

NO: RL-160 **PRODUCT:** G3PC Solid State Relay
DATE: January 2017 **TYPE:** Partial Discontinuation Notice

G3PC-220B-VD Solid State Relay will be Discontinued;
 Replace with G3PC-220B-VD-X (no CE compliance mark)

Final order entry: February, 2017

Last shipping date: March, 2017

Affected Parts

| Product discontinuation | Recommended replacement |
|-------------------------|-------------------------|
| G3PC-220B-VD | G3PC-220B-VD-X |



Cautions on Applying Replacements

- All performance specifications are the same.
- Replacement model (-X) is not EN standard compliant and does not have the CE mark.

Reference Documentation

| Description | Media | Publication number |
|--------------------|-------|----------------------------|
| G3PC SSR Datasheet | PDF | J127-E1-03 |

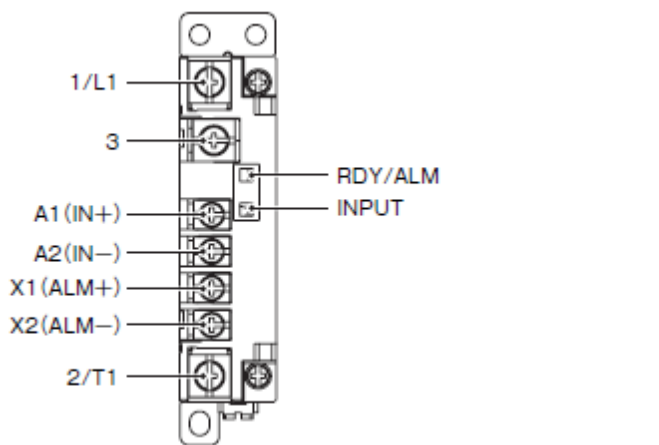
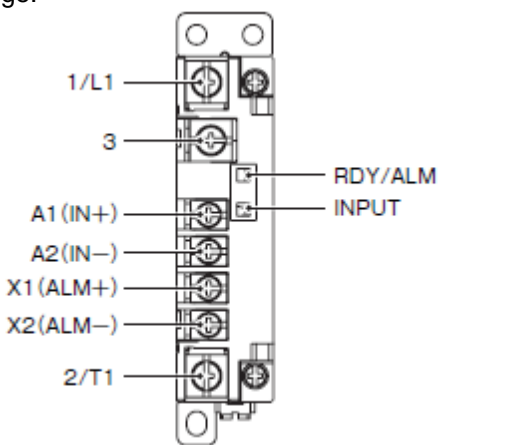
See the detail of differences below and on the following pages.

Detail of Differences

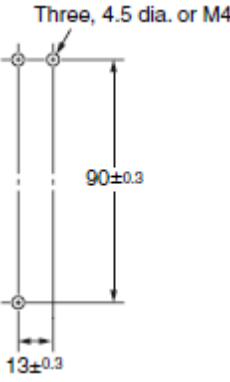
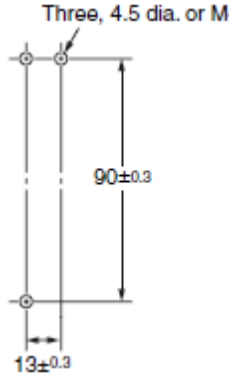
Body color

| Product discontinuation Model G3PC-220B-VD | Recommended replacement Model G3PC-220B-VD-X |
|---|---|
| | <p>No change.</p> |

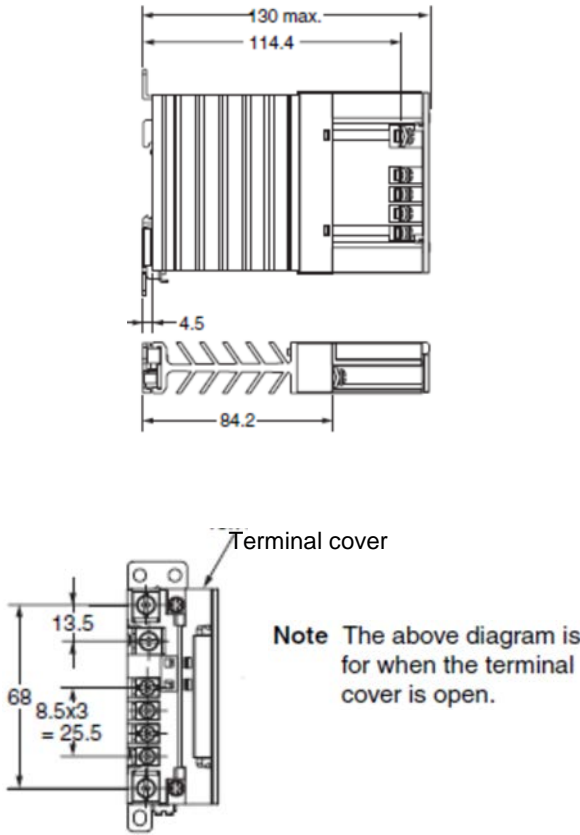
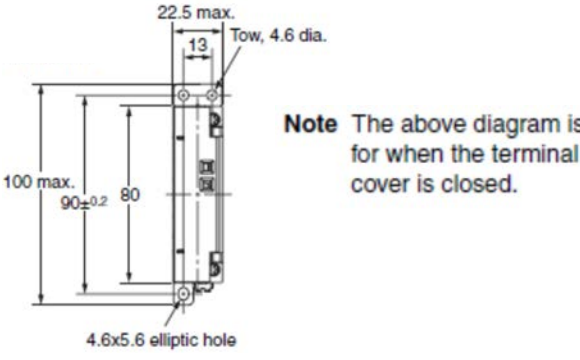
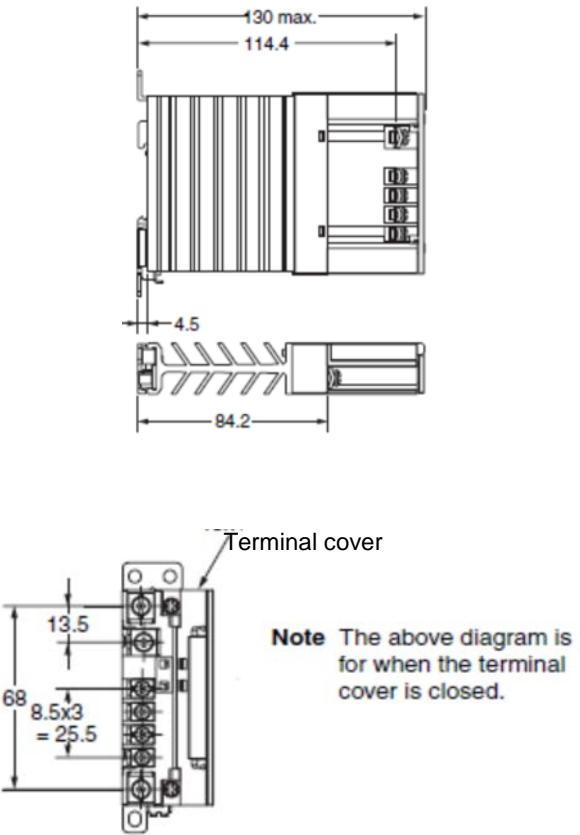
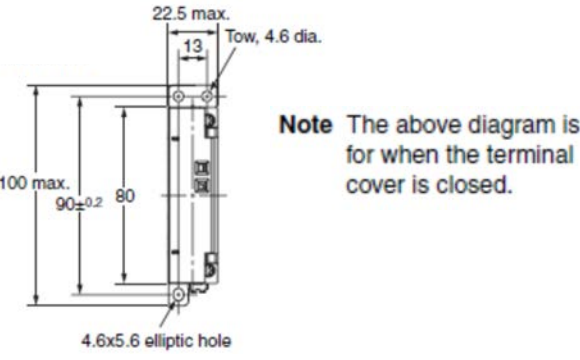
Wiring diagram

| Product discontinuation Model G3PC-220B-VD | Recommended replacement Model G3PC-220B-VD-X |
|---|--|
|  <p>1/L1</p> <p>3</p> <p>RDY/ALM INPUT</p> <p>A1 (IN+)</p> <p>A2 (IN-)</p> <p>X1 (ALM+)</p> <p>X2 (ALM-)</p> <p>2/T1</p> | <p>No change.</p>  <p>1/L1</p> <p>3</p> <p>RDY/ALM INPUT</p> <p>A1 (IN+)</p> <p>A2 (IN-)</p> <p>X1 (ALM+)</p> <p>X2 (ALM-)</p> <p>2/T1</p> |

Mounting dimensions

| Product discontinuation Model G3PC-220B-VD | Recommended replacement Model G3PC-220B-VD-X |
|---|---|
|  <p>Three, 4.5 dia. or M4</p> <p>90±0.3</p> <p>13±0.3</p> | <p>No change.</p>  <p>Three, 4.5 dia. or M4</p> <p>90±0.3</p> <p>13±0.3</p> |

Dimensions

| Product discontinuation Model G3PC-220B-VD | Recommended replacement Model G3PC-220B-VD-X |
|--|--|
|   | <p>No change.</p>   |

Ratings (at an Ambient Temperature of 25°C)

| Item | Product discontinuation Model G3PC-220B-VD | Recommended replacement Model G3PC-220B-VD-X |
|-------------------------------|---|---|
| Detection Power Supply | | |
| Rated power supply voltage | 100 to 240 VAC (50/60 Hz) | 100 to 240 VAC (50/60 Hz) |
| Operating voltage range | 75 to 264 VAC (50/60 Hz) | 75 to 264 VAC (50/60 Hz) |
| Current consumption | 15mA AC max.(at 200 VAC) | 15mA AC max.(at 200 VAC) |

Ratings Continued

| Item | Product discontinuation Model G3PC-220B-VD | Recommended replacement Model G3PC-220B-VD-X |
|--|---|---|
| Operating Circuit | | |
| Input method | Voltage input | Voltage input |
| Rated input voltage | 12 to 24 VDC | 12 to 24 VDC |
| Operating input voltage range | 9.6 to 30 VDC | 9.6 to 30 VDC |
| Must operate voltage | 9.6 VDC max. | 9.6 VDC max. |
| Must release voltage | 1 VDC min. | 1 VDC min. |
| Input current | 7mA DC max. (at rated input voltage) | 7 mA DC max. (at rated input voltage) |
| Main circuit | | |
| Rated load voltage | 100 to 240 VAC (50/60 Hz) | 100 to 240 VAC (50/60 Hz) |
| Operating voltage range | 75 to 264 VAC (50/60 Hz) | 75 to 264 VAC (50/60 Hz) |
| Applicable load current | 20 A (Ta=40) | 20 A (Ta=40) |
| Minimum load current | 0.1 A | 0.1 A |
| Inrush current resistance. (peak value) | 220 A (60 Hz,1 cycle) | 220 A (60 Hz,1 cycle) |
| Permissible(I ² t) | 260 A ² s | 260 A ² s |
| Applicable load. (With Class-1 AC resistive load) | 4 kW (at 200 VAC) | 4 kW (at 200 VAC) |
| Alarm Output | | |
| Output OFF collector voltage | 30 VDC max. | 30 VDC max. |
| Maximum carry current | 0.1 A | 0.1 A |
| Output form | Independent NPN open collector | Independent NPN open collector |
| RoHS | Non-compliant | Non-compliant |

Characteristics

| Item | Product discontinuation Model G3PC-220B-VD | Recommended replacement Model G3PC-220B-VD-X |
|--|--|--|
| Operate time | 1/2 of load power source+1 ms max. | 1/2 of load power source+1 ms max. |
| Release time | 1/2 of load power source+1 ms max. | 1/2 of load power source+1 ms max. |
| Main circuit Output ON voltage drop | 1.6V rms max. | 1.6V rms max. |
| Main circuit OFF leakage current | 10 mA max.(at 200 VAC) | 10 mA max.(at 200 VAC) |
| Alarm output Output ON voltage drop | 1.5 V max. | 1.5 V max. |
| Alarm output OFF leakage current | 0.1 mA max. | 0.1 mA max. |
| Insulation resistance | 100MΩ min. (at 500 VDC) | 100MΩ min. (at 500 VDC) |
| Dielectric strength | 2500 VAC. 50/60 Hz for 1 min. | 2500 VAC. 50/60 Hz for 1 min. |
| Vibration resistance | Destruction: 10 to 55 to 10 Hz. 0.35 mm single amplitude. | Destruction: 10 to 55 to 10 Hz. 0.3 5mm single amplitude. |
| Shock resistance | Destruction: 294 m/s ² | Destruction: 294 m/s ² |
| Ambient temperature (With no icing or condensation) | Operating: -20 to 60°C Storage: -30 to 70°C | Operating: -20 to 60°C Storage: -30 to 70°C |
| Ambient humidity | 45% to 85% | 45% to 85% |
| Weight | Approx.300g | Approx.300g |

Operation ratings

| Product discontinuation Model G3PC-220B-VD | Recommended replacement Model G3PC-220B-VD-X |
|---|---|
| <p>Input Voltage vs. Input Current Input Voltage vs. Input Impedance</p> | <p>Input Voltage vs. Input Current Input Voltage vs. Input Impedance</p> |
| <p>Load Current vs. Ambient Temperature</p> | <p>Load Current vs. Ambient Temperature</p> |
| <p>One Cycle Surge Current: Non-repetitive</p> <p>The figure will be less than 1/2 the rated value for repetitive input.</p> | <p>One Cycle Surge Current: Non-repetitive</p> <p>The figure will be less than 1/2 the rated value for repetitive input.</p> |

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.