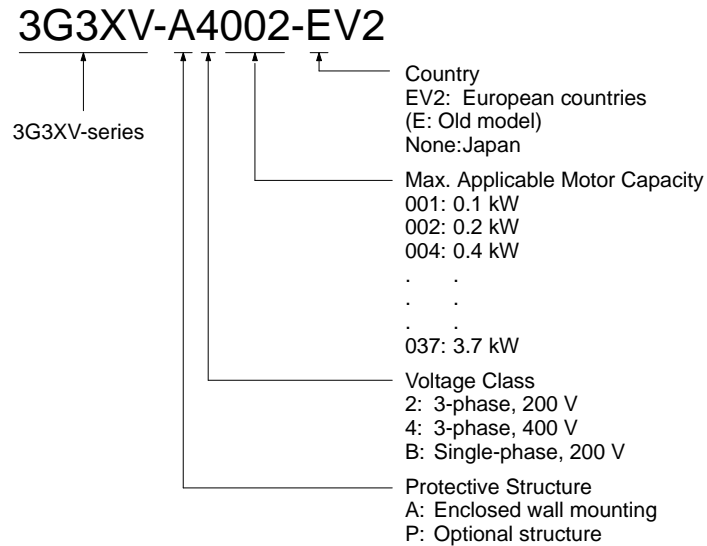


## Inverter Model Numbers



### ⚠ WARNING

- 1, 2, 3...**
1. After turning off the main circuit power supply, do not touch circuit components until the “CHARGE” indicator is extinguished. The capacitors are still charged and can be quite dangerous.
  2. Do not change the wiring while power is applied to the circuit.
  3. Do not check signals during operation.
  4. Be sure to ground 3G3XV using the ground terminal G (E).
  5. Never connect main circuit output terminals, T1 (U), T2 (V), T3 (W), to AC main circuit supply.

### ⚠ Caution

- 1, 2, 3...**
1. All the constants of 3G3XV have been adjusted at the factory. Do not change their settings unnecessarily.
  2. Do not perform withstand voltage test on any part of the 3G3XV Unit. This electronic equipment uses semi-conductors and is vulnerable to high voltage.

## 1-3 Installation

### 1-3-1 Location

Location of the equipment is important to achieve proper performance and normal operating life.

The 3G3XV Units should be installed in areas where the following conditions exist.

- Ambient temperature:
  - 10° to 40°C, 14° to 104°F (with top cover on)
  - 10° to 45°C, 14° to 113°F (with top cover off)
- Protected from rain or moisture.

## 1-6 Specifications

### 1-6-1 200-V-class Specifications

Inverter Model 3G3XV-□□□□-EV2	3-phase	A2001	A2002	A2004	A2007	A2015	A2022	A2037
	Single-phase	AB001	AB002	AB004	AB007	AB015	AB022	AB037
Max. applicable motor output Hp (kW) (see note 1)		0.13 (0.1)	0.25 (0.2)	0.5 (0.4)	1 (0.75)	2 (1.5)	3 (2.2)	5 (3.7)
Output characteristics	Inverter capacity (kVA)	0.3	0.6	1.1	1.9	2.5	4.2	6.7
	Rated output current (A)	0.8	1.5	3	5	6.5	11	17.5
	Max. output voltage	3-phase, 200 to 230 V (proportional to input voltage)						
	Max. output frequency	400 Hz (available with constant setting)						
Power supply	Rated input voltage and frequency	3-phase: 200 to 230 V, 50/60 Hz Single-phase: 200 to 240 V, 50/60 Hz						
	Allowable voltage fluctuation	±10%						
	Allowable frequency fluctuation	±5%						
Control characteristics	Control method	Sine wave PWM						
	Frequency control range	0.1 to 400 Hz						
	Frequency accuracy	Digital command: 0.01% +14° to 104°F, -10° to 40°C Analog command: 0.1% 77°±18°F, 25°±10°C						
	Frequency resolution	Digital Operator reference: 0.1 Hz. Analog reference: 0.06 Hz/60 Hz						
	Output frequency resolution	0.1 Hz						
	Overload capacity	150% rated output current for one minute						
	Frequency setting signal	0 to 10 VDC (20 kΩ), 4-20 mA (250 Ω)						
	Accel/decel time	0.1 to 600 sec (accel/decel time setting independently)						
	Braking torque	Approx. 20% (up to 150% possible with optional braking resistor externally mounted)						
	V/f characteristic	Possible to set any program of V/f pattern						
	Stall prevention level	Effective by current limiting at start and during running.						
Protective functions	Instantaneous overcurrent	Motor coasts to a stop at approx. 200% rated current.						
	Overload	Motor coasts to stop in 60 sec. at 150% rated output current						
	Ground fault	Provided by electronic circuit.						
	Motor overload protection	Electronic thermal overload relay						
	Overvoltage	Motor coasts to stop if main circuit DC voltage exceeds 410 V						
	Undervoltage	Motor coasts to a stop if the main circuit DC voltage of a 3-phase Model drops to 210 V or below and that of a Single-phase Model drops to 170 V or below.						
	Momentary power loss	Immediately stops if 15 ms or more momentary power loss. Resumes operating after a power loss period of approximately 2 s if the input is 1.5 kW or more and approximately 1 s if the input is 0.75 kW or less in a certain mode.						
	Cooling fin overheat	Protected by thermoswitch (only for forced cooling method)						
	Power charge indication	CHARGE indicator stays ON until main circuit DC voltage drops below 50 V.						