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PRODUCT CATALOGUE



COMPANY PROFILE



Shenzhen KEVAN Electric is a scientific and technological innovation enterprise integrating inverter, industry specific drive, control system R & D, production, sales and service. We have long been committed to providing users with reliable quality standardized products and personalized solutions.

KEVAN electric pursues the business philosophy of "cooperation, win-win, honest and integrity",adhere to the quality policy of "leading technology, excellent quality, quality control of all members, continuous improvement", and constantly expand the new direction of enterprise development. At present, KEVAN Electric has launched a full range of high-performance vector inverter products for the market, which are widely used in machine tools, textile, printing, plastics, paper making, lifting, cable, ceramics, building automation, fans, pumps and other industries.

Facing the future, KEVAN Electric will adhere to the concept of enterprise development, adhere to be a leading brand in China's industrial automation industry, adhere to be a national enterprise respected by the industry and society, and strive for the upgrading of China's automation industry.

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KV600 SERIES HIGH PERFORMANCE VECTOR CONVERTER



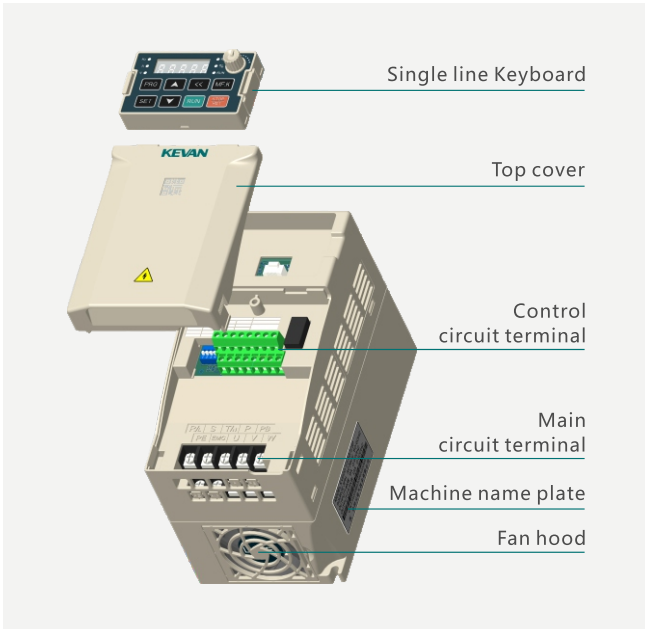
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KV10 SERIES MINI INVERTER

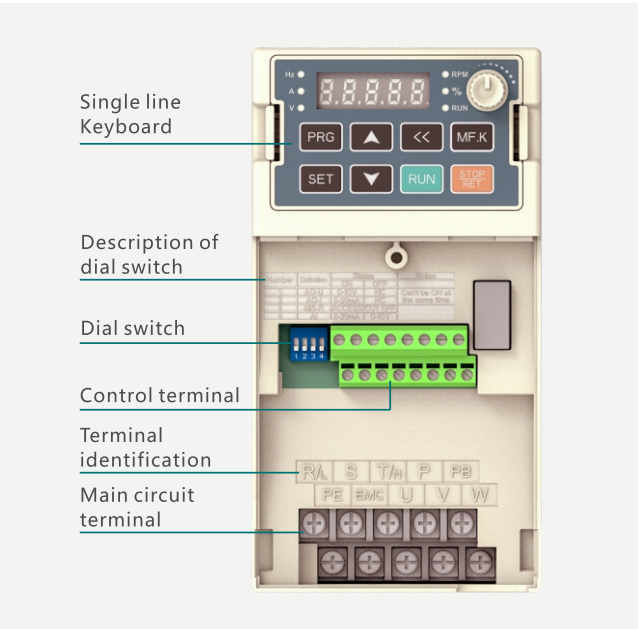


KV10 series inverter is a new product developed by Shenzhen KEVAN Electric Technology Co., Ltd. KV10 products are based on the market demand of users for miniaturization, high reliability and high cost performance. They have many advantages, such as convenient installation, small size, low temperature rise, high protection and powerful software performance. As a book type narrow body inverter, kv10 pays attention to hardware, software, structure and test in every detail in the whole process of development, so as to ensure the Scientificity, preciseness and practicability of the product.

- KV10 Mini inverter, exquisite and simple to achieve a perfect combination, beautiful and generous, easy to use and reliable
- With super temperature resistance, even without fan, it can still operate normally without overheating
- New structure and appearance design, compact and space saving
- IGBT selection margin is sufficient, and the transient impact resistance is superior
- KV10 scientific layout, with strong EMC anti-interference performance



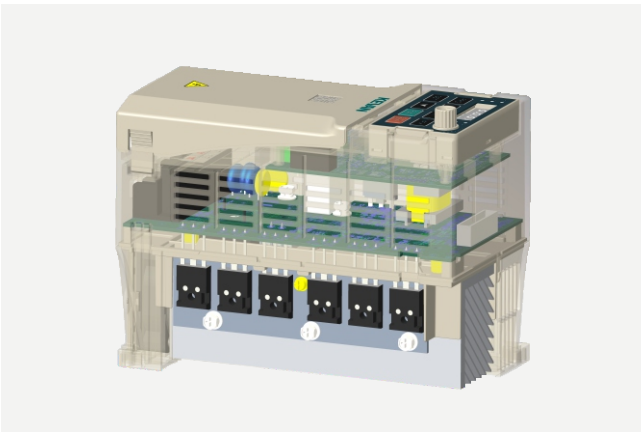
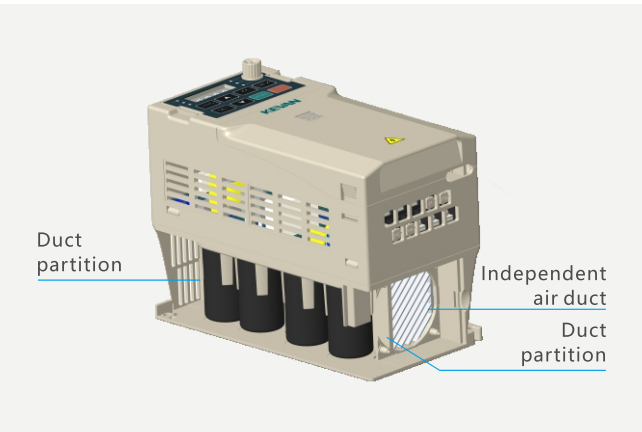
Reasonable parameters	Strip length (mm)	Wire gauge (AWG)	Screw
Specifications	4-5	16-26	M2



	KV10 power (KW)	Wire diameter (mm)	Wire cross section s (mm)	Stripping length L (mm)
Main circuit terminal	0.4-4	0.5-2.5	0.05-5.3	7-10
Stripping diagram				

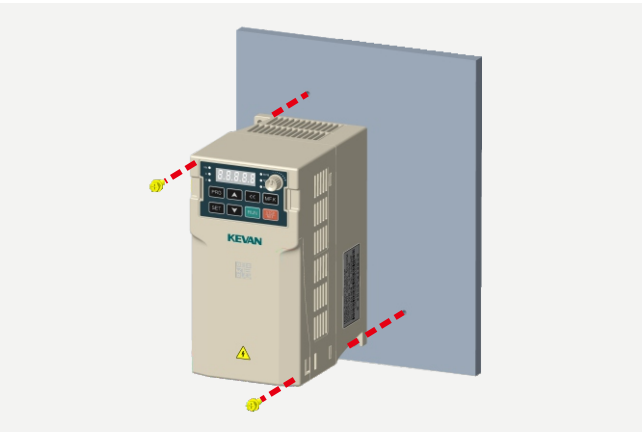
UNIQUE STRUCTURE

Solve the pain point, the source of power



Independent air duct design

- High protection: completely independent air duct, scientific layout inside the machine, taking into account the heat dissipation of high-power devices.
- The machine has the characteristics of high temperature resistance: scientific air duct design, rapid heat dissipation, low temperature rise of the machine, and no need to reduce the capacity under the ambient temperature of 50 °C.

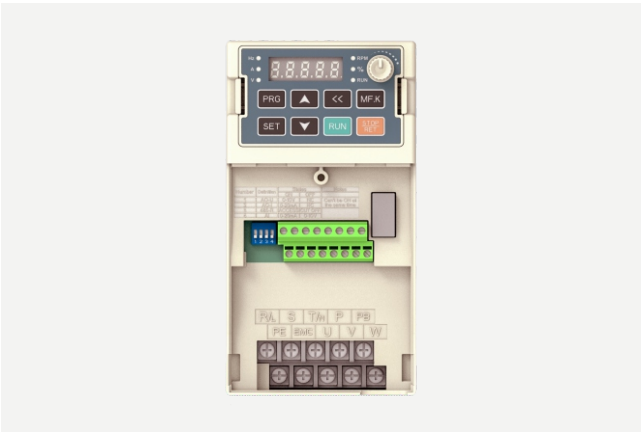


Installation method

- For wall mounted installation, please install it in a vertical way. Do not install it in other directions such as lying down, side lying, upside down, etc

Layered structure design

- The electrical part is separated from the cooling air duct layer by layer, and each part is independent, which can effectively deal with the dust problem of circuit boards and sensitive devices.



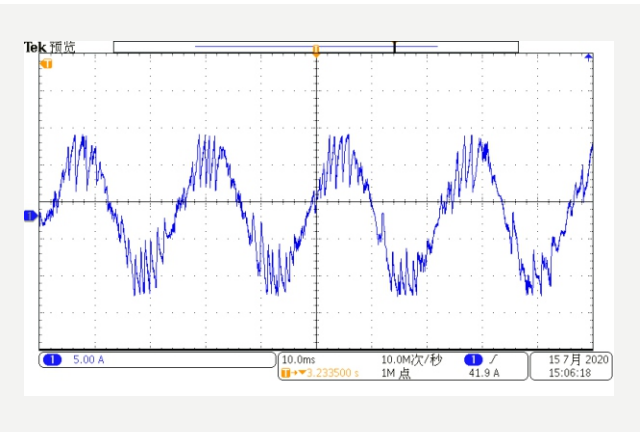
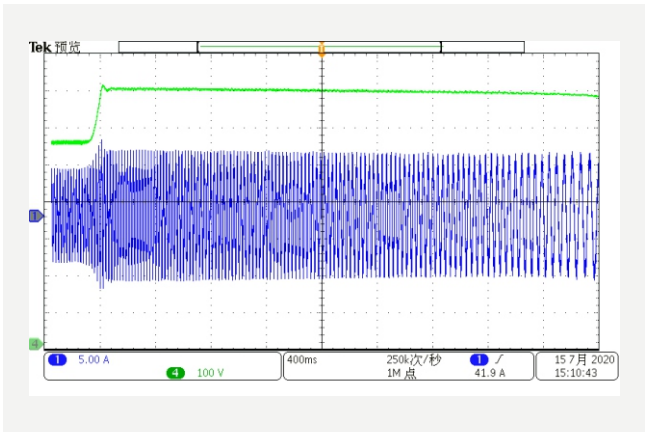
Terminal block

- KV10 machine terminal layout is simple and beautiful , the overall style has the characteristics of calm atmosphere.

KV10 SERIES MINI INVERTER

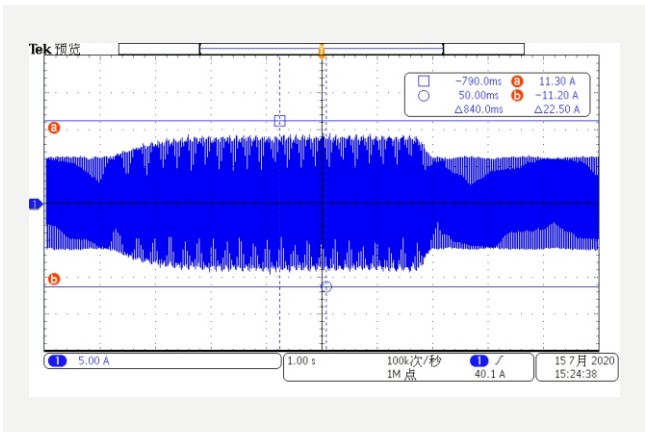
PERFORMANCE CHARACTERISTICS

Deep cultivation of the industry, not afraid to move forward



Overvoltage suppression

■ When the PN bus voltage reaches or exceeds the bus overvoltage suppression point during the operation of the inverter, the inverter will automatically adjust the operation frequency to suppress the rise of bus voltage, so as to avoid the overvoltage fault caused by too high bus voltage.

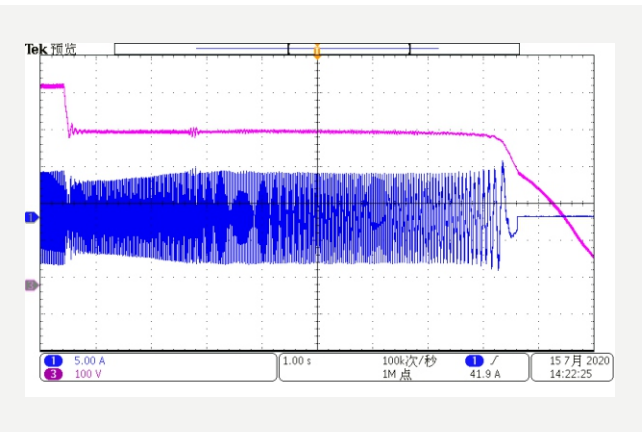


Over current suppression

■ The over-current suppression function is to automatically limit the load current according to the real-time monitoring of the load current when the machine is running. Make it not exceed the set over-current inhibition point to prevent the fault alarm caused by excessive current. This function can be used to suppress the over-current, especially in the VF mode.

Wave by wave current limiting

■ Through hardware protection, wave by wave current limiting can limit the amplitude of current when the current rises to a certain extent, so that the output current does not exceed the over-current protection value of frequency converter, so as to avoid the phenomenon of shutdown due to over-current fault caused by excessive transient current.



Under voltage suppression

■ When the inverter is in operation, in case of sudden power failure, after the bus voltage drops to the under voltage suppression point, the inverter will automatically adjust the operation frequency to ensure that the inverter will not trip due to the low bus voltage in a short time. If the power supply is restored within the validity period of under voltage suppression, the inverter can continue to operate normally. This function is particularly applicable in the condition of power grid fluctuation.

Fault Protection Comprehensive	Internal fault	Over current	Over voltage	Under voltage
		Rectifier overheating	Inverter overheating	Input phase loss
		Current detection fault	CBC continuous overload	CPU timeout failure
		Parameter storage	
	External fault	Motor overload	External fault	Rapid failure
		The fault deviation is too large	Output phase loss	Self learning failure
		Load protection	Short circuit to ground	Motor overheating
		Communication failure	Parameter setting error

Comprehensive fault protection

■ KV10 series inverter has comprehensive, detailed and accurate fault protection, which can quickly locate the problem point in case of fault.

Main control performance	Motor control mode	No PG V / F control, no PG vector control (only supported by T3)
	Speed control range	No PG vector control, rated load 1:100
	Steady state speed accuracy	PG free vector control: $\leq 2\%$ of rated synchronous speed;
	Starting torque	No PG vector control: 150% rated torque at 0.5Hz;
	Torque response	No PG vector control: $< 20\text{ms}$; with PG vector control: $< 10\text{ms}$
	Frequency accuracy	Digital setting: maximum frequency $\times \pm 0.01\%$; analog setting: maximum frequency $\times \pm 0.2\%$
	Frequency resolution	Digital setting: 0.01Hz; analog setting: maximum frequency $\times 0.05\%$;

Superior control performance

■ KV10 is a high-performance inverter, in addition to the general V / F control mode, it also supports PG free vector control. Excellent control performance makes it adapt to more complex operating conditions.

NAME PLATE MODEL DESCRIPTION

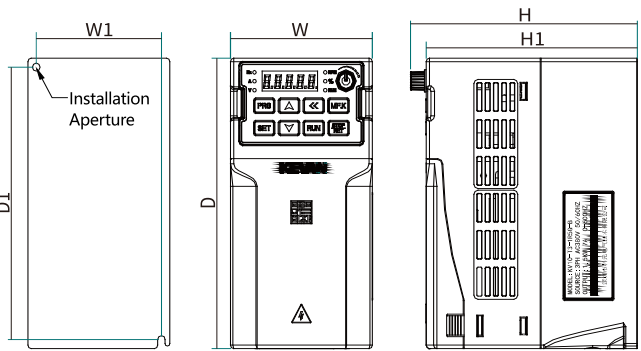
KV10 - T3 - 1R5G - B

① Machine series	④ Adaptive motor power
KV10 series	R75:0.75KW 1R5:1.5KW 2R2:2.2KW
② Voltage classification	⑤ Type
S:single-phase T:Three phase	Heavy-duty
③ Voltage level	⑥ Accessory type
2: 220V 3: 380V	B:Brake unit

SPECIFICATION

Voltage	220V	380V
Power (KW)	Rated output current (A)	
0.75	4	3
1.5	7	4
2.2	10	5
4		9.5

INSTALLATION DIMENSION



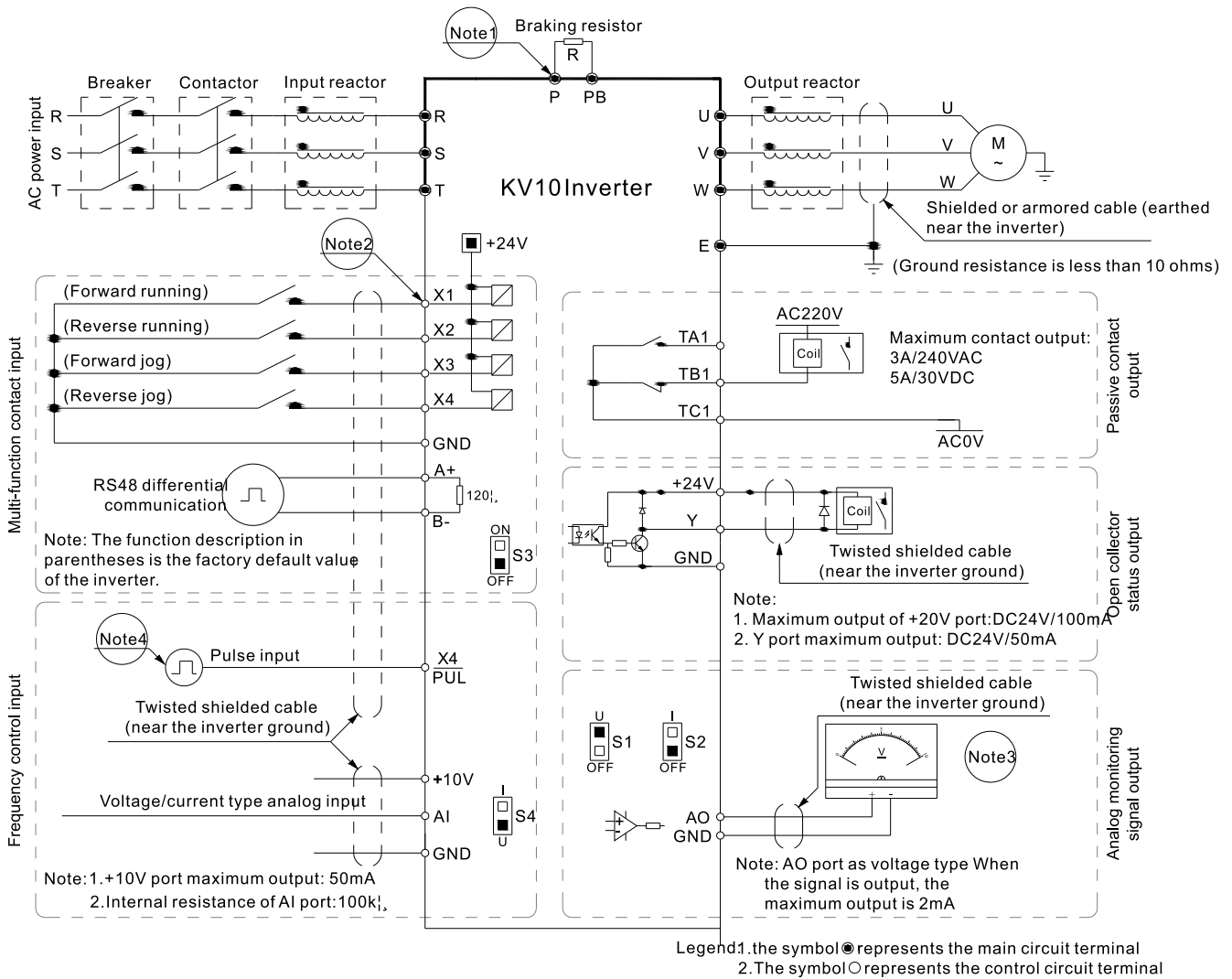
Inverter model	Dimensions (mm)				Installation size (mm)		Installation Aperture
	W	D	H1	H	W1	D1	
KV10-S2-R75G-B	86	162	128	137	76	152	Φ4.5
KV10-S2-1R5G-B	91	175	128	137	81	164	Φ4.5
KV10-S2-2R2G-B							
KV10-T3-R75G-B							
KV10-T3-1R5G-B	86	162	128	137	76	152	Φ4.5
KV10-T3-2R2G-B							
KV10-T3-004G-B	91	175	128	137	81	164	Φ4.5

KV10 SERIES MINI INVERTER

TECHNICAL SPECIFICATIONS

Item		Specification
Power input	Voltage, Frequency	Single-phase 220V 50/60Hz ; Three-phase 380V 50/60Hz ;
	Allow fluctuations	Voltage imbalance rate: <3%; Frequency: ±5%; Distortion rate meets IEC61800-2 requirements
	closing striking current	Less than rated current
	Power factor	≥0.94(with DC reactor)
	Inverter efficiency	≥96%
Output	Output voltage	Output under rated conditions: 3 phases, 0 ~ input voltage, error less than 5%
	Output frequency	0 ~ 600Hz
	Output frequency accuracy	± 0.5% of the maximum frequency value
	Overload capacity	T3 model: 150% rated current 1 minute, 180% rated current 5 seconds, 200% rated current 0.5 seconds S2 model: 150% rated current 20 seconds, 180% rated current 0.5 seconds
Main control performance	Motor control mode	PG-free V / F control, PG-free vector control (T3 series)
	Modulation	Optimized space vector PWM modulation
	Carrier frequency	1.0 ~ 16.0kHz
	Speed control range	Vector control without PG, rated load 1;100;
	Steady speed accuracy	Vector control without PG: ≤2% rated synchronous speed;
	Starting torque	Vector control without PG: 150% of rated torque at 0.5Hz;
	Torque response	Vector control without PG: <20ms;
	Frequency accuracy	Digital setting: maximum frequency × ± 0.01%; Analog setting: maximum frequency × ± 0.2%
	Frequency resolution	Digital setting: 0.01Hz; Analog setting: maximum frequency × 0.05%
	Torque control	Torque setting calculation, torque mode speed limitation
Product basic functions	DC braking capacity	Starting frequency: 0.00 ~ 50.00Hz; Braking time: 0.0 ~ 60.0s; Braking current: 0.0 ~ 150.0% of rated current
	Torque boost	Automatic torque boost 0.0% ~ 100.0%; manual torque boost 0.0% ~ 30.0%
	V / F curve	Four modes: linear torque characteristic curve, self-set V / F curve, reduced torque characteristic curve (1.1 ~ 2.0 power), square V / F curve
	Acceleration / deceleration curve	Two ways: linear acceleration and deceleration, S curve acceleration and deceleration Four sets of acceleration and deceleration time, time unit 0.01s, maximum 650.00s
	Rated output voltage	Using the power supply voltage compensation function, the rated voltage of the motor is 100%, which can be set within the range of 50 to 100% (the output cannot exceed the input voltage)
	Automatic voltage adjustment	When the grid voltage fluctuates, it can automatically keep the output voltage constant
	Automatic energy-saving operation	Under V / F control mode, the output voltage is automatically optimized according to the load to achieve energy-saving operation
	Automatic current limit	Automatic current limit during operation to prevent frequent overcurrent fault trips
	Instant power off processing	Uninterrupted operation through bus voltage control during momentary power failure
	Standard function	PID control, speed tracking and restart after power failure, skip frequency, frequency upper and lower limit control, program operation, multi-stage speed, RS485, analog output, frequency pulse output, parameter access level setting, common parameter setting, monitoring parameter comparator output , Counting and timing function, wobble frequency function
	Frequency setting channel	Keyboard digital setting, keyboard potentiometer, analog voltage / current terminal AI, communication reference and multi-channel terminal selection, combination of main and auxiliary channels, can be switched in various ways
	Feedback input channel	Keyboard potentiometer, voltage / current terminal AI, communication reference, pulse input PUL, PUL pulse input multiplex X4 terminal
	Command running channel	Operation panel setting, external terminal setting, communication setting
	Command input signal	Start, stop, forward and reverse, jog, multi-speed, free stop, reset, acceleration / deceleration time selection, frequency setting channel selection, external fault alarm
	External output signal	1 relay output, 1 collector Y terminal output, 1 AO output, selectable as 0 ~ 10V or 0 ~ 20mA or 4 ~ 20mA output
	Protective function	
	Over-voltage, under-voltage, current limit, over-current, overload, electronic thermal relay, over-temperature, over-voltage stall, data protection, rapid protection, input and output phase loss protection	
Keyboard display	LED display	Pluggable keyboard: single-line 5-digit digital tube display Can monitor 1 inverter status
	Condition monitoring	All parameters of the monitoring parameter group such as output frequency, given frequency, output current, input voltage, output voltage, motor speed, PID feedback, PID given value, module temperature, given torque, output torque, etc.
	Error alarm	Overvoltage, undervoltage, overcurrent, short circuit, phase loss, overload, overheating, overvoltage stall, current limit, data protection is damaged, current fault operating conditions, historical fault
Environment	Installation site	Altitude is less than 1000 meters, derating for use above 1000 meters, derating 1% for every 100 meters; no condensation, icing, rain, snow, hail, etc., solar radiation is less than 700W / m2, air pressure is 70 ~ 106kPa
	Temperature, humidity	-10 ~ + 50 °C, derating above 40 °C, maximum temperature 60 °C (no-load operation) 5% to 95% RH (non-condensing)
	Vibration	When 9 ~ 200Hz, 5.9m/s2(0.6g)
	Storage temperature	-30 ~ +60°C
	Installation method	Wall-mounted
	Protection grade	IP20
	Cooling method	Forced air cooling

STANDARD CONNECTION DIAGRAM

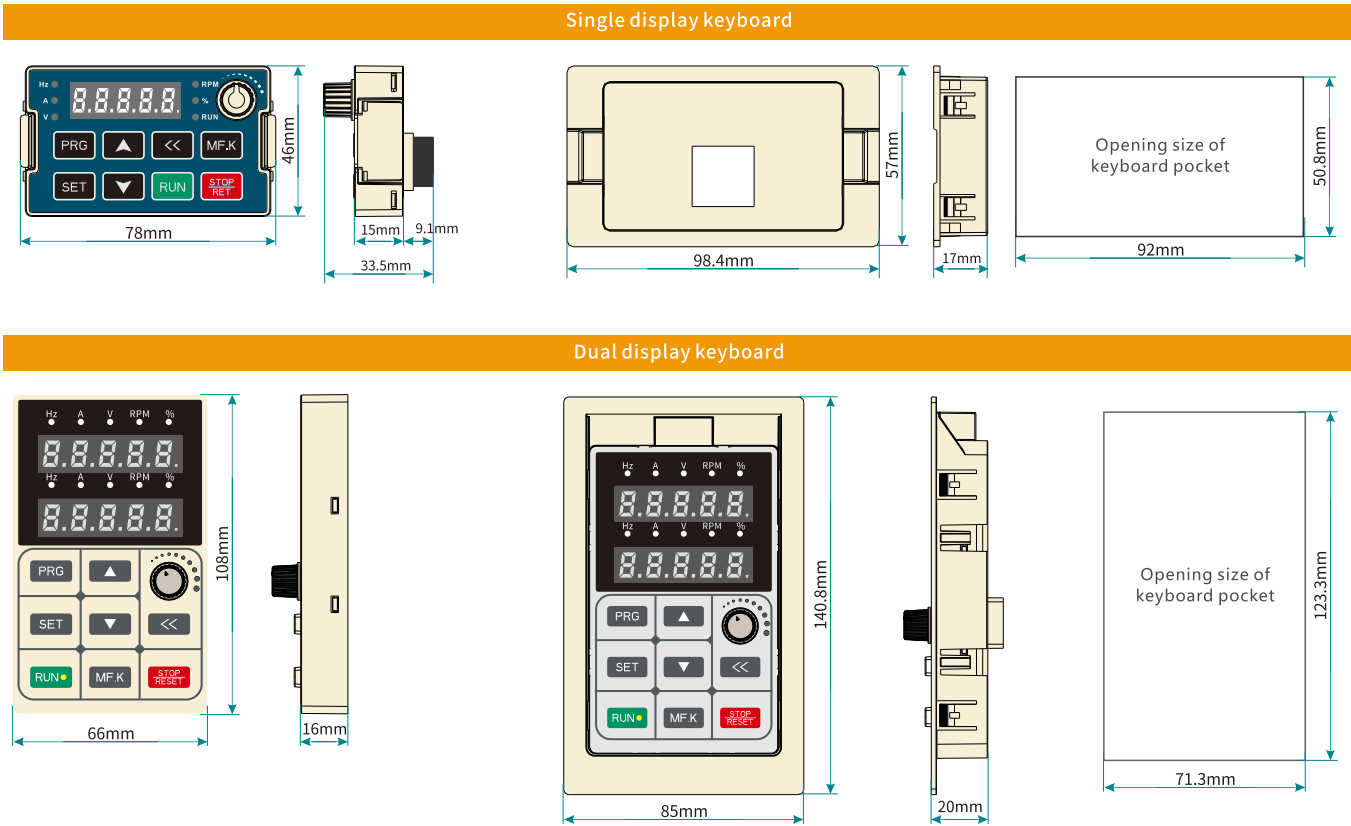


KV10 SERIES MINI INVERTER

CONTROL TERMINAL PARAMETERS

Category	Terminal name	Maximum I / O specifications
Digital input	X1,X2,X3,X4-GND	1. High level: 10~30V DC 2. Low level: 0~5V DC 3. X4(PUL):100KHz
Digital output	Y-GND	Open collector output 1. 0V~30V DC 2. 0mA~50 mA DC
Analog input	AI-GND	1. 0 ~ 10V voltage input 2. 0 ~ 20 mA current input
Analog output	AO-GND	1. 0 ~ 10V voltage input 2. 0 ~ 20 mA current input
Normally open terminal of relay	TC-TA	Contact drive capability: 1. 240VAC, 3A 2. 30VDC,5A
Relay normally closed terminal	TC-TB	
Power terminal	+24V~GND	24V DC,100mA
	+10V~GND	10V DC,50mA

KEYBOARD DIMENSIONS

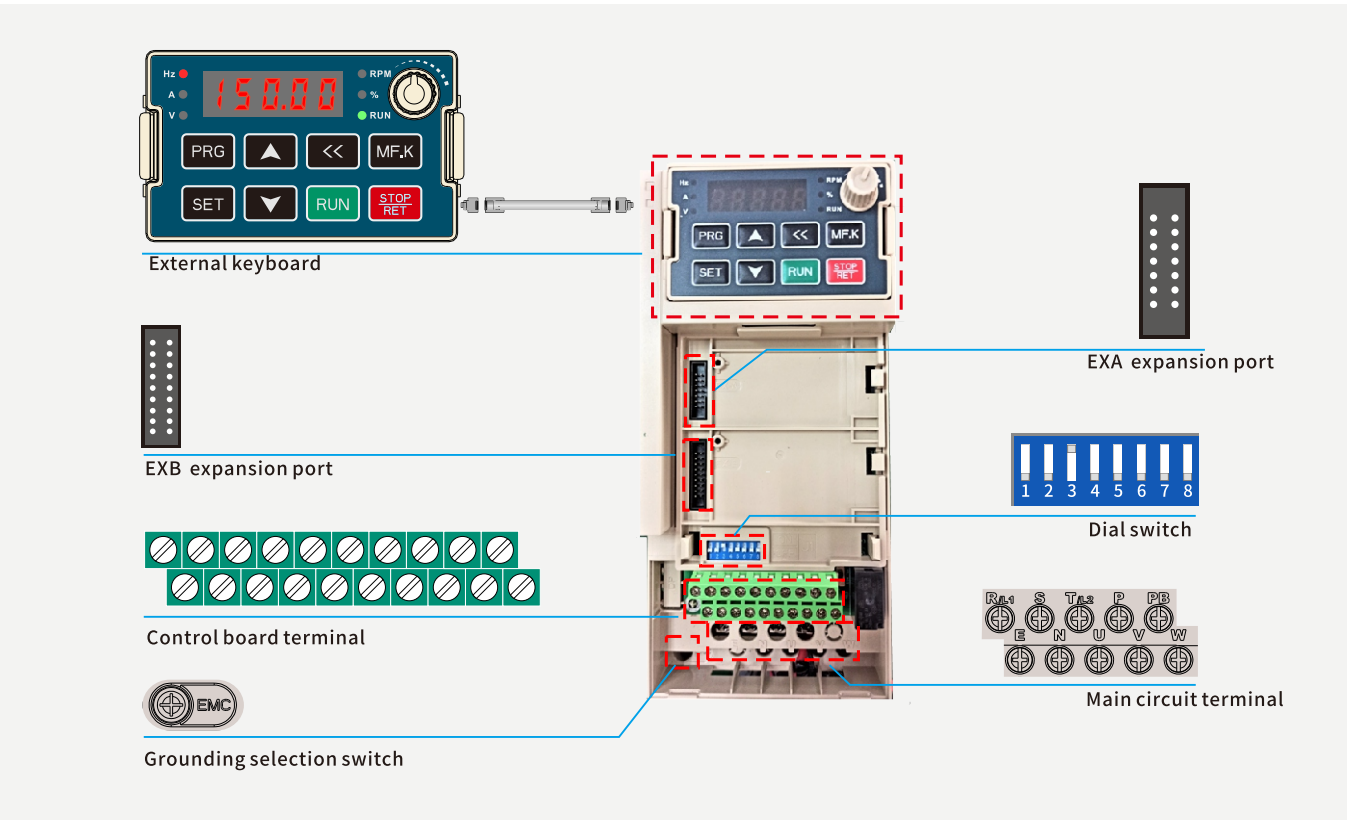


KV600 SERIES HIGH PERFORMANCE VECTOR CONVERTER



KV 600 series inverter is a new generation of high-performance general vector inverter designed by Kevan electric with years of in-depth exploration of inverter industry, continuous technological innovation and accumulation Technical and performance problems encountered in cable, machine tool, metal products, petrochemical, natural gas, lifting equipment, pulping and papermaking, textile, printing and dyeing, ceramics and other industries can be easily solved.

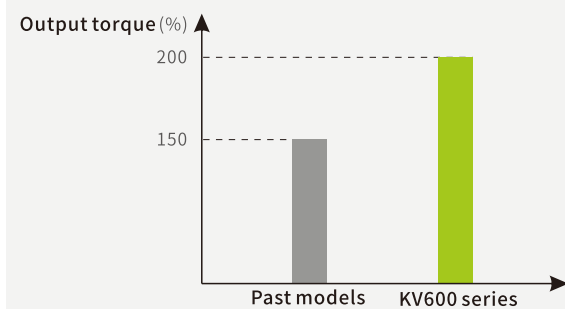
- KV600 series inverter has excellent low-frequency torque output performance, and can achieve 200% peak torque output under closed-loop control;
- Configure a variety of expansion cards to ensure a variety of high-performance closed-loop control applications.
- When the grid voltage is low, it can still be used with derating (refer to the corresponding parameter settings in the manual)
- The volume of KV600 is about 30% smaller than that of the previous generation, saving installation space.



KV600 SERIES HIGH PERFORMANCE VECTOR CONVERTER

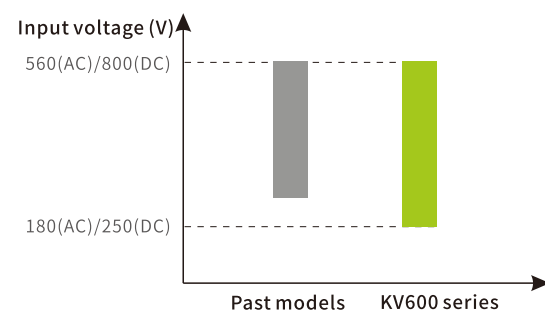
EXCELLENT PERFORMANCE

Achieve performance breakthrough under the premise of stability and safety



More torque

- Previous models: under vector control, the maximum output torque reaches 150%;
- KV600 series: under vector control, the maximum output torque reaches 200%.



Adapt to harsh grid conditions

- Previous models: the input voltage range can meet the requirements of general power grid;
- KV600 series: it can continue to output when the grid voltage is low;

KV600PG01	5V differential photoelectric encoder interface card
KV600PG02	12V collector open circuit photoelectric encoder interface card
KV600RT	Rotary encoder interface card
KV600CAN	Can communication expansion card
KV600DP	DP communication expansion card
KV600IO	IO expansion card

Rich extended functions

- Encoder expansion card for closed loop vector control;
- Communication expansion card, terminal expansion card.

Volume ratio

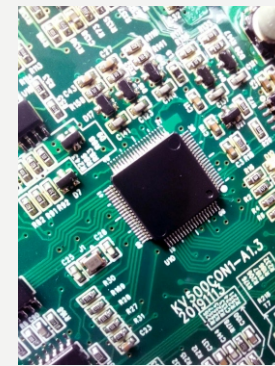


Smaller volume, more space saving

- The installation volume saves about 30% of the space compared with the previous generation, and the space for the previous generation to install two sets can install three KV600 series machines with the same power.

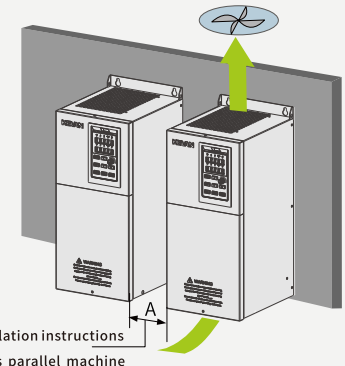
STABLE AND RELIABLE

Simple but not simple



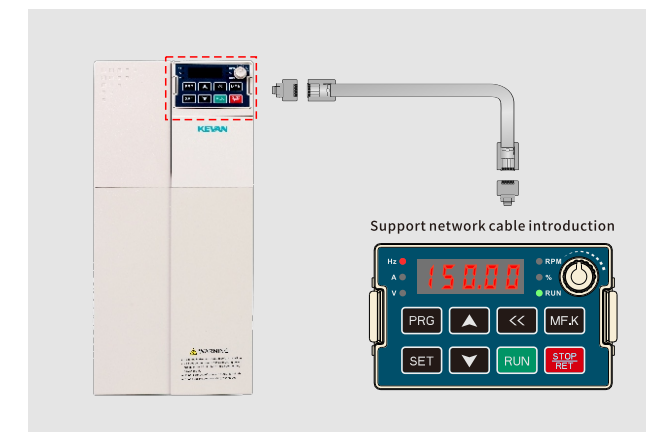
Solid process to ensure quality

- Adopt imported quality three proofing paint and thick spraying to ensure long-term environmental pollution resistance



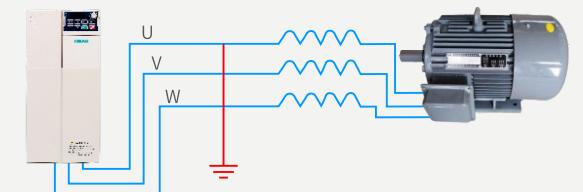
Independent air duct design

- Independent air duct design, resistance to environmental pollution, ensure stable operation of products.



Standard pluggable keyboard

- The standard keyboard can be imported, which can easily meet the flexible requirements for the keyboard installation position on the site of various cabinets;
- The plastic case is equipped with single line keyboard, and the iron case is equipped with double line keyboard.



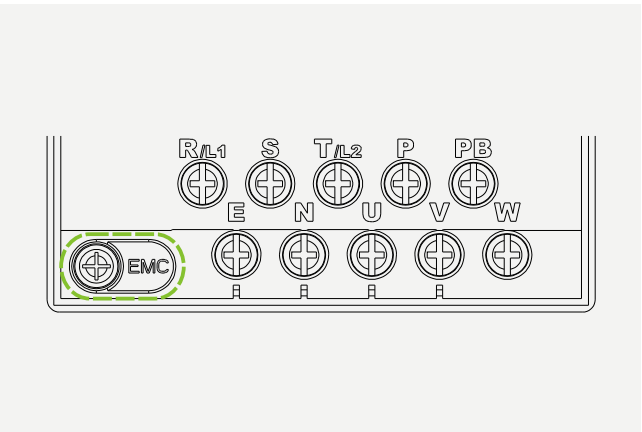
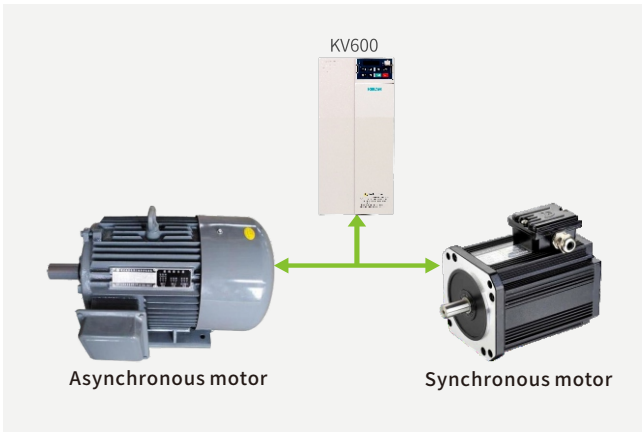
New motor short circuit detection

- When the inverter is started, the short circuit to ground protection is detected immediately. Once the motor side short circuit is found, it stops Output, to protect the motor, effectively avoid damage to the machine.

KV600 SERIES HIGH PERFORMANCE VECTOR CONVERTER

EXCELLENT PERFORMANCE

Focus on it and keep working



Focus on it and keep working

- Using the new high performance current vector algorithm, it can easily drive asynchronous motor and permanent magnet synchronous motor.

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.

Over current	Output phase loss	PID feedback fault
Overheated	Under voltage	Main contactor abnormal
motor overload	Rapid protection	Unbalanced output
Inverter overload	System exception	Abnormal motor detection
Output phase loss	Input phase loss	Control panel power short circuit protection
⋮	⋮	⋮

Comprehensive protection

- Comprehensive protection of the inverter and motor safety, save trouble and worry.

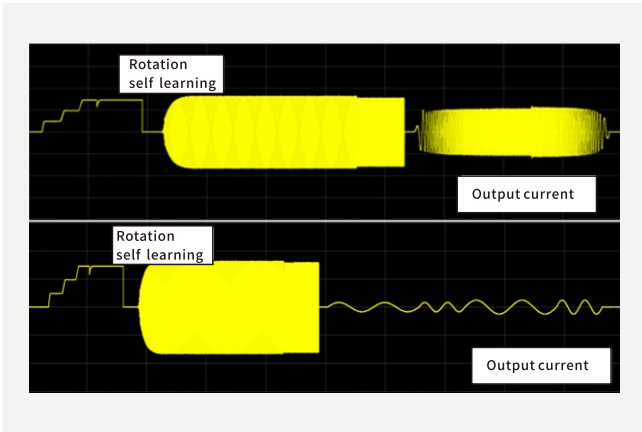
control mode	Speed control range	Starting torque
No PG vector (synchronous motor)	1: 100	150%
No PG vector (asynchronous motor)	1: 100	150%
With PG vector (synchronous and asynchronous motor)	1: 1000	200%

Excellent control

- Powerful torque output ensures stable and smooth load starting.

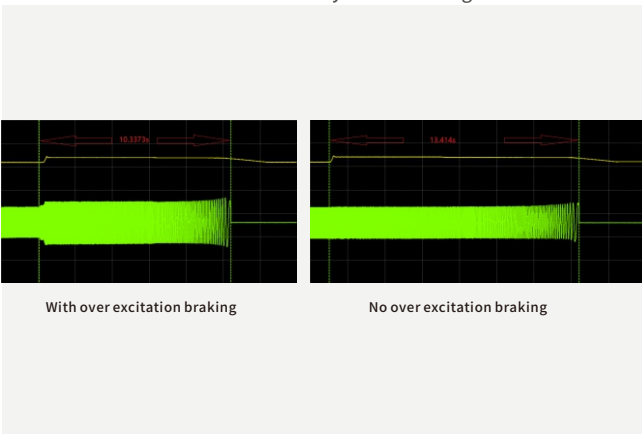
PRAGMATIC AND EFFICIENT

Details determine quality



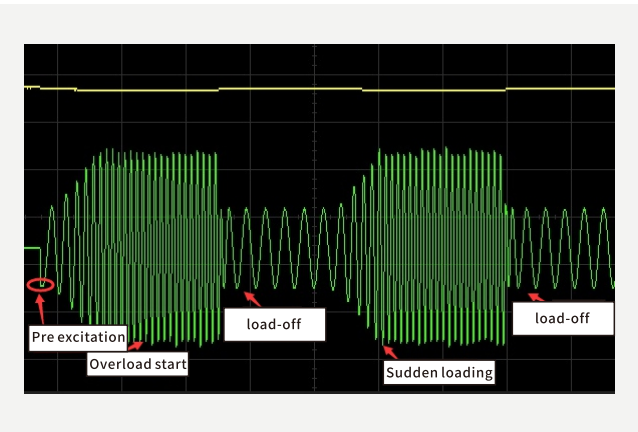
Self learning of motor parameters

- No matter in the self-learning of rotating or static motor, the motor parameters can be accurately obtained. It is convenient to debug and operate, and provides higher control accuracy and response speed;
- Rotation self-learning needs to be separated from load learning, so it is suitable for high precision control; Static self-learning can obtain the motor parameters in the static state of the motor, and the effect is similar to rotary self-learning.



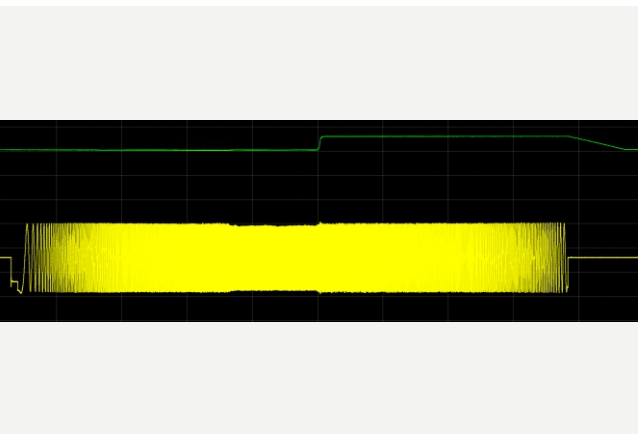
Over excitation braking function

- In the case of partial inertia shutdown, the quick braking can be realized through over excitation braking function without increasing braking resistance, so as to improve the usability of the product. The over excitation braking function can effectively restrain the rise of bus voltage during deceleration, avoid over-voltage fault, and realize fast braking to meet the requirements of power failure and fast stop.



High starting torque

- Low frequency torque is large. In closed-loop vector mode, it can output 200% rated torque at 0.0hz;
- It can run stably with load at ultra-low speed of 0.01Hz. Powerful low torque output can effectively guarantee stable and smooth starting.



Overvoltage suppression

- The over-voltage suppression function can avoid the over-voltage alarm when the frequency converter is decelerating. When the bus voltage of the inverter reaches or exceeds the overvoltage protection point during deceleration, the overvoltage suppression function can automatically adjust the operation frequency to suppress the rise of bus voltage, so as to protect the equipment safety and avoid the overvoltage alarm caused by the rise of bus voltage of the inverter.

KV600 SERIES HIGH PERFORMANCE VECTOR CONVERTER

NAME PLATE MODEL DESCRIPTION

KV600 - T3 - 2R2G/004P- B

①

②③

④

⑤

⑥

①Machine series		④Adaptive motor power	
KV10 series		R75: 0.75kW	
②Voltage classification		1R5: 1.5kW	
S:single-phase		2R2: 2.2kW	
T:Three phase		
③Voltage level		⑤Adaptive motor power	
1: 110V		R75: 0.75kW	
2: 220V		1R5: 1.5kW	
3: 380V		2R2: 2.2kW	
4: 440V		
6: 660V		⑥Accessory type	
11: 1140V		B:Brake unit	
		empty: nothing	

SPECIFICATION AND MODEL

Inverter specification	Current (A)	Inverter specification	Current (A)
KV600-T3-R75G/1R5P-B	3/4	KV600-T3-075G/090P	150/180
KV600-T3-1R5G/2R2P-B	4/6	KV600-T3-090G/110P	180/210
KV600-T3-2R2G/004P-B	6/10	KV600-T3-110G/132P	210/250
KV600-T3-004G/5R5P-B	10/13	KV600-T3-132G/160P	250/310
KV600-T3-5R5G/7R5P-B	13/17	KV600-T3-160G/185P	310/340
KV600-T3-7R5G/011P-B	17/25	KV600-T3-185G/200P	340/380
KV600-T3-011G/015P-B	25/32	KV600-T3-200G/220P	380/415
KV600-T3-015G/018P-B	32/38	KV600-T3-220G/250P	415/470
KV600-T3-018G/022P-B	38/45	KV600-T3-250G/280P	470/510
KV600-T3-022G/030P-B	45/60	KV600-T3-280G/315P	510/600
KV600-T3-030G/037P	60/75	KV600-T3-315G/355P	600/670
KV600-T3-037G/045P	75/90	KV600-T3-355G/400P	670/750
KV600-T3-045G/055P	90/110	KV600-T3-400G/450P	750/810
KV600-T3-055G/075P	110/150		

DESCRIPTION OF CONTROL PANEL

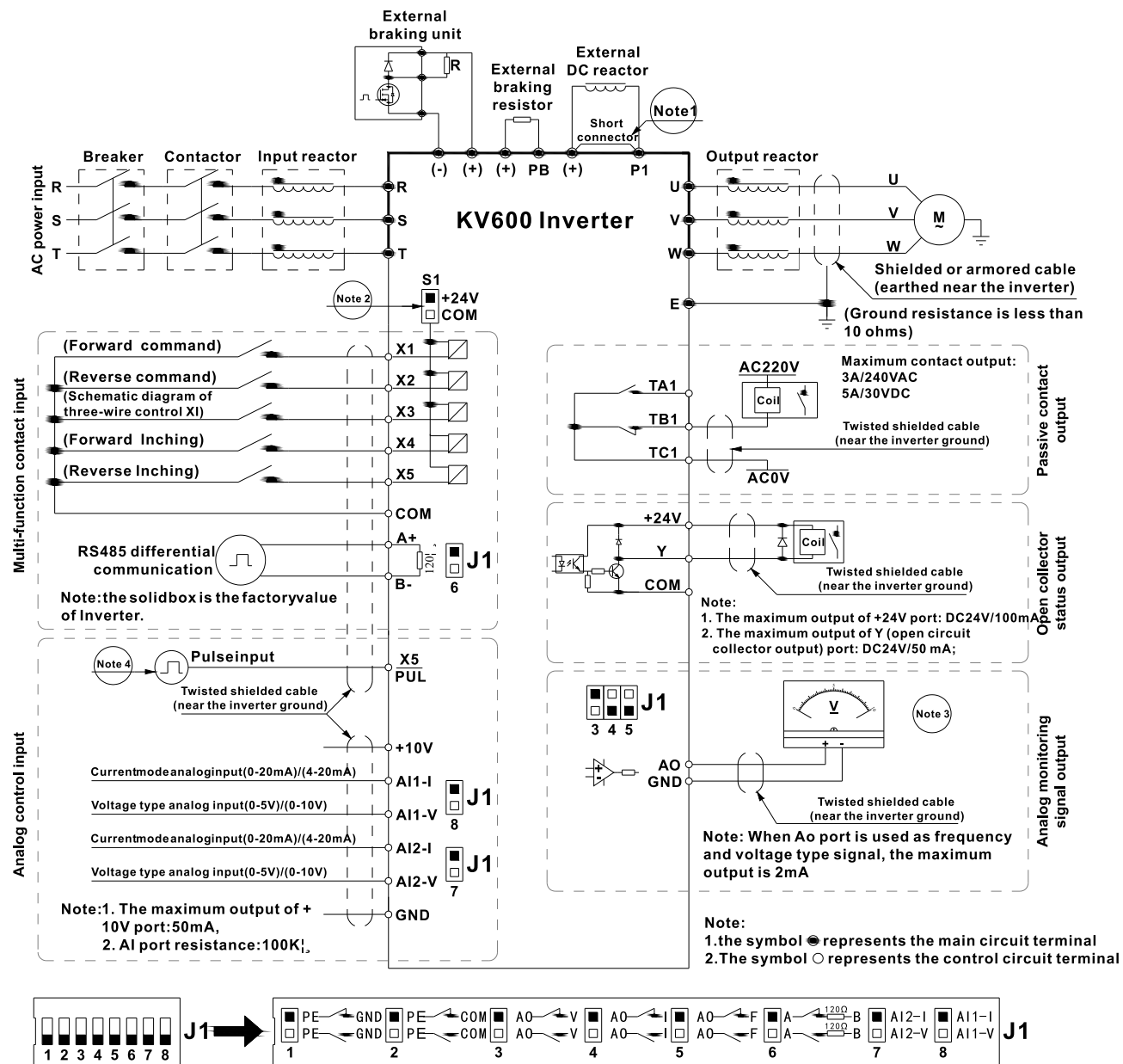
Type	Terminal	Terminal name	Terminal function definition
Power	+10V-GND	External + 10V power supply	10V auxiliary power supply output, constitutes loop with GND, Maximum output 10VDC / 50mA
	+24V-COM	External 24V power supply	Provide + 24 V power supply to the outside, and the maximum output is 100mA
Analog input	AI1-GND	Analog terminal 1	Input range: DC 0V-10V/4mA-20mA, It is determined by the AI-1 dial switch on the control board; Input impedance: 100k Ω for voltage input and 500 Ω for current input.
	AI2-GND	Analog terminal 2	Input range: DC 0V-10V/4mA-20mA, It is determined by the AI-2 dial switch on the control board; Input impedance: 100k Ω for voltage input and 500 Ω for current input.
Digital input	(X1-X4)-COM	Digital input 1-4	Internal photoelectric converter, programmable action, input conditions: maximum dc 30v / 8mA
	X5-COM	High speed pulse terminal	With x1-x4 function and high-speed pulse input function, the maximum input frequency is 100kHz
Analog output	AO1-GND	Analog output 1	The output voltage, current and frequency are selected by AO1 dial switch on the control board; Voltage type: 0-10V; current mode: 0-20mA / 4-20mA; frequency type (Collector open circuit): 0-50khz
Relay output	TB1-TC1	Normally closed	Can be programmed to set the action object, the maximum contact capacity: 3A/240VAC5A/30VDC
	TA1-TC1	Normally open terminal	
Y terminal	Y-COM	Digital output terminal	Open collector output, programmable action object, maximum output DC24V / 50mA
Communi cation	A+	Communication terminal A+	Rs485 communication interface
	B-	Communication terminal B-	

TECHNICAL SPECIFICATIONS

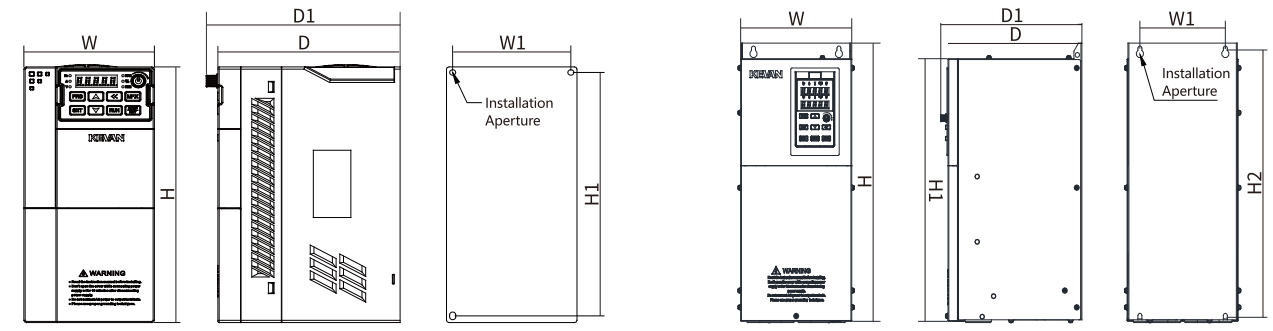
Item		Specification
Power input	Voltage, frequency	Single-phase 220V 50/60Hz ; Three phase 380V 50/60Hz,
	Allowable fluctuations	voltage unbalance rate:<3%; Frequency:±5%; aberration rate: asIEC61800-2
	Power factor	≥0.94(with DC reactor)
	Efficiency	≥96%
Output	Output voltage	Output underrated condition: 3 phase, 0~input voltage, inaccuracy<5%
	Output frequency	G type:0~600Hz
	Output frequency	Max frequency ±0.5%
	Overload capacity	G type: 150% rated current/1 min, 180% rated current/10s, 200% rated
Main control performance	Motor control mode	V/F without PG , VC without PG , VC with PG
	Speed control range	Vector control without PG, rated load 1:100;Vector control with PG, rated load 1:1000;
	Steady speed accuracy	VC without PG: ≤2% rated synchronized speed; VC with PG: ≤0.05% rated synchronized speed
	Starting torque	VC without PG: when 0.5Hz, 150% rated torque; VC with PG: when 0Hz, 200% rated torque
	Torque response	VC without PG: ≤20ms; VC with PG: ≤10ms
	Frequency accuracy	Digit setting: max frequency×±0.01%; Analog setting: max frequency×±0.2%
	Frequency resolution	Digital setting: 0.01Hz; Analog setting: maximum frequency × 0.05%
	DC braking capacity	Starting frequency:0.00~50.00Hz; Braking time:0.0~60.0s; Braking current:0.0~150.0% rated current
Product basic functions	Torque boost capacity	Auto torque upgrade 0.0%~100.0%; Manual torque upgrade 0.0%~30.0%
	V/F curve	4 modes: one linearity torque characteristic curve , one self-setting V/F curvemode, one drop torque characteristic curve (1.1- 2.0 powers),and square V/F curve mode.
	Acceleration/ Deceleration curve	2 modes: linear Acceleration/Deceleration and S curve Acceleration/Deceleration. 4 sets of ACC/DEC, time unit 0.01sselectable, longest time: 650.00s.
	Rated output voltage	Rely on power supply voltage compensate function, while motor rated voltage is 100%,set it at the range of 50-100% (output can not over input voltage).
	Voltage auto-adjustment	While power supply voltage fluctuates, it can auto-keep constant output voltage
	Auto energy-saving running	While under V/F control mode, according to load situation, auto-optimize output voltage to save energy.
	Standard functions	PID control, speed track, power off restart, jump frequency, upper/lower frequency limit control, program operation, multi-speed, RS485 , analog output, frequency impulse output.
	Frequency setting channels	Keyboard digital setting, keyboard potentiometer, Analog voltage/currentterminal AI1,AI2, Communication given and multi-channel terminal selection, Main and auxiliary channel combination, expansion card,supporting different modes switch.
	Feedback input channel	Voltage/Current Terminal AI1, Voltage/Current Terminal AI2, Communication given, pulse input X5.
	Running command channel	Operation panel given, external terminal given, communication given, expansion card given
Envir onment	Input command signal	Start, stop, FWD/REV,JOG, multi-step speed, reset, ACC/DEC time selection, frequency given channel selection, exterior fault alarm.
	Protective function	Over voltage, under-voltage, current limit, over-current, overload, electric thermal relay, overheat, over voltage stall, data protection, rapid speed protection, input/output phase failure protection.
	Install place	altitude ≤ 1000m, above 1000m down the rated amount, each increase of 100m down the rated mount of 1%;no condensation, ice ,rain, snow, hail; solar radiation below 700W/㎡, air pressure 70-106 kPa.
	Temperature, humidity	-10 ~ + 50 ℃, derating above 40℃, maximum temperature 60 ℃ (no-load operation) 5% to 95% RH (non-condensing)
	Vibration	When 9~200Hz, 5.9m/s2(0.6g)
	Storage temperature	-30 ~+60℃
	Protection grade	IP20
	Cooling method	Forced air cooling

KV600 SERIES HIGH PERFORMANCE VECTOR CONVERTER

STANDARD CONNECTION DIAGRAM



INSTALLATION DIMENSION



Inverter model	Dimensions (mm)				Installation size (mm)		Installation Aperture
	W	H	D	D1	W1	H1	
KV600-T3-R75G/1R5P-B	89	190	135	144	79	180	2-M4
KV600-T3-1R5G/2R2P-B							
KV600-T3-2R2G/4P-B							
KV600-T3-4G/5R5P-B	106	230	148	157	96	219	3-M4
KV600-T3-5R5G/7R5P-B							
KV600-T3-7R5G/11P-B-E	130	275	160	169	115	260	3-M5
KV600-T3-11G/15P-B							
KV600-T3-15G/18R5P-B-E	155	335	191	200	141.5	320	4-M5
KV600-T3-18R5G/22P-B							
KV600-T3-22G/30P-B							
Inverter model	Dimensions (mm)				Installation size (mm)		Installation Aperture
	W	H	H1	D	W1	H1	
KV600-T3-030G/37P	195	445	420	235	150	420	4-M6
KV600-T3-037G/45P							
KV600-T3-045G/55P	240	560	520	310	176	520	4-M6
KV600-T3-055G/75P							
KV600-T3-075G/90P							
KV600-T3-090G/110P	270	638	580	350	200	620	4-M8
KV600-T3-110G/132P							
KV600-T3-132G/160P	350	738	680	405	220	715	4-M8
KV600-T3-160G/185P							
KV600-T3-185G/200P	360	940	850	480	200	910	4-M16
KV600-T3-200G/220P							
KV600-T3-220G/250P							
KV600-T3-250G/280P	370	1140	1050	545	200	1110	4-M16
KV600-T3-280G/315P							
KV600-T3-315G/355P	400	1250	1140	545	240	1213	4-M16
KV600-T3-355G/400P							
KV600-T3-400G/450P							