



SC3 Series



Factory Automation overseas sales division

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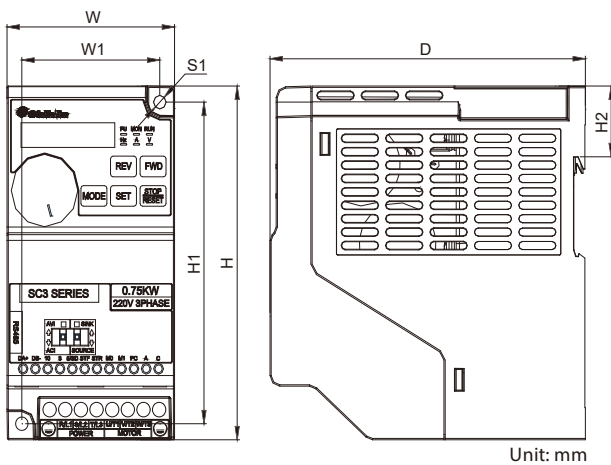
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Main features

- High performance vector control
- Full PCB coating and isolated air duct
- Dual RS485 communication interface: RJ45 and DA DB terminals
- Built-in PID controller
- Built-in RFI filter
- Built-in Modbus communication (up to 115200bps)
- Built-in 8 sets of programmed operation function
- Cooling fan auto on/off in different temperature
- Din rail installation
- 12 sets of alarm record, with detailed information of the latest 2 alarm (with frequency / current / voltage / temperature rising rate /DC bus voltage / operation time record)

Dimensions



Model	Frame	W	W1	H	H1	H2	D	S1
SC3-021-0.2K	A	68	56	132	120	26.5	128	5
SC3-021-0.4K								
SC3-021-0.75K								
SC3-023-0.2K								
SC3-023-0.4K								
SC3-023-0.75K								
SC3-023-1.5K								
SC3-043-0.4K								
SC3-043-0.75K								
SC3-043-1.5K								
SC3-021-1.5K	B	136	125	147	136	26.5	128	5
SC3-021-2.2K								
SC3-023-2.2K								
SC3-023-3.7K								
SC3-043-2.2K								
SC3-043-3.7K								
SC3-043-5.5K								

Common specifications

Control method	SVPWM, V/F control, General flux vector control.	
Output frequency range	0~599.00Hz	
Input terminal	Digital	4 terminals, able to switch between sink/source.
	Analog	1 terminal, able to switch between 4~20mA and 0~10V
Output terminal	Digital	1 programmable NO relay.
	Analog	none
Brake transistor	Built-in in frame B	
Starting torque	Under General flux vector control: 180%/3Hz, 200%/5Hz	
Drive motor	Induction motor (IM).	
Communication function	RS485 communication, Shihlin/Modbus communication protocol, baud rate up to 115200bps	
Environment	Ambient temperature	-10~+50°C(non-freezing) , side by side installation-10~+40°C(non-freezing).
	Ambient humidity	Below 90%Rh (non-condensing).
	Storage temperature	-20~+65°C
	Surrounding	Indoor, no corrosive gas, no flammable gas, no flammable powder.



Electrical specifications

3 Phase 440V

Frame		A			B		
SC3-043-□□□K-xy		0.4	0.75	1.5	2.2	3.7	5.5
Inverter Output	Rated output capacity (kVA)	1	2	3	4.6	6.9	9.2
	Rated output current (A)	1.5	2.6	4.2	6	9	12
	Applicable motor capacity (HP)	0.5	1	2	3	5	7.5
	Applicable motor capacity (kW)	0.4	0.75	1.5	2.2	3.7	5.5
	Overload current rating	150% 60 seconds, 200% 1 second					
	Carrier frequency (kHz)	1~15kHz					
Maximum output voltage		3 phase 380-480V					
Power Supply	Rated input AC voltage/ frequency	3 phase 380-480V 50Hz / 60Hz					
	Permissible AC voltage fluctuation	3 phase 323-528V 50Hz / 60Hz					
	Permissible frequency fluctuation	±5%					
	Power supply capacity (kVA)	1.8	3.2	4.3	7.1	10	14
Cooling method		No fan	Fan cooling				
Weight (kg)		0.74	0.74	0.81	1.37	1.37	1.42

3 Phase 220V

Frame		A			B		
Model SC3-023-□□□K-xy		0.2	0.4	0.75	1.5	2.2	3.7
Inverter Output	Rated output capacity (kVA)	0.6	1.2	2	3.2	4.2	6.7
	Rated output current (A)	1.8	3	5	8	11	17.5
	Applicable motor capacity (HP)	0.25	0.5	1	2	3	5
	Applicable motor capacity (kW)	0.2	0.4	0.75	1.5	2.2	3.7
	Overload current rating	150% 60 seconds, 200% 1second					
	Carrier frequency (kHz)	1~15kHz					
Maximum output voltage		3 phase 200-240V					
Power Supply	Rated input AC voltage/ frequency	3 phase 200-240V 50Hz / 60Hz					
	Permissible AC voltage fluctuation	3 phase 170-264V 50Hz / 60Hz					
	Permissible frequency fluctuation	±5%					
	Power supply capacity (kVA)	2.1	3.2	5.6	9.3	15	20.6
Cooling method		No fan	Fan cooling				
Weight (kg)		0.69	0.69	0.70	0.73	1.32	1.4

Single-phase 220V

Frame		A			B	
Model SC3-021-□□□K-xy		0.2	0.4	0.75	1.5	2.2
Inverter Output	Rated output capacity (kVA)	0.6	1	1.5	2.5	4.2
	Rated output current (A)	1.8	2.7	4.5	8	11
	Applicable motor capacity (HP)	0.25	0.5	1	2	3
	Applicable motor capacity (kW)	0.2	0.4	0.75	1.5	2.2
	Overload current rating	150% 60 seconds, 200% 1second				
	Carrier frequency (kHz)	1~15kHz				
Maximum output voltage		3 phase 200-240V				
Power Supply	Rated input AC voltage/ frequency	single phase 200-240V 50Hz / 60Hz				
	Permissible AC voltage fluctuation	single phase 170-264V 50Hz / 60Hz				
	Permissible frequency fluctuation	±5%				
	Power supply capacity (kVA)	5.4	6.5	9.3	15.7	24
Cooling method		No fan	Fan cooling			
Weight (kg)		0.66	0.68	0.73	1.38	1.4

Distributor

DM210802-L-SC3

