

AC Inverter Drive Speed Controller

Model: SV008iC5-1



Features:

-Sensor less vector control

The iC5 adopts sensor less vector control algorithm, and it improves not only the torque control characteristics, but the speed controllability in an uncertain condition caused by the load variation as well.

-Auto Tuning: The auto tuning algorithm in the iC5 sets the motor factors automatically that brings the traditional commissioning difficulties mainly in low speed by the load variation and the low torque generation to a settlement.

-Highly efficient DSP chip: The iC5 adopts highly efficient DSP (Digital Signal Processing) chip to improve processing speed, flexibility, stability and etc.

-PNP, NPN Dual Control Signal

The iC5 provides PNP and NPN signals for outside controllers.

It works with 24Vdc regardless of the type of PLC or control signals.

-Communication interface, Modbus-RTU: The iC5 provides the most popular communication interface, Modbus-RTU for remote control by PLC or other devices.

-PID Control: PID process control is used in iC5 to make speed corrections quickly with a minimal amount of overshoot and oscillation for the control of flow, temperature, pressure and etc.

Specifications:

Motor Rating	[HP]	1
	[kW]	0.75
Output Ratings	Capacity[kVA]	1.9
	FLA[A]	0.95
	Output frequency	0 ~ 400Hz
	Output voltage	3 Phasde200~230V
Input Ratings	Voltage	Single phase 200 ~ 230 V (±10%)
	FLA[A]	5.5
	Frequency	50 ~ 60 Hz (± 5%)
Control	Control Method	V/F control, Errorless vector control
	Frequency Setting resolution	Digital reference: 0.01Hz Analog reference: 0.06Hz/60Hz
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	V/F Ratio	Linear, Square pattern, User V/F
	Overload Capacity	1 min at 150%, 30 sec at 200% (with inverse characteristic)
	Torque boost	Manual torque boost (0~15 adjustable), auto torque boost
Input signal	Operation Method	Keypad / Terminal / Communications
	Frequency Setting	Analog: 0~10V / 4~20mA, Digital: Keypad, Communication: RS485 (Option)
	Start Signal	Forward, Reverse
	Multi-Step Accel/Decel Time	0.1~6000 sec. Max. 8 types available by multi-function terminal, Selectable accel/decel patterns : Linear, U and S
	Emergency Stop	Interrupting the output of the drive.
	Jog	Jog operation
	Fault Reset	Reset the fault when protective function is active
Output signal	Operation Status & Fault Output	Frequency detection, Overload alarm, Stalling, Overvoltage, Under voltage, Drive overheating, Run, Stop, Constant speed, Speed searching, Fault output (Relay and Open collector output)
	Indicator	Choose one from output frequency, current, voltage and DC voltage.(Output voltage : 0~10V)
	Operation Function	DC braking, Frequency limit, Frequency jump, Second function, Slip compensation, Reversing prevention, Auto restart, PID control
Protection functions	Drive Trip	Overvoltage, Under voltage, Overcurrent, Drive over temperature, Motor over temperature, I/O phase loss, I/O mis-wiring, Overload , External device fault 1.2, Loss of speed command, Hardware fault, Communication error, CPU error
	Drive Alarm	Stall prevention, Overload alarm
	Momentary Power Loss	Less than 15 msec: keeping operation More than 15 msec: auto restart available

Display Keypad	Operation Information	Output frequency, current and voltage, Set frequency value, Operation speed, DC voltage
	Trip Information	Display the trip cause when the protection function activates. Recent 5 faults records stored
Environment	Ambient Temperature	-10 ~ 40 °C
	Storage Temperature	-20 ~ 65 °C
	Humidity	90 %RH max (No condensing)
	Atmosphere	No corrosive gas, flammable gas, oil mist or dust
	Pressure	70 ~ 106k Pa

Display		
FWD	It is lit in forward operation.	It blinks when it breaks down.
REV	It is lit in reverse operation.	
7-Segment	Display the operation condition and the parameter information.	

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