Specifications

■ Rated input/output

SV□□□ iG5A-□			055-2	075-2	055-4	075-4
Motor Note 1		[HP]	7.5	10	7.5	10
		[kW]	5.5	7.5	5.5	7.5
Rated output	Capacity	[kVA] Note 2	9.1	12.2	9.1	12.2
	Current	[A] Note 3	24	32	12	16
	Frequency		0~400 [Hz] Note 4			
	Voltage	[V]	3Phases 200~230V Note 5		3Phases 380~460V Note 5	
Rated input	Voltage	[V]	3Phases 200~230 VAC (+10%, -15%)		3Phases 380~460 VAC (+10%, -15%)	
	Frequency		50~60 [Hz] (±5%)			
Cooling type			Forced cooling			
Weight		(kg)	3.86	4.01	3.86	4.01

Note 1 : The motor capacities were indicated assuming to use 4 poles standard motors.
Note 2 : The rated input voltage for 200V is 220V and 400V is 440V.
Note 3 : Derating is needed when the carrier frequency is setup over 3kHz.
Note 4 : The maximum frequency can not be setup up to 300Hz in case of sensorless vector control.
Note 5 : The maximum output voltage does not rise over rated input voltage and the output voltage can be freely set up unless it exceeds the input voltage.

■ Control

Control type		V/F and sensloress vector
Frequency setup resolution		Digital : 0.01Hz Analog : 0.06Hz (Maximum frequency:60Hz)
Frequency precision		Digital operation : 0.01% of maximum output frequency Analog operation : 0.1% of maximum output frequency
V/F pattern		Linear, square, user V/F
Overload capacity		150%/1Minute
Torque boost		Manual torque boost and auto torque boost
Regenerative braking torque	Maximum brake Time/	20% Note 1 150% with resistor Note 2

Note 1 : 20% torque regenerative refers to the average braking torque of the motor loss which is generated at deceleration stopping.
Note 2 : Please refer to the user manual regarding the braking resistor specification.

■ Operation

Operation type		Selection among loader, terminal, communication, remote loader operations	
Frequency setup		Digital : Loader Analog : 0~10V, -10~+10V, 0~20mA	
Operation function		PID control, up-down operation, 3-wire operation	
Input	P1~P8 Multi function terminal (8points)	NPN/ PNP selection	
		Function : Forward run, reverse run, emergency stop, fault reset, Jog, multi-step frequency-high, middle, low, multi-step deceleration-high, middle,low, DC braking during stop, second motor selection, frequency increase, frequency decrease, 3-wire run, external trip A/B, changing run pattern from PID to normal operation mode	
		Changing run pattern from the option run to main operation mode, analog frequency fix, Selecting during acceleration/decerelation stop	
Output	Multi function open collector terminal	Outputs of the inverter faults or running modes	Below DC 24V 50mA
	Multifunction relay terminal		Below 1 A (N.O, N.C) AC250V, Below 1A DC30V
	Analog output	0~10Vdc (Below 10mA) : Selection among frequency, current, voltage, DC voltage	

■ Protective feature

Trip	Over voltage, low voltage, over current, ground fault current detection, inverter over-heating, motor over-heating, output overload protection, communication error, output phase open, frequency command loss, hardware fault, cooling fan fault
Alarm	Stall prevention, overload
Instant power failure	Below 15msec : Runs without stopping yet both input voltage and output should be within rated value Over 15 Msec: Automatic restart

■ Exterior structure and Environment

Protection	Open type IP20
Ambient temperature	-10℃~50℃
Storage temperature	-20℃~65℃
Ambient humidity	Below 90% RH (Non-condensing)
Altitude, vibration	Below 1000M or 3,300FT . Below 5.9m/sec^2 (0.6G)
Ambient atmospheric pressure	70~106 kPa
Application site	No corrosive gas, combustible gas, oil mist or dust

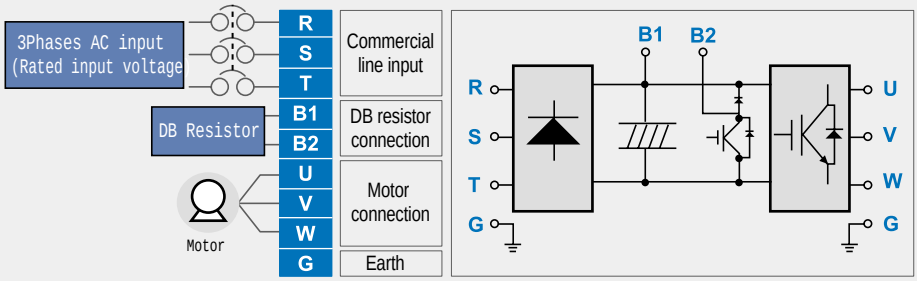
Wiring & Dimension

Wiring

Control terminal

Terminal	Function	
MO	Multi function open-collector output	
MG	MO common	
24	24V ouput /100mA	
P1	Multi function input (initial setup)	FX : Forward run command
P2		RX : Reverse run command
CM	Input signal common	
P3	Multi function input (initial setup)	BX : Emergency stop
P4		JOG : Jog frequency run
P5		RST : Trip release signal
CM	Input signal common	
P6	Multi function input (initial setup)	Multi step frequency-low
P7		Multi step frequency-middle
P8		Multi step frequency-high
VR	10V output terminal for the vloume resistor	
V1	Voltage signal input for frequency setup : -10~+10V	
I	Current signal input for frequency setup : 0~20mA	
AM	Multi function analog output signal : 0~10V	
3A	Multi function relay output	A contact point output
3B		B contact point output
3C		Contact point common
S+	RS485 communication signal connection	
S-		

Power Terminals



Dimension

Inverter	SV055iG5A-2	SV075iG5A-2	SV055iG5A-4	SV075iG5A-4
Capacity [kW]	5.5	7.5	5.5	7.5
W [mm]	180	180	180	180
W1 [mm]	170	170	170	170
H [mm]	220	220	220	220
H1 [mm]	210	210	210	210
D [mm]	170	170	170	170
ϕ [mm]	4.5	4.5	4.5	4.5
A [mm]	5	5	5	5
B [mm]	4.5	4.5	4.5	4.5
Weight [Kg]	3.86	4.01	3.86	4.01