

Chapter 9 Specifications

9-1 Inverter Specifications

■ 200V Inverters

Single-phase 200V	3G3JZ-AB □□□		002	004	007	015	022	
	Max. applicable motor power(KW)		0.2	0.4	0.75	1.5	2.2	
	Output	Rated output capacity(KVA)	0.6	1.0	1.6	2.9	4.2	
		Rated output current (A)	1.6	2.5	4.2	7.5	11.0	
		Max. output voltage (V)	3-phase 200 ~ 240VAC (Corresponds to input voltage)					
		Output frequency range (Hz)	0.1 ~ 600Hz					
		Carrier frequency (kHz)	2-15					
	Supply	Input current (A)	4.9	6.5	9.7	15.7	24	
		Rated voltage, frequency	Single-phase power supply 200 ~ 240V, 50/60Hz					
		Allowable input voltage fluctuation range	± 10%					
		Allowable power supply frequency fluctuation	± 5%					
	Cool down method		Naturally wind cooling			Forced cool down		
Weight (kg)		1.1	1.1	1.1	1.9	1.9		

3-phase 200V	3G3JZ-A2 □□□		002	004	007	015	022	037
	Max. applicable motor power (KW)		0.2	0.4	0.75	1.5	2.2	3.7
	Output	Rated output capacity(KVA)	0.6	1.0	1.6	2.9	4.2	6.5
		Rated output current (A)	1.6	2.5	4.2	7.5	11.0	17
		Max. output voltage (V)	3-phase 200 ~ 240VAC (Corresponds to input voltage)					
		Output frequency range(Hz)	0.1 ~ 600Hz					
		Carrier frequency (kHz)	2-15					
	Supply	Input current (A)	1.9	2.7	5.1	9	15	20.6
		Rated voltage, frequency	3-phase power supply 200 ~ 240V, 50/60Hz					
		Allowable input voltage fluctuation range	± 10%					
		Allowable power supply frequency fluctuation	± 5%					
	Cool down method		Naturally wind cooling			Forced cool down		
Weight (kg)		1.1	1.1	1.1	1.2	1.9	1.9	

■ 400V Inverters

3-phase 400V	3G3JZ-A4 □□□		004	007	015	022	037
	Max. applicable motor power (KW)		0.4	0.75	1.5	2.2	3.7
	Output	Rated output capacity (KVA)	1.2	2.0	3.3	4.4	6.8
		Rated output current (A)	1.5	2.5	4.2	5.5	8.2
		Max. output voltage (V)	3-phase 380 ~ 480VAC (Corresponds to input voltage)				
		Output frequency range (Hz)	0.1 ~ 600Hz				
		Carrier frequency (kHz)	2-15				
	Power supply	Input current (A)	1.9	3.2	4.3	7.1	11.2
		Rated voltage, frequency	3-phase power supply 380 ~ 480V, 50/60Hz				
		Allowable input voltage fluctuation range	± 10%				
		Allowable power supply frequency fluctuation	± 5%				
	Cool down method		Naturally wind cooling		Forced cool down		
	Weight (kg)		1.2	1.2	1.2	1.9	1.9

■ General Specifications

Control characteristic	Control method	Sine wave PWM method
	Frequency setting resolution	Digital command: 0.01Hz (100Hz max.), 0.1Hz (100Hz min.)
	Output frequency resolution	0.01Hz (calculate resolution)
	Overload withholding	150% of rated output current 1 minute
	External frequency setting signal	Switch: 0 to +10VDC (47k \wedge /4 to 20mA(250 \wedge)/frequency adjuster/Multi-step speed reference (7 step speed)
	acceleration/deceleration time	0.00 ~ 600.0 seconds (acceleration/deceleration time set separately)
	Braking torque	continuous approximate 20%
	Voltage/frequency characteristic	any V/f form setting
Protect function	Motor protect	Protect with electronic thermal function
	Momentary overcurrent protect	Stop when rated output current is more than 240%
	Overload protect	Stop when it keeps at 150% of rated output current for 1 minute
	Overvoltage protect	Stop at 410 VDC for 200 V model/820 VDC for 400 V model
	Undervoltage protect	Main circuit DC voltage: stop below 200 VDC for 200 V model, 400 VDC for 400 V model
	Momentary power OFF	Immediate stop (stop over 15 ms) or keep running till the time setting (0.1 to 5.0) elapses
	Heatsink overheat	Check when the heatsink temperature is 90 °C
	Ground protect	Protect when inverter's rated output current is approximate 50%
Environment	Location of use	Indoor (no corrosive gas or dust)
	Ambient Operating Temperature	In-panel mounting type: -10 °C to +50 °C (close mounting: -10 °C to +40 °C)
	Ambient operating humidity	90%RH max. (without condensation)
	Storage temperature	-20 °C to +60 °C
	Elev.	1000m max.
	Insulation resistance	5M \wedge min. (do not perform an insulation test or voltage withstand test)
Shock resistance	frequency less than 10 to 20 Hz 9.8 m/s ² (1G) max., 20 to 50 Hz 5.9 m/s ² (0.6G) max.	
Enclosure	In-panel mounting type (IP20)	
Conformity	CE Directive conformed	