Solid State Relays
G3NA

CSM_G3NA_DS_E_8_1

Wide Lineup of General-purpose Solid State Relays with Applicable Loads of 5 to 90 A

- AC Output Relays with 75-A and 90-A output currents have been added to the G3NA Series.
- All models feature the same compact dimensions to provide a uniform mounting pitch.
- Built-in varistor effectively absorbs external surges. (except G3NA-D210B)
- Operation indicator enables monitoring operation.
- Protective cover for greater safety.
- Standard models certified by UL and CSA and -UTU models by TÜV. (except G3NA-410B, G3NA-420B, and G3NA-440B(-2))

⚠ Refer to *Safety Precautions for All Solid State Relays*.

Model Number Structure

■ Model Number Legend

G3NA-□□□□□-□-□
1 2 3 4 5 6 7 8

1. **Basic Model Name**
   G3NA: Solid State Relay
2. **Load Power Supply**
   Blank: AC output
   D: DC output
3. **Rated Load Power Supply Voltage**
   2: 200 VAC or 200 VDC
   4: 400 VAC
4. **Rated Load Current**
   05: 5 A
   10: 10 A
   20: 20 A
   40: 40 A
   50: 50 A
   75: 75 A
   90: 90 A
5. **Terminal Type**
   B: Screw terminals
6. **Zero Cross Function**
   Blank: Equipped with zero cross function (AC-output models only)
7. **Certification**
   Blank: Standard models (certified by UL and CSA)
   UTU: Certified by UL, CSA, and TÜV
8. **RoHS Conformance**
   Blank: Non RoHS conformance (G3NA-275B, -290B, -440B, -450B, -475B, -490B series only)
   2: RoHs conformance

Ordering Information

■ List of Models

Isolation	Zero cross function	Indicator	Applicable output load (See note 1.)	Rated input voltage	Model
Phototriac Coupler	Yes	Yes (Yellow)	5 A at 24 to 240 VAC (See note 2.)	5 to 24 VDC	G3NA-205B DC5-24
Photocoupler				100 to 120 VAC	G3NA-205B AC100-120
				200 to 240 VAC	G3NA-205B AC200-240
Phototriac Coupler			10 A at 24 to 240 VAC (See note 2.)	5 to 24 VDC	G3NA-210B DC5-24
Photocoupler				100 to 120 VAC	G3NA-210B AC100-120
				200 to 240 VAC	G3NA-210B AC200-240
Phototriac Coupler			20 A at 24 to 240 VAC (See note 2.)	5 to 24 VDC	G3NA-220B DC5-24
Photocoupler				100 to 120 VAC	G3NA-220B AC100-120
				200 to 240 VAC	G3NA-220B AC200-240
Phototriac Coupler			40 A at 24 to 240 VAC (See note 2.)	5 to 24 VDC	G3NA-240B DC5-24
Photocoupler				100 to 120 VAC	G3NA-240B AC100-120
				200 to 240 VAC	G3NA-240B AC200-240
Phototriac Coupler			75 A at 24 to 240 VAC (See note 2.)	5 to 24 VDC	G3NA-275B-UTU-2 DC5-24
					G3NA-275B-UTU DC5-24 (See note 3.)
Photocoupler				100 to 120 VAC	G3NA-275B-UTU-2 AC100-240
					G3NA-275B-UTU AC100-240 (See note 3.)
Phototriac Coupler			90 A at 24 to 240 VAC (See note 2.)	5 to 24 VDC	G3NA-290B-UTU-2 DC5-24
					G3NA-290B-UTU DC5-24 (See note 3.)
Photocoupler				100 to 240 VAC	G3NA-290B-UTU-2 AC100-240
					G3NA-290B-UTU AC100-240 (See note 3.)
	Yes		10 A at 200 to 480 VAC	5 to 24 VDC	G3NA-410B DC5-24
				100 to 240 VAC	G3NA-410B AC100-240
			20 A at 200 to 480 VAC	5 to 24 VDC	G3NA-420B DC5-24
				100 to 240 VAC	G3NA-420B AC100-240
			40 A at 200 to 480 VAC	5 to 24 VDC	G3NA-440B-2 DC5-24
					G3NA-440B DC5-24 (See note 3.)
				100 to 240 VAC	G3NA-440B-2 AC100-240
					G3NA-440B AC100-240 (See note 3.)
			50 A at 200 to 480 VAC (See note 2.)	5 to 24 VDC	G3NA-450B-2 DC5-24
					G3NA-450B DC5-24 (See note 3.)
			75 A at 200 to 480 VAC (See note 2.)	5 to 24 VDC	G3NA-475B-UTU-2 DC5-24
					G3NA-475B-UTU DC5-24 (See note 3.)
				100 to 240 VAC	G3NA-475B-UTU-2 AC100-240
					G3NA-475B-UTU AC100-240 (See note 3.)
			90 A at 200 to 480 VAC (See note 2.)	5 to 24 VDC	G3NA-490B-UTU-2 DC5-24
					G3NA-490B-UTU DC5-24 (See note 3.)
				100 to 240 VAC	G3NA-490B-UTU-2 AC100-240
					G3NA-490B-UTU AC100-240 (See note 3.)
	---		10 A at 5 to 200 VDC	5 to 24 VDC	G3NA-D210B DC5-24
				100 to 240 VAC	G3NA-D210B AC100-240

* The standard models are certified by UL and CSA.
To order a TÜV-certified model for G3NA-205BN/210B/220B/240B/D210B, add "-UTU" to the model number.

Note: 1. The applicable load is the value for when the SSR is used with silicon grease applied to the specified heat sink. The applicable load depends on the ambient temperature. Refer to *Load Current vs. Ambient Temperature* in *Engineering Data* on page 6.

2. Loss time increases under 75 VAC. (Refer to page 15.) Confirm operation with the actual load.

3. Discontinuation models in January 2012. (Non RoHS conformance models)