



## SE3 Series

### Factory Automation overseas sales division

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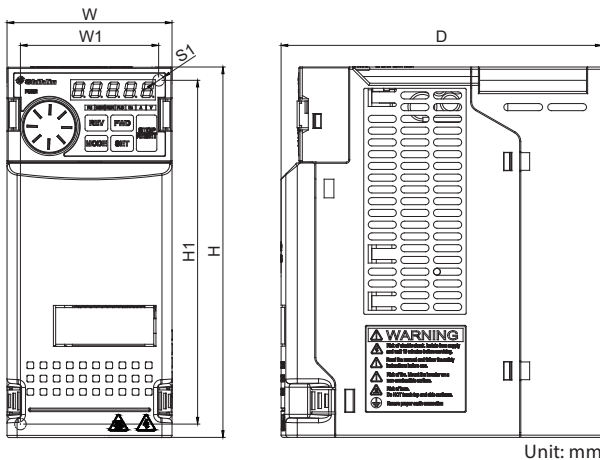
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### Main features

- Closed-loop vector control (FOC+PG), Torque control (TQC +PG)
- Dual RS485 communication interface: RJ45 and DA DB terminals
- Output frequency can be controlled by PWM pulse input signal
- Asynchronous (IM) motor and PM motor (SPM & IPM) control
- Capable of performing position control, torque control with mode switch function
- Built-in PLC function: free PLC ladder programming software for easy programming with 21 basic commands and 14 application commands
- Optional encoder PG cards (Open-Collector, Line-Driver, Resolver) /communication cards (CANopen, DeviceNet, Profibus-DP, Ethernet, EtherCAT)/ IO cards(6 digital input 2 relay output/ 8 relay output)

### Dimensions



Model	Frame	W	W1	H	H1	D	S1
SE3-043-0.4~1.5K	A	74.0	62.0	167.0	155.0	144.0	5.2
SE3-023-0.4~1.5K							
SE3-021-0.4~0.75K							
SE3-043-2.2~3.7K	B	105.0	93.0	178.0	166.0	146.0	5.2
SE3-023-2.2~3.7K							
SE3-021-1.5~2.2K							
SE3-043-5.5~11K	C	141.0	123.6	270.0	252.6	185.0	6.5
SE3-023-5.5~7.5K							
SE3-043-15~22K	D	175.0	156.4	300.0	281.4	191.8	6.2
SE3-023-11~15K							

### Common specifications

Control method		SVPWM control, V/F control, close-loop V/F control (VF+PG), general flux vector control, sensorless vector control (SVC), close-loop vector control (FOC+PG), torque control (TQC+PG).
Output frequency range		0~599Hz (*1)
Input terminal	Digital	6 terminals, 1 with 100kHz and 2 with 33kHz input resolution, able to switch between sink/source.
	Analog	2 terminals, 1 with 4~20mA or 0~10V range, 1 with -10~+10V range.
Output terminal	Digital	1 programmable 1a1b relay, 1 programmable transistor, 1 high speed pulse output.
	Analog	1 with 0~10V/0~20mA/4~20mA range.
Brake transistor		Built-in in all size
Starting torque		200%/0.5 Hz
Drive motor		Induction motor(IM), permanent magnet motor(SPM, IPM).
Communication function		Built-in Shihlin/Modbus communication protocol, can select Modbus TCP/CANopen/Profibus/DeviceNet/EtherCAT card
Environment	Ambient temperature	Heavy load:-10~+50°C (non-freezing), Light load:-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.

\*1: SE3 series can be customized up to 1500Hz. Please contact us if necessary.



### Electrical specifications

#### 3 Phase 220V

frame		A			B		C			D			
Model SE3-023-【】-xy		0.4K	0.75K	1.5K	2.2K	3.7K	5.5K	7.5K	11K	15K	18.5K	22K	
Inverter Output	HD	Rated output capacity (kVA)	1	2	3	4.6	6.9	10	14	18	25	29	34
		Rated output current (A)	1.5	2.7	4.2	6	9	12	17	24	32	38	45
		Applicable motor capacity (HP)	0.5	1	2	3	5	7.5	10	15	20	25	30
		Applicable motor capacity (kW)	0.4	0.75	1.5	2.2	3.7	5.5	7.5	11	15	18.5	22
		Overload current rating	150% 60 seconds, 200% 3 seconds										
	Carrier frequency (kHz)	1~15kHz											
	ND	Rated output capacity (kVA)	1.4	2.3	3.5	5	8	12	15.6	21.3	27.4	31.6	37.3
		Rated output current (A)	1.8	3	4.6	6.5	10.5	15.7	20.5	28	36	41.5	49
		Applicable motor capacity (HP)	0.5	1	2	3	5	7.5	10	15	20	25	30
		Applicable motor capacity (kW)	0.4	0.75	1.5	2.2	3.7	5.5	7.5	11	15	18.5	22
Overload current rating		120% 60 seconds											
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)	1.5	2.5	4.5	6.9	10.4	11.5	16	20	27	32	41	
Cooling method		No fan			Fan cooling								
Weight (kg)		1.0	1.0	1.0	1.5	1.5	3.9	4.0	4.0	5.7	5.8	5.8	

#### 3 Phase 440V

frame		A			B		C			D	
Model SE3-043-【】-xy		0.4K	0.75K	1.5K	2.2K	3.7K	5.5K	7.5K	11K	15K	
Inverter Output	HD	Rated output capacity (kVA)	1.2	2	3.2	4.2	6.7	9.5	12.5	18.3	24.7
		Rated output current (A)	3	5	8	11	17.5	25	33	49	65
		Applicable motor capacity (HP)	0.5	1	2	3	5	7.5	10	15	20
		Applicable motor capacity (kW)	0.4	0.75	1.5	2.2	3.7	5.5	7.5	11	15
		Overload current rating	150% 60 seconds, 200% 3 seconds								
	Carrier frequency (kHz)	1~15kHz									
	ND	Rated output capacity (kVA)	1.3	2.1	3.4	4.8	7.4	10.3	13.7	19.4	26.3
		Rated output current (A)	3.2	5.5	8.5	12.5	19.5	27	36	51	69
		Applicable motor capacity (HP)	0.5	1	2	3	5	7.5	10	15	20
		Applicable motor capacity (kW)	0.4	0.75	1.5	2.2	3.7	5.5	7.5	11	15
Overload current rating		120% 60 seconds									
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)	1.5	2.5	4.5	6.4	10	12	17	20	28	
Cooling method		No fan			Fan cooling						
Weight (kg)		1.0	1.0	1.0	1.5	1.5	4.0	4.1	5.7	5.8	

#### Single-phase 220V

frame		A		B		
Model SE3-021-【】-xy		0.4K	0.75K	1.5K	2.2K	
Inverter Output	HD	Rated output capacity (kVA)	1	1.5	3.2	4.2
		Rated output current (A)	2.7	4.5	8	11
		Applicable motor capacity (HP)	0.5	1	2	3
		Applicable motor capacity (kW)	0.4	0.75	1.5	2.2
		Overload current rating	150% 60 seconds, 200% 3 seconds			
	Carrier frequency (kHz)	1~15kHz				
	ND	Rated output capacity (kVA)	1.2	2	3.4	4.8
		Rated output current (A)	3	5	8.5	12.5
		Applicable motor capacity (HP)	0.5	1	2	3
		Applicable motor capacity (kW)	0.4	0.75	1.5	2.2
Overload current rating		120% 60 seconds				
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)	1.5	2.5	4.5	6.9	
Cooling method		No fan		Fan cooling		
Weight (kg)		1.0	1.0	1.5	1.5	



Distributor

DM220426-L-SE3