Technical Specifications

Enter	Rated voltage, frequency	Three-phase AC 380V; 50/60Hz Single-phase AC220 V; 50/60Hz	
	Voltage allowed Range of variation	Three - phase AC 380V ~ 480V Single-phase AC220 V ~ 260 V	
Output	Voltage	0 ～ 480V 0 ～ 260V	
	frequency	Vector control: 0～500Hz V/F control: 0～5000Hz	
	Overload capacity	G type machine: 150% rated current for 60s; 180% rated current for 3s. P-type machine: 120% rated current for 60s; 150% rated current for 3s.	
Control method		V/F control, speed sensorless vector control (SVC)	
Control characteristics	Frequency setting Resolution	Analog input	Maximum frequency × 0.025%
		Digital settings	0.01Hz
	V/F control	V/F curve	Three types: linear type; multi-point type; N-power type V/F curve (1.2, 1.4, 1.6, 1.8, 2)
		V/F separation	2 methods: full separation, semi-separation
		Torque boost	Manual setting: 0.0～30.0% of rated output Automatic boost: Automatically determine the boost torque based on the output current and motor parameters
		Automatic current and pressure limiting	Whether in acceleration, deceleration or stable operation, it can automatically detect the motor stator current and voltage, and suppress them within the allowable range based on a unique algorithm, minimizing the possibility of system fault tripping.
Control characteristics	Sensorless vector control	Voltage-frequency characteristics	Automatically adjust the output voltage-frequency ratio according to motor parameters and unique algorithm
		Torque characteristics	Starting torque: 150% rated torque at 3.0Hz (V/F control) 150% rated torque at 0.5Hz (speed sensorless vector control) Operating speed steady-state accuracy: ≤±0.2% rated synchronous speed Speed fluctuation: ≤±0.5% rated synchronous speed Torque response: ≤20ms (speed sensorless vector control)
		Motor parameter self-determination	Without any restrictions, the automatic detection of parameters can be completed in both static and dynamic states of the motor to obtain the best control effect
		Current and voltage suppression	Full current closed-loop control, completely avoiding current shock, with perfect over-current and over-voltage suppression function
	Undervoltage suppression during operation	Especially for users with low grid voltage or frequent grid voltage fluctuations, even if the voltage is below the allowable range, the system can maintain the longest possible operating time based on unique algorithms and residual energy allocation strategies.	
Typical functions	Multi-speed and swing frequency operation	16-segment programmable multi-speed control, multiple operating modes optional. Swing frequency operation: preset frequency, center frequency adjustable, state memory and recovery after power failure	
	PID control RS485 communication	Built-in PID controller (frequency can be preset), standard configuration RS485 communication function	
	Frequency setting	Analog input	DC voltage 0~10V, DC current 0~20mA (upper and lower limits are optional)
		Digital Input	Operation panel setting, RS485 interface setting, UP/DOWN terminal control, and multiple combination settings with analog input
	Output signal	Digital output	2-way Y-terminal open collector output and 2-way programmable relay output (TA, TB, TC), up to 58 meaning options
		Analog output	2-way analog signal output, the output range is flexibly set between 0~20mA or 0~10V, which can realize the output of physical quantities such as set frequency and output frequency
	Automatic voltage stabilization operation	According to the needs, you can choose dynamic voltage stabilization, static voltage stabilization and non-stabilization to obtain the most stable operation effect.	
	Acceleration and deceleration Time setting	0.0s~6500.0s continuously adjustable, S-shaped and linear modes optional	
	brake: Energy consumption brake	Dynamic braking starting voltage, hysteresis voltage and dynamic braking rate are continuously adjustable	
	brake: DC brake	DC braking start frequency at shutdown: 0.00～[F00.10] maximum frequency Braking time: 0.0～100.0s; Braking current: 0%～100% rated current	
	Low noise operation	The carrier frequency is continuously adjustable from 0.5KHz to 16.0KHz to minimize motor noise	
	Speed tracking speed Restart function	It can realize the smooth restart and instantaneous stop restart function of the running motor	
	counter	One internal counter for easy system integration	
	Run function	Upper and lower frequency limit setting, frequency jump operation, reverse operation limit, slip frequency compensation, RS485 communication, frequency increase and decrease control, fault self-recovery operation, etc.	
show	Operation panel display: run state	Output frequency, output current, output voltage, motor speed, set frequency, module temperature, PID setting, feedback amount, analog input and output, etc.	
	Operation panel display: Call the police content	There are eight operating parameter records including output frequency, set frequency, output current, output voltage, DC voltage, module temperature, power-on time, and running time when three fault trips occur.	
Protection function		Overcurrent, overvoltage, undervoltage, module failure, electronic thermal relay, overheating, short circuit, input and output phase loss, abnormal motor parameter tuning, internal memory failure, etc.	
environment	Ambient temperature	-10℃～+40℃ (When the ambient temperature is 40℃～50℃, please derate the usage)	
	Ambient humidity	5%～95%RH, no condensation	
	Surrounding environment	Indoors (no direct sunlight, no corrosion, no flammable gas, no oil mist, no dust, etc.)	
	altitude	Derate for use above 1000 meters, and derate by 10% for every 1000 meters increase	
structure	Protection level	IP20	
	Cooling method	Air cooling, with fan control	
Installation		Wall-mounted	

Version number: V1.03
Due to the company's continuous product upgrades, the content is subject to change without prior notice.

KDC
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KD800 SERIES

High performance current vector inverter

Easy to drive, universally accessible



EXPLORATION,NEVER ENDS

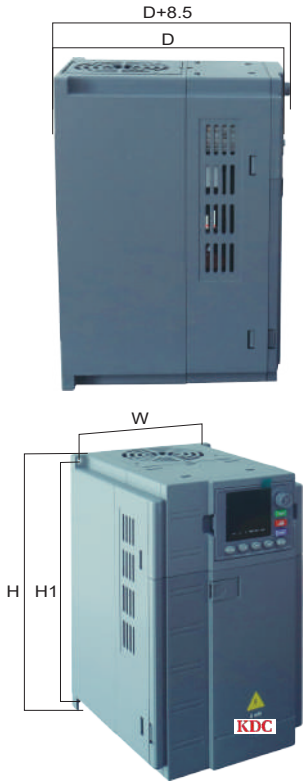
KD800 SERIES
High performance current vector inverter

NAMING AND SIZES

KD800 - 043 - 18.5K /22K B
① ② ③ ④ ⑤

① VFD SERIES KD800 series inverter	② VOLTAGE GRADE 021: Single-phase 220 V 043: Three-phase 380 V
③ Adaptive motor power 18.5K: G-type machine; Adapt to 18.5 KW /22K: P-type machine; Adapt to 22 KW	④ Adaptive motor type G-type machine: 110% long-term,150% 1 minute, 180% 3 seconds P-type machine: 105% long-term, 120% 1 minute, 150% 3 seconds
⑤ Brake units Blank: No; B: Contains brake unit	

KD800 7.5-11KW



KD800 630KW



Installation dimensions

Voltage level	Inverter model	Overall dimensions (mm)			Installation dimensions (mm)			Packaging size (mm)			Net weight (KG)
		W	H	D	W1	H1	Φ	lengt h	wi dth	hei ght	
220V Single-phase	KD800-021-0.75K/1.5KB	78	170	125	60	160	5	200	115	175	1.1
	KD800-021-1.5K/2.2KB										1.1
	KD800-021-2.2K/4.0KB										1.3
380V Three-phase	KD800-043-0.75K/1.5KB										1.1
	KD800-043-1.5K/2.2KB										1.1
	KD800-043-2.2K/4.0KB										1.3
	KD800-043-4.0K/5.5KB	95	212	144	78	198	5	258	140	184	1.4
	KD800-043-5.5K/7.5KB										1.5
	KD800-043-7.5K/11KB	140	240	175	129	229	5.5	280	180	220	3.18
	KD800-043-11K/15KB										3.2
	KD800-043-15K/18.5KB	166	312	185.5	135	298	7	387	250	270	4.92
	KD800-043-18.5K/22KB										4.92
	KD800-043-22K/30KB										4.95
	KD800-043-30K/37KB	250	380	226	160	364	6.5	452	322	305	10.28
	KD800-043-37K/45KB										10.49
	KD800-043-45K/55K	320	522	257.6	200	499	9	600	430	325	22.7
	KD800-043-55K/75K										23
	KD800-043-75K/90K	320	565	276	240	545	11	650	430	390	30.8
	KD800-043-90K/110K	340	720	305.6	260	700.5	9	787	455	388	40
	KD800-043-110K/132K										41.5
	KD800-043-132K/160K	380	720	305.6	260	700.5	9	787	495	388	46
	KD800-043-160K/185K										47
	KD800-043-185K/200K	470	830	347.1	343	791	11	898	625	439	70.5
	KD800-043-200K/220K										70.5
	KD800-043-220K/250K	550	835	320	360	810	10.5	950	680	500	104.2
	KD800-043-250K/280K										104.24
	KD800-043-280K/315K	540	1060	416.6	420	1031.5	13	1125	695	616	120
	KD800-043-315K/355K										124
	KD800-043-355K/400K	650	1090	416.6	420	1061.5	13	1155	805	616	153
	KD800-043-400K/450K										153
	KD800-043-450K/500K	750	1280	416.6	600	1237	13	1320	795	551	198
	KD800-043-500K/630K										199
	KD800-043-630K	1000	1800	600				2100	1110	700	329.8