



Except gear reducer, we still produce frequency converter

# WE HAVE BEEN WORKING HARD

Edition 2020



 TALI MOTOR CO., LTD



Any changes in product contents without notice.

HighEndBrand, CooperationFirstSelection  
**WE HAVE BEEN WORKING HARD**

## COMPANY PROFILE

Sanmen Taili Motor Co.,Ltd,which was founded since 2005,is specialized in mini or small AC geared motor and high precision planetary reducer's development ,production and sales.The company was located in Dashawan Industrial area ,Liuaotown, Sanmen County,Zhejiang Province.It covers an area of 8100 square meters,and annual production capacity is 1000000 units.The company has more than 400 employees,including eight senior engineers,five gear engineers and a larger number of professional talents with university,college degree.

Company has more than 80 units of Shenyang P Series machining centre,American Hass machining centre,80 units Hexagon of Ningjiang3610IV CNC gear hobbing machine, 2 units of arc gear hobbing machine and 1 unit fully automatic high-speed gear hobbingmachine, 1 unit of universal gear measurement center from Harbin Measuring Tool Factory,

1 unit of automatic three coordinatesand other advanced production equipments and quality testing equipments. Company has got ISO9001 international qualitysystem certification and 3C certification.

The company produces the mini AC geared motor 6w-400W,Small gear motor 0.1kw-7.5kw,Linear motor 25w-400w,right-angle reducer 25w-400w, hyperboloid rectangular axis reducer 25w-750w,permanent magnet DC motor 6w-750w,high precision economical type planetary gear reducer PL60-160 with precision stepper,servo motor,the RV worm gear motor and precision speed controller,etc. Products are widely used in packaging machinery,food machinery,tea machinery,agricultural machinery,biomass boiler,precision machine and tool automation control equipment,etc.

Company's products with high efficiency,low noise,long life,light weight,maintenance-free,excellent quality,reasonable price and perfect after-sales service,are favored by the majority of new and old users.To meet customer requirements is the only enterprise purpose.to meet customer expectations is the forever pursuit of the enterprise.



## Enterprise Culture

### Business philosophy:

Strive for perfection and pursue perfection.

### Service purposes:

Customer first, reputation first.

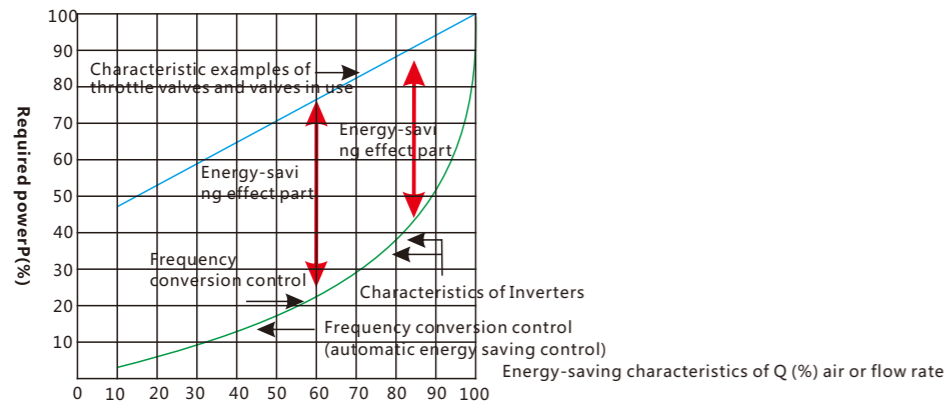


# MADE IN CHINA, EXCELLENT PERFORMANCE

## ◆ Equipped with functions most suitable for fans and pumps.

Equipped with two kinds of PID control functions:

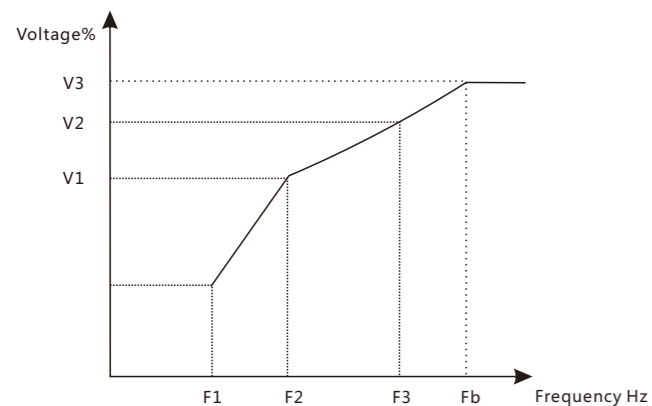
- Control of pressure, flow and temperature, etc. without external regulator
- The characteristics of the motors are different, and their effect is different.



## ◆ Multi-point voltage flux function

Three kinds of curve setting methods:

- The multi-point curve is suitable for the dehydrator, the centrifuge load, the square curve is suitable for the load like fan and pump, and the straight line is suitable for the ordinary constant torque load.
- The three points of the curve can be adjusted, and the most suitable curve and the optimal excitation control match can be set according to the torque characteristics of the equipment.
- The better energy-saving effect can be achieved.

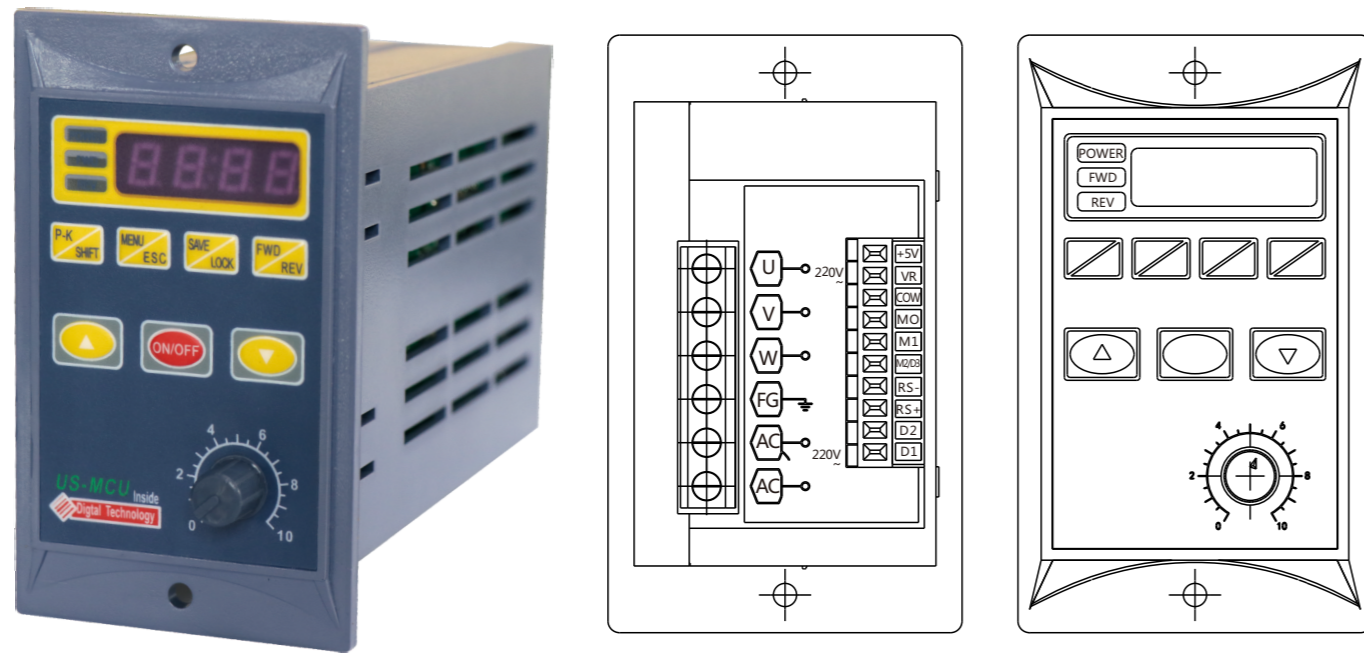


## ◆ Product model description

TL	G1	0	110	G	3
①	②	③	④	⑤	⑥
①Taili frequency converters	③frequency converter model : 0 : Standard configuration 1 : Special 1 configuration 2 : Special 2 configuration	⑤Adaptive motor type : P: Light load type G:Standard type M:Middle load type H: Heavy load type	⑥Voltage level : 1. Single phase 220V 2. Three phases 220V 3. Three phases 380V 4. Three phases 440V 5. Three phases 580V 6. Three phases 660V		
②frequency converter series: M1: M series small cover type M2: M series standard type US: Us series standard type G1: G series standard type	④Adaptive motor power : 0.2KW-400KW				

## Catalog

US series	P01-02
UH series	P03-04
M series	P05-07
G series	P08-12
S18 series	P13-17
S20 series	P18-20
S30series	P21-22



## Product introduction

US series frequency converter small volume, convenient for installation; simple debugging, parameters simple and easy to understand, able to meet the requirements of common field, special customer made aim to the three phase AC motor which under 220V/0.75KW, provide integrate solve scheme for vast customers in equipment manufacture industry, has most high value t reduce system cost and improve system reliability.

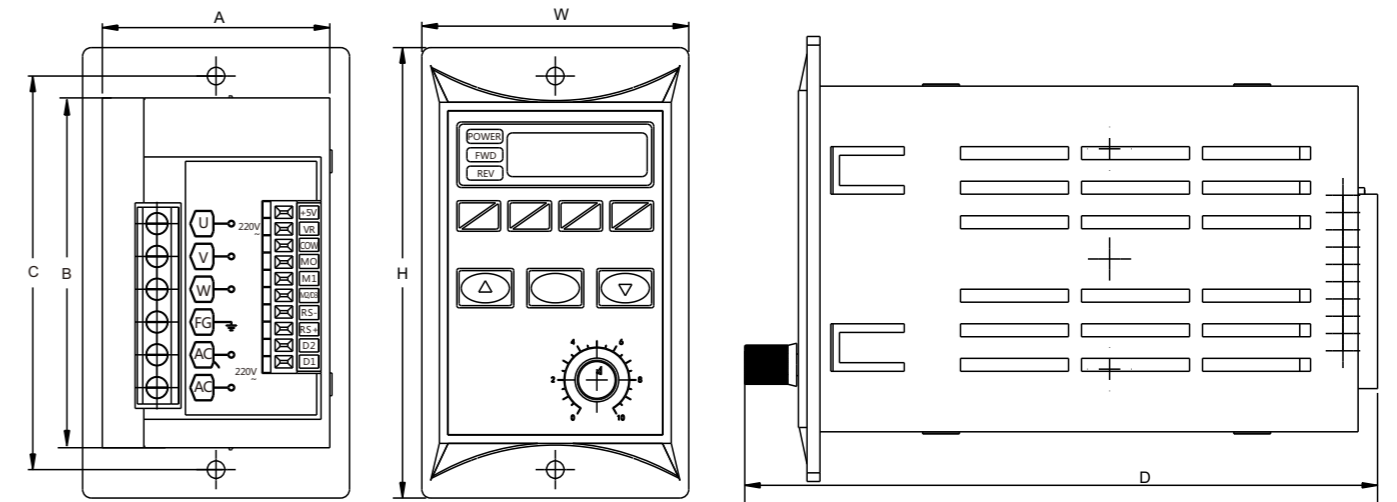
## Technical characteristics

- Output frequency range 1.0-99.0Hz, meet common speed adjust field
- With speed adjust potential device, also can outer connect speed adjust potential device
- Interior placed intelligent logic controller, can realize simple logic control empty energy
- Has electric heat electric relay function, other traditional motor protection device
- Can outer connect LED indicate, convenient for field use requirements
- Humanization operating interface, simple and clear parameter setting method, easy to operate
- Can freely set V/F curve function, meet special field requirements
- Use displacement key can check real time parameters
- Adopt new generation PIM module, complete protection function;

## US series model and technical specification

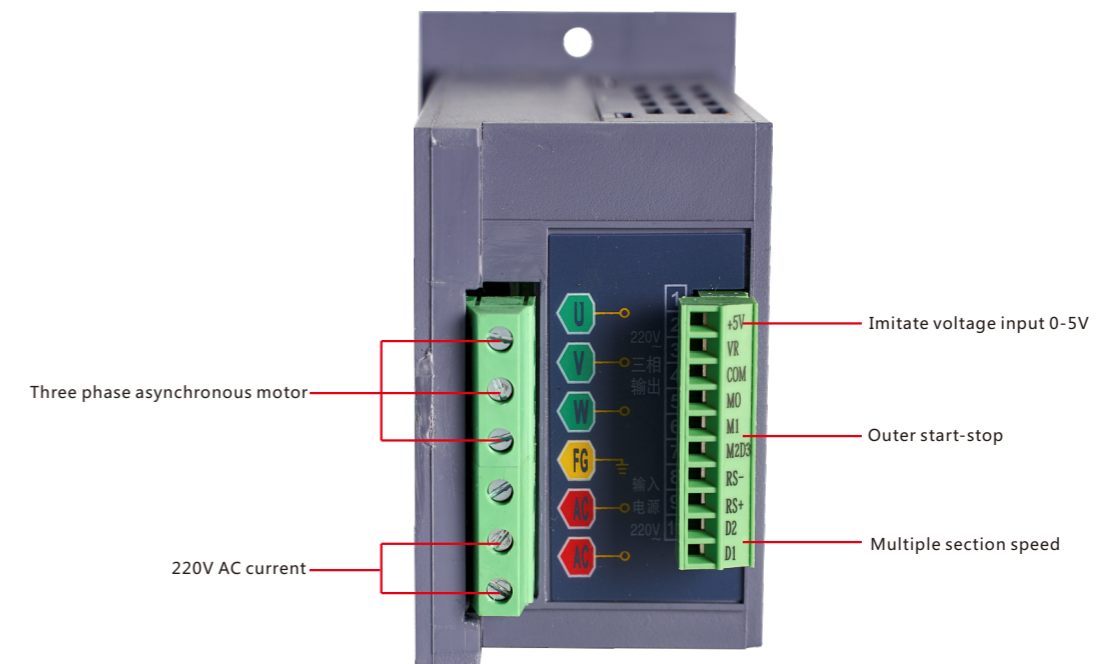
Frequency converter model	Power supply capacity KVA	Input current A	Output current A	Adapt motor KW
Single phase power supply : 200~240VAC , 50/60Hz				
US00R2G1	3.0	3.2	1.6	0.2
US00R4G1	3.8	4.3	2.1	0.4
US00R7G1	5.6	6	3.1	0.75

## US series installation size diagram



Frequency converter specification	H	W	D	A	B	C	Installation bore diameter
				Installation size			
0.4KW~0.75KW	103	61	146.5	52	80	90	4

## Details detail instruction



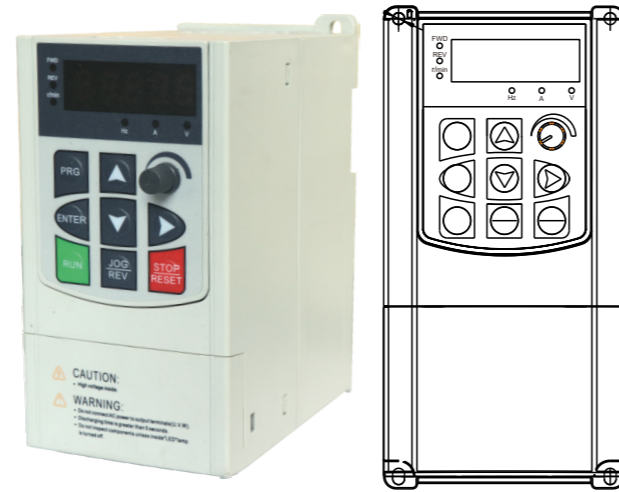
# UH series

## Product introduction

UH series frequency converter adopt ARM double chips control system, stable and reliable installation support guide rail type installation, operating panel can out draw, better performance at quickly start and quickly stop area, signal input adopt optical coupling insulation, higher cost performance.

## Technical characteristics

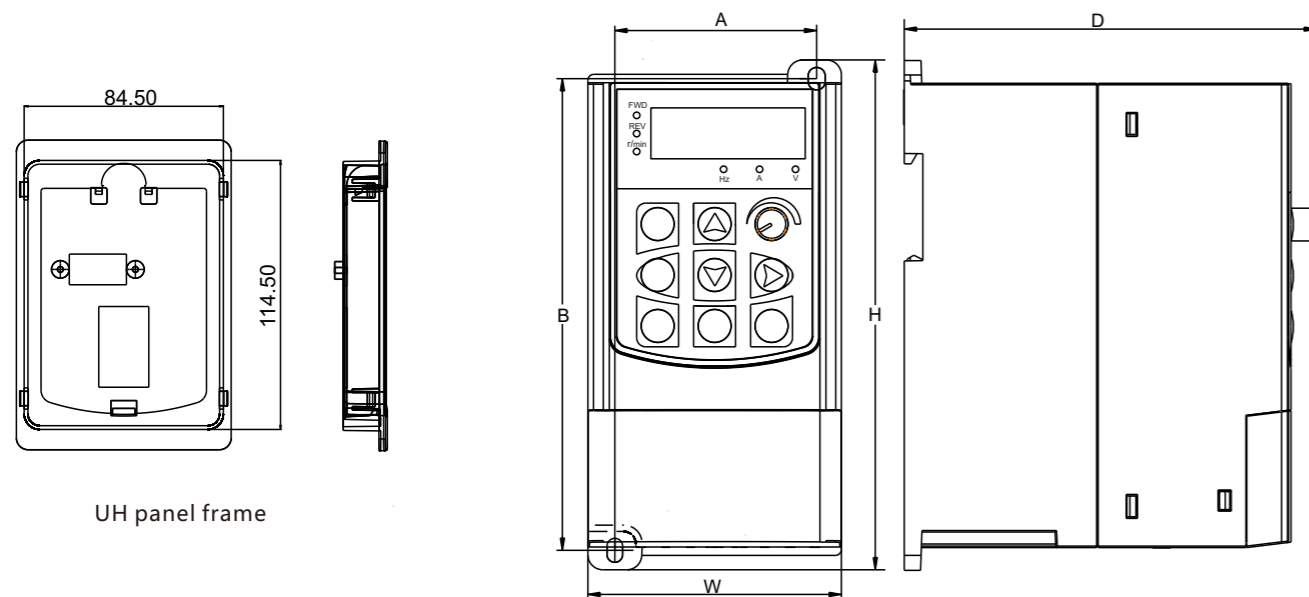
Output frequency range 1.0-600.0Hz;  
 With speed adjust potential device,  
 also can outer connect speed adjust potential device  
 Has over current value adjust setting,  
 can set that increase motor parameter function  
 setting according to different actual statusCan  
 realize three-wire type control mode  
 Panel key will not automatically lock,  
 corotation and reversal turning any time  
 Power on terminal protection function, prevent error operation



## UH series model and technical specification

Frequency converter model	Power supply capacity KVA	Input current A	Output current A	Adapt motor KW
Single phase power supply : 200~240VAC, 50/60HZ				
TL-UH00R7G1	8.7	9.2	4.2	0.75
TL-UH01R5G1	13	15	7.5	1.5

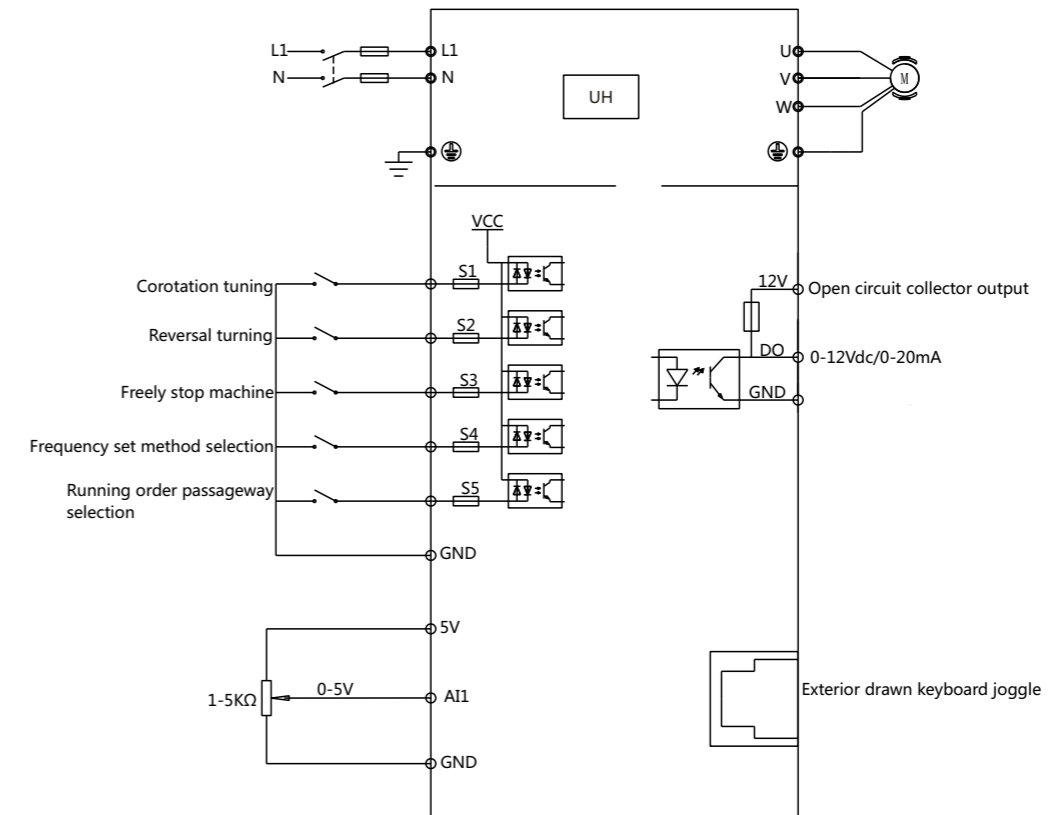
## UH series installation size diagram



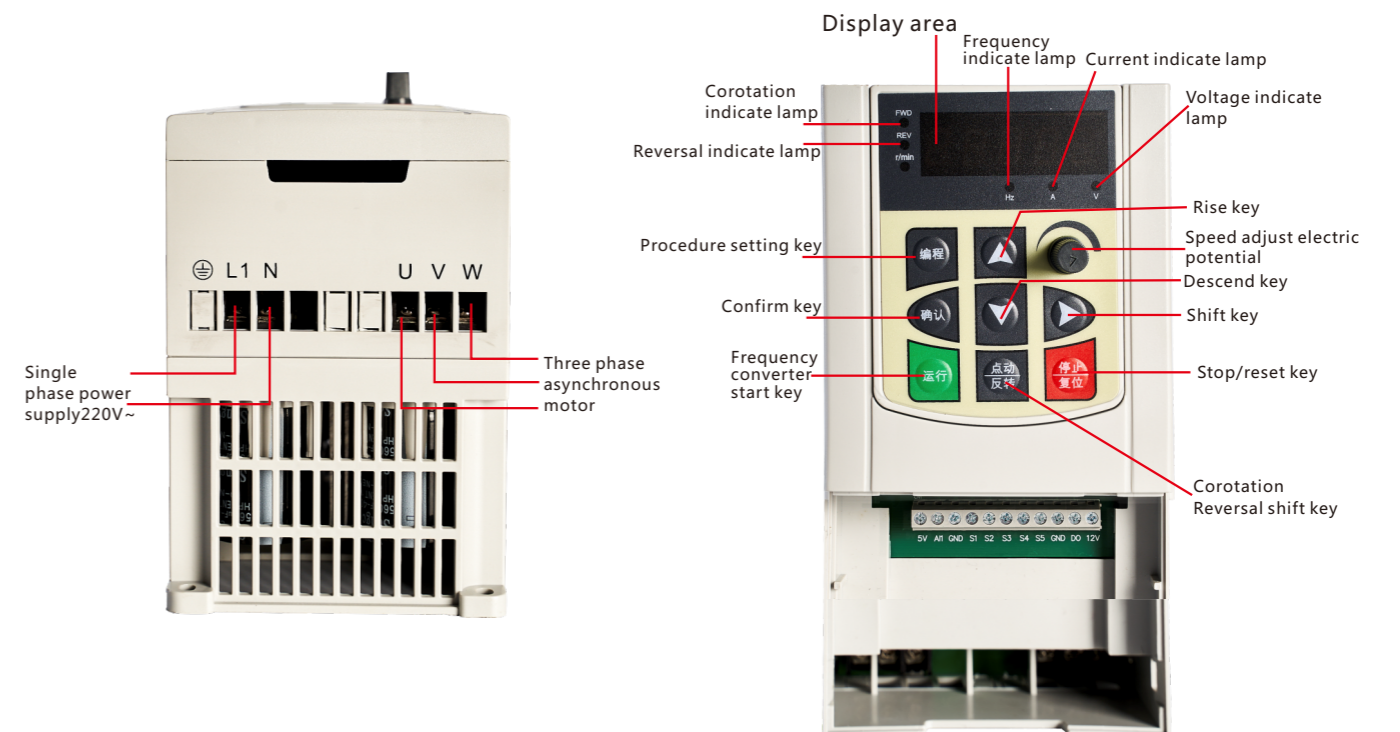
Frequency converter specification	H	W	D	Installation size		Installation bore diameter
				A	B	
0.75KW	170	84.5	137.5	67.3	157.5	5
0.75KW	194	97	152	85	184	5

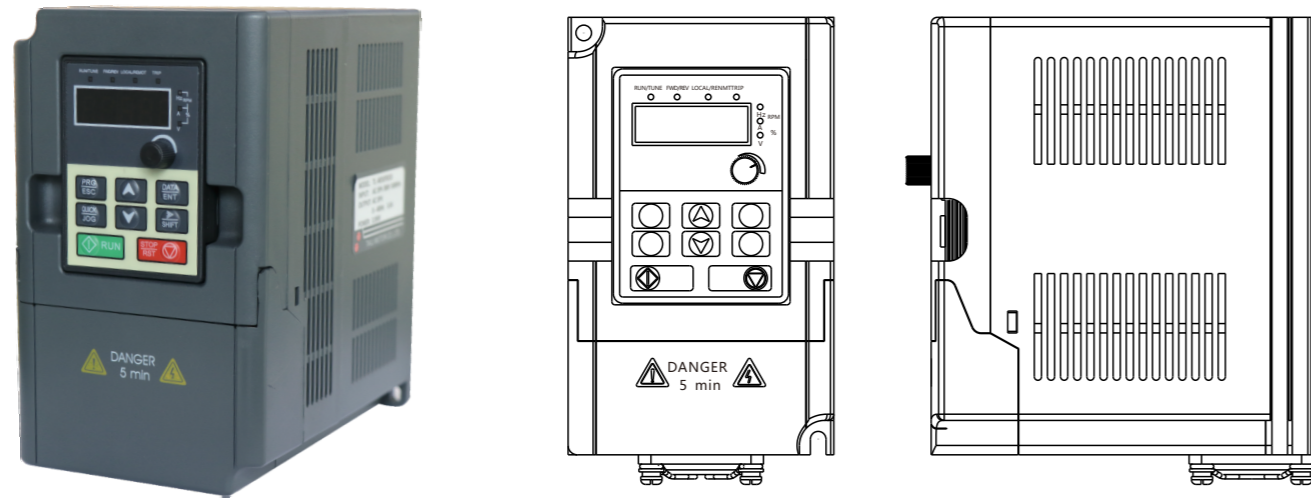
# UH series

## UH control return circuit wiring diagram



## Details detail instruction





## Product introduction

M series frequency converter is one economy product which designed aim to common users by our company, adopt DSP control system, high efficiency V/F control method, fix position at OEM customers and special requirements fan water pump types loading application, based on accurately know about customer requirements, for the consistent seeking at high quality, high reliability and high economy, M series will bring the complete new operating experience for you.

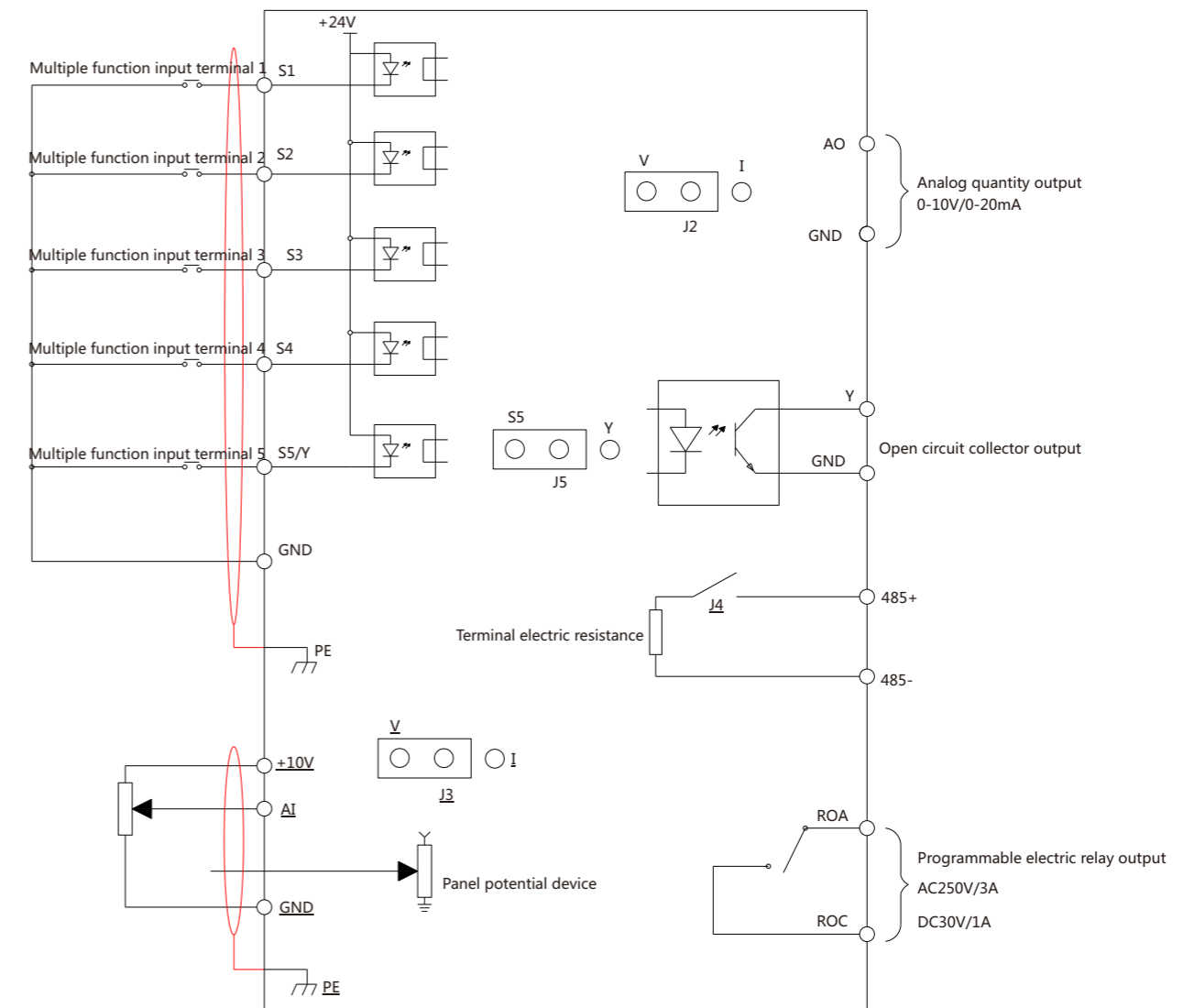
## Technical characteristics

- Wide frequency input 47-63Hz, meet requirements for export to use in other countries
- High performance V/F control, big low frequency force
- Has complete user password function, can set running time
- With speed adjust potential device, the panel can outer connect, convenient for your use and operation
- Panel has heat insert and plug function, can save working time and working volume
- Multiple frequency section setting, can realize freely assemble
- Interior place MOBUS communication, convenient for automatically control
- Has jump function, can valid to avoid mechanical sympathetic vibration
- Multiple failure times check, easily grasp the product use status
- Interior place braking unit, save your cost scheme
- 16 sections speed control, can freely shift the working method
- Interior place PID control, can realize feedback offline test, dormant stop machine

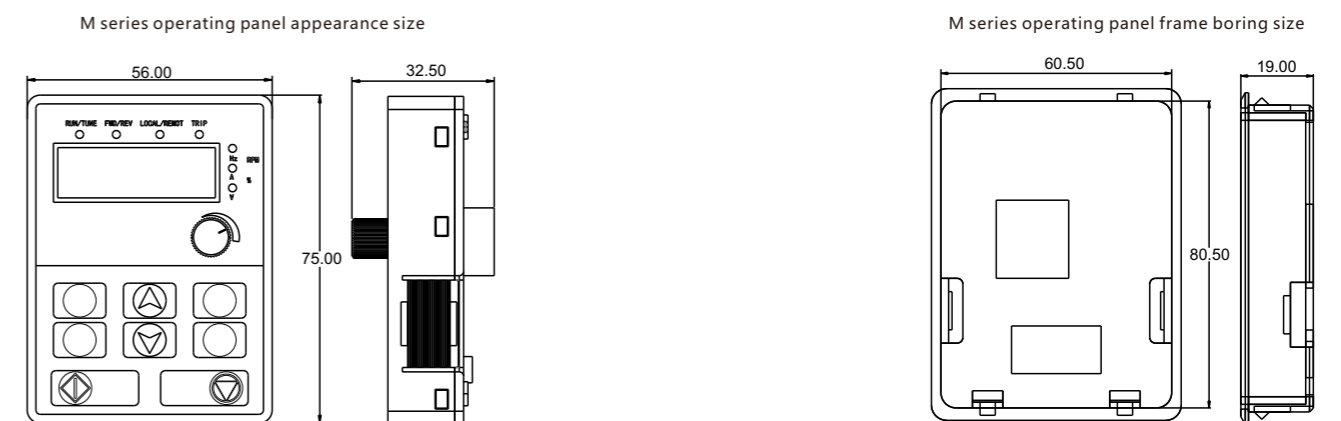
## M series model and technical specification

Frequency converter model	Power supply capacity KVA	Input current A	Output current A	Adapt motor KW
Single phase power supply : 200~240VAC , 50/60HZ				
M100R2G1	4.0	4.9	1.6	0.2
M100R4G1	6.0	6.5	2.5	0.4
M100R7G1	8.7	9.2	4.2	0.75
M200R7G1	8.7	9.2	4.2	0.75
M201R5G1	13.0	15.0	7.5	1.5
M202R2G	21.0	23.0	11.0	2.2
three phase power supply : 350~420VAC , 50/60HZ				
M200R7G3	3.4	3.3	2.5	0.75
M201R5G3	5.0	4.8	4.2	1.5
M202R2G3	6.7	6.5	5.5	2.2

## M series control return circuit wiring diagram

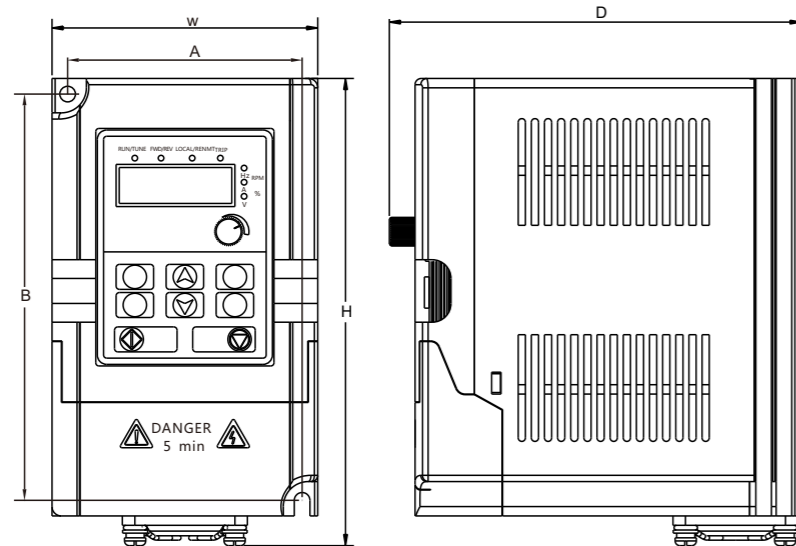


## M series operating panel and operating panel frame



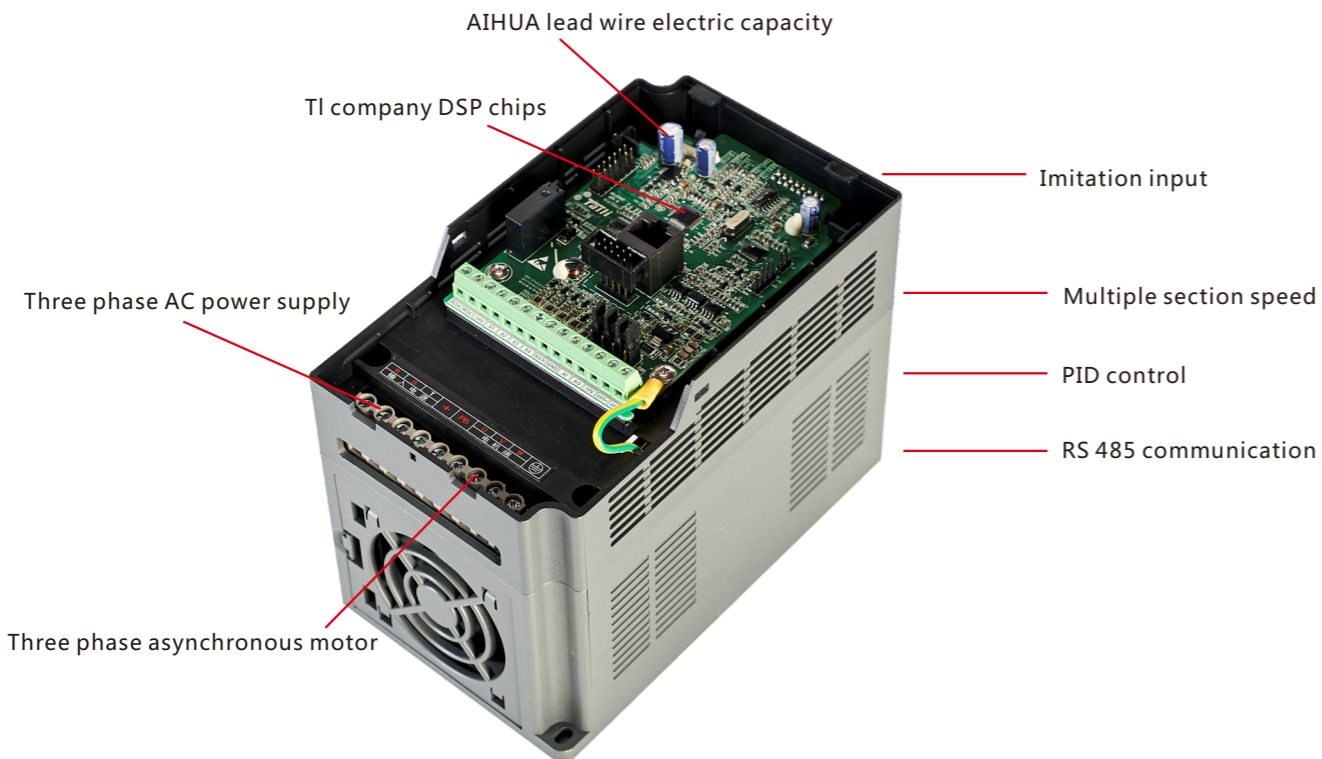
# M series

## M series installation size diagram



Frequency converter specification	H	W	D	Installation size		Installation bore diameter
				A	B	
0.2KW~0.75KW	149	85	132	75	130	5
0.75KW~2.2KW	165	100	153	89	154	5

## Details detail instruction



# G series

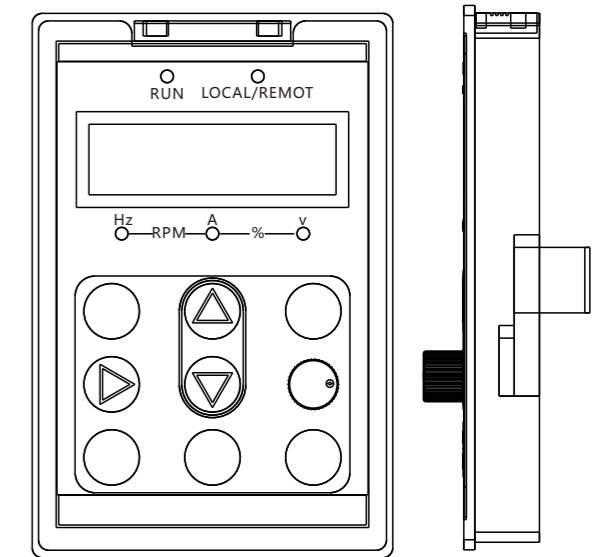
## Product instruction

G series frequency converter adopt advanced control method with three types V/F control, high precision, high moment, main chips adopt 32 bytes processor, quick responding dynamic signal, finish complete protection for motor, intelligent carrier wave control technology, multiple input/output method, can realize self study function, at the same time, it has quickly start and quickly stop function, diversified output mode.



## Technical characteristics

- IGBT module setting, non disperse type single tube setting, more higher stability and uniformity
- High efficiency three-prevention handle, able to suitable different field Adopt high protection level IP52 fan
- Multiple V/F control mode, can realize low frequency and big torque control 0.75-18.5KW interior placed braking unit, reduce outer place cost
- Interior placed simple PLC control logic, time freely setting
- DC bus line low voltage running, power grid moment shock not stop machine
- Rich PID control, have 2 types dormant wake up method
- Have jump function, can valid avoid mechanical resonate
- Moderate DC braking, quickly stop machine
- Low disturb, low radiation, strong self disturb
- Interior placed MOBUS communication, convenient for automatic control



## Applied industry



## G series product model

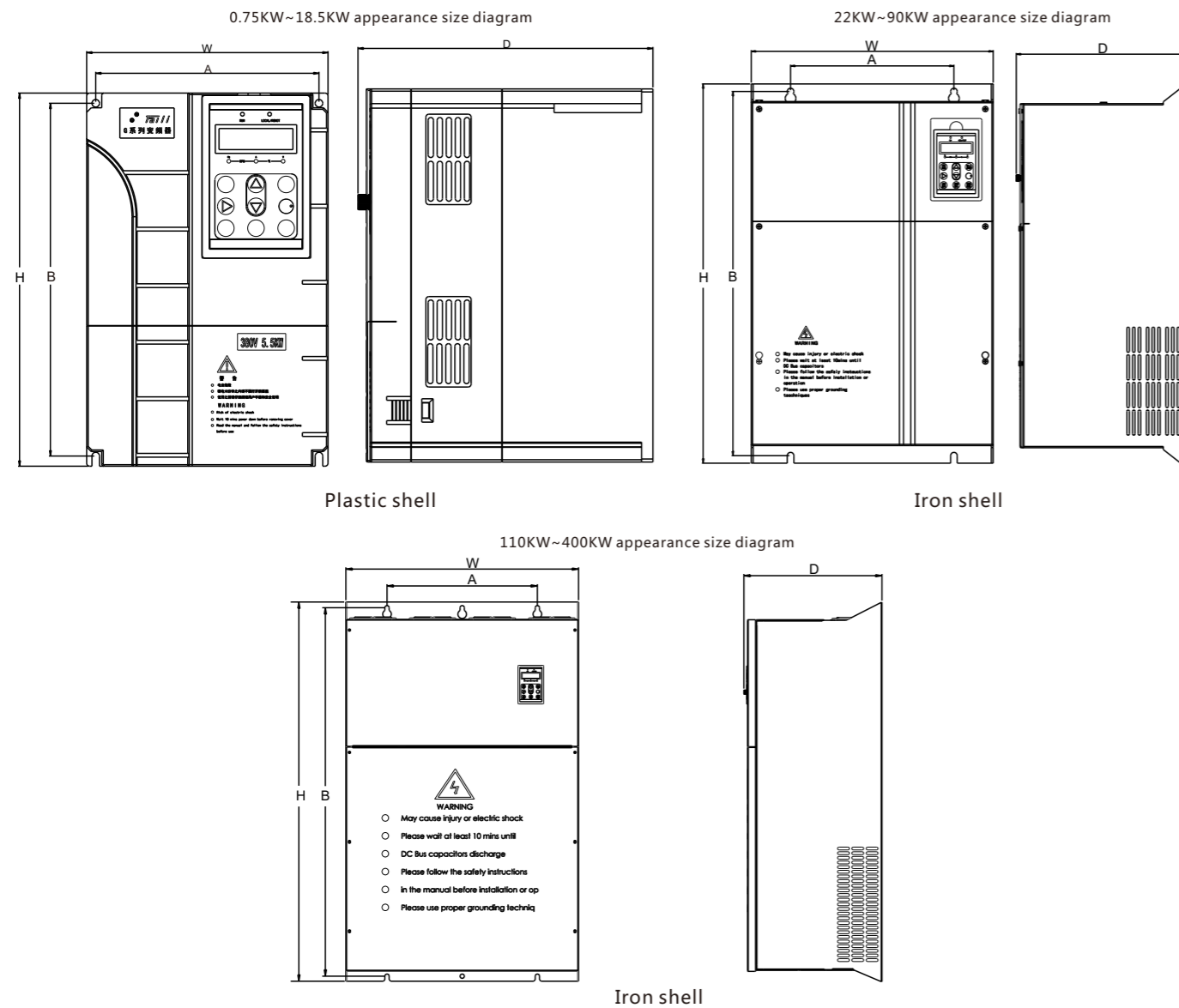
Frequency converter model	Power supply capacity KVA	Input current A	Output current A	Adapt motor KW
Three phase power supply : 350~420VAC , 50/60HZ,-20%~+20%				
TL-G100R7G3	2.8	2.4	2.2	0.75
TL-G101R5G3	5.0	4.6	3.9	1.5
TL-G102R2G3	6.7	6.3	5.0	2.2
TL-G104R0G3	12.0	11.4	9.2	4.0
TL-G105R5G3	17.5	16.7	13.0	5.5
TL-G107R5G3	22.8	21.9	17.0	7.5
TL-G10011G3	33.24	32.2	25.0	11.0
TL-G10015G3	42.8	41.3	31.0	15.0
TL-G10018G3	45.0	49.5	37.0	18.5
TL-G10022G3	54.0	59.0	45.0	22.0
TL-G10030G3	52.0	57.0	60.0	30.0
TL-G10037G3	63.0	69.0	76.0	37.0
TL-G10045G3	81.0	89.0	91.0	45.0
TL-G10055G3	97.0	106.0	112.0	55.0
TL-G10075G3	127.0	139.0	151.0	75.0
TL-G10090G3	150.0	164.0	175.0	90.0
TL-G10110G3	179.0	196.0	210.0	110.0
TL-G10132G3	220.0	240.0	252.0	132.0
TL-G10160G3	263.0	287.0	303.0	160.0
TL-G10185G3	301.0	320.0	350.0	185.0
TL-G10200G3	334.0	365.0	375.0	200.0
TL-G10220G3	375.0	410.0	426.0	220.0
TL-G10250G3	404.0	441.0	465.0	250.0
TL-G10280G3	453.0	495.0	520.0	280.0
TL-G10315G3	517.0	565.0	585.0	315.0
TL-G10350G3	565.0	617.0	650.0	350.0
TL-G10400G3	629.0	687.0	750.0	400.0
Single phase power supply : 220VAC , 50/60HZ , output three phase : 380VAC ,				
TL-G110R7G1	2.8	2.4	2.2	0.75
TL-G111R5G1	5.0	4.6	3.9	1.5
TL-G112R2G1	6.7	6.3	5.0	2.2
TL-G114R0G1	12.0	11.4	9.2	4.0
TL-G115R5G1	17.5	16.7	13.0	5.5
TL-G117R5G1	22.8	21.9	17.0	7.5
TL-G11011G1	33.4	32.2	25.0	11.0
TL-G11015G1	42.8	41.3	31.0	15.0
TL-G11018G1	45.0	49.5	37.0	18.5

## G series product technical indicators

	Item	Specification	
basic functions	The highest frequency	500HZ	
	Carrier wave frequency	1KHz~6KHz, can automatically adjust the carrier wave frequency according to loading characteristics	
	Control method	V/F control	
	Start torque	Low frequency 150% rated torque	
	Speed adjust range	1 : 50	
	Speed stabilize precision	±1%	
	Over load capacity	150% rated current one minute	
	Torque improve	Automatic torque improvement, manual torque improve 0.1-30.0%	
	V/F curve	Linear V/F, multiple points V/F, square V/F	
	Accelerate/moderate curve		Linear accelerate/moderate method, S curve accelerate /moderate method;
			Two groups accelerate/moderate time;
			Accelerate/moderate time range:0.00s(m)~300s(m)
	DC brake		DC brake frequency:0.00Hz~the max frequency, braking time:0.0s~36.0s
			Braking current value:0.0%~100.0%
	Crawl control	Crawl frequency range:0.00Hz~the max frequency; crawl accelerate/moderate time 0.00s~300s	
	Multiple section speed	The max realize 8 section speed running through multiple function terminal	
	Simple PLC	Interior PLC function time range:0.0~6553.5H	
	Interior placed PID	Realize close loop control system, multiple type PID parameter setting	
	Automatic voltage adjustment AVR	Able to keep output voltage constant when power grid voltage changing	
	Over current loss speed control	Self limit the output current during running, prevent frequently over current protection	
Quickly limit current function	The max limit reduce the over current failure, protect the frequency converter normally running		
Speed tracing start	Able to start the revolving motor smoothly		
Moment power off running	Even the power grin has short time power off status, also can guarantee continue running		
Individuation	Power on periphery equipment safety self check	Can realize online the periphery equipment grounding and short circuit test, etc	
	Join DC bus line function	Can realize multiple sets frequency converter join use the DC bus line function	
	Corotation/Reversal	Programmable key, order passageway shift/crawl running shift/corotation/reversal shift	
	Prevention swing frequency control	Multiple delta wave frequency function	
Terminal function	Multiple motor shift	Can realize both motors shift control, two groups motor parameter setting	
	Order source	Operating given, control terminal given, series interface given	
	Frequency source	Digit given, imitate given, current given, pulse given, series interface given	
	Assist frequency source	The assist frequency source can assembly utilize like flexible add and reduce, shift, etc	
Others	Input terminal	5 pieces digit input terminal(one support the highest 100KHz high speed pulse), 2 pieces digit value output terminal	
	Output terminal	1 piece electric relay terminal, 2 pieces imitate value input terminal (can shift high speed pulse), one digit value output terminal	
	Use place	Indoor, not sunshine, not other corrode, inflammable gas, oil fog, water drop or salt content, etc	
	Environment temperature	-10°C~+50°C(environment above 40°C, please reduce ratio and use)	
	Altitude height	1% each rise 100metres when above 1000metres, can be used at the highest 3000metres	
	Humidity	Low than 95% RH, no water drop condensate	
	Shake	Low than 5.9m/s2(0.6g)	
	Storage temperature	-20°C ~ +60°C	
Cooling method	Forced air cooling		

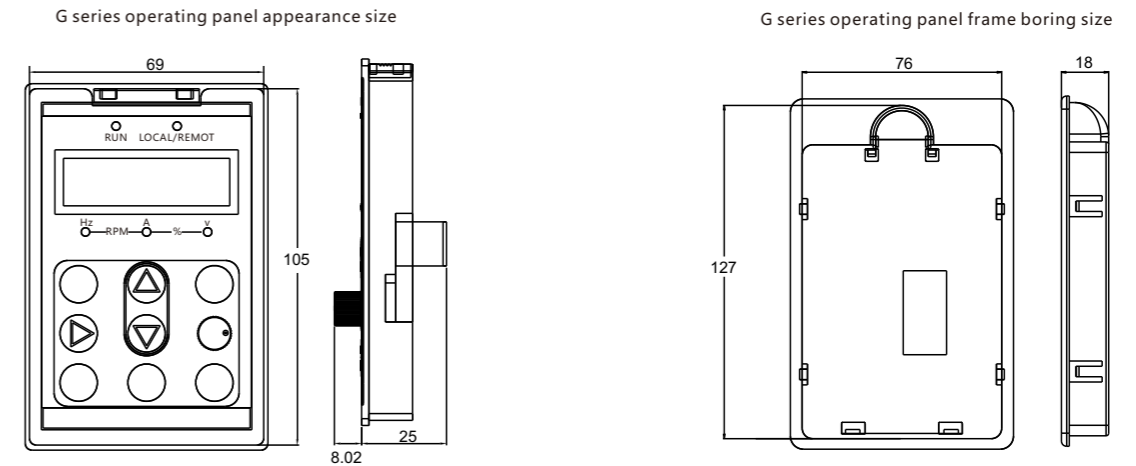


## G series installation size diagram

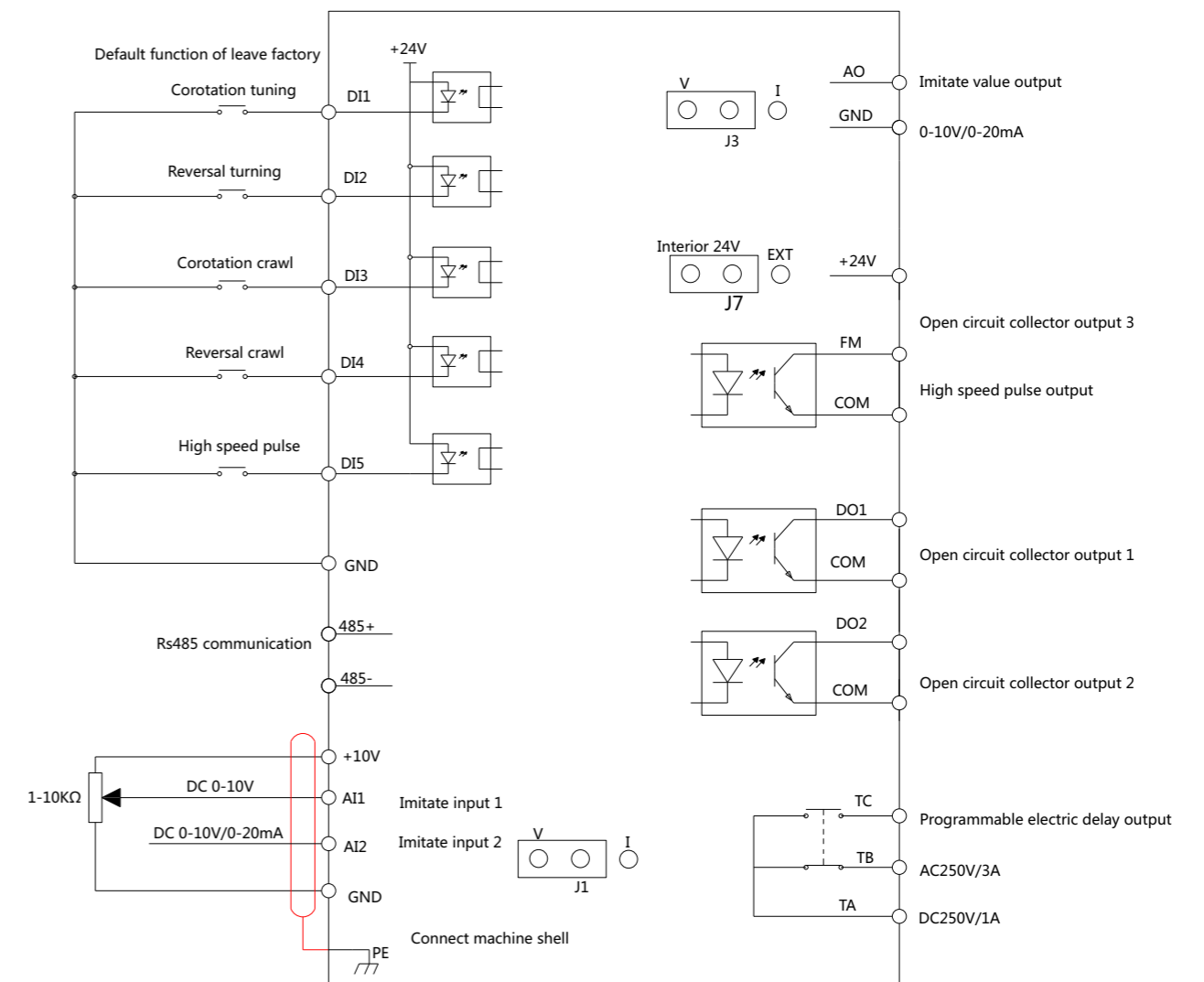


Frequency converter specification	H	W	D	Installation size		Installation bore diameter	Remark
				B	A		
0.75KW~2.2KW	187.0	126.0	172.5	173.0	113.0	5.0	
4KW~7.5KW	247.5	160.0	195.5	234.0	148.0	5.0	
11KW~18.5KW	321.0	207.5	203.5	306.0	190.0	6.0	
22KW~37KW	446.0	284.0	228.0	448.0	234.0	6.5	
45KW~55KW	604.0	385.0	269.0	580.0	260.0	10.5	
75KW~90KW	702.0	475.0	316.0	680.0	349.0	10.5	
110KW~185KW	928.5	579.0	386.0	902.5	449.0	10.5	No base
200KW~280KW	1060.0	650.0	386.0	1030.0	420.0	12.0	No base
315KW~400KW	1359.0	800.0	403.0	1300.0	520.0	16.0	No base

## G series operating panel and operating panel frame



## G type control return circuit wiring diagram



# S18 series

## Product introduction

S18 series high performance vector control frequency converter, adopt 32 bytes DSP control system, realize torque quickly responding and accurately control through coupling release control the motor magnetic flow current and torque current, can be widely applied in the field where high speed control precision, torque responding speed and big requirements of low frequency output torque.

## Technical characteristics

- Three speed control:V/F control, no PG open loop vector control SVC, with PG close loop vector control FVC;
- Low speed able to reach up 180% moment output, control precision  $\pm 5\%$  FVC;
- Speed tracing re-start function, realize non shock gently tracing start motor;
- Rich expanding card options: various occupy expanding card like 485 communication card, IO expanding card and PG card;
- 16 section speed, simple PLC, PID control and swing frequency control;
- With PG close loop vector control speed precision reach up  $\pm 0.1$ , provide 1:1000 speed control scope;
- Panel adopt coder adjust speed, accurately adjust speed;
- Support difference coder, open circuit collector coder, revolving coder and UVW coder;



## S18 series product technical index

Category	Terminal symbol	Terminal name	Function instruction
Power supply	' +10V,GND	Outer connect 10V power supply	Outward provide +10V power supply, the max output current 10mA. Generally used as outer connect potential power supply, the potential range value 1-5K $\Omega$ .
	' +24V,COM	Outer connect 24V power supply	Outward provide +24V power supply, generally used to working power supply and outer connect sensor working power supply of digit input/output terminal; the max output current 200mA.
	OP	Outer power supply connect in terminal	Default as connect +24V when leave factory. OP need connect outer power supply when utilize outer signal drive S1-S5, and need break with +24V power supply terminal.
Imitate input	AI1,GND	Imitate value input terminal 1	Input voltage range:DC0V-10V Input impedance:22K $\Omega$
	AI2,GND	Imitate value input terminal 2	Input range:DC0V-10V/0mA, choice decided by J3 jump wire on the control panel. Input impedance:voltage input 22K $\Omega$ , current input through impedance 500 $\Omega$ .
Digit input	S1,COM	Digit input 1	Optic coupling insulation, compatible double polarity input Input impedance: 22K $\Omega$ Valid electrical level input voltage range:9-30V
	S2,COM	Digit input 2	
	S3,COM	Digit input 3	
	S4,COM	Digit input 4	
	S5,COM	Digit input 5 High speed pulse input	Has characteristics of S1-S5, additionally, can be as the high speed pulse input passageway. The highest input frequency:100KHz Input impedance:1.2K $\Omega$
Imitate output	AO1,GND	Imitate output 1	The J2 jump wire on the main control panel choice decide voltage or current output. Output voltage range: 100KHz Output current range:0mA-20mA
Digit output	DO1,CME	Imitate output 1	Optic coupling insulation,double polarity open circuit collector output Output voltage range:0-24V Output current range:0mA-50mA Note:digit output grounding CME and output/input grounding COM is interior insulation, but the CME and COM already short connect through jump line K8 when leave factory. When DO want to use outer power supply driving, jump wire J8 select outer connect.
	FM,CME	High speed pulse output	Restricted by parameter A5-00: The highest frequency 100KHz when output as high speed pulse; Same specification as DO1 when output as collector open circuit.
Electric relay output	TA,TC	Normally open terminal	Contactor driven capacity: 250V AC/3A, cos $\phi$ 0.4 30V DC/1A
	TA,TB	Normally close terminal	
Jump wire	J2	AO1	Voltage and current output choice, default as voltage output
	J3	AI2	Voltage and current output choice, default as voltage input

# S18 series

## S18 series product model

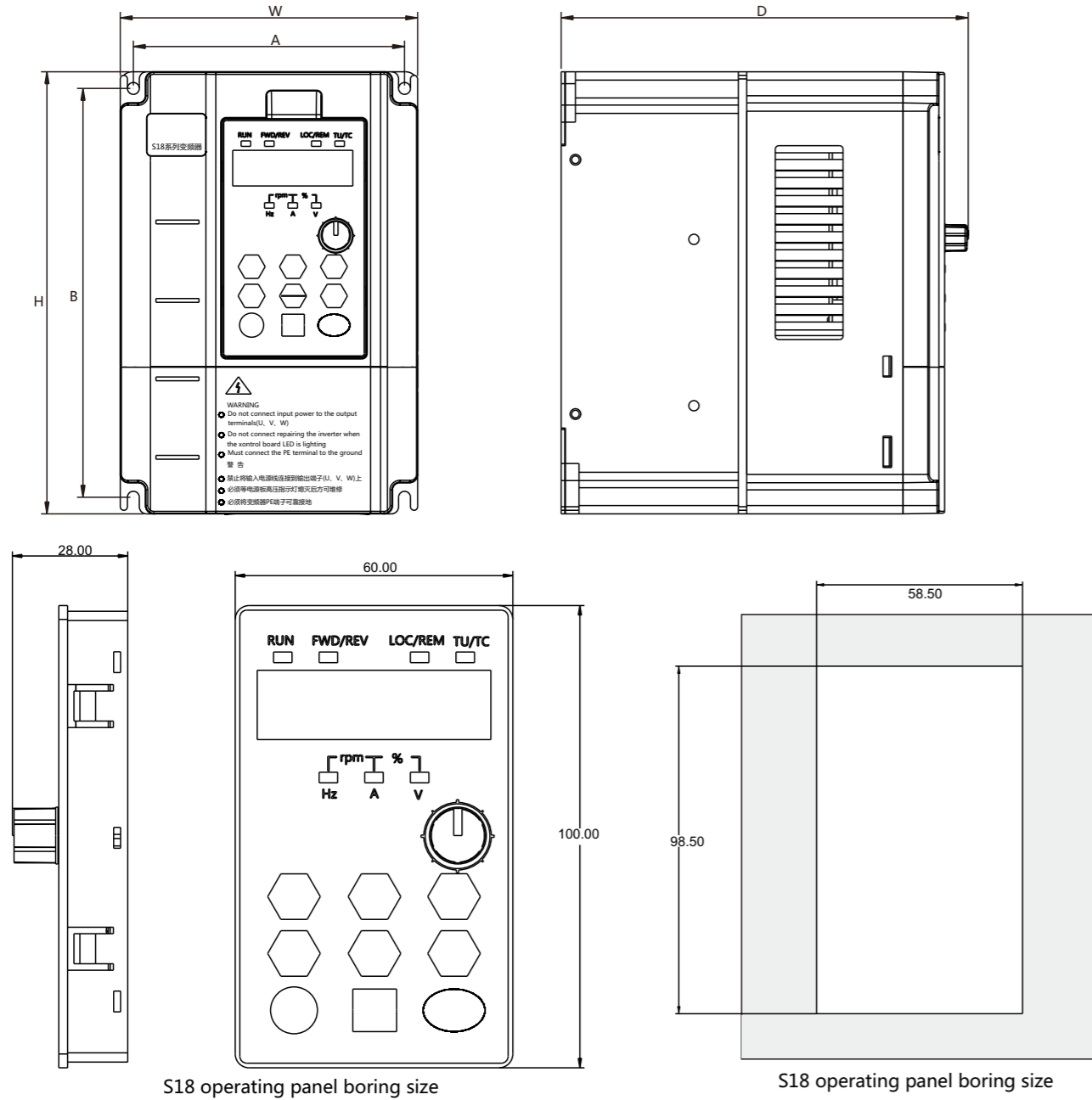
Frequency converter model	Power supply capacity KVA	Input current A	Output current A	Adapt motor KW
S18-00R7G3/01R5P3	1.5	3.4	2.1	0.75/1.5
S18-01R5G3/02R2P3	3.0	5.0	3.8	1.5/2.2
S18-02R2G3/04R0P3	4.0	5.8	5.1	2.2/4.0
S18-04R0G3/05R5P3	5.9	10.5	9/13	4.0/5.5
S18-05R5G3/07R5P3	8.9	14.6	13/17	5.5/7.5
S18-07R5G3/0011P3	11.0	20.5	17/25	7.5/11
S18-0011G3/0015P3	17.0	26.0	25/32	11/15
S18-0015G3/0018P3	21.0	35.0	32/37	15/18.5
S18-0018G3/0022P3	24.0	38.5	37/45	18.5/22
S18-0022G3/0030P3	30.0	46.5	45/60	22/30
S18-0030G3/0037P3	40.0	62.0	60/75	30/37
S18-0037G3/0045P3	57.0	76.0	75/91	37/45
S18-0045G3/0055P3	69.0	92.0	91/112	45/55
S18-0055G3/0075P3	85.0	113.0	112/150	55/75
S18-0075G3/0090P3	114.0	157.0	150/176	75/90
S18-0090G3/0110P3	134.0	180.0	176/210	90/110
S18-0110G3/0132P3	160.0	214.0	210/253	110/132
S18-0132G3/0160P3	192.0	265.0	253/304	132/160
S18-0160G3/0185P3	231.0	307.0	304/340	160/185
S18-0185G3/0200P3	242.0	350.0	340/377	185/200
S18-0200G3/0220P3	250.0	385.0	377/426	200/220
S18-0220G3/0250P3	280.0	430.0	426/465	220/250
S18-0250G3/0280P3	355.0	468.0	465/520	250/280
S18-0280G3/0315P3	396.0	525.0	520/585	280/315
S18-0315G3/0350P3	445.0	590.0	585/650	315/350
S18-0350G3/0400P3	500.0	665.0	650/725	350/400
S18-0400G3/0450P3	565.0	785.0	725/820	400/450

## technical specification

Power KW	0.75	1.5	2.2	3.7	5.5	7.5	11	15	18.5	22	30	37	45	55	75	90	110	132	160	185	200	220	250	280	315	350	400		
Adapt motor	0.75	1.5	2.2	3.7	5.5	7.5	11	15	18.5	22	30	37	45	55	75	90	110	132	160	185	200	220	250	280	315	350	400		
Input	Rated voltage	Three phase 380V~480V, 50/60Hz																											
	frequency																												
	Voltage range	320-490V; allow frequency wave $\pm 5\%$																											
Output	Rated current A	2.8	4.2	6	10	15	18.5	26.2	33	42	49	65	82	99	122	164	177	196	232	282	326	352	385	437	491	580	624	670	
	Overload capacity	150% 1 minute 180% 10 seconds, 200% 0.5 seconds																											
Output	Voltage V	Three phase 0V~ rated input voltage																											
	Rated current A	2.2	3.8	5.2	9	13	17	24	30	39	45	60	75	91	112	150	176	210	252	304	350	380	426	470	520	600	650	730	
Braking unit	Standard configuration														Interior configuration optional		Need outer place unit												
Cooling method	Forced air cooling																												

# S18 series

## S18 series installation diagram



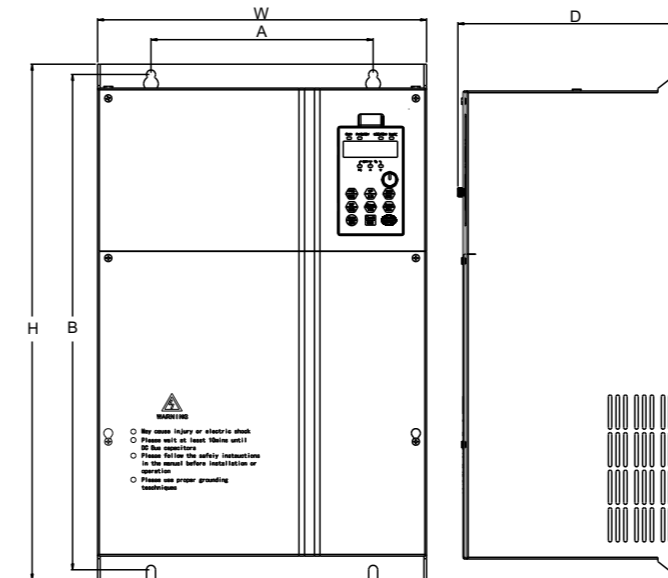
Frequency converter specification	H	W	D	Installation size		Installation bore diameter	Remark
				A	B		
0.75KW~2.2KW	185.6	125.0	171.1	114.0	172.0	5.0	
4KW~7.5KW	248.0	160.0	191.5	149.0	237.0	6.0	
11KW~18.5KW	322.0	208.0	201.9	190.0	304.0	6.0	
22KW~37KW	446.0	284.0	228.0	234.0	448.0	6.5	
45KW~55KW	604.0	385.0	269.0	260.0	580.0	10.5	
75KW~90KW	702.0	475.0	316.0	349.0	680.0	10.5	
110KW~185KW	928.5	579.0	386.0	449.0	902.5	10.5	No base
200KW~280KW	1060.0	650.0	386.0	420.0	1030.0	12.0	No base
315KW~400KW	1359.0	800.0	403.0	520.0	1300.0	16.0	No base

# S18 series

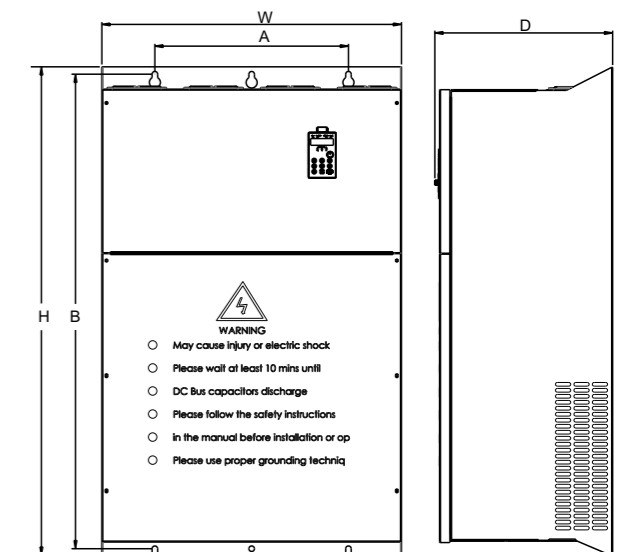
## S18 series iron shell installation diagram



22KW-90KW appearance size diagram

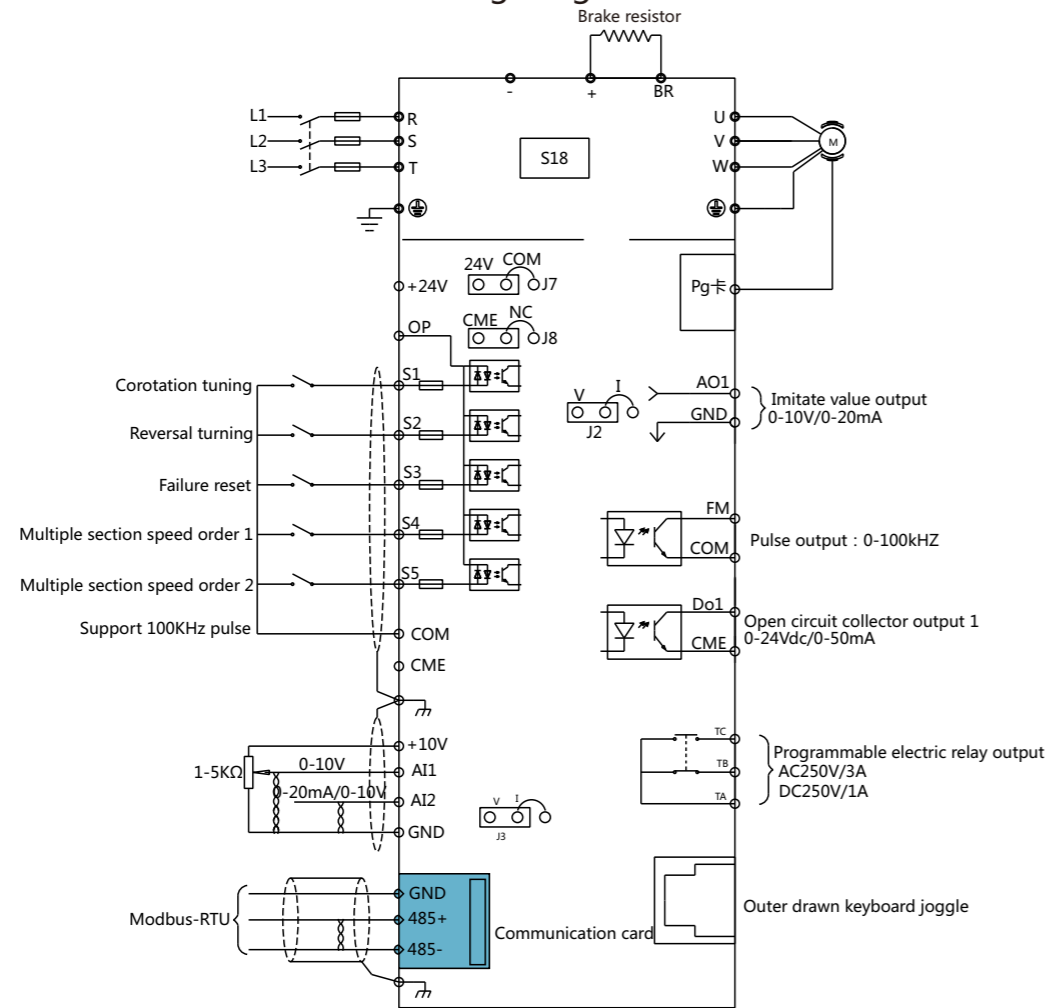


110KW-400KW appearance size diagram

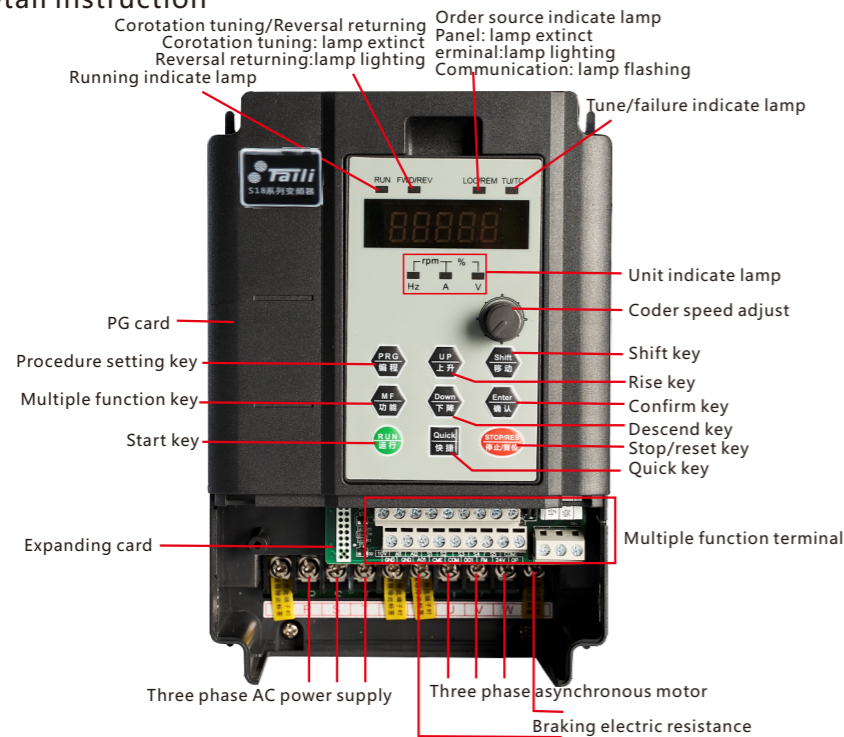


# S18 series

## S18 series control return circuit wiring diagram



## Details detail instruction



# S20 series

## Product introduce

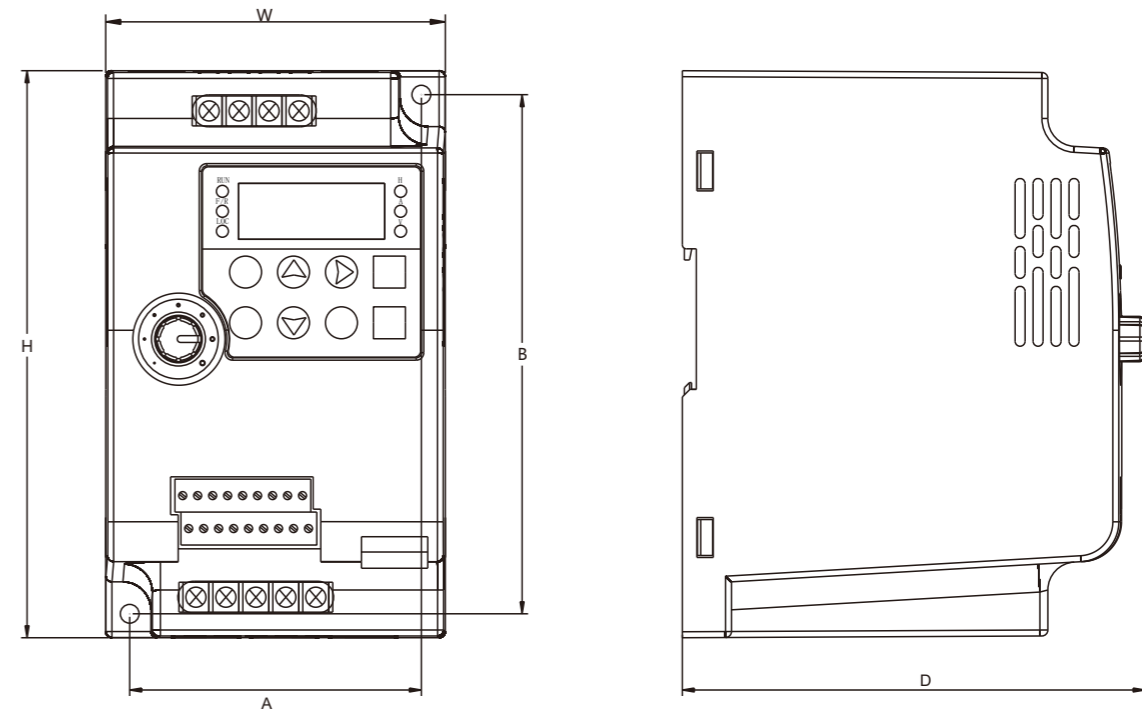
S20 series frequency converter adopt advanced DSP control system, can realize open loop vector control V/F control. Installation guide rail type installation, small volume, completely protect motor, human-computer interaction simple and clear.

## Technical characteristics

- Power range:0.75-11KW
- V/F control, no PG open loop vector control SVC;
- Low speed able to reach up 150% moment output;
- Speed tracing re-start function, realize non shock gently tracing start motor;
- Support Modbus 485communication;
- Small volume and easy to install;
- 16 section speed, simple PLC, PID control and swing frequency control;
- Special motor algorithm, small motor heating value;



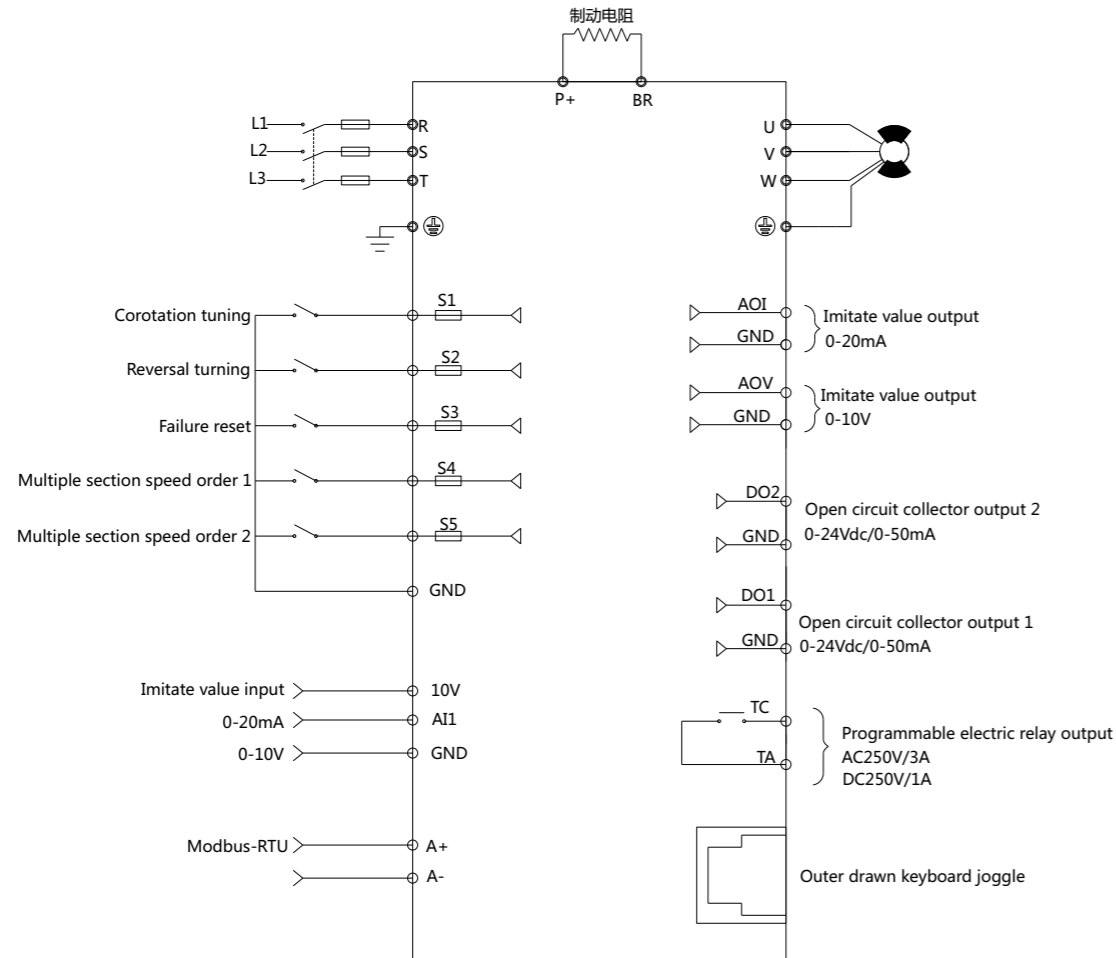
## Installation diagram



Frequency converter specification	H	W	D	Installation size		Installation bore diameter
				A	B	
0.75-2.2KW/380V	142	85	116	73	130	4
0.4-1.5KW/220V				83	168	4
4-5.5KW/380V	180	95.5	120.5	83	168	4
2.2KW/220V				96	230	4
7.5-11KW/380V	240.5	106.5	150.5	96	230	4
4-5.5KW/220V						

# S20 series

## S20 control return circuit wiring diagram

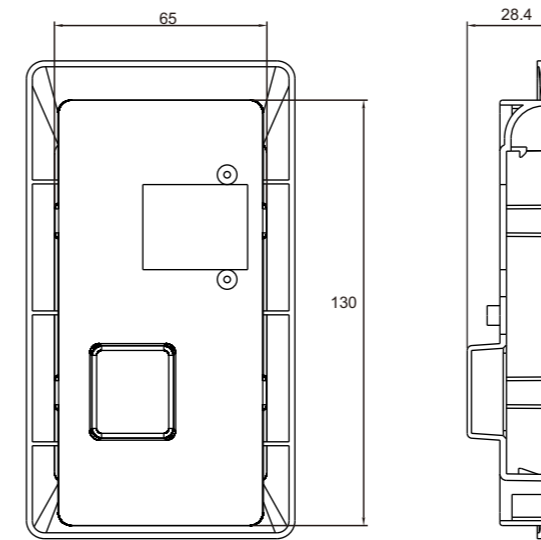


## S20 series production model

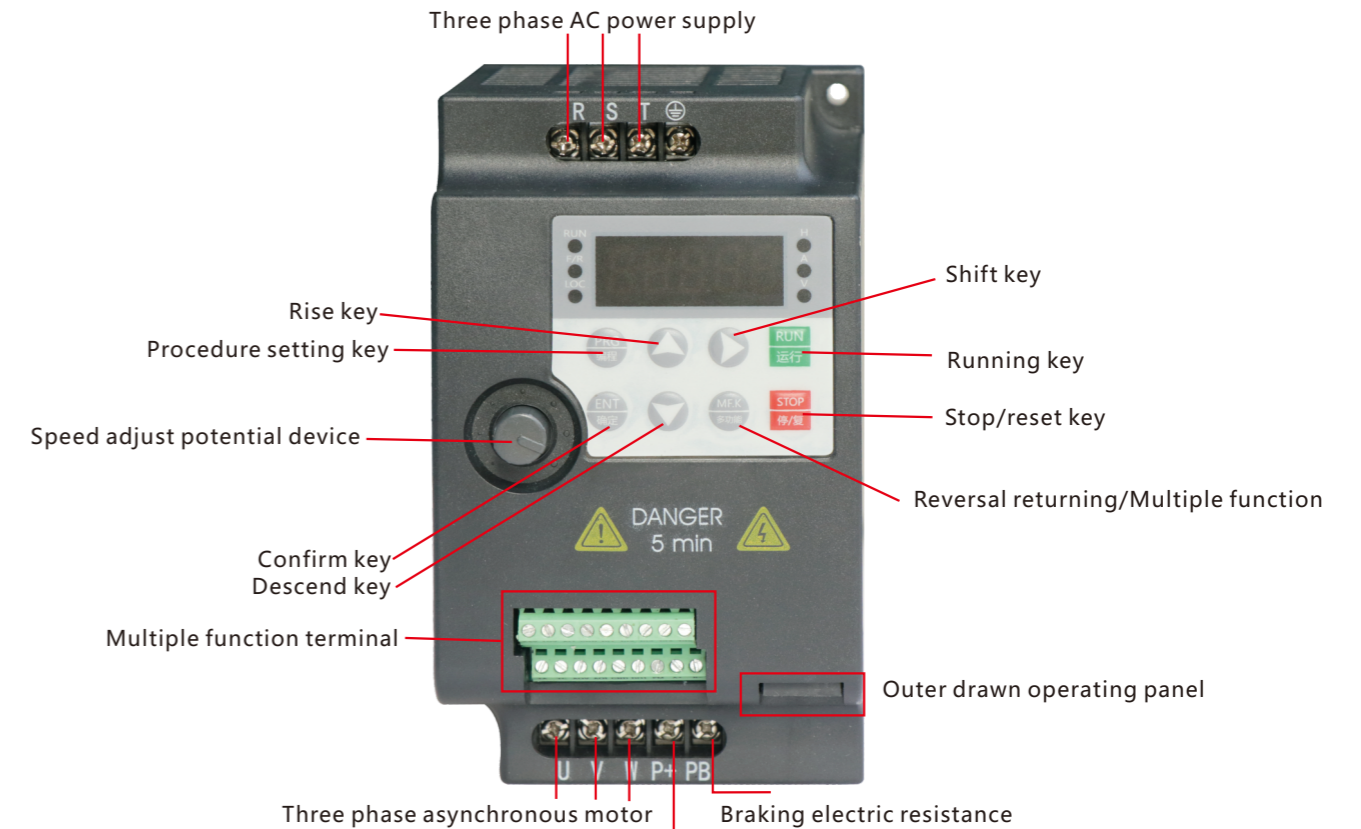
Frequency converter model	Power supply capacity KVA	Input current A	Output current A	Adapt motor KW
Single phase power supply : 220V, 50/60HZ				
TL-S2000R4G1	1.1	5.0	3	0.4
TL-S2000R7G1	1.5	8.2	5	0.75
TL-S2001R5G1	3.0	14.0	7	1.5
TL-S2002R2G1	4.0	23.0	9.6	2.2
TL-S2004R0G1	6.3	26.5	16.5	4.0
TL-S2005R5G1	9.5	37.5	25	5.5
Three phase power supply : 380V, 50/60HZ				
TL-S2000R7G3	1.5	3.4	2.1	0.75
TL-S2001R5G3	3.0	5.0	3.8	1.5
TL-S2002R2G3	4.0	5.8	5.1	2.2
TL-S2004R0G3	5.9	10.5	9.0	4.0
TL-S2005R5G3	8.9	14.6	13.0	5.5
TL-S2007R5G3	11.0	20.5	17.0	7.5
TL-S200011G3	17.0	35.0	25.0	11

# S20 series

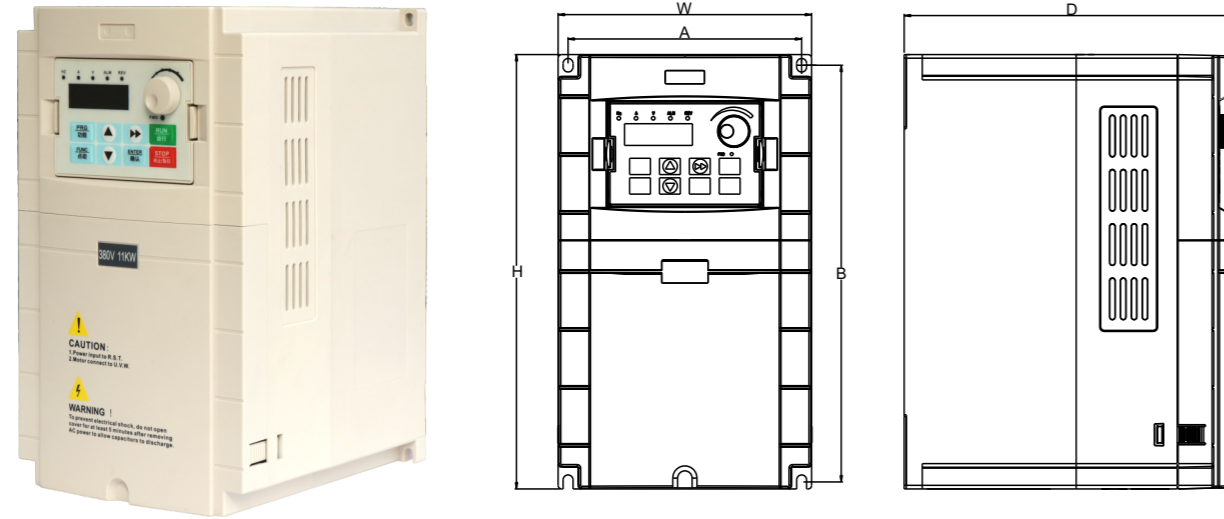
## S18/20 outer drawn keyboard boring size



## Details detail instruction



# S30 series



## Product introduce

S30 series frequency converter, complete new design idea, vector control and V/F control freely shift, appearance beautiful and simple, strong function, support crystal liquid Chinese display, removable panel, adopt generation IV IGBT module, more smaller motor noise.

## Technical characteristics

- Power range:0.75-22KW
- V/F control, no PG open loop vector SVC;
- IGBT module design, non disperse single pipe module, high uniformity and stability;
- Algorithm optimize, quickly start and quickly stop not protect
- Support Modbus 485 communication;
- Fast low frequency torque dynamic effect, stable speed;
- Wide voltage design, also support oversea voltage;
- Beautiful appearance, compact structure and reasonable;

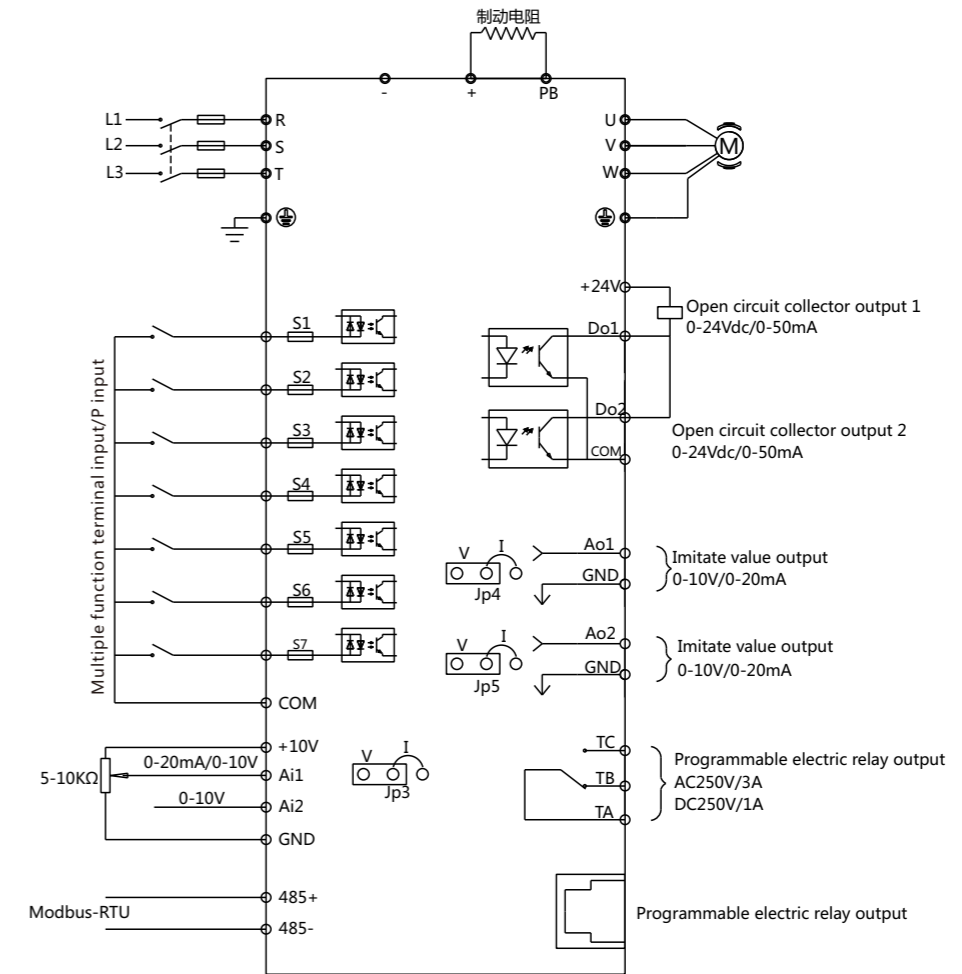
Frequency converter model	Power supply capacity KVA	Input current A	Output current A	Adapt motor KW
TL-S3000R7G3	1.5	3.4	2.1	0.75
TL-S3001R5G3	3.0	5.0	3.8	1.5
TL-S3002R2G3	4.0	5.8	5.1	2.2
TL-S3004R0G3	5.9	10.5	9.0	4.0
TL-S3005R5G3	8.9	14.6	13.0	5.5
TL-S3007R5G3	11.0	20.5	17.0	7.5
TL-S300011G3	17.0	26.0	25.0	11
TL-S300015G3	21.0	35.0	32.0	15
TL-S300018G3	24.0	38.5	37.0	18.5
TL-S300022G3	30.0	46.5	45.0	22

## S30 series product models

Frequency converter specification	H	W	D	A	B	安装孔径
0.75-2.2KW	151	100	133	89	14	5
4-11KW	239	140	177	131	229	5
15-22KW	320	205	205	189	306	6

# S30 series

## S30 type control return circuit wiring diagram



## Details detail instruction

