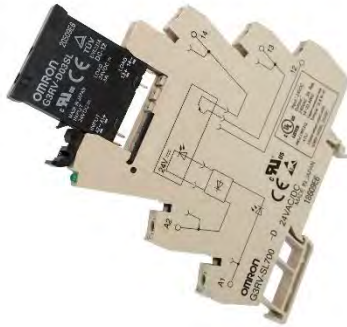


NO: RL-163 PRODUCT: G3RV-SL Slim Relay
 DATE: February 2018 TYPE: Discontinuation Notice

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

Product Discontinuation Slim I/O Solid State Relay MODEL G3RV-SL500 MODEL G3RV-SL700		Recommended Replacement Slim I/O Solid State Relay MODEL G3RV-SR500 MODEL G3RV-SR700
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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

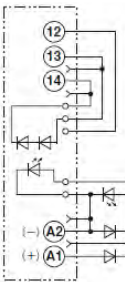
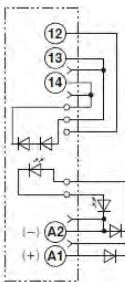
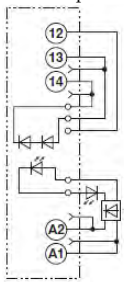
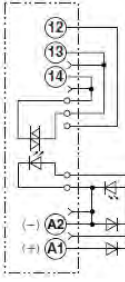
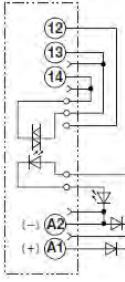
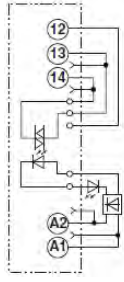
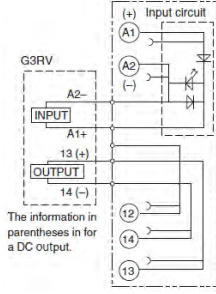
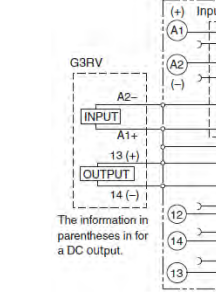
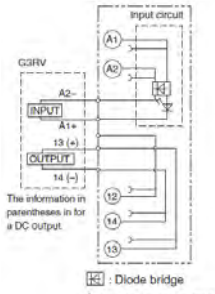


G3RV-SL700-AL-C1D2 DC12	No recommended replacement
G3RV-SL700-AL-C1D2 DC24	No recommended replacement
G3RV-SL700-AL-C1D2 AC/DC24	No recommended replacement
G3RV-SL700-AL-C1D2 AC/DC48	No recommended replacement
G3RV-SL700-AL-C1D2 AC110	No recommended replacement
G3RV-SL700-AL-C1D2 AC230	No recommended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

<p align="center">Product discontinuation Model G3RV-SL</p>	<p align="center">Recommendable replacement Model G3RV-SR</p>
<p align="center">G3RV-SL500-D, G3RV-SL700-D</p> <div style="display: flex; justify-content: space-around;"> <div style="text-align: center;"> <p>DC12V</p>  </div> <div style="text-align: center;"> <p>DC24V</p>  </div> <div style="text-align: center;"> <p>Other input voltage</p>  </div> </div> <p align="center">G3RV-SL500-A(L), G3RV-SL700-A(L)</p> <div style="display: flex; justify-content: space-around;"> <div style="text-align: center;"> <p>DC12V voltage</p>  </div> <div style="text-align: center;"> <p>DC24V</p>  </div> <div style="text-align: center;"> <p>Other input voltage</p>  </div> </div>	<p align="center">G3RV-SR500-D, G3RV-SR700-D G3RV-SR500-A(L), G3RV-SR700-A(L)</p> <div style="display: flex; justify-content: space-around;"> <div style="text-align: center;"> <p>DC12V</p>  <p>The information in parentheses in for a DC output.</p> </div> <div style="text-align: center;"> <p>DC24V</p>  <p>The information in parentheses in for a DC output.</p> </div> </div> <p align="center">Other input voltage</p> <div style="text-align: center;">  <p>The information in parentheses in for a DC output.</p> <p>  : Diode bridge  : Light emitting diode </p> </div>

Dimensions

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

Characteristics

Product discontinuation Model G3RV-SL							Recommendable replacement Model G3RV-SR						
Ratings							Ratings						
Input							Input						
G3RV-SL500/700-A							G3RV-SR500/700-A						
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.		
—	—	—	—	—			—	—	—	—	—		
G3RV-SL500/700-AL							G3RV-SR500/700-AL						
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.		
—	—	—	—	—			—	—	—	—	—		
G3RV-SL500/700-D							G3RV-SR500/700-D						
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.		
—	—	—	—	—			—	—	—	—	—		
Output							Output						
G3RV-SL500/700-A(L)							G3RV-SR500/700-A(L)						
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 ² t, Joule integral value(reference value)	15A ² s						Permissible I ² t, Joule integral value(reference value)	15A ² s					
Applied load capacity	400W(Output voltage:200VAC)						Applied load capacity	400W(Output voltage:200VAC)					
G3RV-SL500/700-D							G3RV-SR500/700-D						
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 ² s						Inrush current resistance	9A ² s					
Permissible I ² t, Joule integral value(reference value)	72W(Output voltage: 24VDC)						Permissible I ² t, Joule integral value(reference value)	72W(Output voltage: 24VDC)					

Product discontinuation Model G3RV-SL	Recommendable replacement Model G3RV-SR																																																																																												
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Output ON voltage drop	1.6V (RMS) max.	Leakage current	5mA max. (200VAC, 50/60Hz)	Item	Characteristics	Operate time	1ms max.	Release time	20ms max.	Output ON voltage drop	1.6V (RMS) max.	Leakage current	5mA以下 (200VAC, 50/60Hz)	Item	Characteristics	Operate time	6ms max.	Release time	60ms max.	Output ON voltage drop	0.9V max.	Leakage current	10 μ A max. (at 24VDC)	Item	Characteristics	Insulation resistance	100M Ω 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 ²	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	Characteristics G3RV-SR500/700-A <table border="1"> <thead> <tr> <th>Item</th> <th>Characteristics</th> </tr> </thead> <tbody> <tr> <td>Operate time</td> <td>1/2 cycle of load power supply +1ms max.</td> </tr> <tr> <td>Release time</td> <td>60ms max.</td> </tr> <tr> <td>Output ON voltage drop</td> <td>1.6V (RMS) max.</td> </tr> <tr> <td>Leakage current</td> <td>5mA max. 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Item	Characteristics																																																																																												
Insulation resistance	100M Ω 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 ²																																																																																												
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																																																																																												
Item	Characteristics																																																																																												
Operate time	1/2 cycle of load power supply +1ms max.																																																																																												
Release time	60ms max.																																																																																												
Output ON voltage drop	1.6V (RMS) max.																																																																																												
Leakage current	5mA max. (at 200VAC, 50/60Hz)																																																																																												
Item	Characteristics																																																																																												
Operate time	3ms max.																																																																																												
Release time	60ms max.																																																																																												
Output ON voltage drop	1.6V (RMS) max.																																																																																												
Leakage current	5mA max. (at 200VAC, 50/60Hz)																																																																																												
Item	Characteristics																																																																																												
Operate time	6ms max.																																																																																												
Release time	60ms max.																																																																																												
Output ON resistance	0.3 Ω max. (at 24VDC)																																																																																												
Leakage current	10 μ A max. (at 24VDC)																																																																																												
Item	Characteristics																																																																																												
Insulation resistance	100M Ω 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 ²																																																																																												
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			
Applicable wire G3RV-SL500-A(L), G3RV-SL500-D			Applicable wire G3RV-SR500-A(L), G3RV-SR500-D			
Wire type	Applicable wire size	Stripping length	Applicable wire		Ferrules	Stripping length
			(mm ²)	(AWG)	Conduct length (mm)	(mm) (Ferrules used)
Stranded without ferrule	0.5 – 1.5mm ²	12mm	0.25	24	8	10
Stranded with ferrules and plastic collar	0.5 – 1.5mm ²	12mm			10	12
Stranded with ferrules without plastic collar	0.5 – 1.5mm ²	12mm	0.34	22	8	10
Solid	0.5 – 1.5mm ²	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 ²	7mm	Stranded without ferrule	0.5 – 1.5mm ²	8mm	
Stranded with ferrules and plastic collar	0.5 – 1.5mm ²	7mm	Stranded with ferrules and plastic collar	0.5 – 1.5mm ²	8mm	
Stranded with ferrules without plastic collar	0.5 – 1.5mm ²	7mm	Stranded with ferrules without plastic collar	0.5 – 1.5mm ²	8mm	
Solid	0.5 – 1.5mm ²	7mm	Solid	0.5 – 1.5mm ²	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.