



AS600P

Universal Vector AC Drives

AS600P is our new design with the most compact size but good vector Control Mode, Can be easily tuned to simple speed control for 80% Motors, really cheapest price, and good function.. with 24 months warranty offered, it can almost match all customers' requests.



POWER RATINGS

1×220 - 240V	0.4 - 7.5kW
3×220 - 240V	0.4 - 7.5kW
3×380 - 480V	0.75 - 15kW

COMPATIBILITY

Asynch motor control applicable
Synchronous motor control applicable

CONTROL TECHNOLOGY

V/Hz control
SVC1

FEATURES

Reliable

Ambient temperature 45° C without derating
Thickened conformal coating
Optimized cooling system

Less need for cooling or oversizing
Resistant to harsh surroundings
Lower temperature rise

User-friendly

Parameter copy
Detachable control panel
One platform numerous versions

Save time for Commissioning
Easy for remote control
Save stocks

Intelligent

Warning systems
Multiple frequency references
All-sided protection
Online autotuning
PC-based monitoring software
Extensible features/parameter blocks

Warning before stop
Powerful in intelligent applications
Long lifetime & less maintaince cost
Intelligent response to delicate variation
Easy to operate
Make the drives "just for you"

Small in Size, Powerful in Performance

01

Mounting space saving

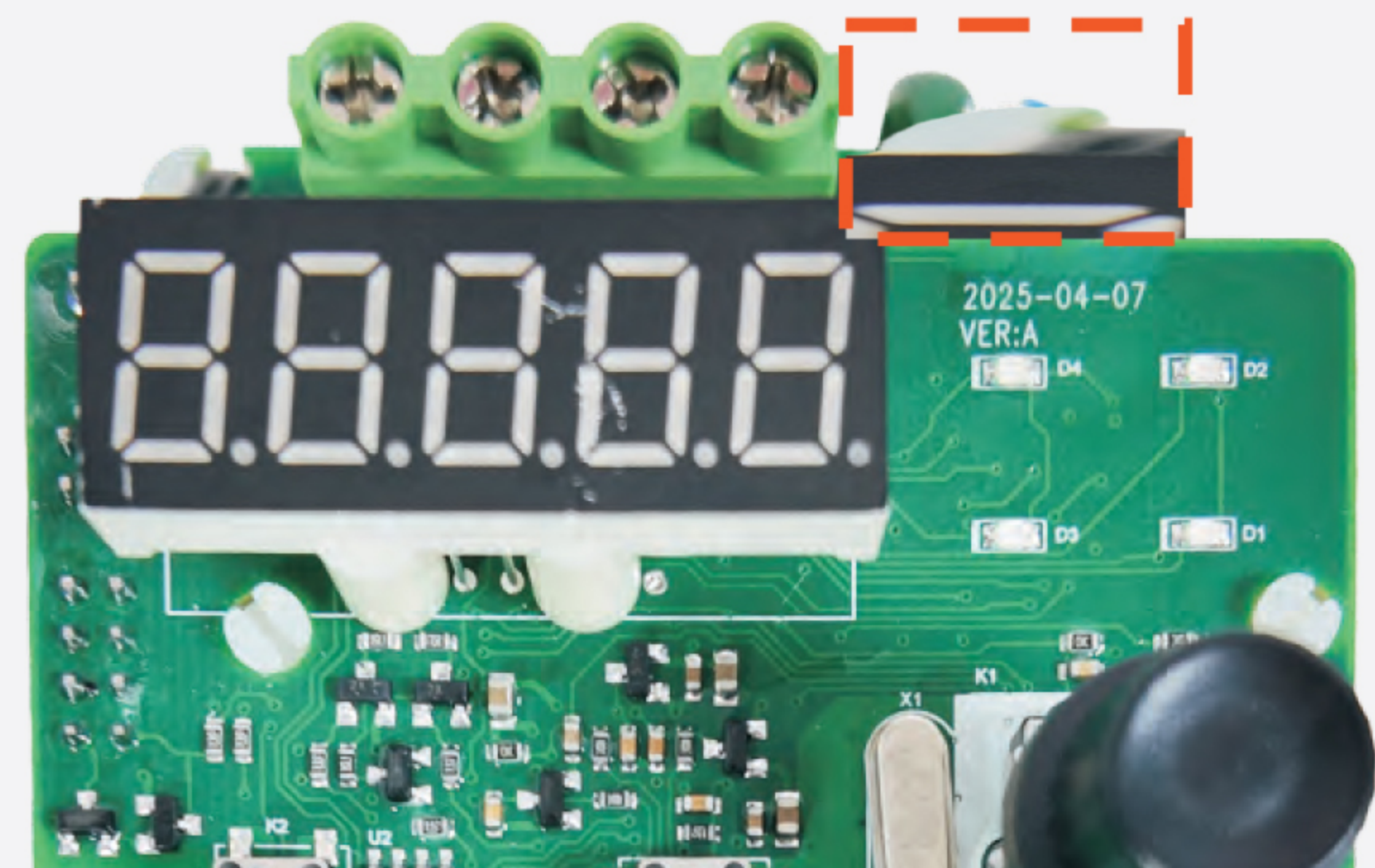
AS600P adopt book-type frames to save mounting space. Close parallel mounting is permitted without requirement of derating.



02

EMC grounding design

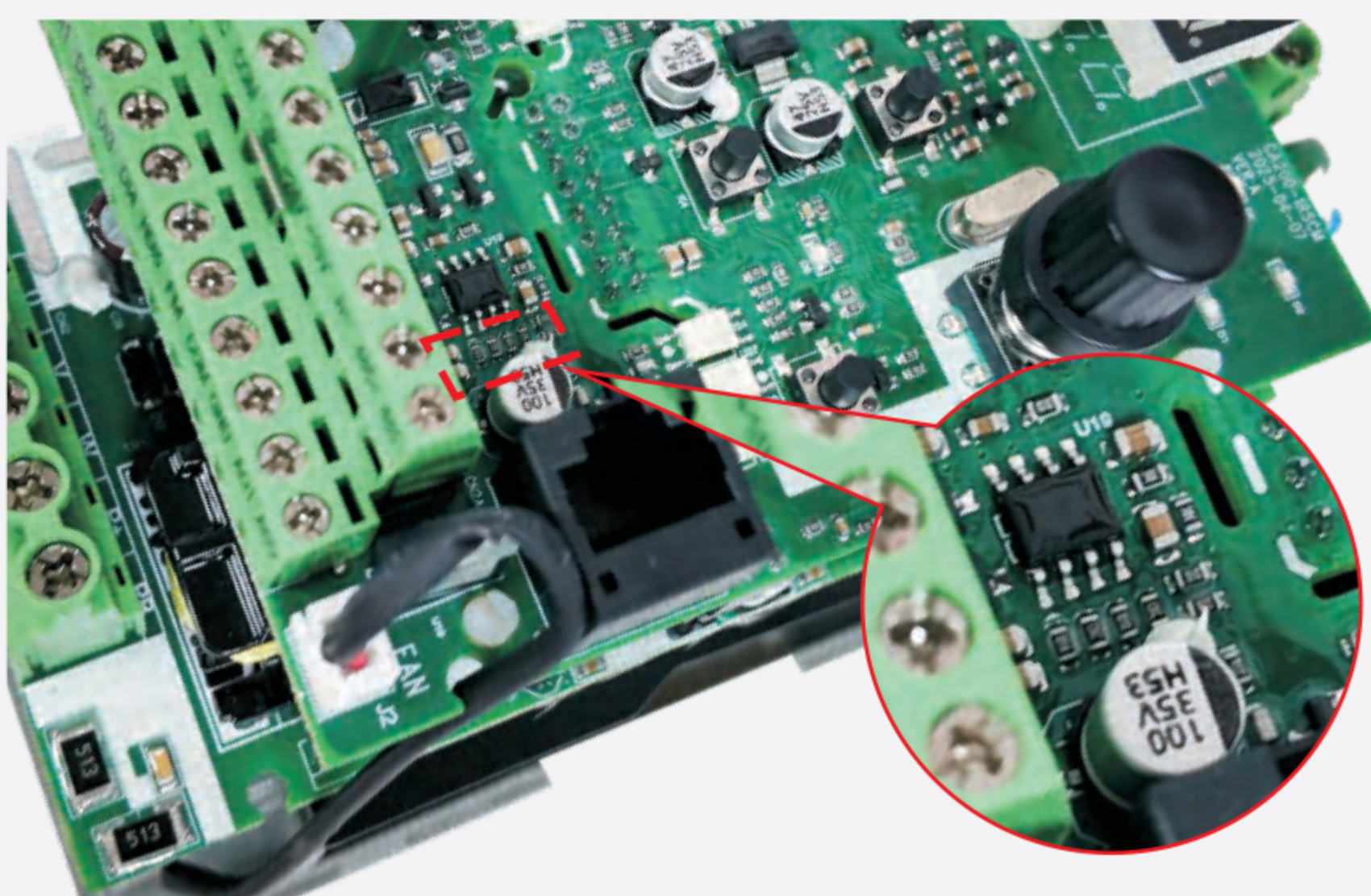
Independent grounding system selection switch (through the screw access or not to choose), easy to solve the problem of EMC interference and leakage current.



03

Three resistance current sampling and reconstruction technology

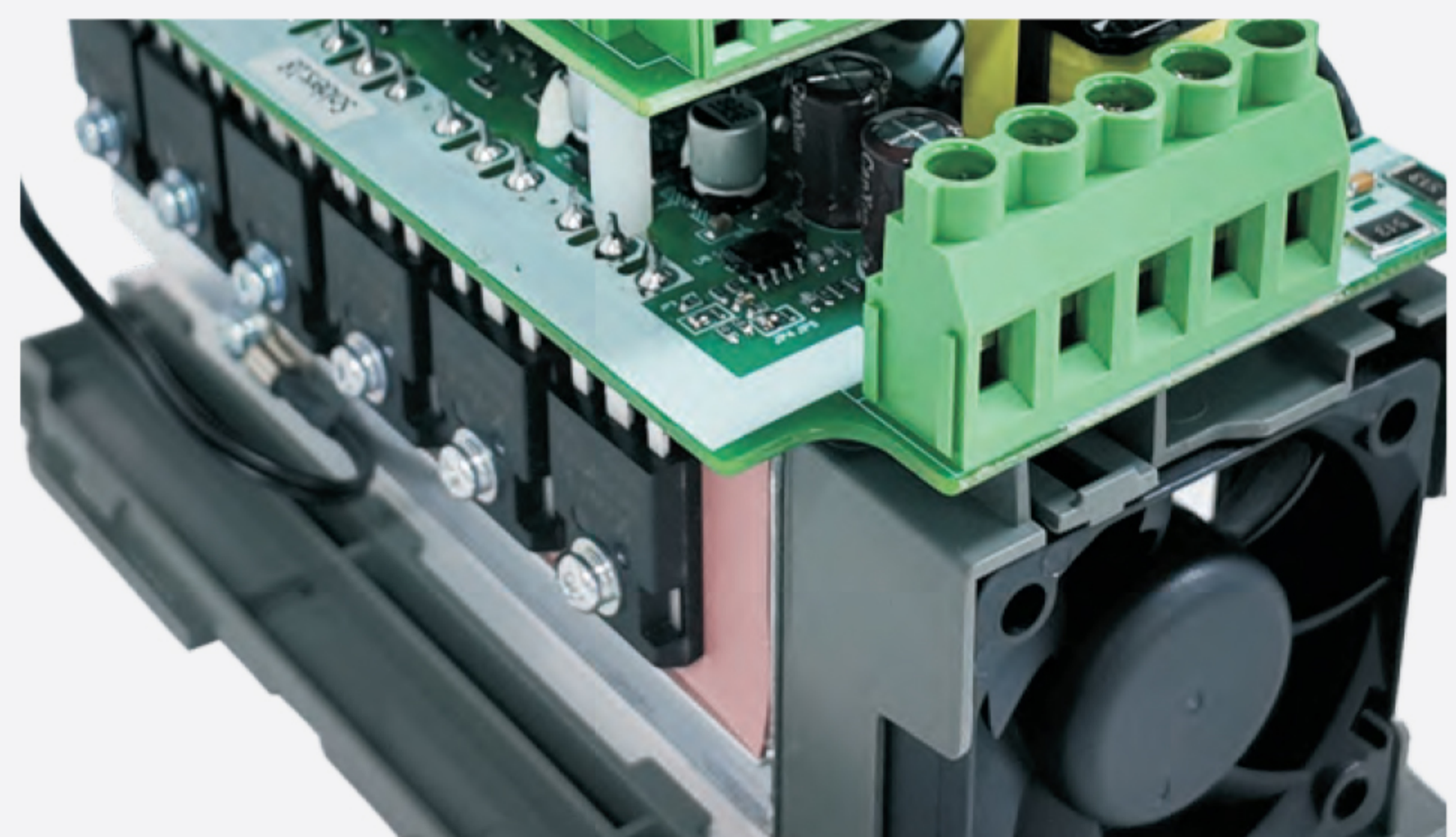
Whole back facet covered, and fin-corrugated heat sink has the optimized contribution to heat dissipation. Minimized temperature rise brings about reliable operation and pledges the lifespan of drive components.



04

Minimum penetration of dust

AS600P drives are designed to keep the forced ventilation away from the electronics. Printed circuit boards are well protected inside the drives.



05

Promoted V/Hz

AS600P adopting promoted V/Hz control technique make the start torque reach 180% of the rated at 0.5Hz.

180%

06

Strong adaptability to temperature

Derating is not required for **AS600P** at ambient temperature up to 50°C.

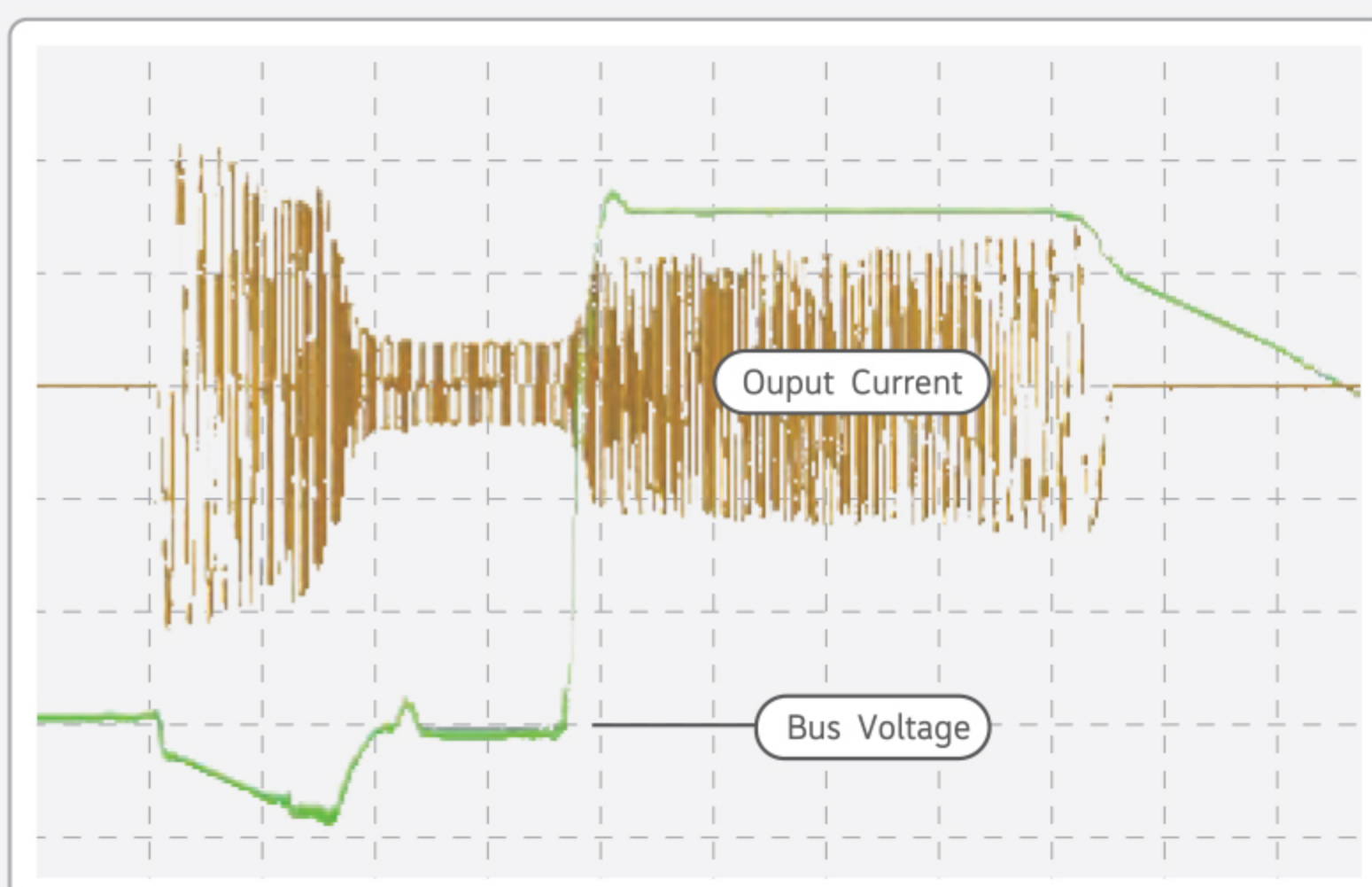
50°C

07

Multi-step speed

16-step speed is supported, two of which accept various frequency references.

16



08

Stall protections

Overvoltage and undervoltage stall protections are both procurable at **AS600P** which pledges the operation continuous without trip at ramp down of the large-inertia load, or sudden power loss.



SPECIFICATIONS

Input & Output

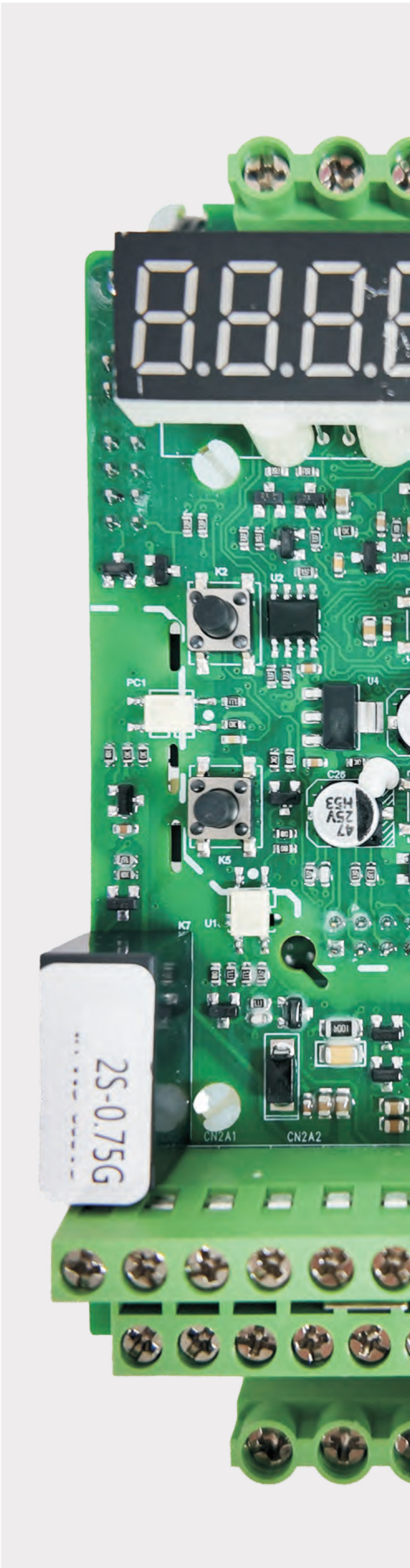
Input voltage	1AC 220~240V(± 15%)
	3AC 220~240V(± 15%)
	3AC 380~460V(± 15%)
Input frequency	50Hz/60Hz ±5%
Output voltage	0~input voltage, deviation < ±3%
Output frequency	0~600Hz

Control Characteristics

Control mode	V/F control
	Vector control
Speed accuracy	±0,5% (V/F)
	±0,2% (SVC)
Speed fluctuation	±0,3% (SVC)
torque response	< 10ms (SVC)
Starting torque	0,5Hz: 150% (V/F)
	0,25Hz: 180% (SVC)
Overload capability	150% Rated current -60s
	180% Rated current -10s
	200% Rated current -1s
Simple PLC Multi-step speed	16 speed
	External digital signal control Internal clock
PID function	Standard build-in
Communication	Modbus

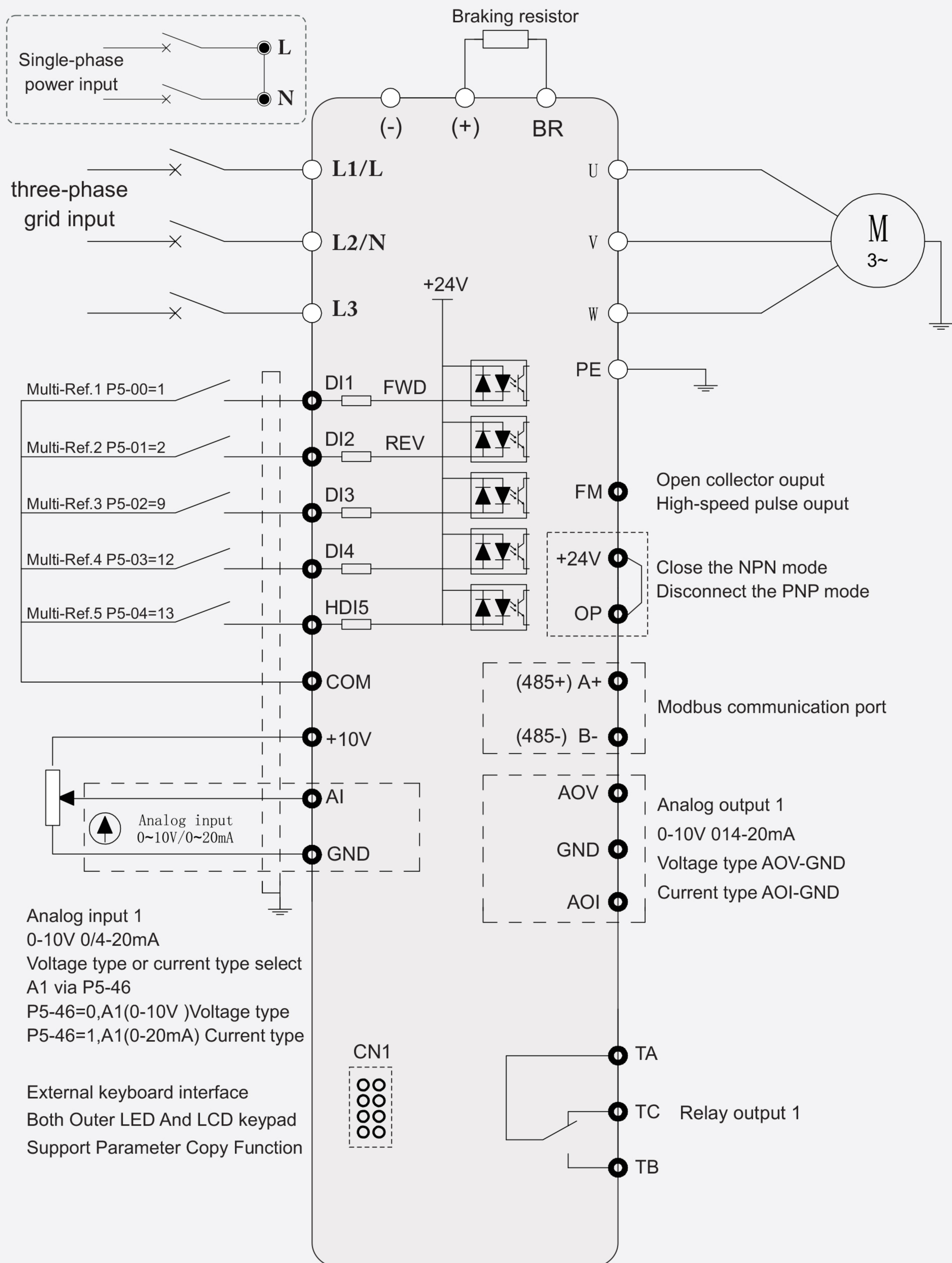
Featured functions

Featured functions	Input &Output delay
	Flexible parameters display
	AVR (Automatic Voltage Regulation)
	Timing control, fixed length control, etc.
	Simple PLC, 16-steps speed control
	Torque control build-in
	S curve accelerator/deceleration Multi-functional programmable keypad V/F separated control



BASIC CONNECTION

Following is the default wiring diagram for **AS600P**. Please consult **ASTAR** if customized solution is required.



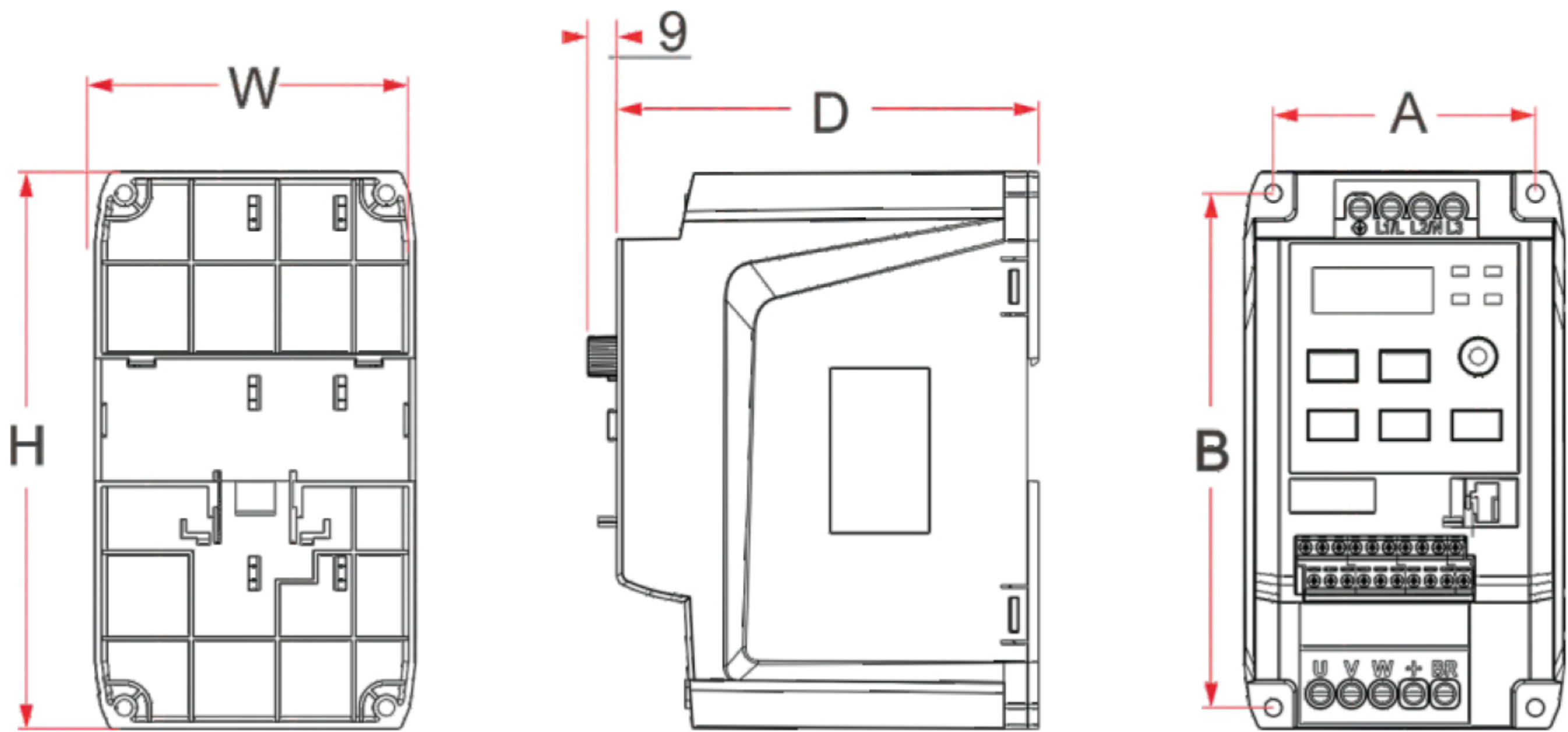
Terminal wiring diagram for 15KW and below

MODEL AND SIZE

2S

Model	Input current (A)	Output current t(A)	Dimensions (mm)			Installation size(mm)		Aperture
			H	W	D	A	B	
Single phase 220V range: -15%~+20%								
AS600P -2S-0.4GB	5.4	2.3	149	83	107	66	136	Φ5
AS600P-2S-0.75GB	8.2	4.0	149	83	107	66	136	Φ5
AS600P -2S-1.5GB	14.0	7.0	149	83	107	66	136	Φ5
AS600P -2S-2.2GB	23.0	9.6	149	83	107	66	136	Φ5
AS600P -2S-4.0GB	40	17	170	98	124	80	157	Φ5
AS600P -2S-5.5GB	60	25	228	135	166	112	200	Φ5
AS600P -2S-7.5GB	75	32	228	135	166	112	200	Φ5
AS600P -2S-11GB	100	45	318	210	200	170	275	Φ6
AS600P -2S-15GB	130	60	318	210	200	170	275	Φ6

2T

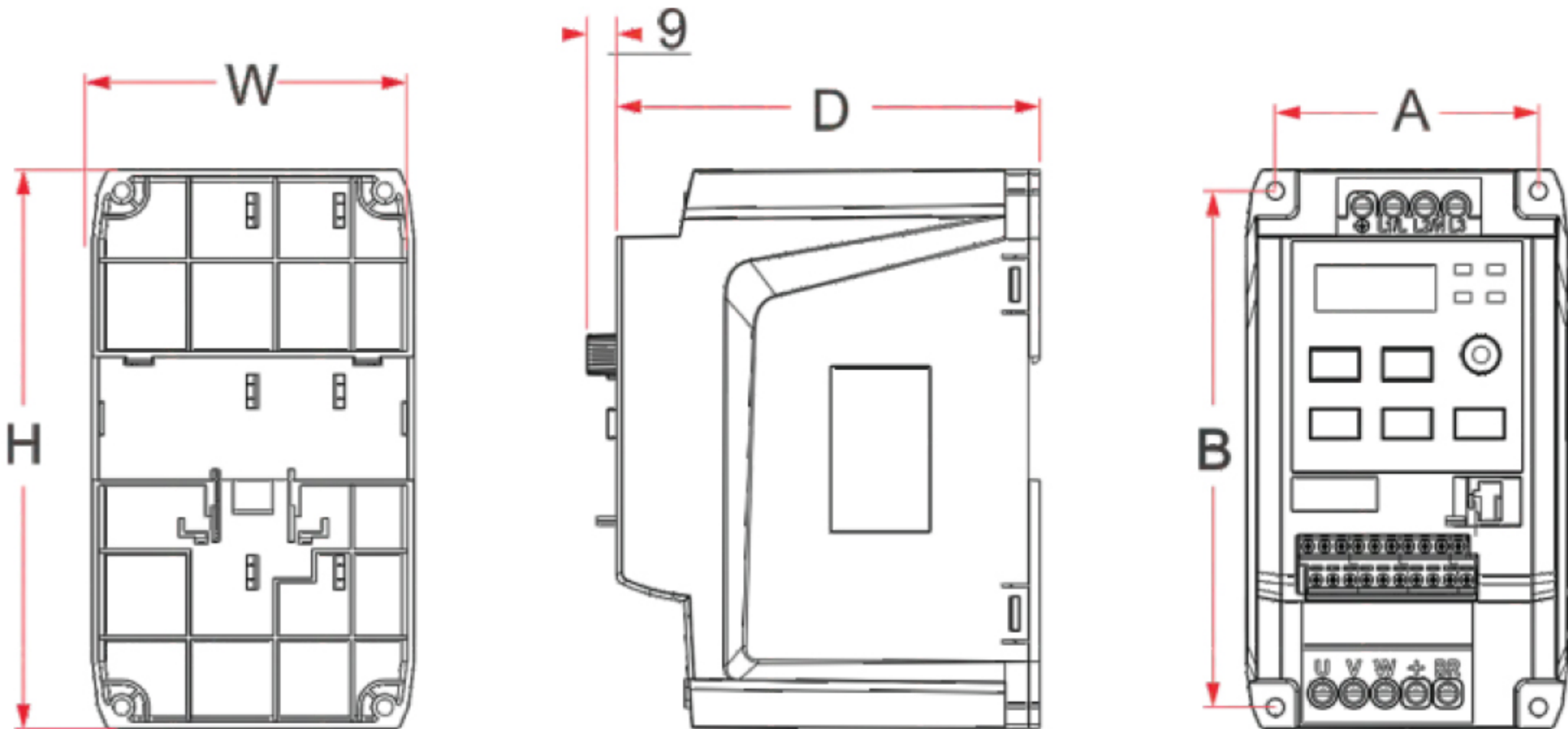


Model	Input current (A)	Output current t(A)	Dimensions (mm)			Installation size(mm)		Aperture
			H	W	D	A	B	
Three phase 220V range: -15%~+20%								
AS600P -2T-0.4GB	2.7	2.3	149	83	107	66	136	Φ5
AS600P-2T-0.75GB	4.2	4.0	149	83	107	66	136	Φ5
AS600P -2T-1.5GB	7.7	7.0	149	83	107	66	136	Φ5
AS600P -2T-2.2GB	12	9.6	149	83	107	66	136	Φ5
AS600P -2T-4.0GB	19	17	170	98	124	80	157	Φ5
AS600P -2T-5.5GB	28	25	228	135	160	112	200	Φ5
AS600P -2T-7.5GB	35	32	228	135	160	112	200	Φ5
AS600P -2T-11GB	47	45	318	210	200	170	275	Φ6
AS600P 2T-15GB	65	60	318	210	200	170	275	Φ6

4T

Model	Input current (A)	Output current t(A)	Dimensions (mm)			Installation size(mm)		Aperture
			H	W	D	A	B	
Three phase 380V range: -15%~+20%								
AS600P-4T-0.75GB/1.5PB	3.4/5.0	2.1/3.8	149	83	107	66	136	Φ5
AS600P-4T-1.5GB/2.2PB	5.0/5.8	3.8/5.1	149	83	107	66	136	Φ5
AS600P-4T-2.2GB/3.7PB	5.8/10.5	5.1/9.0	149	83	107	66	136	Φ5
AS600P-4T-4.0GB/4.0PB	10.5/14.6	9.0/13.0	170	98	124	80	157	Φ5
AS600P-4T-5.5GB/7.5PB	14.6/20.5	13.0/17.0	170	98	124	80	157	Φ5
AS600P-4T-7.5GB/9.0PB	20.5/26.0	17.0/25.0	170	98	124	80	157	Φ5
AS600P-4T-11GB/15PB	26.0/35.0	25.0/32.0	228	135	166	112	200	Φ5
AS600P-4T-15GB/18.5PB	35.0/38.5	32.0/37.0	228	135	166	112	200	Φ5
AS600P-4T-18.5GB/22PB	38.5/46.5	37.0/45.0	318	210	200	170	275	Φ6
AS600P-4T-22GB/30PB	46.5/62.0	45.0/60.0	318	210	200	170	275	Φ6
AS600P-4T-30GB	62.0	60.0	318	210	200	170	275	Φ6

AS600P Series Boost inverter



Model	Adapter motor (KW)	Input current(A)	Output current(V)	Dimensions(mm)			Installation size(mm)		Aperture
				H	W	D	A	B	
1S /2T 110V Single phase input & 220V Three Phase output									
AS600P-1S/2T-0.4GB	0.4	9.4	2.9	149	83	107	66	136	Φ5
AS600P-1S/2T-0.75GB	0.75	18	5.1	149	83	107	66	136	Φ5
AS600P-1S/2T-1.5GB	1.5	34.5	9.6	170	98	124	80	157	Φ5
AS600P-1S/2T-2.2GB	2.2	46.8	13	170	98	124	80	157	Φ5
AS600P-1S/2T-4.0GB	3.7	90	25	228	135	160	112	200	Φ5
AS600P-1S/2T-5.5GB	5.5	132	37	228	135	160	112	200	Φ5
2S/4T 220V Single phase input & 380V Three Phase output									
AS600P-2S/4T-1.5GB	1.5	13.3	3.8	149	83	107	66	136	Φ5
AS600P-2S/4T-2.2GB	2.2	17.9	5.1	170	98	124	80	157	Φ5
AS600P-2S/4T-4.0GB	3.7	31.5	9	170	98	124	80	157	Φ5
AS600P-2S/4T-5.5GB	5.5	45.5	13	228	135	160	112	200	Φ5
AS600P-2S/4T-7.5GB	7.5	59.5	17	228	135	160	112	200	Φ5

AS600P-2SS Series

Model	Adapter motor (KW)	Input current (A)	Output current (A)	Dimensions(mm)			Installation size(mm)		Aperture
				H	W	D	A	B	
2SS 220V Single Phase Input & Single Phase Output									
AS600P-2SS-0.75GB	0.75	4.2	4	149	83	107	66	136	Φ5
AS600P-2SS-1.5GB	1.5	7.7	7	149	83	107	66	136	Φ5
AS600P-2SS-2.2GB	2.2	10	9.6	149	83	107	66	136	Φ5
AS600P-2SS-4.0GB	3.7	19	17	170	98	124	80	157	Φ5

APPLICATIONS

Conveyors, centrifuges, food processing machinery, packaging machinery, pumps, fans, etc.

