

Specifications

■ Ratings

Input (at an Ambient Temperature of 25°C)

Rated voltage	Operating voltage	Rated input current	Voltage level	
			Operation voltage	Release voltage
5 to 24 VDC	4 to 32 VDC	7 mA max.	4 VDC max.	1 VDC min.

Output

Model	Applicable load				
	Rated load voltage	Load voltage range	Load current (See note 1.)		Inrush current
			With heat sink (See note 2.)	Without heat sink	
G3NB-205B-1	24 to 220 VAC	19 to 286 VAC	0.1 to 6 A (at 25°C) 5 A (at 40°C)	0.1 to 3 A (at 40°C)	60 A (60 Hz, 1 cycle)
G3NB-210B-1			0.1 to 15 A (at 25°C) 10 A (at 40°C)	0.1 to 4 A (at 40°C)	150 A (60 Hz, 1 cycle)
G3NB-220B-1			0.1 to 25 A (at 25°C) 20 A (at 40°C)		220 A (60 Hz, 1 cycle)
G3NB-225B-1			0.1 to 25 A (at 25°C) 25 A (at 40°C)		220 A (60 Hz, 1 cycle)
G3NB-240B-1			0.1 to 40 A (at 25°C) 40 A (at 40°C)	0.1 to 6 A (at 40°C)	410 A (60 Hz, 1 cycle)
G3NB-275B-1			1 to 90 A (at 25°C) 75 A (at 40°C)	1 to 7 A (at 40°C)	800 A (60 Hz, 1 cycle)
G3NB-290B-1			1 to 110 A (at 25°C) 90 A (at 40°C)		900 A (60 Hz, 1 cycle)

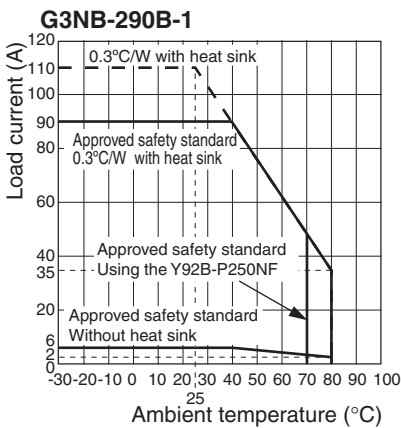
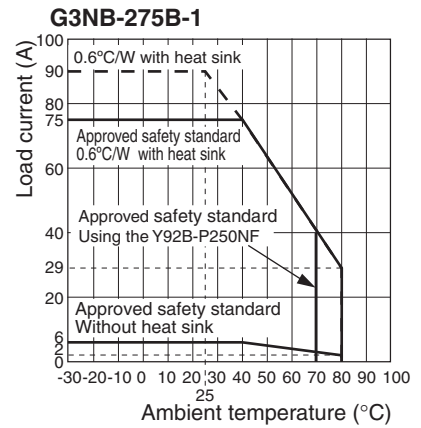
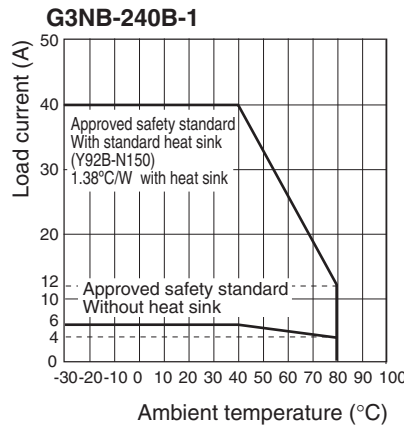
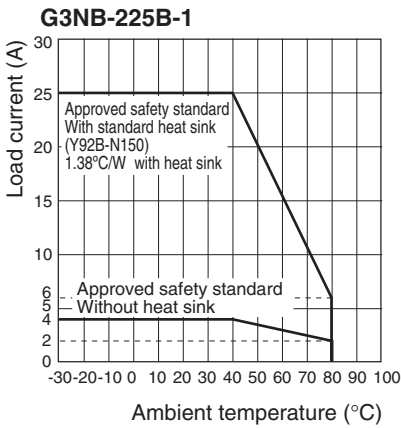
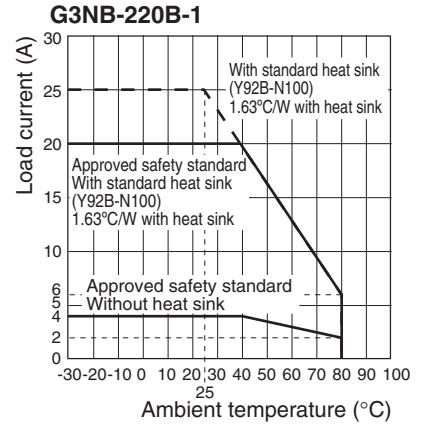
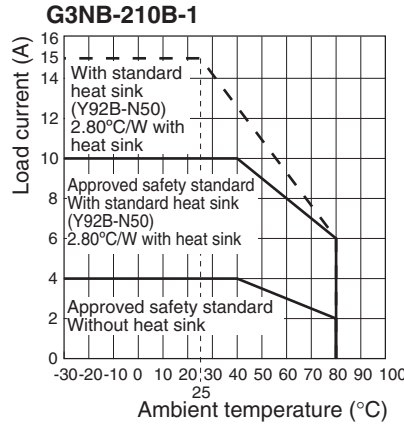
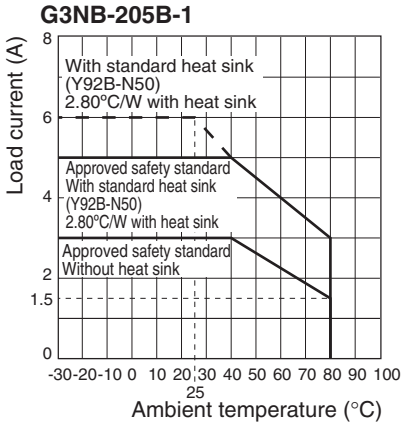
Note: 1. The load current varies depending on the ambient temperature. Refer to *Load Current vs. Ambient Temperature* under *Engineering Data*.
 2. When an OMRON Heat Sink (refer to *Options*) or a heat sink of the specified size is used. The values at 25°C are the maximum load currents.

■ Characteristics

Item	G3NB-205B-1	G3NB-210B-1	G3NB-220B-1	G3NB-225B-1	G3NB-240B-1	G3NB-275B-1	G3NB-290B-1
Operate time	1/2 of load power source cycle + 1 ms max.						
Release time	1/2 of load power source cycle + 1 ms max.						
Output ON voltage drop	1.6 V (RMS) max.						
Leakage	5 mA max. (at 100 VAC), 10 mA max. (at 200 VAC)						
Insulation resistance	100 MΩ min. (at 500 VDC)						
Dielectric strength	2,500 VAC, 50/60 Hz for 1 min						
Vibration resistance	Destruction: 10 to 55 to 10 Hz, 0.35-mm single amplitude (0.7-mm double amplitude)						
Shock resistance	Destruction: 1,000 m/s ²						
Ambient temperature	Operating: -30 to 80°C (with no icing or condensation) Storage: -30 to 100°C (with no icing or condensation)						
Ambient humidity	Operating: 45% to 85%						
Weight	Approx. 60 g (G3NB-205B-1 ~ 225B), 80 g (G3NB-240B-1), 110 g (G3NB-275B-1 ~ 290B-1)						

Engineering Data

Load Current vs. Ambient Temperature



Note: Ventilated of FAN; 0.22 m³/min

Note: The dotted line indicates the maximum load current.