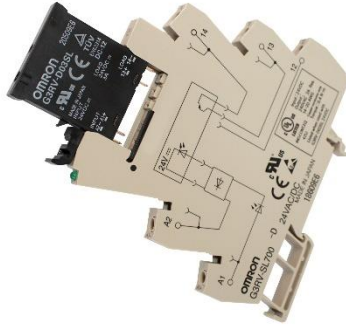


NO: RL-163  
DATE: February 2018

PRODUCT: G3RV-SL Slim Relay  
TYPE: Discontinuation Notice

## G3RV-SL Slim I/O Relay will be discontinued February 2019



### Discontinuation Date: February 2019

Note: Date is subject to change based on raw materials and components availability at the factory.

## Overview Summary

<b>Product Discontinuation</b> Slim I/O Solid State Relay <b>MODEL G3RV-SL500</b> <b>MODEL G3RV-SL700</b>		<b>Recommended Replacement</b> Slim I/O Solid State Relay <b>MODEL G3RV-SR500</b> <b>MODEL G3RV-SR700</b>
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## Cautions on Applying Replacements

- Body color and wire connection are different

See the detail of differences on the following pages

## Affected Parts

### Standard Product

Product discontinuation	Recommended replacement
G3RV-SL500-A DC12	G3RV-SR500-A DC12
G3RV-SL500-A DC24	G3RV-SR500-A DC24
G3RV-SL500-A AC/DC24	G3RV-SR500-A AC/DC24
G3RV-SL500-A AC/DC48	G3RV-SR500-A AC/DC48
G3RV-SL500-A AC110	G3RV-SR500-A AC110
G3RV-SL500-A AC230	G3RV-SR500-A AC230
G3RV-SL500-AL DC12	G3RV-SR500-AL DC12
G3RV-SL500-AL DC24	G3RV-SR500-AL DC24
G3RV-SL500-AL AC/DC24	G3RV-SR500-AL AC/DC24
G3RV-SL500-AL AC/DC48	G3RV-SR500-AL AC/DC48
G3RV-SL500-AL AC110	G3RV-SR500-AL AC110

G3RV-SL500-AL AC230	G3RV-SR500-AL AC230
G3RV-SL500-D DC12	G3RV-SR500-D DC12
G3RV-SL500-D DC24	G3RV-SR500-D DC24
G3RV-SL500-D AC/DC24	G3RV-SR500-D AC/DC24
G3RV-SL500-D AC/DC48	G3RV-SR500-D AC/DC48
G3RV-SL500-D AC110	G3RV-SR500-D AC110
G3RV-SL500-D AC230	G3RV-SR500-D AC230
G3RV-SL700-A DC12	G3RV-SR700-A DC12
G3RV-SL700-A DC24	G3RV-SR700-A DC24
G3RV-SL700-A AC/DC24	G3RV-SR700-A AC/DC24
G3RV-SL700-A AC/DC48	G3RV-SR700-A AC/DC48
G3RV-SL700-A AC110	G3RV-SR700-A AC110
G3RV-SL700-A AC230	G3RV-SR700-A AC230
G3RV-SL700-AL DC12	G3RV-SR700-AL DC12
G3RV-SL700-AL DC24	G3RV-SR700-AL DC24
G3RV-SL700-AL AC/DC24	G3RV-SR700-AL AC/DC24
G3RV-SL700-AL AC/DC48	G3RV-SR700-AL AC/DC48
G3RV-SL700-AL AC110	G3RV-SR700-AL AC110
G3RV-SL700-AL AC230	G3RV-SR700-AL AC230
G3RV-SL700-D DC12	G3RV-SR700-D DC12
G3RV-SL700-D DC24	G3RV-SR700-D DC24
G3RV-SL700-D AC/DC24	G3RV-SR700-D AC/DC24
G3RV-SL700-D AC/DC48	G3RV-SR700-D AC/DC48
G3RV-SL700-D AC110	G3RV-SR700-D AC110
G3RV-SL700-D AC230	G3RV-SR700-D AC230

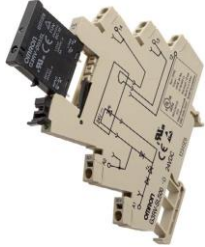

### Special Product

Product discontinuation	Recommended replacement
G3RV-SL500-A-C1D2 DC12	No recommended replacement
G3RV-SL500-A-C1D2 DC24	No recommended replacement
G3RV-SL500-A-C1D2 AC/DC24	No recommended replacement
G3RV-SL500-A-C1D2 AC/DC48	No recommended replacement
G3RV-SL500-A-C1D2 AC110	No recommended replacement
G3RV-SL500-A-C1D2 AC230	No recommended replacement
G3RV-SL500-AL-C1D2 DC12	No recommended replacement
G3RV-SL500-AL-C1D2 DC24	No recommended replacement
G3RV-SL500-AL-C1D2 AC/DC24	No recommended replacement
G3RV-SL500-AL-C1D2 AC/DC48	No recommended replacement
G3RV-SL500-AL-C1D2 AC110	No recommended replacement
G3RV-SL500-AL-C1D2 AC230	No recommended replacement
G3RV-SL500-D-C1D2 DC12	No recommended replacement
G3RV-SL500-D-C1D2 DC24	No recommended replacement
G3RV-SL500-D-C1D2 AC/DC24	No recommended replacement
G3RV-SL500-D-C1D2 AC/DC48	No recommended replacement
G3RV-SL500-D-C1D2 AC110	No recommended replacement
G3RV-SL500-D-C1D2 AC230	No recommended replacement
G3RV-SL700-A-C1D2 DC12	No recommended replacement
G3RV-SL700-A-C1D2 DC24	No recommended replacement
G3RV-SL700-A-C1D2 AC/DC24	No recommended replacement
G3RV-SL700-A-C1D2 AC/DC48	No recommended replacement
G3RV-SL700-A-C1D2 AC110	No recommended replacement
G3RV-SL700-A-C1D2 AC230	No recommended replacement

G3RV-SL700-AL-C1D2 DC12	No recommended replacement
G3RV-SL700-AL-C1D2 DC24	No recommended replacement
G3RV-SL700-AL-C1D2 AC/DC24	No recommended replacement
G3RV-SL700-AL-C1D2 AC/DC48	No recommended replacement
G3RV-SL700-AL-C1D2 AC110	No recommended replacement
G3RV-SL700-AL-C1D2 AC230	No recommended replacement
G3RV-SL700-D-C1D2 DC12	No recommended replacement
G3RV-SL700-D-C1D2 DC24	No recommended replacement
G3RV-SL700-D-C1D2 AC/DC24	No recommended replacement
G3RV-SL700-D-C1D2 AC/DC48	No recommended replacement
G3RV-SL700-D-C1D2 AC110	No recommended replacement
G3RV-SL700-D-C1D2 AC230	No recommended replacement

## Detail of differences

### Body color

Product discontinuation Model G3RV-SL	Recommendable replacement Model G3RV-SR
<p data-bbox="140 792 467 824">Color of case : Light gray</p> 	<p data-bbox="821 792 1145 824">Color of case : Dark gray</p> 

# Wire connection / Mounting dimensions

<b>Product discontinuation</b> <b>Model G3RV-SL</b>	<b>Recommendable replacement</b> <b>Model G3RV-SR</b>
<p data-bbox="199 271 603 300">G3RV-SL500-D, G3RV-SL700-D</p> <div data-bbox="236 331 699 636"> <p>DC12V      DC24V      Other input voltage</p> </div> <p data-bbox="199 701 667 730">G3RV-SL500-A(L), G3RV-SL700-A(L)</p> <div data-bbox="236 757 655 1077"> <p>DC12V voltage      DC24V      Other input voltage</p> </div>	<p data-bbox="882 271 1358 333">G3RV-SR500-D, G3RV-SR700-D G3RV-SR500-A(L), G3RV-SR700-A(L)</p> <div data-bbox="882 383 1406 696"> <p>DC12V      DC24V</p> </div> <p data-bbox="1070 723 1246 748">Other input voltage</p> <div data-bbox="1070 748 1294 1055"> </div> <p data-bbox="1155 1014 1294 1055">  : Diode bridge   : Light emitting diode         </p>

# Dimensions

<p align="center"><b>Product discontinuation Model G3RV-SL</b></p>	<p align="center"><b>Recommendable replacement Model G3RV-SR</b></p>
<p align="center"><b>G3RV-SL500-A(L), G3RV-SL500-D</b></p>	<p align="center"><b>G3RV-SR500-A(L), G3RV-SR500-D</b></p>
<p align="center"><b>G3RV-SL700-A(L), G3RV-SL700-D</b></p>	<p align="center"><b>G3RV-SR700-A(L), G3RV-SR700-D</b></p>

## Characteristics

Product discontinuation Model G3RV-SL							Recommendable replacement Model G3RV-SR						
<b>Ratings</b>							<b>Ratings</b>						
<b>Input</b>							<b>Input</b>						
<b>G3RV-SL500/700-A</b>							<b>G3RV-SR500/700-A</b>						
Rated input voltage	Rated current			Must operate voltage	Must release voltage	Maximum allowable voltage	Rated input voltage	Rated current			Must operate voltage	Must release voltage	Maximum allowable voltage
	AC		DC					AC		DC			
	50Hz	60Hz						50Hz	60Hz				
DC12V	—	—	15mA	10.8V max.	1V min.	±10%	DC12V	—	—	15.0mA	10.8V max.	1V min.	±10%
DC24V	—	—	12mA	21.6V max.			DC24V	—	—	12.0mA	21.6V max.		
AC/DC24V	20mA	21mA	11mA	21.6V max.			AC/DC24V	11.3mA	11.4mA	11.0mA	21.6V max.		
AC/DC48V	10mA	11mA	6mA	43.2V max.			AC/DC48V	6.8mA	6.9mA	6.0mA	43.2V max.		
AC110V	7.5mA	8.2mA	—	99V max.			AC110V	6.2mA	6.2mA	—	99V max.		
AC230V	7.3mA	8.6mA	—	207V max.			AC230V	7.5mA	8.8mA	—	207V max.		
—	—	—	—	—			—	—	—	—	—		
<b>G3RV-SL500/700-AL</b>							<b>G3RV-SR500/700-AL</b>						
Rated input voltage	Rated current			Must operate voltage	Must release voltage	Maximum allowable voltage	Rated input voltage	Rated current			Must operate voltage	Must release voltage	Maximum allowable voltage
	AC		DC					AC		DC			
	50Hz	60Hz						50Hz	60Hz				
DC12V	—	—	15mA	10.8V max.	1V min.	±10%	DC12V	—	—	15.0mA	10.8V max.	1V min.	±10%
DC24V	—	—	12mA	21.6V max.			DC24V	—	—	12.0mA	21.6V max.		
AC/DC24V	20mA	21mA	11mA	21.6V max.			AC/DC24V	11.4mA	11.5mA	11.0mA	21.6V max.		
AC/DC48V	10mA	11mA	6mA	43.2V max.			AC/DC48V	7.7mA	7.7mA	6.9mA	43.2V max.		
AC110V	7.5mA	8.2mA	—	99V max.			AC110V	7.3mA	7.3mA	—	99V max.		
AC230V	7.3mA	8.6mA	—	207V max.			AC230V	7.7mA	8.9mA	—	207V max.		
—	—	—	—	—			—	—	—	—	—		
<b>G3RV-SL500/700-D</b>							<b>G3RV-SR500/700-D</b>						
Rated input voltage	Rated current			Must operate voltage	Must release voltage	Maximum allowable voltage	Rated input voltage	Rated current			Must operate voltage	Must release voltage	Maximum allowable voltage
	AC		DC					AC		DC			
	50Hz	60Hz						50Hz	60Hz				
DC12V	—	—	8mA	10.8V max.	1V min.	±10%	DC12V	—	—	8.0mA	10.8V max.	1V min.	±10%
DC24V	—	—	4.5mA	21.6V max.			DC24V	—	—	4.6mA	21.6V max.		
AC/DC24V	10.7mA	11.1mA	4.3mA	21.6V max.			AC/DC24V	5.0mA	5.1mA	4.3mA	21.6V max.		
AC/DC48V	9.6mA	10.2mA	6mA	43.2V max.			AC/DC48V	6.8mA	6.9mA	6.0mA	43.2V max.		
AC110V	6.8mA	7.2mA	—	99V max.			AC110V	6.2mA	6.2mA	—	99V max.		
AC230V	6.8mA	8.1mA	—	207V max.			AC230V	7.5mA	8.8mA	—	207V max.		
—	—	—	—	—			—	—	—	—	—		
<b>Output</b>							<b>Output</b>						
<b>G3RV-SL500/700-A(L)</b>							<b>G3RV-SR500/700-A(L)</b>						
Item	Ratings						Item	Ratings					
Rated load voltage	100 to 240VAC(50/60Hz)						Rated load voltage	100 to 240VAC(50/60Hz)					
Load voltage range	75 to 264VAC(50/60Hz)						Load voltage range	75 to 264VAC(50/60Hz)					
Load current	0.1 to 2A(Ambient temperature =25°C)						Load current	0.1 to 2A(Ambient temperature =25°C)					
Inrush current resistance	30A(60Hz, 1 cycle)						Inrush current resistance	30A(60Hz, 1 cycle)					
Permissible I <sup>2</sup> t, Joule integral value(reference value)	15A <sup>2</sup> s						Permissible I <sup>2</sup> t, Joule integral value(reference value)	15A <sup>2</sup> s					
Applied load capacity	400W(Output voltage:200VAC)						Applied load capacity	400W(Output voltage:200VAC)					
<b>G3RV-SL500/700-D</b>							<b>G3RV-SR500/700-D</b>						
Item	Ratings						Item	Ratings					
Rated load voltage	5 to 24VDC						Rated load voltage	5 to 24VDC					
Load voltage range	3 to 26.4VDC						Load voltage range	3 to 26.4VDC					
Load current	100 μA to 3A(Ambient temperature =25°C)						Load current	100 μA to 3A(Ambient temperature =25°C)					
Load current	30A(60Hz, 1 cycle)						Load current	30A(60Hz, 1 cycle)					
Inrush current resistance	9A <sup>2</sup> s						Inrush current resistance	9A <sup>2</sup> s					
Permissible I <sup>2</sup> t, Joule integral value(reference value)	72W(Output voltage: 24VDC)						Permissible I <sup>2</sup> t, Joule integral value(reference value)	72W(Output voltage: 24VDC)					

Product discontinuation Model G3RV-SL	Recommendable replacement Model G3RV-SR																																																																																												
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Operate time	6ms max.																																																																																												
Release time	60ms max.																																																																																												
Output ON resistance	0.3 $\Omega$ max. (at 24VDC)																																																																																												
Leakage current	10 $\mu$ A max. (at 24VDC)																																																																																												
Item	Characteristics																																																																																												
Insulation resistance	100M $\Omega$ max.																																																																																												
Dielectric strength	Between input and output 2,500VAC 50/60Hz 1min																																																																																												
Vibration resistance	Malfunction : 10 to 55 to 10Hz single amplitude 0.35mm (double amplitude 0.70mm)																																																																																												
Shock resistance	300m/s <sup>2</sup>																																																																																												
Ambient operating temperature	Storage : -30 to +100°C (with no icing or no condensation) Operating : -30 to +55°C (with no icing or no condensation)																																																																																												
Ambient operating humidity	45 to 85%RH																																																																																												
Wight	Approx. 38g																																																																																												

### Operation ratings

Product discontinuation Model G3RV-SL	Recommendable replacement Model G3RV-SR
Refer to characteristics	Refer to characteristics

## Operation methods

Product discontinuation Model G3RV-SL			Recommendable replacement Model G3RV-SR			
<b>Applicable wire</b> G3RV-SL500-A(L), G3RV-SL500-D			<b>Applicable wire</b> G3RV-SR500-A(L), G3RV-SR500-D			
Wire type	Applicable wire size	Stripping length	Applicable wire		Ferrules	Stripping length
			(mm <sup>2</sup> )	(AWG)	Conduct length (mm)	(mm) (Ferrules used)
Stranded without ferrule	0.5 – 1.5mm <sup>2</sup>	12mm	0.25	24	8	10
Stranded with ferrules and plastic collar	0.5 – 1.5mm <sup>2</sup>	12mm			10	12
Stranded with ferrules without plastic collar	0.5 – 1.5mm <sup>2</sup>	12mm	0.34	22	8	10
Solid	0.5 – 1.5mm <sup>2</sup>	12mm			10	12
			0.5	20	8	10
					10	12
			0.75	18	8	10
					10	12
			1/1.25	18/17	8	10
					10	12
			1.25/1.5	17/16	8	10
					10	12
G3RV-SL700-A(L), G3RV-SL700-D			G3RV-SR700-A(L), G3RV-SR700-D			
Wire type	Applicable wire size	Stripping length	Wire type		Applicable wire size	Stripping length
Stranded without ferrule	0.5 – 1.5mm <sup>2</sup>	7mm	Stranded without ferrule	0.5 – 1.5mm <sup>2</sup>	8mm	
Stranded with ferrules and plastic collar	0.5 – 1.5mm <sup>2</sup>	7mm	Stranded with ferrules and plastic collar	0.5 – 1.5mm <sup>2</sup>	8mm	
Stranded with ferrules without plastic collar	0.5 – 1.5mm <sup>2</sup>	7mm	Stranded with ferrules without plastic collar	0.5 – 1.5mm <sup>2</sup>	8mm	
Solid	0.5 – 1.5mm <sup>2</sup>	7mm	Solid	0.5 – 1.5mm <sup>2</sup>	8mm	

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.