

# Solid State Relays

## G3PA

Refer to *Warranty and Application Considerations* (page 1), *Safety Precautions* (page 4), and *Technical and Safety Information* (page 6).

### Extremely Thin Relays Integrated with Heat Sinks

- Downsizing achieved through optimum design of heat sink.
- Mounting possible via screws or via DIN track.
- Close mounting possible for linking terminals. (Except for G3PA-260B-VD and G3PA-450B-VD-2.)
- Applicable with 3-phase loads.
- Replaceable power element cartridges.
- Comply with VDE 0160 (finger protection), with a dielectric strength of 4,000 V between input and load.
- Comply with VDE 0805, IEC 950.
- Certified by UL, CSA, and VDE (reinforced insulation).



## Model Number Structure

### ■ Model Number Legend

G3PA-□□□□-□-□  
 1 2 3 4 5 6 7

#### 1. Basic Model Name

G3PA: Solid State Relay

#### 2. Rated Load Power Supply Voltage

2: 200 VAC

4: 400 VAC

#### 3. Rated Load Current

10: 10 A

20: 20 A

30: 30 A

40: 40 A

50: 50 A

60: 60 A

#### 4. Terminal Type

B: Screw terminals

#### 5. Zero Cross Function

Blank: Equipped with zero cross function

L: Not equipped with zero cross function

#### 6. Certification

VD: Certified by UL, CSA, and VDE

#### 7. Special Specifications

Blank: Standard models

2: 480-V models

# Ordering Information

## List of Models

Model	Isolation	Zero cross function	Indicator	Rated output load	Rated input voltage	
G3PA-210B-VD	Phototriac coupler	Yes	Yes	10 A at 24 to 240 VAC	5 to 24 VDC	
G3PA-220B-VD				20 A at 24 to 240 VAC		
G3PA-240B-VD				40 A at 24 to 240 VAC		
G3PA-260B-VD				60 A at 24 to 240 VAC		
G3PA-210BL-VD		No		10 A at 24 to 240 VAC		24 VAC
G3PA-220BL-VD				20 A at 24 to 240 VAC		
G3PA-240BL-VD				40 A at 24 to 240 VAC		
G3PA-260BL-VD				60 A at 24 to 240 VAC		
G3PA-210B-VD	Yes	Yes	10 A at 24 to 240 VAC	24 VAC		
G3PA-220B-VD			20 A at 24 to 240 VAC			
G3PA-240B-VD			40 A at 24 to 240 VAC			
G3PA-260B-VD			60 A at 24 to 240 VAC			
G3PA-420B-VD			20 A at 180 to 400 VAC	12 to 24 VDC		
G3PA-430B-VD			30 A at 180 to 400 VAC			
G3PA-420B-VD-2			20 A at 200 to 480 VAC			
G3PA-430B-VD-2			30 A at 200 to 480 VAC			
G3PA-450B-VD-2			50 A at 200 to 480 VAC			

Note: When ordering, specify the rated input voltage.

## Replacement Parts

Name	Carry current	Load voltage range	Model	Applicable SSR	VDE certification	
Power Device Cartridge	10 A	19 to 264 VAC	G32A-A10-VD DC5-24	G3PA-210B-VD DC5-24	Yes	
			G32A-A10L-VD DC5-24	G3PA-210BL-VD DC5-24		
			G32A-A10-VD AC24	G3PA-210B-VD AC24		
			G32A-A20-VD DC5-24	G3PA-220B-VD DC5-24		
	G32A-A20L-VD DC5-24		G3PA-220BL-VD DC5-24			
	G32A-A20-VD AC24		G3PA-220B-VD AC24			
	20 A		G32A-A40-VD DC5-24	G3PA-240B-VD DC5-24		
				G32A-A40L-VD DC5-24		G3PA-240BL-VD DC5-24
				G32A-A40-VD AC24		G3PA-240B-VD AC24
				40 A		G32A-A60-VD DC5-24
	G32A-A60L-VD DC5-24		G3PA-260BL-VD DC5-24			
	G32A-A60-VD AC24		G3PA-260B-VD AC24			
	60 A	150 to 440 VAC	G32A-A420-VD DC12-24			
			G32A-A430-VD DC12-24	G3PA-430B-VD DC12-24		
			180 to 528 VAC	G32A-A420-VD-2 DC12-24		G3PA-420B-VD-2 DC12-24
				G32A-A430-VD-2 DC12-24		G3PA-430B-VD-2 DC12-24
20 A	G32A-A450-VD-2 DC12-24	G3PA-450B-VD-2 DC12-24				
		30 A				
			50 A			

## Other Units (Order Separately)

### Units that Enable 2-line Switching of 3-phase Power

Name	Current flow	Model	Applicable SSR
Short-circuit Unit	10 A	G32A-D20	G3PA-210B-VD, G3PA-210BL-VD
	20 A		G3PA-220B-VD, G3PA-220BL-VD G3PA-420B-VD, G3PA-420B-VD-2
	30 A		G32A-D40
	40 A	G3PA-240B-VD, G3PA-240BL-VD	