

SE2 Series

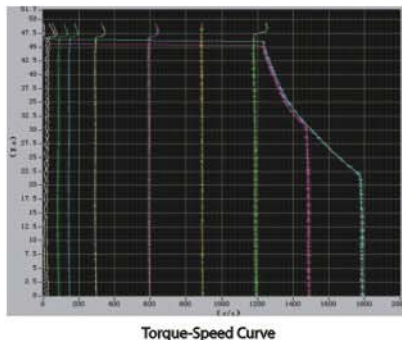
High Performance Vector Control AC Drive



Product Features

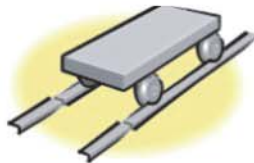
High-performance sensorless vector control technique

- A 32-bit RISC CPU for high-speed computation.
- Starting torque, 150% / 1Hz
- High-precision motor parameter auto-tuning function.
- Speed accuracy is within 1% (0%~100% loading change)
- Speed control ratio is up to 1:100



Excellent performance with load capacity of 200% 1s

- For impact load, safe to use (punch/trolley/injector/screw machinery/machine tool, and so on).

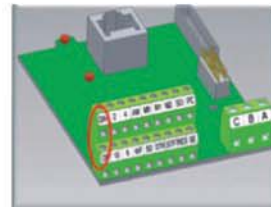


Built-in brake transistor

- The entire series have a built-in brake transistor (0.4KW~11KW).
- The brake resistor connection enhances the brake torque capacity.

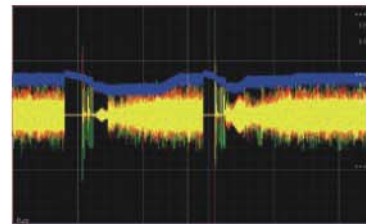
Built-in RS-485 interface

- Additional two communication terminals on the control board.
- Capable of simultaneous connections resulting a HMI, PLC and other devices.



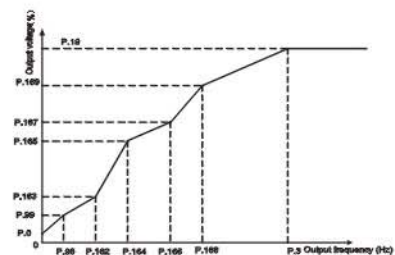
Tracking compensation mechanism

- The enhanced tracking mechanism can detect the rotation speed and direction of motor in idle state, resulting a smooth machine start without jittering.



5-point V/F free setting

- It is more adaptable to various complicated load environment, such as multiple working frequencies.



Equipped with Soft-PWM mechanism

- Soft-PWM controls the motor noises, transforming the metal sound into a delightful complex tone.
- It provides low noise operation and reduces interference to external RF, ensuring stable operations of nearby PLC and encoder devices.

Electric Specifications

220V Single-phase Series

Model SE2-021-□□□K		0.4K	0.75K	1.5K	2.2K
Applicable Motor Capacity	HP	0.5	1	2	3
	kW	0.4	0.75	1.5	2.2
Output	Rated Output Capacity kVA	1.2	1.9	3.0	4.2
	Rated Output Current A	3.0	5.0	8.0	11.0
	Overload current rating	150% 60 seconds; 200% 1 second (inverse time characteristics)			
	Maximum Output Voltage	3 Phase 200~240V AC			
Power	Rated Power Voltage	single phase 200~240V 50Hz / 60Hz			
	Permitted Power and Voltage Range	single phase 180~264V 50Hz / 60Hz			
	Adjustable Power and Frequency Range	±5%			
	Power supply capacity kVA	1.8	3	4.5	6.4
Cooling Method		Self-cooling	Forced Air cooling		
Weight (Kg)		1.2	1.2	1.9	1.9

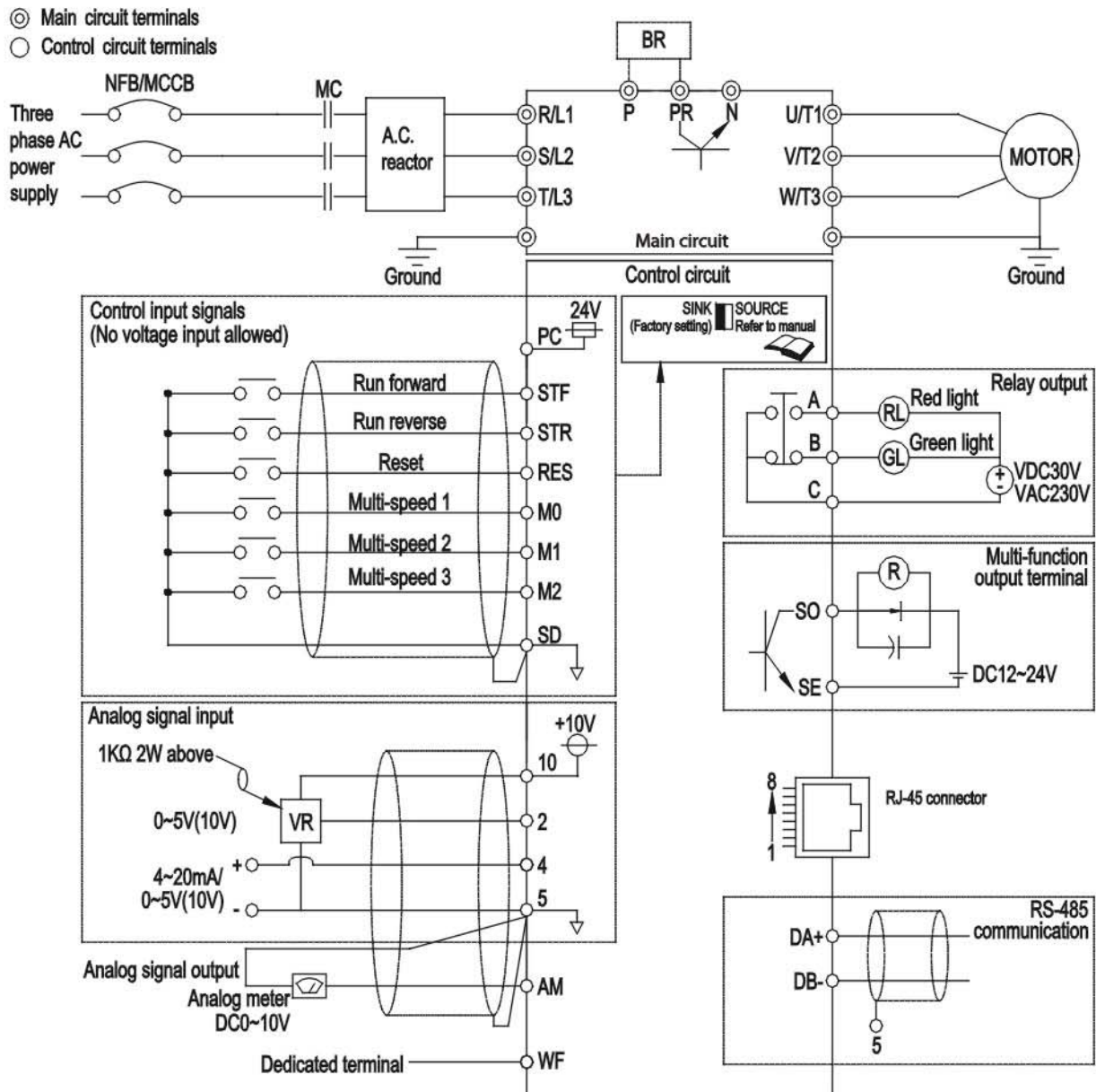
220V Three-phase Series

Model SE2-023-□□□K		0.4K	0.75K	1.5K	2.2K	3.7K	5.5K	7.5K
Applicable Motor Capacity	HP	0.5	1	2	3	5	7.5	10
	kW	0.4	0.75	1.5	2.2	3.7	5.5	7.5
Output	Rated Output Capacity kVA	1.2	1.9	3.0	4.2	6.7	9.2	12.6
	Rated Output Current A	3.0	5.0	8.0	11.0	17.5	24	33
	Overload current rating	150% 60 seconds; 200% 1 second (inverse time characteristics)						
	Maximum Output Voltage	3 Phase 200~240V AC						
Power	Rated Power Voltage	3 Phase 200~240V 50Hz / 60Hz						
	Permitted Power and Voltage Range	3 Phase 170~264V 50Hz / 60Hz						
	Adjustable Power and Frequency Range	±5%						
	Power supply capacity kVA	1.8	3	4.5	6.4	10	13.8	19
Cooling Method		Self-cooling	Forced Air cooling					
Weight (Kg)		1.2	1.2	1.2	1.9	1.9	3.8	3.8

440V Three-phase Series

Model SE2-043-□□□K		0.4K	0.75K	1.5K	2.2K	3.7K	5.5K	7.5K	11K
Applicable Motor Capacity	HP	0.5	1	2	3	5	7.5	10	15
	kW	0.4	0.75	1.5	2.2	3.7	5.5	7.5	11
Output	Rated Output Capacity kVA	1.2	2.0	3.2	4.6	6.9	9.2	13	18
	Rated Output Current A	1.5	2.6	4.2	6.0	9.0	12	17	23
	Overload current rating	150% 60 Seconds; 200% 1 Second (inverse time characteristics)							
	Maximum Output Voltage	Three-phase 380~480V							
Power	Rated Power Voltage	Three-phase 380~480V 50Hz / 60Hz							
	Permitted Power and Voltage Range	323~506V 50Hz / 60Hz							
	Adjustable Power and Frequency Range	±5%							
	Power supply capacity kVA	1.8	3	4.8	6.9	10.4	13.8	19.5	27
Cooling Method		Self-cooling	Forced Air cooling						
Weight (Kg)		1.2	1.2	1.2	1.9	1.9	3.8	3.8	3.8

Wiring Diagram



NOTE

1. For the usage of external thermal relay, please refer to P.80~P.84, P.86 (OH) in Chapter 4.
2. Make sure do not to short PC and SD.
3. In the above figure, Dotted line metal, please refer to 2.5.7 on the manual.
4. The SE2-TYPE inverter have internal RS485 communication, and can also uses pluggable communications expansion boards CB01, CB02, CB03, PD01, DN01; For detailed instructions, please refer to the manual.