

Solid State Relays


G3NA

The reliable choice for Hockey-puck-style Solid State Relays.
Available in a Wide Range of Currents.

- All models feature the same compact dimensions to provide a uniform mounting pitch.
- Built-in varistor effectively absorbs external surges. (except G3NA-D210B-UTU)
- Operation indicator enables monitoring operation.
- Protective cover for greater safety.
- Certified by UL, CSA, and TÜV.



For the most recent information on models that have been certified for safety standards, refer to your OMRON website.

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

The following models are scheduled to close the order at the end of March 2020.

- Models without "-UTU" (Not certified by TÜV)
- Models with rated input voltage "AC 100-120" and "AC 200-240".

Model Number Structure

Model Number Legend

G3NA-□□□□□-□
1 2 3 4 5 6 7

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

Note: Not all combinations of current and voltage are available.

05: 5 A

10: 10 A

20: 20 A

25: 25 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

UTU: Certified by UL, CSA, and TÜV

Ordering Information

■ List of Models

Isolation	Zero cross function	Indicator	Applicable output load (See note 1.)	Rated input voltage	Model
Phototriac	Yes	Yes	5 A at 24 to 240 VAC (See note 2.)	5 to 24 VDC	G3NA-205B-UTU DC5-24
Photocoupler				100 to 240 VAC	G3NA-205B-UTU AC100-240
Phototriac	Yes	Yes	10 A at 24 to 240 VAC (See note 2.)	5 to 24 VDC	G3NA-210B-UTU DC5-24
Photocoupler				100 to 240 VAC	G3NA-210B-UTU AC100-240
Phototriac	Yes	Yes	20 A at 24 to 240 VAC (See note 2.)	5 to 24 VDC	G3NA-220B-UTU DC5-24
Photocoupler				100 to 240 VAC	G3NA-220B-UTU AC100-240
Phototriac	Yes	Yes	25 A at 24 to 240 VAC (See note 2.)	5 to 24 VDC	G3NA-225B-UTU DC5-24
Photocoupler				100 to 240 VAC	G3NA-225B-UTU AC100-240
Phototriac	Yes	Yes	40 A at 24 to 240 VAC (See note 2.)	5 to 24 VDC	G3NA-240B-UTU DC5-24
Photocoupler				100 to 240 VAC	G3NA-240B-UTU AC100-240
Phototriac	Yes	Yes	50 A at 24 to 240 VAC (See note 2.)	5 to 24 VDC	G3NA-250B-UTU DC5-24
Photocoupler				100 to 240 VAC	G3NA-250B-UTU AC100-240
Phototriac	Yes	Yes	75 A at 24 to 240 VAC (See note 2.)	5 to 24 VDC	G3NA-275B-UTU-2 DC5-24
Photocoupler				100 to 240 VAC	G3NA-275B-UTU-2 AC100-240
Phototriac	Yes	Yes	90 A at 24 to 240 VAC (See note 2.)	5 to 24 VDC	G3NA-290B-UTU-2 DC5-24
Photocoupler				100 to 240 VAC	G3NA-290B-UTU-2 AC100-240
Photocoupler	---	---	10 A at 200 to 480 VAC	5 to 24 VDC	G3NA-410B-UTU DC5-24
				100 to 240 VAC	G3NA-410B-UTU AC100-240
Photocoupler	---	---	20 A at 200 to 480 VAC	5 to 24 VDC	G3NA-420B-UTU DC5-24
				100 to 240 VAC	G3NA-420B-UTU AC100-240
Photocoupler	---	---	25 A at 200 to 480 VAC	5 to 24 VDC	G3NA-425B-UTU-2 DC5-24
				100 to 240 VAC	G3NA-425B-UTU-2 AC100-240
Photocoupler	---	---	40 A at 200 to 480 VAC	5 to 24 VDC	G3NA-440B-UTU-2 DC5-24
				100 to 240 VAC	G3NA-440B-UTU-2 AC100-240
Photocoupler	---	---	50 A at 200 to 480 VAC	5 to 24 VDC	G3NA-450B-UTU-2 DC5-24
				100 to 240 VAC	G3NA-450B-UTU-2 AC100-240
Photocoupler	---	---	75 A at 200 to 480 VAC	5 to 24 VDC	G3NA-475B-UTU-2 DC5-24
				100 to 240 VAC	G3NA-475B-UTU-2 AC100-240
Photocoupler	---	---	90 A at 200 to 480 VAC	5 to 24 VDC	G3NA-490B-UTU-2 DC5-24
				100 to 240 VAC	G3NA-490B-UTU-2 AC100-240
Photocoupler	---	---	10 A at 5 to 200 VDC	5 to 24 VDC	G3NA-D210B-UTU DC5-24
				100 to 240 VAC	G3NA-D210B-UTU AC100-240

*All models are certified by UL, CSA, and TÜV.

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 16.) Confirm operation with the actual load.

■ Accessories (Order Separately)

One-touch Mounting Plates

Model
R99-12 FOR G3NA

Heat Sinks

DIN-track Mounting

Model	Applicable SSR
Y92B-N50	G3NA-205B-UTU, G3NA-210B-UTU, G3NA-D210B-UTU, G3NA-410B-UTU, G3NE-210T(L)-US
Y92B-N100	G3NA-220B-UTU, G3NA-420B-UTU, G3NE-220T(L)-US
Y92B-N150	G3NA-225B-UTU, G3NA-240B-UTU, G3NA-425B-UTU-2, G3NA-440B-UTU-2
Y92B-P250	G3NA-250B-UTU, G3NA-450B-UTU-2
Y92B-P250NF	G3NA-275B-UTU-2, G3NA-290B-UTU-2, G3NA-475B-UTU-2, G3NA-490B-UTU-2

Screw Mounting

Model	Applicable SSR
Y92B-A100	G3NA-205B-UTU, G3NA-210B-UTU, G3NA-D210B-UTU, G3NA-220B-UTU, G3NA-410B-UTU, G3NA-420B-UTU
Y92B-A150N	G3NA-225B-UTU, G3NA-240B-UTU, G3NA-425B-UTU-2, G3NA-440B-UTU-2
Y92B-A250	G3NA-440B-UTU-2