


**Discontinuation Notice of Solid State Relay, Model G3B/G3BD.
(For OCB-CN, OEZ-ML area only)****Product Discontinuation**

Solid-state Relays

 **Model G3B-205S DC4-30
Model G3BD-103S DC5-24****Recommended Replacement**

Solid-state Relays

**Model G3B-205S-VD DC5-24
Model G3FD-102S-VD DC4-24****[Final order entry date]**

The end of September, 2016

[Date of The Last Shipping]

The end of September, 2016

[Caution on recommended replacement]

- G3B series is AC load type Solid State Relay. They can be replaced easily to existed “-VD” series.
- G3BD series is DC load type Solid State Relay. They don't have corresponded product for simple replacement. Recommended products are G3FD-VD series.

[Difference from discontinued product]

Recommended replacement Model	Body Color	Dimensions	Wire connection	Mounting Dimensions	Characteristics	Operation ratings	Operation methods
G3B-205S-VD DC5-24	**	**	**	**	*	*	*
G3FD-102S-VD DC4-24	**	--	--	--	*	*	*

** : Compatible

* : The change is a little/Almost compatible



-- : Not compatible

- : No corresponding specification

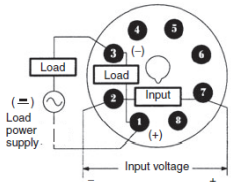
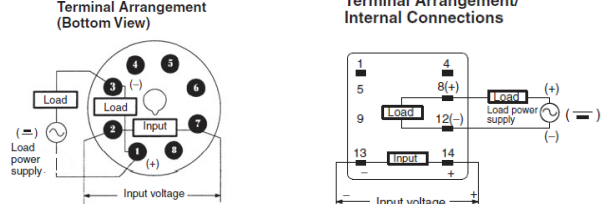
[Product Discontinuation and recommended replacement]

Product discontinuation	Recommended replacement
G3B-205S DC4-30	G3B-205S-VD DC5-24
G3BD-103S DC5-24	G3FD-102S-VD DC4-24







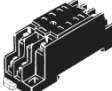



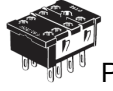

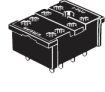

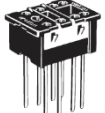
[Body color]

<p>Product discontinuation Model G3B-205S DC4-30 Model G3BD-103S DC5-24</p>	<p>Recommendable replacement Model G3B-205S-VD DC5-24 Model G3FD-102S-VD DC4-24</p>
	<p>G3B-205S-VD DC5-24 G3FD-102S-VD DC4-24</p> 

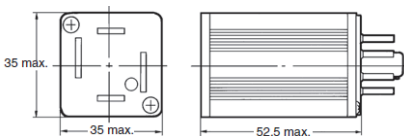
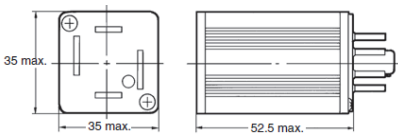
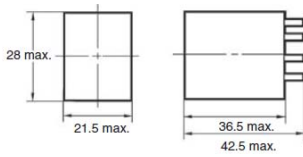
[Wire connection]

<p>Product discontinuation Model G3B-205S DC4-30 Model G3BD-103S DC5-24</p>	<p>Recommendable replacement Model G3B-205S-VD DC5-24 Model G3FD-102S-VD DC4-24</p>
<p>Terminal Arrangement (Bottom View)</p> 	<p>G3B-205S-VD DC5-24 G3FD-102S-VD DC4-24</p> <p>Terminal Arrangement (Bottom View) Terminal Arrangement/Internal Connections</p> 

[Mounting dimensions]

<p>Product discontinuation Model G3B-205S DC4-30 Model G3BD-103S DC5-24</p>	<p>Recommendable replacement Model G3B-205S-VD DC5-24 Model G3FD-102S-VD DC4-24</p>
<p><Front-mounting></p>  PF083A  PF083A-E <p><Back-mounting></p>  PL08  PLE08-0  PL08-Q	<p><Front-mounting></p> <p>G3B-205S-VD DC5-24 G3FD-102S-VD DC4-24</p>  PF083A  PYF08A  PF083A-E  PYF08A-E <p><Back-mounting></p> <p>G3B-205S-VD DC5-24 G3FD-102S-VD DC4-24</p>  PL08  PY08  PLE08-0  PY08-02  PL08-Q  PY08QN

[Dimensions]

Product discontinuation Model G3B-205S DC4-30 Model G3BD-103S DC5-24	Recommendable replacement Model G3B-205S-VD DC5-24 Model G3FD-102S-VD DC4-24
	<p>G3B-205S-VD DC5-24</p>  <p>G3FD-102S-VD DC4-24</p> 

[Characteristics]

Relay Specifications (AC load)

Item	Product discontinuation Model G3B-205S DC4-30	Recommendable replacement Model G3B-205S-VD DC5-24
Rated input voltage	5 to 24 VDC	5 to 24 VDC
Input current	(16 mA)	15 mA max.
Impedance	1,500Ω	-
Must-operate voltage	4 VDC max.	4 VDC max.
Must-release voltage	1 VDC min.	1 VDC min.
Rated load voltage	100 to 240 VAC	100 to 240 VAC
Load current	0.1 to 5 A	0.1 to 5 A
Surge withstand current	80 A (60 Hz, 1cycle)	80 A (60 Hz, 1cycle)

Relay Specifications (DC load)

Item	Product discontinuation Model G3BD-103S DC5-24	Recommendable replacement Model G3FD-102S-VD DC4-24
Rated input voltage	5 to 24 VDC	4 to 24 VDC
Input current	(16 mA)	(16 mA)
Impedance	1,500Ω	1,500Ω
Must-operate voltage	4 VDC max.	3 VDC max.
Must-release voltage	1 VDC min.	1 VDC min.
Rated load voltage	5 to 110 VDC	5 to 110 VDC
Load current	0.1 to 3 A	0.1 to 2 A
Surge withstand current	12 A (10 ms)	10 A (10 ms)

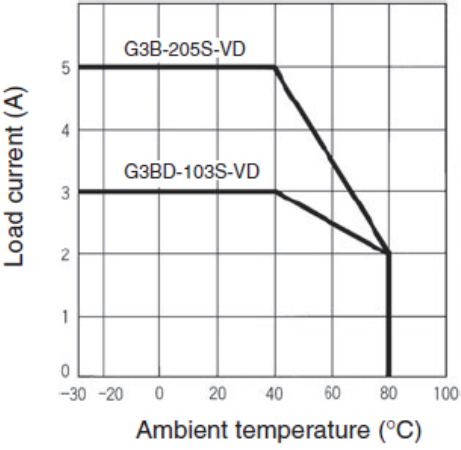
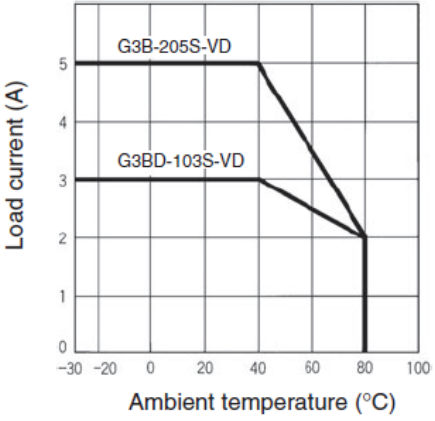
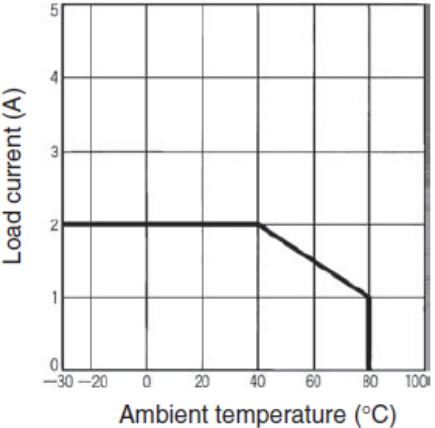
[Operation ratings]
Relay output(AC load)

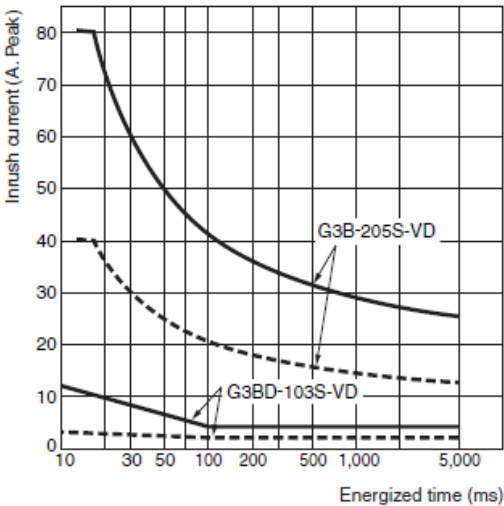
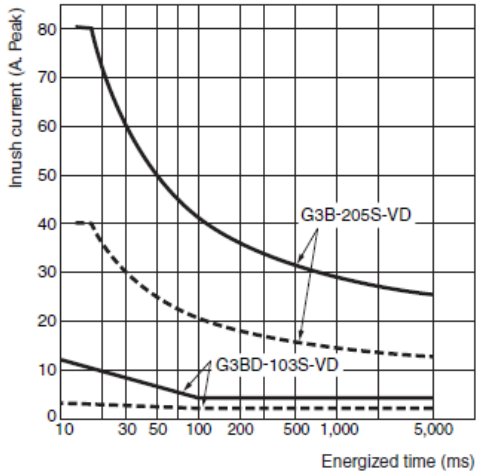
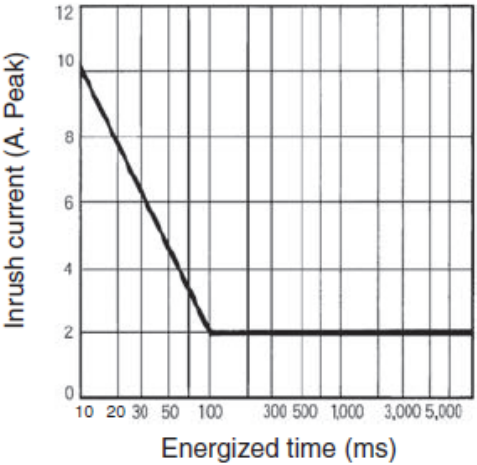
Item	Product discontinuation Model G3B-205S DC4-30	Recommendable replacement Model G3B-205S-VD DC5-24
Operation time	1/2 load power supply cycle + 1 ms max.	1/2 load power supply cycle + 1 ms max.
Release time	1/2 load power supply cycle + 1 ms max.	1/2 load power supply cycle + 1 ms max.
Output ON voltage drop	1.6 V max.	1.6V max.
OFF leakage current	5 mA max (at 100 VAC) 10 mA max (at 200 VAC)	5 mA max (at 100 VAC) 10 mA max (at 200 VAC)
Insulation resistance	100 MΩ min	100 MΩ min
Dielectric strength	1,500 VAC at 50/60 Hz for 1min.	2,000 VAC at 50/60 Hz for 1min.
Vibration resistance	10 to 55 to 10 Hz, 0.75 mm single amplitude	10 to 55 to 10 Hz, 0.75 mm single amplitude
Shock resistance	1,000 m/s ²	1,000 m/s ²
Storage temperature	-30 to 100°C	-30 to 100°C
Ambient operating temperature	-30 to 80°C	-30 to 80°C
Ambient operating humidity	45 to 85% RH	45 to 85% RH
Weight	Approx. 70 g	Approx. 70 g

Relay output(DC load)

Item	Product discontinuation Model G3BD-103S DC5-24	Recommendable replacement Model G3FD-102S-VD DC4-24
Operation time	0.5 ms max.	0.5 ms max.
Release time	2.5 ms max.	2.5 ms max.
Output ON voltage drop	1.5 V max.	1.5 V max.
OFF leakage current	5 mA max (at 125 VDC)	0.1 mA max (at 100 VDC)
Insulation resistance	100 MΩ min	100 MΩ min
Dielectric strength	1,500 VAC at 50/60 Hz for 1 min.	1,500 VAC at 50/60 Hz for 1 min.
Vibration resistance	10 to 55 to 10Hz, 0.75 mm single amplitude	10 to 55 to 10 Hz, 0.75 mm single amplitude
Shock resistance	1,000 m/s ²	1,000 m/s ²
Storage temperature	-30 to 100°C	-30 to 100°C
Ambient operating temperature	-30 to 80°C	-30 to 80°C
Ambient operating humidity	45 to 85% RH	45 to 85% RH
Weight	Approx. 70 g	Approx. 50 g

[Operation methods]

<p>Product discontinuation Model G3B-205S DC4-30 Model G3BD-103S DC5-24</p>	<p>Recommendable replacement Model G3B-205S-VD DC5-24 Model G3FD-102S-VD DC4-24</p>																												
<p>Load Current vs. Ambient Temperature Rating</p>  <table border="1"> <caption>Load Current vs. Ambient Temperature Rating (Left Graph)</caption> <thead> <tr> <th>Ambient temperature (°C)</th> <th>G3B-205S-VD Load current (A)</th> <th>G3BD-103S-VD Load current (A)</th> </tr> </thead> <tbody> <tr> <td>-30 to 40</td> <td>5</td> <td>3</td> </tr> <tr> <td>40 to 80</td> <td>2</td> <td>2</td> </tr> <tr> <td>80 to 100</td> <td>0</td> <td>0</td> </tr> </tbody> </table>	Ambient temperature (°C)	G3B-205S-VD Load current (A)	G3BD-103S-VD Load current (A)	-30 to 40	5	3	40 to 80	2	2	80 to 100	0	0	<p>Load Current vs. Ambient Temperature Rating</p>  <p>G3F-202SN-VD G3FD-102SN-VD/102S-VD</p>  <table border="1"> <caption>Load Current vs. Ambient Temperature Rating (Right Graph)</caption> <thead> <tr> <th>Ambient temperature (°C)</th> <th>G3B-205S-VD Load current (A)</th> <th>G3BD-103S-VD Load current (A)</th> <th>G3F-202SN-VD / G3FD-102SN-VD/102S-VD Load current (A)</th> </tr> </thead> <tbody> <tr> <td>-30 to 40</td> <td>5</td> <td>3</td> <td>2</td> </tr> <tr> <td>40 to 80</td> <td>2</td> <td>2</td> <td>1</td> </tr> <tr> <td>80 to 100</td> <td>0</td> <td>0</td> <td>0</td> </tr> </tbody> </table>	Ambient temperature (°C)	G3B-205S-VD Load current (A)	G3BD-103S-VD Load current (A)	G3F-202SN-VD / G3FD-102SN-VD/102S-VD Load current (A)	-30 to 40	5	3	2	40 to 80	2	2	1	80 to 100	0	0	0
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-30 to 40	5	3	2																										
40 to 80	2	2	1																										
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<p align="center">Product discontinuation Model G3B-205S DC4-30 Model G3BD-103S DC5-24</p>	<p align="center">Recommendable replacement Model G3B-205S-VD DC5-24 Model G3FD-102S-VD DC4-24</p>
<p>One Cycle Surge Current</p> 	<p>One Cycle Surge Current</p> <p align="center">G3B-205S-VD, G3BD-103S-VD</p>  <p align="center">G3FD-102SN-VD/102S-VD</p> 

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