Energy efficient , beautiful environment

Shenzhen K-Easy Automation Co.,Limited

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Version: A01

KD100 SERIES

Mini Vector Series

Company Introduction

Shenzhen K-Easy Automation Co.,Limited is a professional manufacturer, specialize in R&D And production of AC drives. We have built up a comprehensive product family. Frequency inverters' power covers the range from 0.4 to 630kW, and voltage range is between 220V and 480V. More than inverters are running smoothly 300, 000 units at different industrial sites

WHY US

★We believe " quality is life ",so we will test all products before shipment,All Module of our VFD will be used quality is life with Infenion only,With years of persistence, the total failure ratio of Our frequency inverters has been controlled below 1%. We never lose a customer because of the quality problem.

★With Strong R&D and Engineer Team, makes our after-service very easy, For all doubts and requesting for technologies supporting, We can offer detailed Solution without delay, so for us,"Not Only Products,But also solutions"

★All our products will be offered with 24 months Warranty Period instead of 18 months

Join us, enjoy the business.

Name Rules

KD100 −2S− 0.7G
❶ ❷ ❸

Name	Mark	Description	
AC drive series	❶	KD100 series	Series Name
Voltage level	❷	Voltage level	2S: Single-phase 220V Range:-15%~20% 4T: Three-phase 380V Range:-15%~20%
Adaptable power	❸	Adaptable motor power(KW)	0.4KW~11KW

- Our VFD has been used in Shenzhen and Guangzhou Metrol Since Year 2014.
- Problem Rate Less Than 1%..
- Support OEM Service
- Strong Engineer Team
- 24 Months Warranty Time
- Very Good After Sales-Service, Best Solutions Can be always offered within 2 hours

KD100
Mini Vector Series Purpose

Kd100 is our new design with the most compact size but good vector Control Mode, Can be easily tuned to simple speed control for 80% Motors,really cheapest price, and good function.. with 24 months warranty offered, it can almost match all customers' requests

- GENERAL PURPOSE **(KD100 SERIES)**
- OFF GRID SOLAR SERIES **(SP100 SERIES)**

Power Rate	1 phase & 3 phase Input 3 phase output	220V (+-20%) 0.4KW~4.0KW	380V (+-20%) 0.4KW~7.5KW

Best Solution For Small Motors

Vector Control | PID | Multi-step Freq. | ModBus | Over-voltage & Over-current stall control | Torque Boost | Wobble Frequency Control | Simple PLC | FDT | ……

Start Torque @0.5Hz
100%

Overload Capability
200%

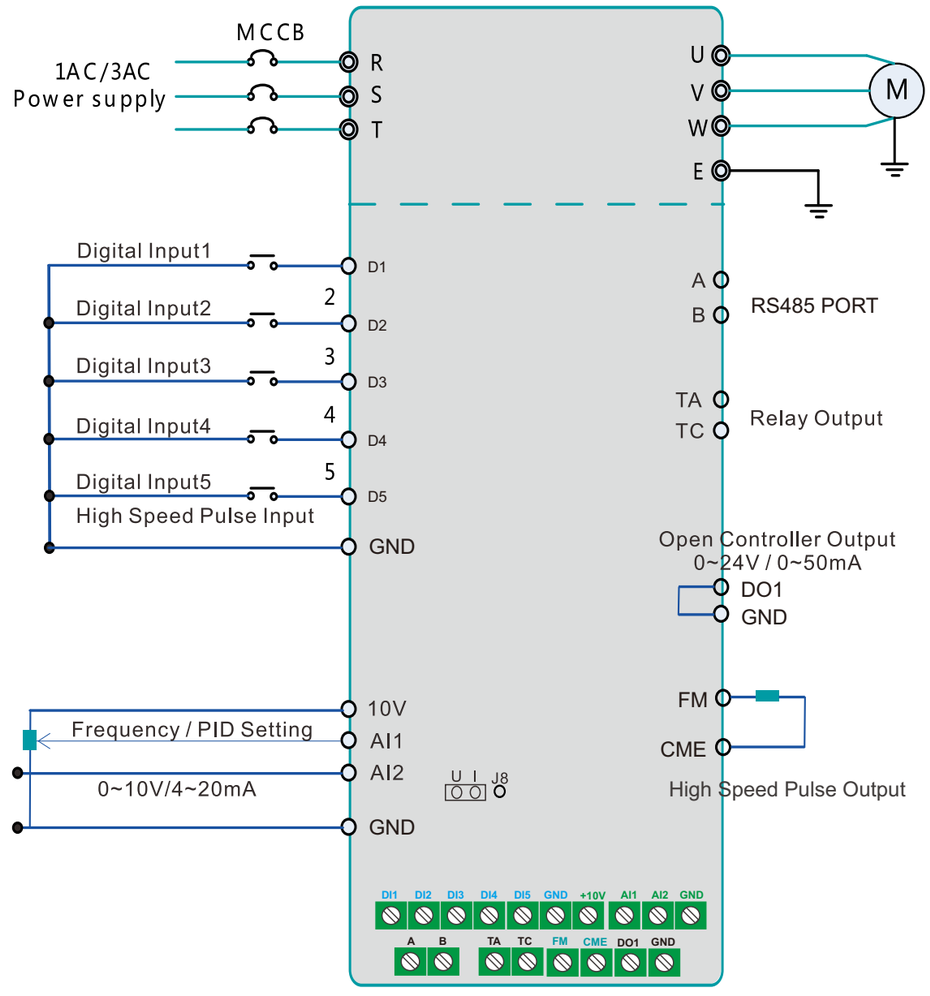
Speed accuracy ±
0.5%

Ambient Temp ℃
40

Speed Regulation
1:100

Multi-step speed max.
16

Terminal Show



Digital Input X **5** [**D1 ~ D5**]

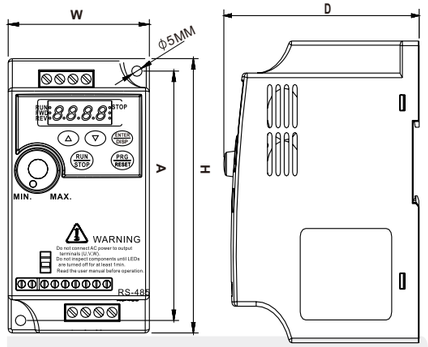
Analog Input X **2** [**AI1, AI2**]

Relay Out put X **1** [**TA,TC**]

RS485 X **1** [**A,B**]

HDI (High Speed Pulse Input /Output) X **1** [**D5/FM,CME**]

Technical Specification



AC Drive Model	PowerCapacity (KVA)	Rated Input Current(A)	Rated Output Current(A)	W (MM)	A (MM)	H (MM)	D (MM)
Input voltage: single-phase 220V Range : -15%~20%							
KD100-2S-0.4G	1.0	5.8	2.5	85	110	140	127
KD100-2S-0.7G	2.0	10.2	5	85	110	140	127
KD100-2S-1.5G	2.8	14.0	7	85	110	140	127
KD100-2S-2.2G	4.4	25.0	11	85	110	140	127
KD100-2S-4.0G	6.6	39.0	16.5	95	114	180	148.33
KD100-2S-5.5G	8	48.0	20	95	114	180	148.33
Input voltage: three-phase 380V Range: -15%~20%							
KD100-4T-0.7G	1.8	4.4	2.7	85	110	140	127
KD100-4T-1.5G	2.8	5.3	4	85	110	140	127
KD100-4T-2.2G	3.4	5.8	5	85	110	140	127
KD100-4T-4.0G	5.9	10	8.6	95	114	180	120
KD100-4T-5.5G	8.9	14.6	12.5	95	114	180	120
KD100-4T-7.5G	12	20.5	17.5	95	114	180	148.33
KD100-4T-11G	16	26	24	95	114	180	148.33

Input & Output

Input voltage	1AC 220V Series (± 20%) 3AC 220V Series (± 20%) 3AC 380V Series (± 20%) 3AC 480V Series (± 20%)
Input frequency	50Hz/60Hz±5%
Output voltage	0~input voltage, deviation<±3%
Output frequency	0~3200Hz

Control Characteristics

Control mode	V/f control Sensor-less vector control
Speed accuracy	±0.5% (V/f SVC)
Speed fluctuation	±0.5% (SVC)
Torque response	<10ms (SVC)
Starting torque	0.3Hz : 150% (V/f SVC)
Overload capability	150% Rated Current 60s 180% Rated Current 3s 200% Rated Current 1s
Simple PLC Multi-step speed	16 steps speed External digital signal control Internal clock
PID function	Standard build-in
Communication	Modbus Canopen/Canbus(PG Card)

Featured Functions

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

Environment Limitation

Installation location	Without direct sunlight, free from dust, corrosive gases, oil mist, flammable gases, water vapor, water drop and salt , etc.
Altitude	0~2000m Derated 1% for every 100 m when the altitude is above 1000 meters
Ambient temperature	-10℃~50℃ (Output derated while the temperature is higher than 40℃)
Storage temperature	-20℃~+70℃
Relative humidity	5~95%, no condensation

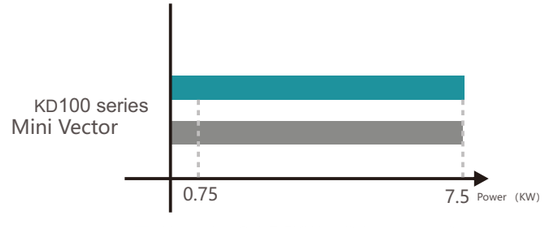
Advanced Design

Quality Assurance

Long lifespan component selection and refined design ensured the good quality of the products.
stabilize the automatic spraying process of the three-proof paint, increase the environmental resistance of the veneer, and comprehensively improve the protection of the veneer.

Perfect DC Braking Circuit Scheme

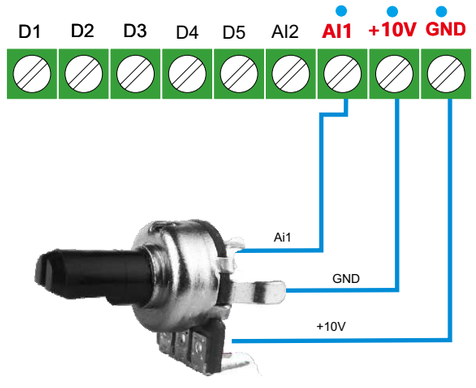
0.75kW~7.5kW built-in brake unit
Strong braking ability: The short-term braking ability can reach 1.1~1.4 times the rated power of the Drive, and the braking protection is more comprehensive and intelligent.



■ All model: 0.4-7.5KW built-in brake unit

Easily Connect way

External potentiometers



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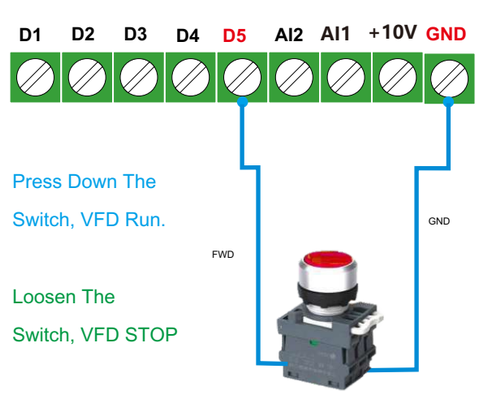
External Switch



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