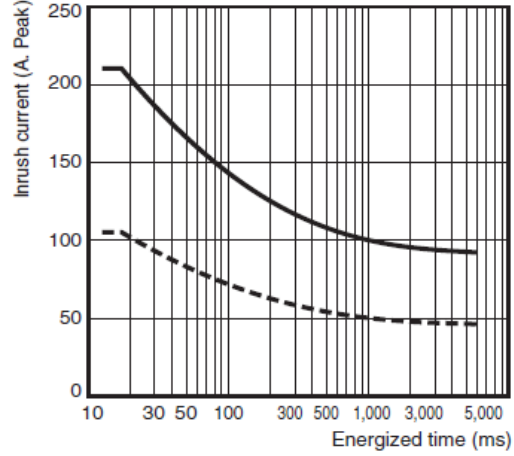


**Recommended replacement
Model G3PJ series**

G3PJ-215B



G3PJ-225B



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.