JUDITECH
JUDICIOUS TECHNOLOGY

PRODUCT SELECTION GUIDE

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With independent intellectual property rights, Juditech (Wuxi Juditech Electric Co., Ltd.) specializes in R&D, production, and sales of industrial automation products. By utilizing automatic control technology and vector frequency conversion technology, the company offers high-quality products and services for various industries, thereby increasing both customer and enterprise value.

Our vector and torque control technology is synchronized with international leading technology in electric drive technology. To ensure product life cycle and process quality control of mass production, we have advanced new technology and new product development facilities, experimental equipment, automated testing equipment, and production equipment. Our business covers industrial automation, motor, remote IoT, etc.

Juditech closely follows the market demand and develops products and tailor-made solutions for industry customers on the basis of general-purpose products. The products are widely used. Today, our products are widely used in metallurgy, lifting, petroleum, chemical industries, machine tools, construction materials, ceramics, plastics, metal processing, stone processing, wood processing, air compressors, washing machines, water supply, air conditioning, municipal engineering, textiles, printing, minesfield, etc.

Company Profile

CONTENTS

JT550 Series High Performance Vector Control Inverter ——— 01

JT300 Series Economic Inverter ——— 09

JT580 Series High Protection Inverter ——— 13

JT550-CQ Series Through-the-wall Inverter ——— 18

JS500 Series Construction Lifting Integrated Machine ——— 20

JS500 Series Material Lifting Integrated Machine ——— 23

PLC (Programmable Logic Controller) ——— 25

PMSM (Permanent Magnet Synchronous Motor) ——— 28

JT550

Series High Performance

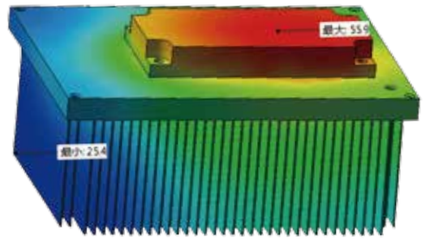
Vector Control Inverter

JT550 series inverter is a high-performance vector and torque control inverter. With the speed sensorless vector control technology and torque control technology that is synchronized with the current international leading technology, it not only has the same excellent control performance as the international high-end inverter but also further strengthens the reliability of the product and the adaptability of the environment. Its customized and industrialized design can better meet the needs of various transmission applications as well.

FEATURES

Industry-leading Thermal Simulation Design

With the industry's advanced tools and technologies, we scientifically conduct a comprehensive and efficient thermal simulation of products to ensure scientific and reasonable product design.



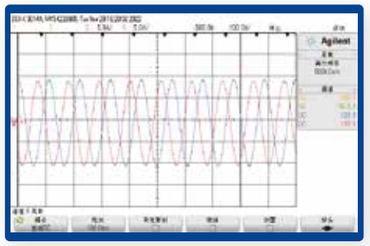
Temp(Celsius)

55.9
52.9
49.8
46.8
43.7
40.7
37.6
34.6
31.5
28.5
25.4

The air duct is independently designed to effectively improve the heat dissipation efficiency; at the same time, it can effectively prevent foreign objects from entering the inverter and causing short circuits or other faults.

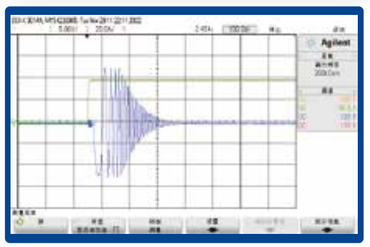
High Precision of Stable Speed and Wide Range of Speed Regulation

Precision of stable speed: ±0.5%(SVC)、±0.2%(FVC)
Speed regulation: 1:100(SVC)、1:1000(FVC)
Overload capacity: 150% rated current for 60s; 180% rated current for 3s



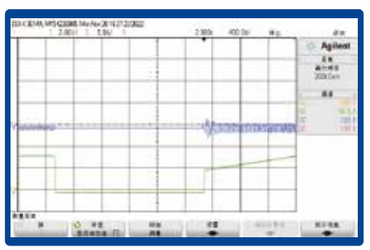
Zero-speed Start

Super-short acceleration time, the acceleration time can be automatically adjusted according to the drive, and can reach the rated speed within 0.2s and run stably.



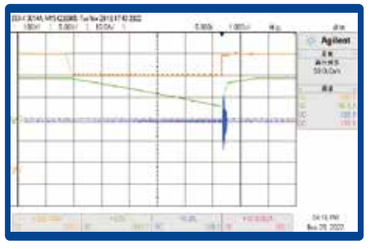
Speed Tracking Restart

Speed tracking can restart the device when the motor still has the initial speed, which can realize a non-impact start at any speed. This method avoids the dissipation of motor energy, simplifies the process, and improves efficiency.



Non-stop Function

If there is a sudden power failure, the device will not stop. The bus voltage threshold can be preset. If low bus voltage is detected, it can be kept constant by reducing speed and generating power to ensure that the device does not stop or report an error in an instant power failure. After the power supply returns to normal, the device can continue to operate.



FULL PROTECTION

Three-proof Paint Automatic Spraying Process

Environmentally friendly and high-quality three-proof paint is used to strengthen the product's tolerance to the environment; the automatic spraying process ensures that the printed circuit board is sprayed evenly.

Perfect Protection

Output-to-ground short-circuit protection, over-current protection, inverter overload protection, motor overload protection, inverter over-temperature protection, etc.

TECHNICAL SPECIFICATIONS

Item		Specification
Standard Functions	Maximum frequency	0—320Hz
	Carrier frequency	0.5kHz~8.0kHz，Note: The carrier frequency may automatically lower depending upon the ambient temperature to protect the inverter.
	Frequency setting resolution	Digital setting: 0.01Hz;Analog setting: Maximum frequency×0.025%
	Control mode	Voltage/Frequency(V/F) control,Sensorless Vector Control (SVC),Vector control with sensor (FVC)
	Starting torque	G type: 0.25Hz/150%(SVC); 0 Hz/180%(FVC);P type: 0.5Hz/100%
	Speed regulation ratio	1:100 (SVC) 1:1000 (FVC)
	Speed control precision	±0.5%(SVC) ±0.02%(FVC)
	Torque control precision	FVC:±3%； SVC: ±5% above 5Hz
	Overload capacity	G type: 60s for 150% of rated current and 3s for 180% of rated current P type: 60s for 120% of rated current and 3s for 150% of rated current
	Torque boost	Auto torque boost;Manual torque boost: The desired torque boost value (0.1%~30.0%) can be set.
	V/F Curve	Linear, Multi-point, Nth power V/F curve (1.2 power, 1.4 power, 1.6 power, 1.8 power, 2 power)
	Acceleration/Deceleration time	Acceleration/Deceleration pattern: Linear Acceleration/Deceleration, S curve acceleration/deceleration Setting range: Setting range from 0.00 to 6500s Switching: The four types of acceleration/deceleration time can be set or selected individually (switchable during operation).
	DC braking	DC braking frequency: 0.00Hz to max.frequency,Braking time: 0.0~100.0s Braking current value: 0.0%~100.0%
	JOG control	JOG frequency range: 0.00~50.00 Hz;JOG acceleration/deceleration time: 0.0~6500.0s
	Simple PLC, multi-speed running	16-speed operating through built-in PLC or control terminal
	Onboard PID	It realizes process-controlled closed loop control system easily
	Auto voltage regulation (AVR)	Keep constant voltage automatically when the grid voltage transients.
	Over-voltage/Over-current stall control	The current and voltage are limited automatically during the running process so as to avoid frequent tripping due to over-voltage and over-current.
	Rapid current limit	It helps to avoid frequent over-current faults of the AC drive.
	Torque limit and control	Torque is automatically limited during the operation to prevent frequent overcurrent trips;Vector mode can realize torque control.
Individualized Functions	High performance	Realize asynchronous motor control with high-performance current vector control technology.
	Instantaneous power failure protective function	The inverter can continue operating if an instantaneous power failure.The load feedback energy is used to compensate for voltage drops to keep the inverter running for a short time.
	Timing control	Timing control function: time setting range(0 to 6500mins).
	RS-485	Modbus-RTU
Running	Running command channel	Three channels: operation panel, control terminals, and serial communication port.They can be switched in a variety of ways.
	Frequency source	Digital, analog voltage, analog current, pulse, and serial port. Auxiliary frequency fine-tuning and frequency synthesis can be flexibly realized.
	Auxiliary frequency source	Digital, analog voltage, analog current, pulse, and serial port. Auxiliary frequency fine-tuning and frequency synthesis can be flexibly realized.
	Input terminals	5 digital inputs (X5 supports pulse input, pulse range: 1Hz~100kHz); 2 analog inputs, AI1&AI2 support 0~10V voltage input or 0~20mA current input.
	Output terminals	1 high-speed pulse output terminal (support 0~100kHz high-speed pulse output); 1 digital output terminal; 2 relay output terminals 2 analog output terminals, support 0~20mA current output or 0~10V voltage output
Display & Keypad	LED display	Display parameters (Three display modes: Basic mode, Quick menu mode, Non-factory value mode)
	Protection function	Power-on motor short circuit detection, input and output phase loss protection, overcurrent protection, overvoltage protection, undervoltage protection, overheat protection, overload protection, etc.
	Optional accessories	Braking unit, IO expansion card, RS-485 communication card, differential input PG card, OC input PG card, sin/cos PG card
Environment	Usage location	Indoors, no direct sunlight, dust, corrosive gas, flammable gas, oil mist, water vapor, drip, or salt, etc.
	Altitude	1000m or less (Derating is required if higher than 1000m, the rated output current will be reduced by 1% for every 100m rise)
	Ambient temperature	-10°C to +40°C (Derating is required if the temperature exceeds 40°C, the rated output current will be reduced by 1% for every 1°C rise.)
	Ambient humidity	Less than 95%RH (avoid condensation)
	Vibration	Less than 5.9 m/s² (0.6 g)
	Storage temperature	-20°C ～ +60°C

MODEL DESCRIPTION

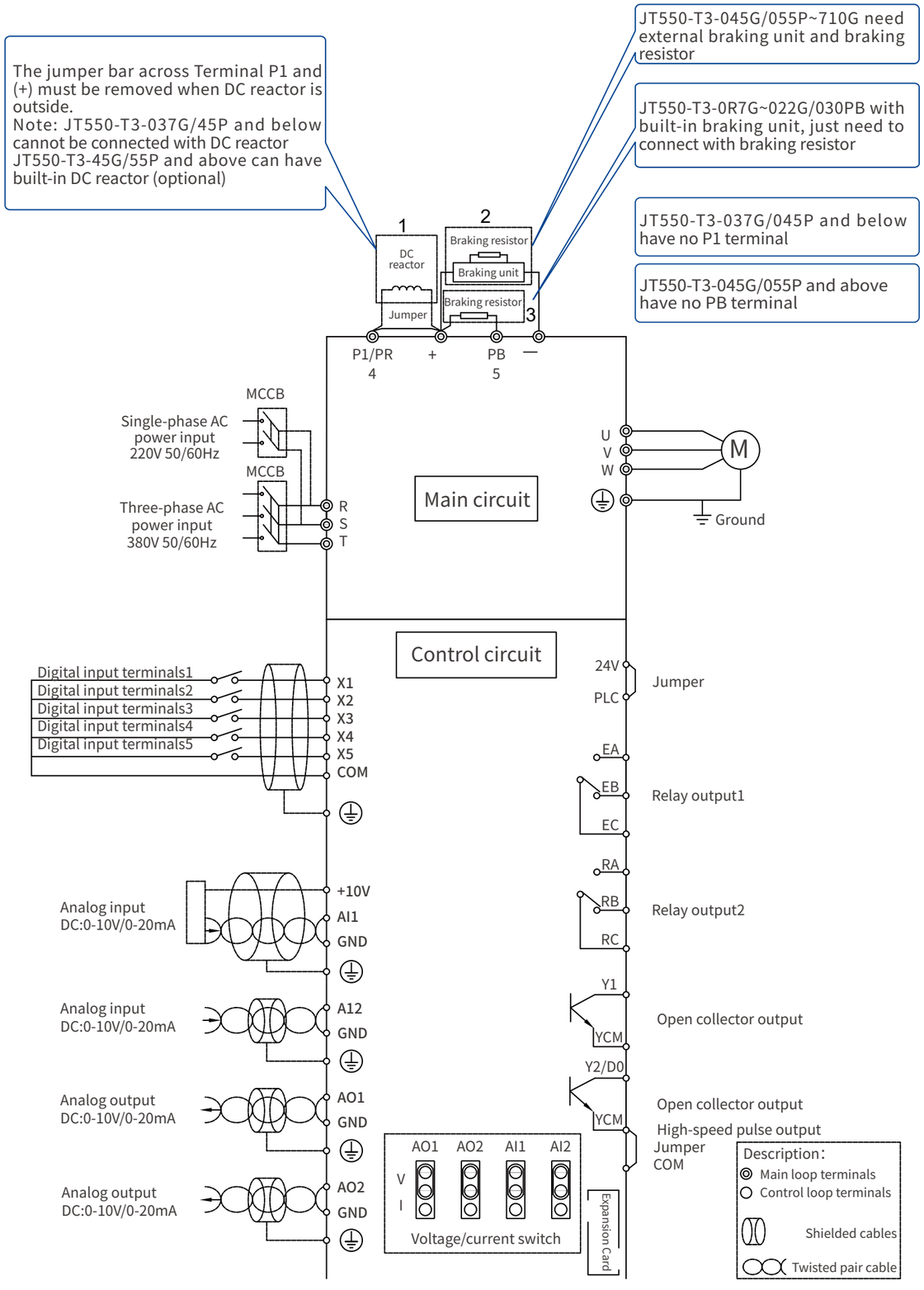
JT550-T3-011G/015P B
01 02 03 04 05

01 Inverter series		03 Heavy Load011: 11kW
02 Voltage Class	S2：AC Single-phase 220V	04 Light load015: 15kW
	T3： AC Three-phase 380V	05 With Built-in Braking Unit: B: Yes Blank: No

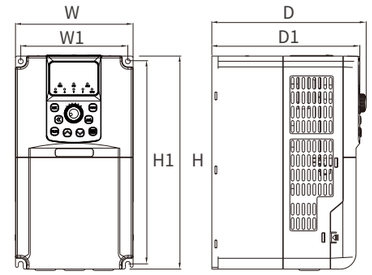
TECHNICAL PARAMETERS

Product Model	Power Capacity	Input Current	Output Current	Motor	
Three-phase: 380V, 50/60Hz					
JT550-T3-0R7G/1R5PB	1.5	3.4	2.1	0.75	1
JT550-T3-1R5G/2R2PB	3	5	3.8	1.5	2
JT550-T3-2R2G/4R0PB	4	5.8	5.1	2.2	3
JT550-T3-4R0G/5R5PB	5.9	10.5	9	3.7	5
JT550-T3-5R5G/7R5PB	8.9	14.6	13	5.5	7.5
JT550-T3-7R5G/011PB	11	20.5	17	7.5	10
JT550-T3-011G/015PB	17	26	25	11	15
JT550-T3-015G/018PB	21	35	32	15	20
JT550-T3-018G/022PB	24	38.5	37	18.5	25
JT550-T3-022G/030PB	30	46.5	45	22	30
JT550-T3-030G/037PB	40	62	60	30	40
JT550-T3-037G/045P	57	76	75	37	50
JT550-T3-045G/055P	69	92	91	45	60
JT550-T3-055G/075P	85	113	112	55	75
JT550-T3-075G/090P	114	157	150	75	100
JT550-T3-090G/110P	134	180	176	90	125
JT550-T3-110G/132P	160	214	210	110	150
JT550-T3-132G/160P	192	256	253	132	180
JT550-T3-160G/200P	231	307	304	160	210
JT550-T3-200G/220P	250	385	377	200	270
JT550-T3-220G/250P	280	430	426	220	300
JT550-T3-250G/280P	355	468	465	250	335
JT550-T3-280G/315P	396	525	520	280	380
JT550-T3-315G/355P	445	590	585	315	420
JT550-T3-355G/400P	500	665	650	355	470
JT550-T3-400G/450P	565	785	725	400	530
JT550-T3-450G	630	883	820	450	600
JT550-T3-500G	766	838	900	500	670
JT550-T3-560G	868	950	1020	560	750
JT550-T3-630G	957	1043	1120	630	840
JT550-T3-710G	1071	1171	1260	710	950

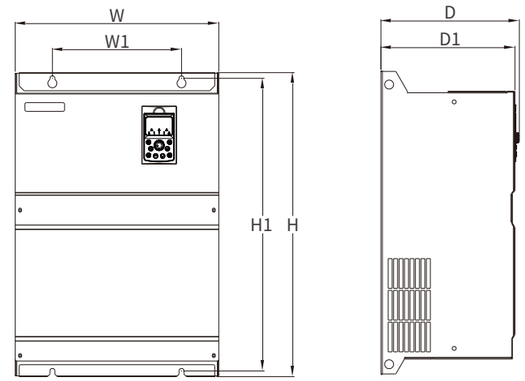
GENERAL WIRING DIAGRAM



APPEARANCE AND DIMENSIONS

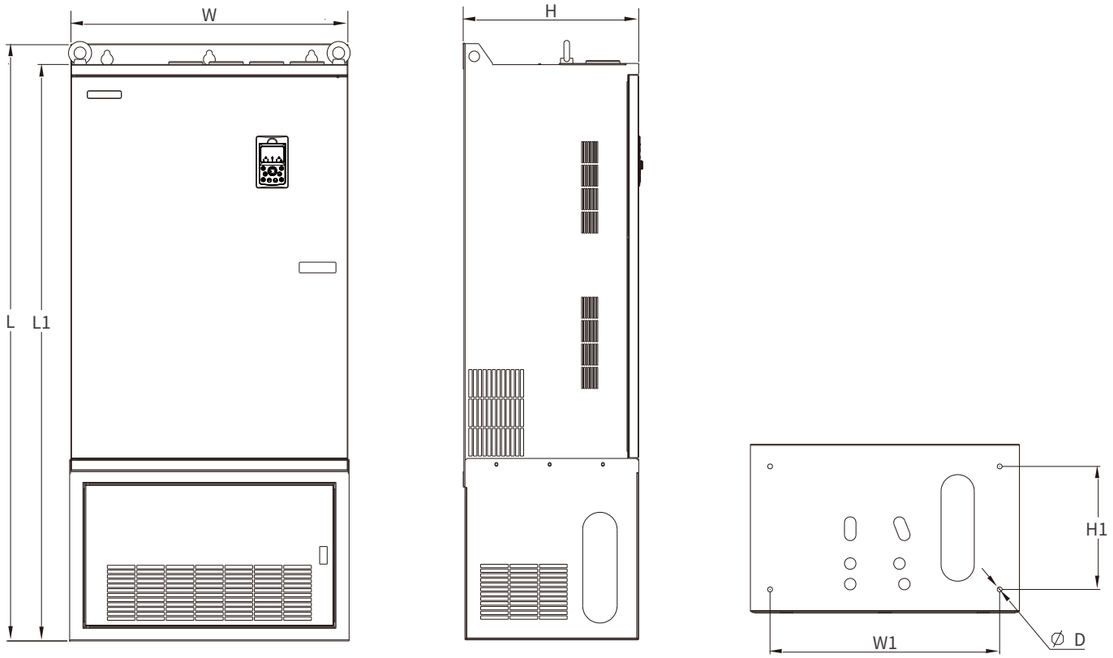


Installation Dimensions of Plastic Case Inverter



Installation Dimensions of Metal Case Inverter

Product Model	Mounting Holes Position(mm)		Dimensions(mm)				Diameter of Mounting Holes
	W1	H1	H	W	D1	D	
JT550-T3-0R7G/1R5PB	88.4	168.4	180	100	152	159	ϕ5.5
JT550-T3-1R5G/2R2PB							
JT550-T3-2R2G/4R0PB							
JT550-T3-4R0G/5R5PB	118.4	224.5	236	130	163.5	170.5	ϕ5.5
JT550-T3-5R5G/7R5PB							
JT550-T3-7R5G/011PB	141	243	260	155	175	182	ϕ7
JT550-T3-011G/015PB							
JT550-T3-015G/018PB	190	273.5	291.5	197	175	182	ϕ6
JT550-T3-018G/022PB							
JT550-T3-022G/030PB							
JT550-T3-030G/037P	220	392	405	253	180	187	ϕ7
JT550-T3-037G/045P							
JT550-T3-045G/055P	260	555	575	340	250	259	ϕ10
JT550-T3-055G/075P							
JT550-T3-075G/090P	260	590	610	410	270	279	ϕ10
JT550-T3-090G/110P							
JT550-T3-110G/132P	320	690	720	455	325	334	ϕ12
JT550-T3-132G/160P							
JT550-T3-160G/185P	360	845	880	530	367	376	ϕ14
JT550-T3-200G/220P							
JT550-T3-220G/250P	480	1005	1040	650	411	420	ϕ14
JT550-T3-250G/280P							
JT550-T3-280G/315P							
JT550-T3-315G/355P	600	1252	1300	815	427	436	ϕ14
JT550-T3-355G/400P							
JT550-T3-400G/450P							
JT550-T3-450G							



Product Model	Dimensions(mm)			Installation Dimensions(mm)			Diameter of Mounting Holes
	H	W	L	L1	H1	W1	
JT550-T3-045G/055P	249	340	850	810	180	280	ϕ12
JT550-T3-055G/075P							
JT550-T3-075G/090P	265	416	880	840	190	350	ϕ10
JT550-T3-090G/110P							
JT550-T3-110G/132P	327	461	980	935	220	380	ϕ12
JT550-T3-132G/160P							
JT550-T3-160G/185P	367	536	1190	1142	290	460	ϕ12
JT550-T3-200G/220P							
JT550-T3-220G/250P	412	656	1400	1354	300	560	ϕ12
JT550-T3-250G/280P							
JT550-T3-280G/315P							
JT550-T3-315G/400P	428	815	1757	1702	300	730	ϕ12
JT550-T3-355G/400P							
JT550-T3-400G/450P							
JT550-T3-450G							
JT550-T3-500G	600	1150	1900	/	480	1050	ϕ18
JT550-T3-560G							
JT550-T3-630G	600	1310	2208	/	480	1210	ϕ18
JT550-T3-710G							

EXPANSION CARDS

A00E01 | *485 Communication Card*

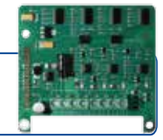
Support all models

Expand RS485 interface, support MODBUS communication protocol, inverter is a slave

A00E02 | *OC Input PG Card*

Support all models

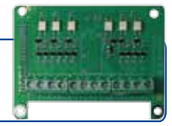
Corresponding to 0C output encoders



A00E05 | *I/O Expansion Card*

Support all models

Expand 5 digital inputs, support sink and source wiring methods, support external power supply.



A00E08 | *Resolver PG Card*

Support all models

Resolver Expansion Card

A00E12 | *Injection Molding Machine Current Adapter Card*

Support all models

Support proportional pressure and proportional flow input, support input signal 0-1A, 0-2A, support one-key touch screen parameter setting.

A00E13 | *485+3I Expansion Card*

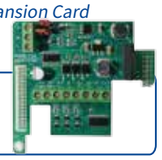
Support all models

Expand RS485 interface, support MODBUS communication protocol, inverter is a slave, expand 3 digital inputs.

A00E15 | *485+Differential Output Expansion Card*

Support all models

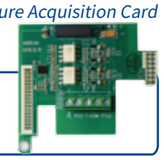
对 Corresponding to differential output encoder, 485 communication



A00E18 | *Dual PT100 Motor Temperature Acquisition Card*

Support all models

Collect motor temperature



A00E19 | *Rotary Encoder Expansion Card*

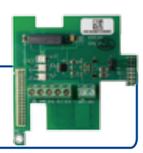
Support all models

Resolver Expansion Card

A00E20 | *485+3DI Expansion Card*

Support all models

Expand RS485 interface, support MODBUS communication protocol, inverter is a slave, expand 2 digital inputs.



JT300

Series Economic Inverter

JT300 adopts a slim book-style body design, a brand-new structural layout, the volume is reduced by 50%, and the power distribution cost is saved by 50%. Its independent air duct which is directly connected up and down can achieve efficient heat dissipation. JT300 can be installed side by side to make full use of the space and greatly reduce the cost of the electric cabinet; its excellent control algorithm, rich hardware interfaces and software functions can realize all-round protection and improve product reliability.

STRUCTURAL FEATURES

Smart and Compact

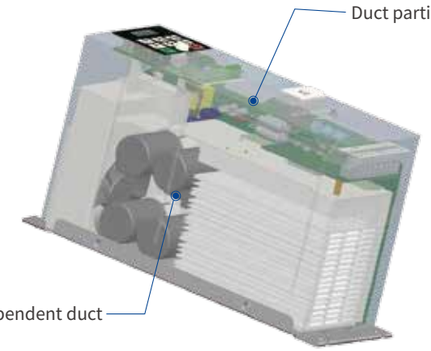
The JT300 has a compact structure and supports side-by-side installation, saving installation space and reducing cabinet costs.

Compared with JT550 series inverters of the same power, JT300 can save 30% of the installation space.

Protection Design

High protection: completely independent air duct, scientific layout inside the inverter, considering heat dissipation of high power consumption devices and dust-proof for sensitive devices

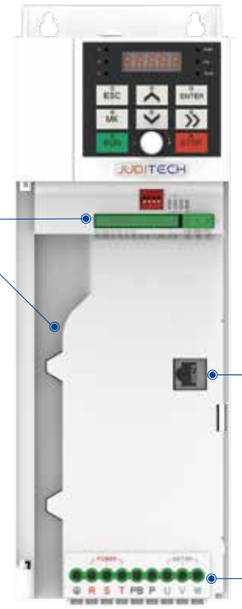
High temperature resistance: Scientific air duct design can quickly dissipate heat. With the low-temperature rise, JT300 can work without derating at an ambient temperature of 50°C.



Rich Interface

JT300 series is equipped with 485 communication as standard; 4 multifunctional digital input terminals; relay output, analog output and input; supports both voltage and current type. The wiring terminal layout is simple and beautiful, and the overall style is crafty.

The wiring trough for the control wire is designed on the side of the control terminal to ensure the beauty of the wiring when used in a cabinet or as a single inverter.



External keypad(optional)

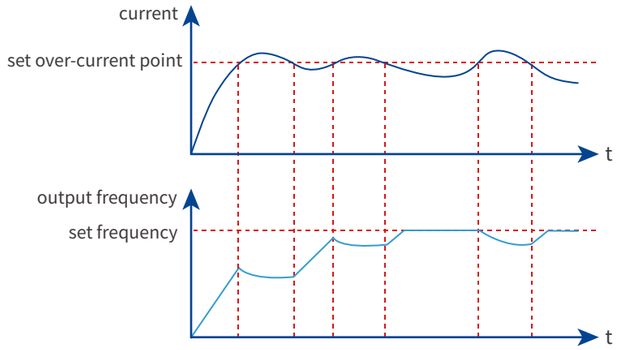
An external keypad can be installed through the network socket.

The main circuit uses European-style terminals, which improves safety and simplifies the wiring steps.

FEATURES

Comprehensive and Reliable Software and Hardware Protection

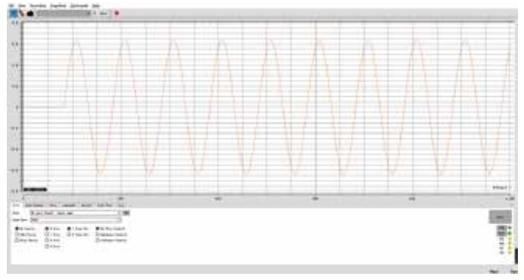
Accurate and comprehensive software and hardware protection ensure stable and reliable operation of the system, and accurate fault information output can locate and solve problems more quickly.



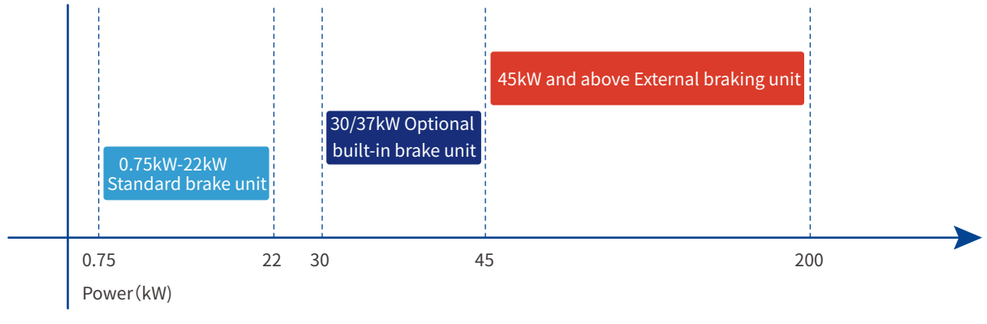
The inverter will automatically adjust the operating frequency if the set protection current value is exceeded.

Virtual Oscilloscope

With the virtual oscilloscope software which can monitor four parameters at the same time, users can monitor the operating parameters on the computer through it, making monitoring, debugging, and troubleshooting more flexible.



Brake Unit



- 0.75kW-22kW Standard brake unit
- 30kW-37kW Optional built-in brake unit
- 45kW and above External braking unit

MODEL DESCRIPTION

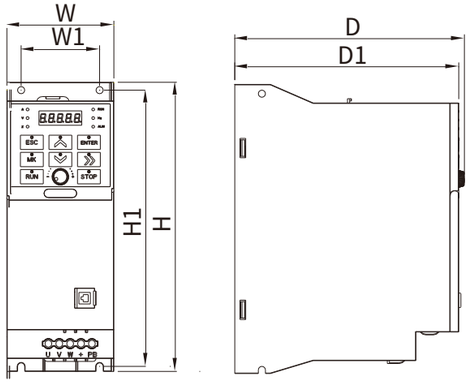
JT300-T3-011 B
01 02 03 04

01 Inverter series		03 Matching motor power011: 11kW
02 Voltage Class	S2：AC Single-phase 220V	04 With Built-in braking unit
	T3：AC Three-phase 380V	

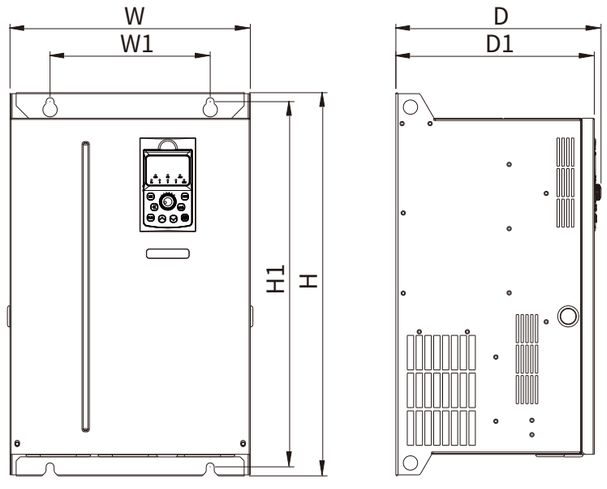
TECHNICAL PARAMETERS

Product Model	Power Capacity	Input Current	Output Current	Motor (kW)
Single-phase: 220V, 50/60Hz				
JT300-S2-0R7	2.0	8.2	5.0	0.75
JT300-S2-1R5	2.8	14	7.0	1.5
Three-phase: 380V, 50/60Hz				
JT300-T3-0R7B	2.2	3.4	2.7	0.75
JT300-T3-1R5B	3.2	5	4.0	1.5
JT300-T3-2R2B	4.0	5.8	5.0	2.2
JT300-T3-3R7B	6.8	10.5	8.5	3.7
JT300-T3-5R5B	10	14.6	12.5	5.5
JT300-T3-7R5B	14	20.5	17	7.5
JT300-T3-011B	17	26	25	11
JT300-T3-015B	21	35	32	15
JT300-T3-018B	24	38.5	37	18.5
JT300-T3-022B	30	46.5	45	22
JT300-T3-030	40	62	60	30
JT300-T3-037	57	76	75	37
JT300-T3-045	69	92	91	45
JT300-T3-055	85	113	112	55
JT300-T3-075	114	157	150	75
JT300-T3-090	134	180	176	90
JT300-T3-110	160	214	210	110
JT300-T3-132	192	256	253	132
JT300-T3-160	231	307	304	160
JT300-T3-200	250	385	377	200

APPEARANCE AND DIMENSIONS



Installation Dimensions of Plastic Case Inverter



Installation Dimensions of Metal Case Inverter

Product Model	Mounting Holes Position(mm)		Dimensions(mm)				Diameter of Mounting Holes
	W1	H1	H	W	D1	D	
JT300-S2-0R7	88.4	139	150	90	116	120	Φ4.5
JT300-S2-1R5							
JT300-T3-0R7B	45	173	182	70	148	152	Φ5
JT300-T3-1R5B							
JT300-T3-2R2B							
JT300-T3-3R7B	55	193	202	75	157	161	Φ5
JT300-T3-5R5B							
JT300-T3-7R5B	80	308	322	108	176	180	Φ5
JT300-T3-011B							
JT300-T3-015B	190	273.5	291.5	197	175	182	Φ6
JT300-T3-018B							
JT300-T3-022B							
JT300-T3-030	220	392	405	253	180	187	Φ7
JT300-T3-037							
JT300-T3-045	200	455	475	300	248	255	Φ10
JT300-T3-055	256	473	492	300	248	255	Φ10
JT300-T3-075	286	473	492	335	248	255	Φ10
JT300-T3-090	260	590	610	410	270	279	Φ10
JT300-T3-110	320	690	720	455	325	334	Φ12
JT300-T3-132							
JT300-T3-160	360	845	880	530	367	376	Φ14
JT300-T3-200							

JT580

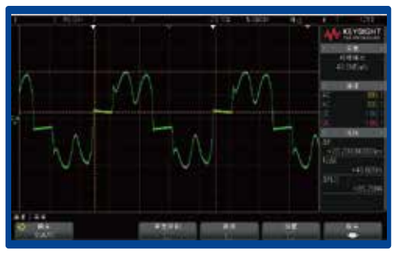
Series High Protection Inverter

JT580 series are AC motor drives specially designed for textile and lifting applications.It has many great features and built-in functions.Equipped with a built-in DC reactor, it replaces the need for a distribution cabinet and saves space for other equipment, while providing harmonic suppression and better power quality for the system.JT580 is also equipped with built-in PLC function and supports 16-speed and runtime settings for maximum system flexibility and fast data exchange in order to reduce setup steps and time adjustments in operation and provide higher efficiency.

FEATURES

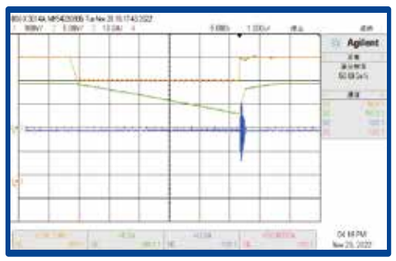
Standard H-level DC Reactor

Improve the input-side power factor.
Improve efficiency and thermal stability.
Effectively eliminate high-order harmonics & external conducted radiation interference.
Provide harmonic suppression and better power quality.



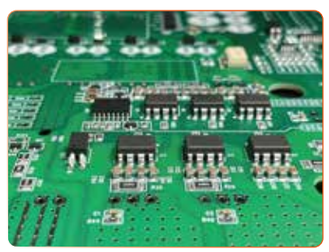
Under Voltage Protection

The inverter can continue operating when an instantaneous power fails. The load feedback energy compensates for voltage drops to keep the inverter running. It can be widely used in textile production lines, lifting industries, and other occasions that require high continuity.



Military Spec Chips

Stability and reliability are assured with military-grade components, and the product is more resistant to high temperatures and has a wider operating temperature range.



Enhanced PCB Coating

Our protective coating products are stable and reliable, the three-cycle operation process greatly increases the thickness and protection of the three-proof paint.

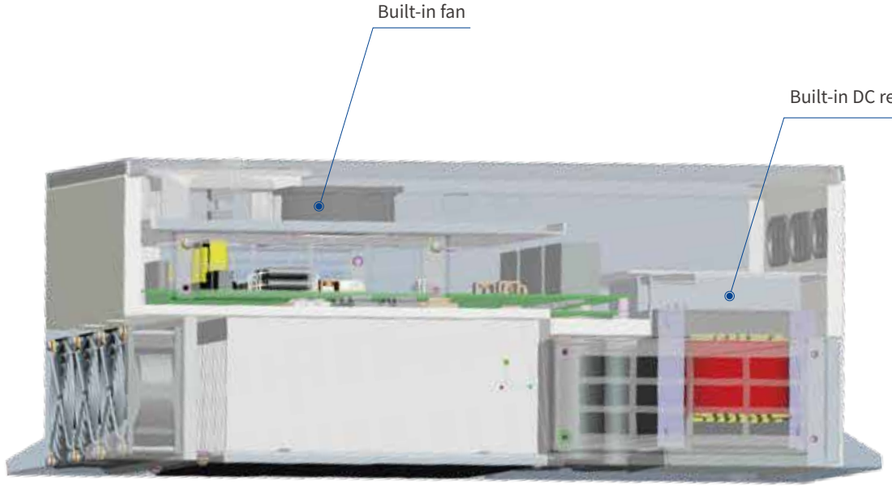
Strong Environmental Adaptability

Up to 50°C ambient temperature.

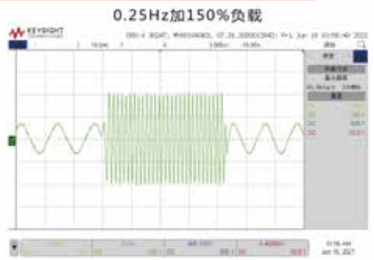
High-density dust-proof net can effectively prevent dust from entering the inverter and avoid short-circuit and other faults.

A dedicated air duct design and a built-in fan improve heat dissipation efficiency, improve stability and extend service life.

Equipped with military-grade chips, enhanced (three-proof paint) PCB coating, up to 105°C temperature-resistant capacitors.



Advanced Control Algorithm, High Torque at Low Speed, Small Torque Ripple



MODEL DESCRIPTION

JT580-T3-011G/15P B
01 02 03 04 05

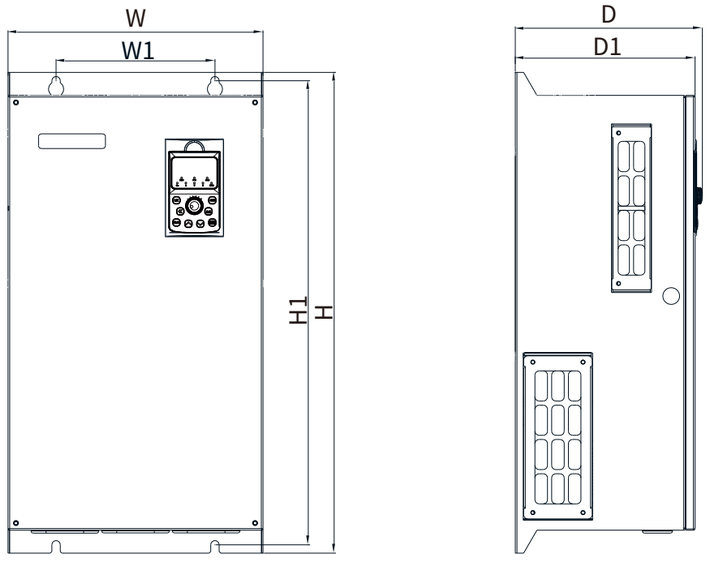
01 Inverter series		03 Heavy Load011: 11kW
02 Voltage Class	S2: AC Single-phase 220V	04 Light load015:15kW
	T3: AC Three-phase 380V	05 With Built-in Braking Unit: B: Yes Blank: No

TECHNICAL PARAMETERS

Product Model	Power Capacity	Input Current	Output Current	Motor (kW)	Motor (HP)
Three-phase: 380V, 50/60Hz					
JT580-T3-0R7G/1R5PB	1.5	3.4	2.1	0.75	1
JT580-T3-1R5G/2R2PB	3	5	3.8	1.5	2
JT580-T3-2R2G/4R0PB	4	5.8	5.1	2.2	3
JT580-T3-4R0G/5R5PB	5.9	10.5	9	3.7	5
JT580-T3-5R5G/7R5PB	8.9	14.6	13	5.5	7.5
JT580-T3-7R5G/011PB	11	20.5	17	7.5	10
JT580-T3-011G/015PB	17	26	25	11	15
JT580-T3-015G/018PB	21	35	32	15	20
JT580-T3-018G/022PB	24	38.5	37	18.5	25
JT580-T3-022G/030PB	30	46.5	45	22	30
JT580-T3-030G/037P	40	62	60	30	40
JT580-T3-037G/045P	57	76	75	37	50
JT580-T3-045G/055P	69	92	91	45	60
JT580-T3-055G/075P	85	113	112	55	75
JT580-T3-075G/090P	114	157	150	75	100
JT580-T3-090G/110P	134	180	176	90	125
JT580-T3-110G/132P	160	214	210	110	150
JT580-T3-132G/160P	192	256	253	132	180
JT580-T3-160G/200P	231	307	304	160	210
JT580-T3-200G/220P	250	385	377	200	270

15kW and above include built-in DC reactor

APPEARANCE AND DIMENSIONS



Product Model	Mounting Holes Position(mm)		Dimensions(mm)				Diameter of Mounting Holes
	W1	H1	H	W	D1	D	
JT580-T3-0R7G/1R5PB	88.4	168.4	180	100	152	159	ϕ5.5
JT580-T3-1R5G/2R2PB							
JT580-T3-2R2G/4R0PB							
JT580-T3-4R0G/5R5PB	118.4	224.5	236	130	163.5	170.5	ϕ5.5
JT580-T3-5R5G/7R5PB							
JT580-T3-7R5G/011PB	141	243	260	155	175	182	ϕ7
JT580-T3-011G/015PB							
JT580-T3-015G/018PB	160	440	460	230	212	220	ϕ10
JT580-T3-018G/022PB							
JT580-T3-022G/030PB							
JT580-T3-030G/037P	190	555	575	305	215	224	ϕ10
JT580-T3-037G/045P							
JT580-T3-045G/055P	230	643	670	390	290	298	ϕ12
JT580-T3-055G/075P							
JT580-T3-075G/090P	260	717	738	410	285	294	ϕ10
JT580-T3-090G/110P							
JT580-T3-110G/132P	320	780	810	455	316	325	ϕ12
JT580-T3-132G/160P							
JT580-T3-160G/200P	400	925	960	630	416	425	ϕ14
JT580-T3-200G/220P							

JT550-CQ

Series Through-the-wall Inverter

FEATURES

High Protection Level

The radiator and electronic components are completely isolated, and the electronic components will not be polluted. The high-density dust-proof net effectively prevents foreign objects from entering the inverter.

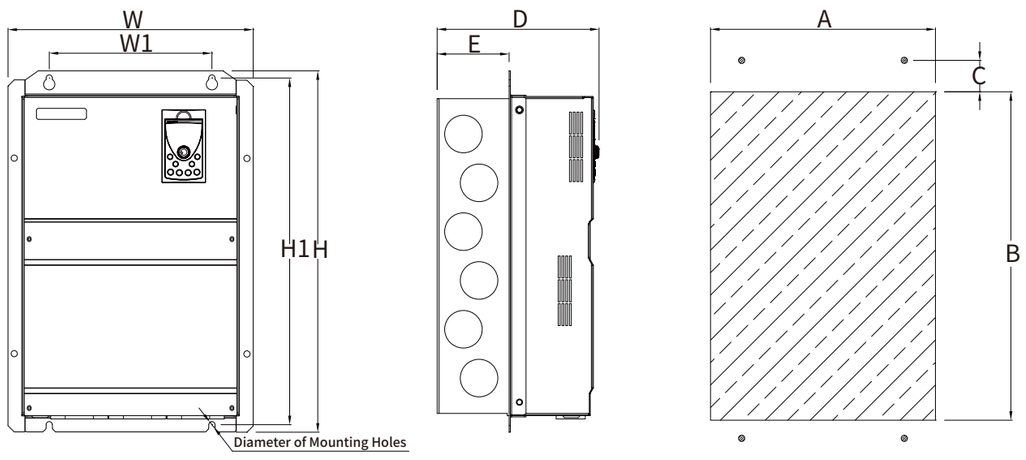
Through-wall Installation, Independent Air Duct

The heat of the main radiator is separated from the electric cabinet, which greatly reduces the temperature inside. Moreover, it prevents dust, moisture, oil gas, fibers, and other foreign objects from entering the electric cabinet, increasing heat dissipation efficiency and improving the product's adaptability and stability.

TECHNICAL PARAMETERS

Product Model	Power Capacity	Input Current	Output Current	Motor (kW	(HP)
Three-phase: 380V, 50/60Hz					
JT550-T3-7R5G/011PB-CQ	11	20.5	17	7.5	10
JT550-T3-011G/015PB-CQ	17	26	25	11	15
JT550-T3-015G/018PB-CQ	21	35	32	15	20
JT550-T3-018G/022PB-CQ	24	38.5	37	18.5	25
JT550-T3-022G/030PB-CQ	30	46.5	45	22	30
JT550-T3-030G/037P-CQ	40	62	60	30	40
JT550-T3-037G/045P-CQ	57	76	75	37	50
JT550-T3-045G/055P-CQ	69	92	91	45	60
JT550-T3-055G/075P-CQ	85	113	112	55	75

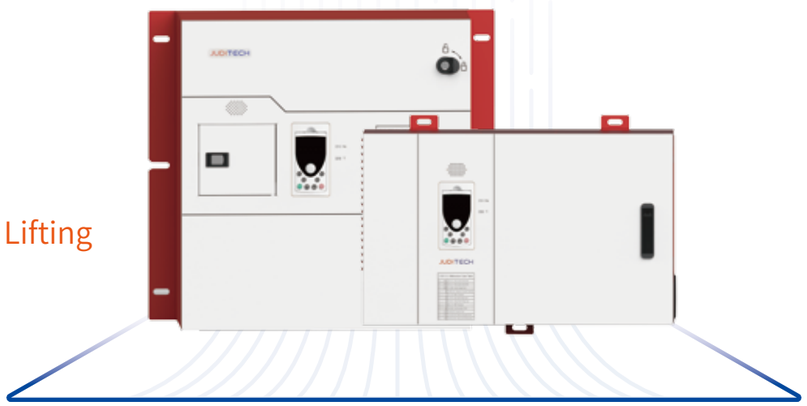
APPEARANCE AND DIMENSIONS



Product Model	Dimensions(mm)			Installation Dimensions(mm)		Diameter of Mounting Holes	Hole dimensions			Air duct thickness
	H	W	D	H1	W1		A	B	C	E
JT550-T3-7R5G/011PB-CQ	300	158	169	281	115	Φ8	150	265	8.5	75.5
JT550-T3-011G/015PB-CQ										
JT550-T3-015G/018PB-CQ	352	200	191	322	173	Φ9	195	295	16.8	90.5
JT550-T3-018G/022PB-CQ										
JT550-T3-022G/030PB-CQ										
JT550-T3-030G/037P-CQ	450	295	204	424	254	Φ7	261	400	14.1	103
JT550-T3-037G/045P-CQ										
JT550-T3-045G/055P-CQ	578	392	259	554	260	Φ10	347	515	25.8	115
JT550-T3-055G/075P-CQ										

JS500

Series Construction Lifting Integrated Machine

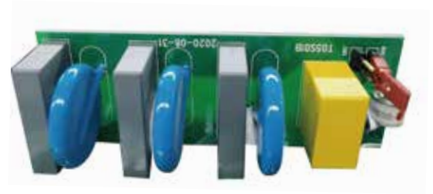


The **JS500** series construction lifting integrated machine is an intelligent control system developed for the construction principle of construction elevators. Electrical control, frequency converter, braking unit, logic control unit, braking control unit, weighing sensor, intelligent voice prompt, touch screen unit, automatic leveling device, and positioning are all integrated into this system. As well as being fully functional, it can be easily installed and maintained.

FEATURES

Lightning Protection Function

The system's built-in absorption module provides lightning protection.

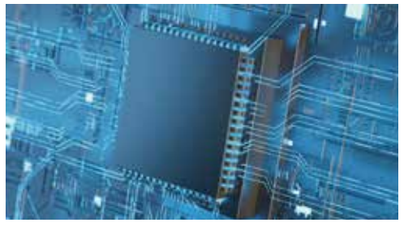


Human-machine Interface (HMI) Information Exchange System

User-friendly HMI displays information such as floor, height, load, running direction, running speed, etc. Automatic leveling operation interface, leveling accuracy ⩽1mm, convenient storage of floor positions

Pre-authorization Settings

It is convenient for customers to regulate the time of the device with the built-in perpetual calendar chip, which allows accurate pre-authorization time setting.

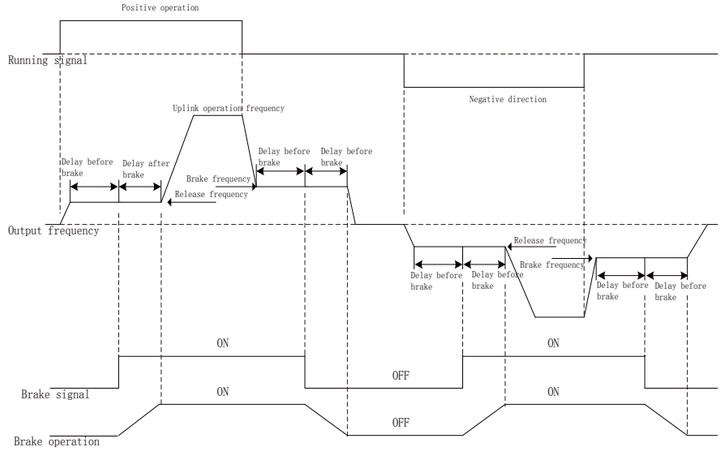


Remote Monitoring Module

Monitor the current position of the elevator, the current limit state, the current operating state, etc.Can be remotely locked, and supports one-key unlockingWhen the equipment fails, it can remotely alarm, so as to troubleshoot the fault in time and restore it to service quickly Equipped with remote module fault detection, upon detection of a module failure, the device will be locked automatically to protect customers' benefits.4G communication is adopted to achieve stable signal and fast transmission speed. It has a powerful management platform and a convenient and practical HMI.

High-safety, Redundant Braking Circuit Software and Hardware Design

Dual-signal, dual-brake, high-safety redundant control design.Before and during movement, the system monitors the motor torque in real-time, providing the greatest auxiliary protection to avoid slipping.Professional sequential logic brake function ensures high brake opening/closing reliability.



SYSTEM COMPOSITION

JS500 Integrated Lifting Drive

Operating Console

Braking Resistor Box

Encoder (optional)

Load pin sensor

Control Station Pushbutton Switch

Crane Pendant Control Pushbutton Switch

MODEL DESCRIPTION

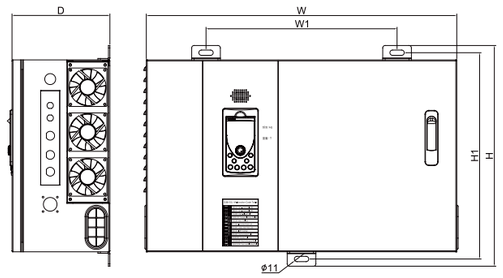
JS500-A1-037 B
01 02 03 04

01 Inverter series		03 Matching motor power037: 37kW
02 Inverter Model	A1：Model A(Wall-hanging), Version1	04 With Built-in braking unit
	B1：Model B(Wall-through), Version1	

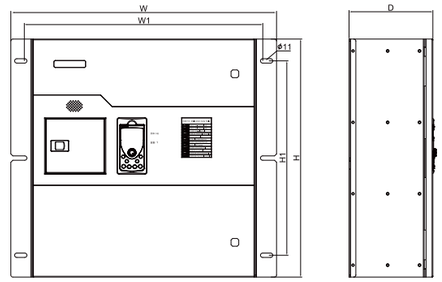
TECHNICAL PARAMETERS

Product Model	Power Capacity	Input Current	Output Current
JS500-A1-037B	57	76	75
JS500-B1-037B	57	76	75
JS500-B1-055B	85	113	112
JS500-B1-075B	114	157	150

APPEARANCE AND DIMENSIONS



TS500-A1



TS500-B1

Product Model	Mounting Holes Position(mm)		Dimensions(mm)			Diameter of Mounting Holes
	W1	H1	H	W	D	
JS500-A1-037B	400	430	460	655	205	Φ11
JS500-B1-037B	620	490	600	670	210	Φ11
JS500-B1-055B	630	690	800	670	285	Φ11
JS500-B1-075B						

JS500

Series Material Lifting Integrated Machine

JS500-*18.5kW* is a special model developed for the material hoist electrical control system. It is only necessary to install an integrated machine to complete the electrical part of the equipment. Integrated into this product are the frequency conversion, the braking, the short circuit protection of the braking resistor, the limit logic, and the weighing. A wireless control video system has also been added to our product, removing a large number of wires and improving safety and aesthetics. Additionally, it has been specially optimized for the location of the elevator, which makes the equipment smoother and more comfortable during acceleration and deceleration.

FEATURES

01 I The drive and controller of the material machine are controlled by a wireless remote control, and a dual-channel design controller allows it to control two drives at the same time.

02 I The material machine's operating status is intuitively understood based on the status display lights on the driver panel.

03 I Real-time video mode is adopted in the cage. The operator can clearly understand the situation in the cage with one camera per drive and avoid misoperation caused by unknown situations, safe and convenient.

04 I Software logic algorithms replace hardware logic circuits, and less hardware also reduces the failure rate of products.

05 I Special distribution box for the material machine is designed to improve the safety of electricity.

SYSTEM COMPOSITION


Material Machine Driver*2


Distribution Box*1


Material Machine Control Suitcase*1


Braking Resistor Box*2

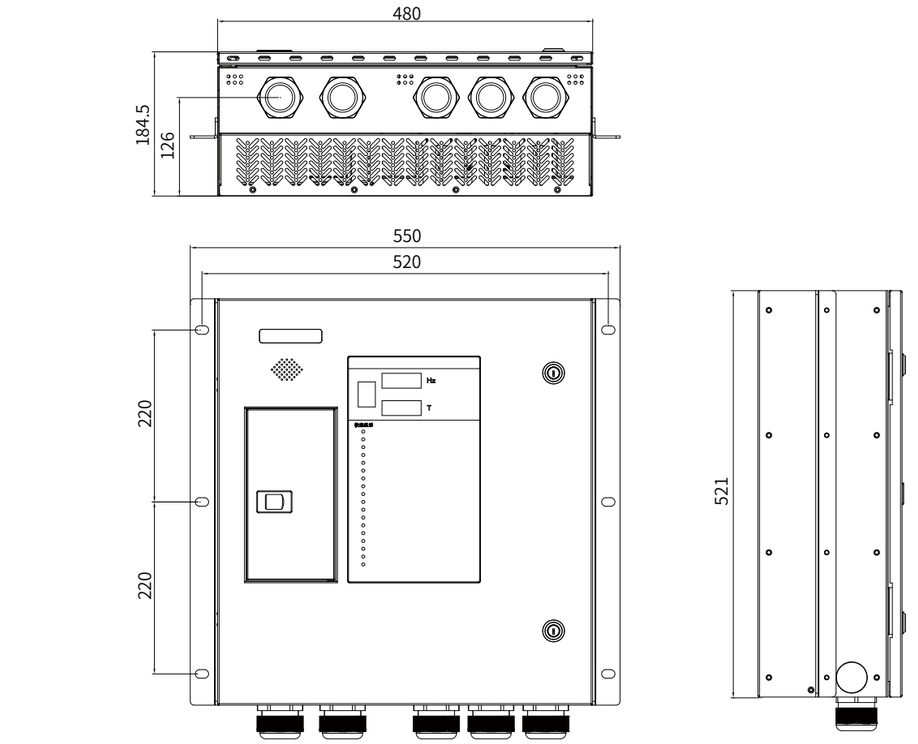

Load pin sensor*4


Encoder Kit*2

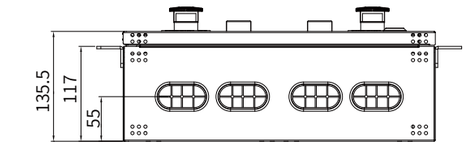

Control Station Pushbutton Switch*2

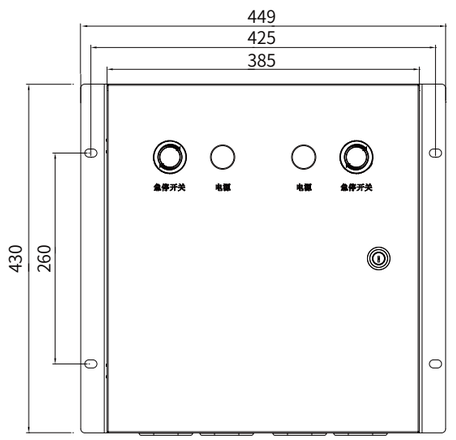

Crane Pendant Control Pushbutton Switch*2

APPEARANCE AND DIMENSIONS

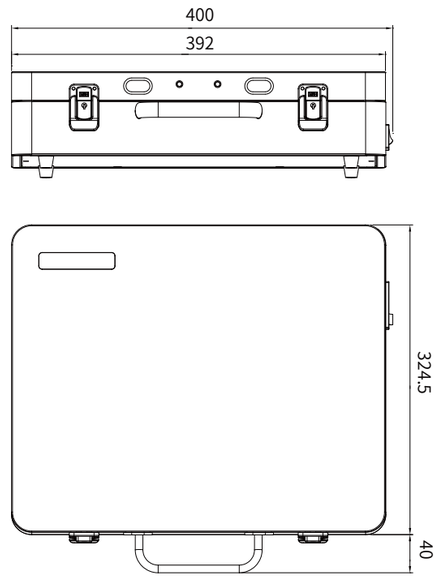


Material Machine Driver





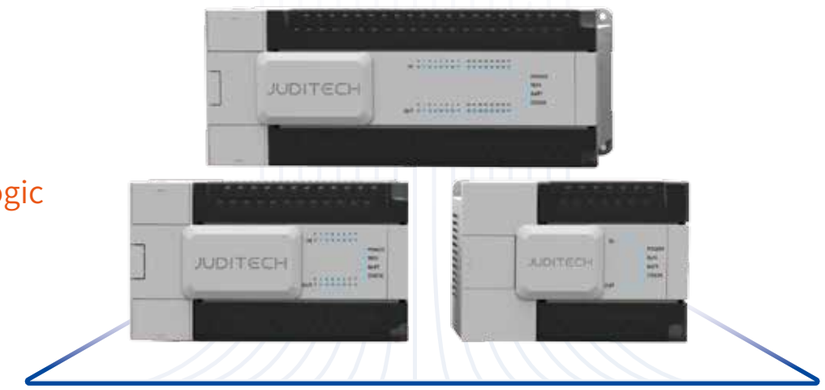
Distribution Box



Material Machine Control Suitcase

PLC

(Programmable Logic Controller)

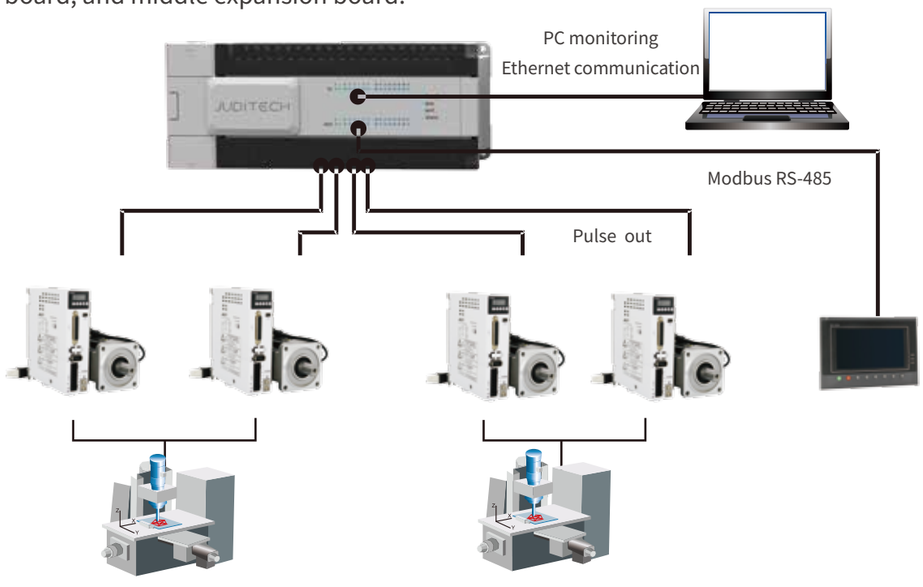


CT series PLC is novel in appearance, comprehensive in function, compact, light and reliable. It has obvious advantages such as fast speed, large capacity and greatly improved performance. This enables us to provide customers with more comprehensive solutions and create greater value for them.

FEATURES

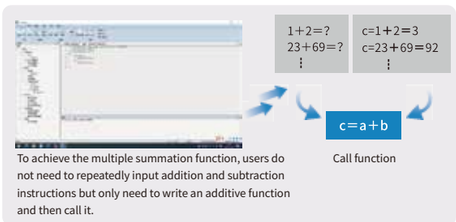
Motion Control

Furthermore, the CT series has more internal register resources and program capacity than a standard PLC and can realize three-axis linkage (space straight line, space spiral arc) and support cam algorithms. Its follow-up function supports connecting the right expansion module, left expansion board, and middle expansion board.



C Language Function

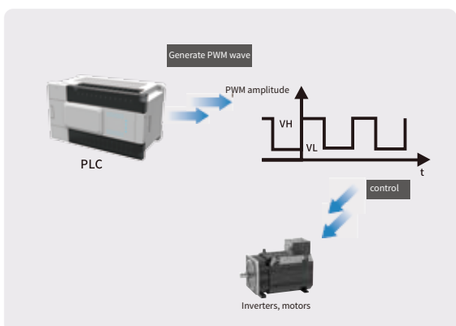
A better level of confidentiality is provided by the program. Once the function module has been compiled, users can call it directly, while the internal programs are encrypted and invisible, which saves internal space, reduces workload, improves programming efficiency, and supports both local variables and global variables.



To achieve the multiple summation function, users do not need to repeatedly input addition and subtraction instructions but only need to write an additive function and then call it.

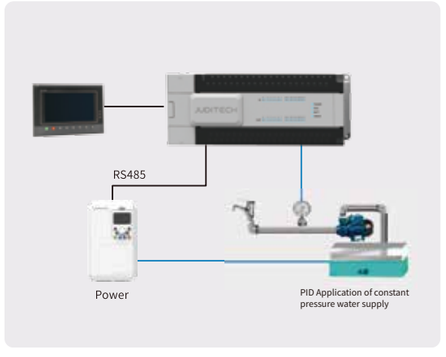
Pulse Width Modulation

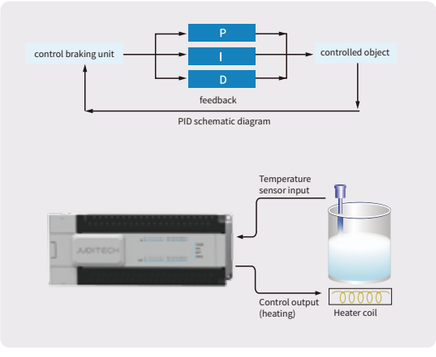
The pulse width modulation function can be implemented through the command PWM; the pulse width subdivision accuracy can reach 1/65535; this function can be used to control inverters and DC motors.



PID Control

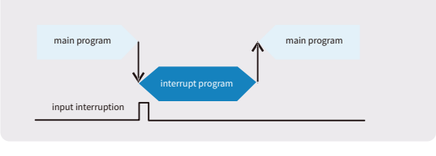
PLC supports PID control command and provides a self-tuning function, which is more flexible to use. Users can obtain the best sampling time and PID parameter value through self-tuning, so as to improve control accuracy and apply to more applications.





Interrupt Function

Interrupt functions are available on all CT series PLCs, and special operations can be accomplished by calling interrupt, which will not be affected by the PLC scan cycle. Interrupts include 100-segment high-speed counting interrupts, external interrupts, and timing interrupts.



PLC PRODUCT MODEL

Economic PLC - CT100

Product Model						
	AC power supply			DC power supply		
	Relay output	Transistor output	Relay&Transistor output	Relay output	Transistor output	Relay&Transistor output
NPN、PNP	CT100-10R-E	CT100-10T-E	CT100-10RT-E	CT100-10R-C	CT100-10T-C	CT100-10RT-C
	CT100-16R-E	CT100-16T-E	CT100-16RT-E	CT100-16R-C	CT100-16T-C	CT100-16RT-C
	CT100-24R-E	CT100-24T-E	CT100-24RT-E	CT100-24R-C	CT100-24T-C	CT100-24RT-C
	CT100-32R-E	CT100-32T-E	CT100-32RT-E	CT100-32R-C	CT100-32T-C	CT100-32RT-C

Standard PLC - CT300

Product Model						
	AC power supply			DC power supply		
	Relay output	Transistor output	Relay&Transistor output	Relay output	Transistor output	Relay&Transistor output
NPN、PNP	CT300-16R-E	CT300-16T-E	CT300-16RT-E	CT300-16R- C	CT300-16T-C	CT300-16RT-C
	CT300-24R-E	CT300-24T-E	CT300-24RT-E	CT300-24R-C	CT300-24T-C	CT300-24RT-C
	CT300-32R-E	CT300-32T-E	CT300-32RT-E	CT300-32R-C	CT300-32T-C	CT300-32RT-C
	CT300-48R-E	CT300-48T-E	CT300-48RT-E	CT300-48R-C	CT300-48T-C	CT300-48RT-C
	CT300-64R-E	CT300-64T-E	CT300-64RT-E	CT300-64R-C	CT300-64T-C	CT300-64RT-C

High Performance PLC - CT500

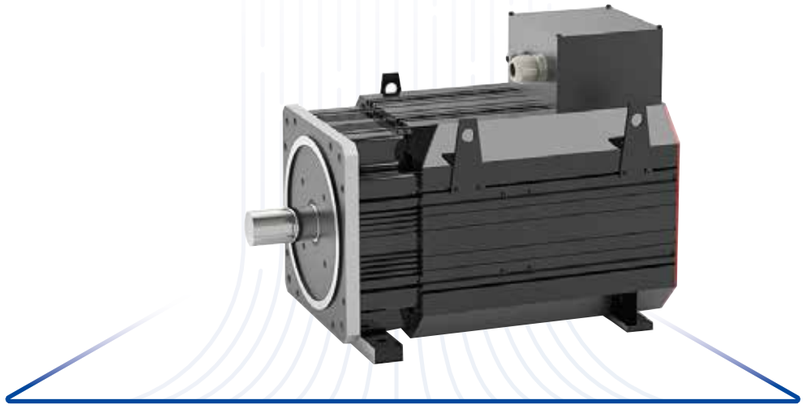
Product Model						
	AC power supply			DC power supply		
	Relay output	Transistor output	Relay&Transistor output	Relay output	Transistor output	Relay&Transistor output
NPN、PNP	CT500-16R-E	CT500-16T-E	CT500-16RT-E	CT500-16R- C	CT500-16T-C	CT500-16RT-C
	CT500-24R-E	CT500-24T-E	CT500-24RT-E	CT500-24R-C	CT500-24T-C	CT500-24RT-C
	CT500-32R-E	CT500-32T-E	CT500-32RT-E	CT500-32R-C	CT500-32T-C	CT500-32RT-C
	CT500-48R-E	CT500-48T-E	CT500-48RT-E	CT500-48R-C	CT500-48T-C	CT500-48RT-C
	CT500-64R-E	CT500-64T-E	CT500-64RT-E	CT500-64R-C	CT500-64T-C	CT500-64RT-C

Motion Control PLC - CT700

Product Model						
	AC power supply			DC power supply		
	Relay output	Transistor output	Relay&Transistor output	Relay output	Transistor output	Relay&Transistor output
NPN、PNP	CT700-32R-E	CT700-32T-E	CT700-32RT-E	CT700-32R-C	CT700-32T-C	CT700-32RT-C
	CT700-64R-E	CT700-64T-E	CT700-64RT-E	CT700-64R-C	CT700-64T-C	CT700-64RT-C

PMSM

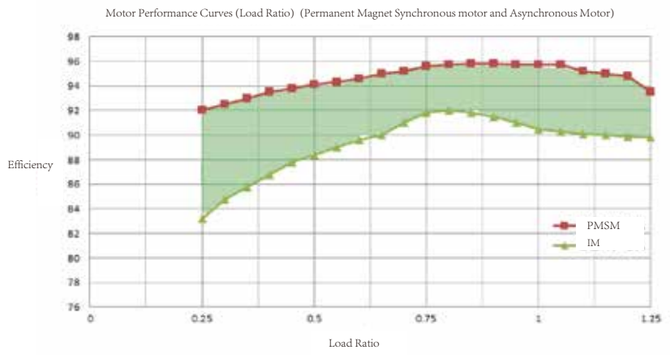
(Permanent Magnet Synchronous Motor)



PMSM has high power efficiency and power factor. It is small in size, low in noise, and adopts a fully enclosed structure design. There is no transmission gear wear, noise, or lubricating oil and maintenance. PMSM allows a large overload current, so its reliability can be significantly improved.

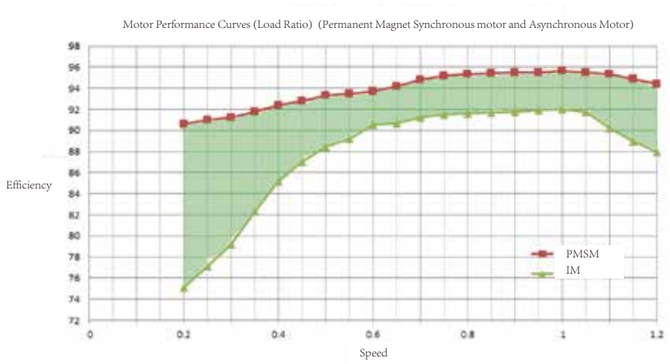
High-efficiency

Higher Efficiency
Wider Efficient Area



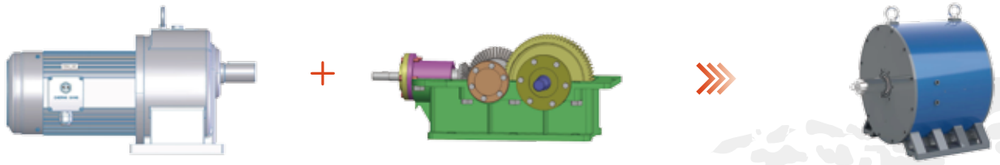
Efficient Speed Regulation Space

Better performance under motor speed regulation



Transmission Upgrade

Replace traditional asynchronous motor + large transmission ratio reducer transmission, direct drive, improve system transmission efficiency, save energy and reduce emissions.

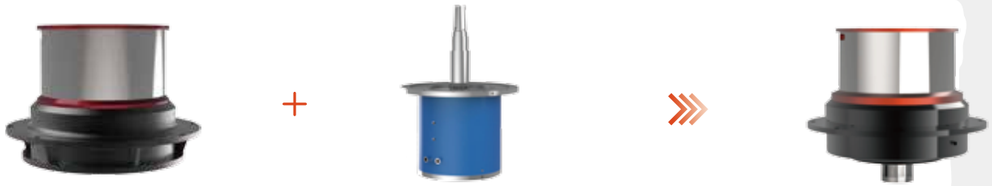


Energy Saving

Stronger torque output capability, wider high-efficiency area, more convenient installation and maintenance, and more obvious energy saving.

Customization

According to the structural characteristics of the equipment, optimize the mechanical structure of the equipment, realize transmission innovation, and maximize the transmission efficiency of the system.



Certification

All series passed CE Certification All series have GB30253 Energy Efficiency Certification(Level 1) approvals