




Technical features

Items	KD100	KD200	KD300
Input voltage	1AC 220V (±15%) 3AC 380V (±15%)	1AC 220V (±15%) 3AC 220V (±15%) 3AC 380V (±15%)	1AC 220~240V (±15%) 3AC 220~240V (±15%) 3AC 380~460V (±15%)
Input frequency	50/60Hz±5%	50/60Hz±5%	50/60Hz±5%
Output frequency	0~6000Hz	0~6000Hz	0~6000Hz
Power range	1AC 220V (±15%), 0.4~1.5kW 3AC 380V (±15%), 0.75~1.5kW	1AC 220V (±15%), 0.75~2.2kW 3AC 220V (±15%), 0.75~4.0kW 3AC 380V (±15%), 0.75~7.5kW	1AC 220~240V (±15%), 0.75~2.2kW 3AC 220~240V (±15%), 0.75~75kW 3AC 380~460V (±15%), 0.75~630kW
Control mode	V/f control sensorless vector control (SVC) Torque control	V/f control sensorless vector control (SVC) Torque control	V/f control sensorless vector control (SVC) Torque control
Overload capacity	150% 60s, 180% 10s, 200% 1s	150% 60s, 180% 10s, 200% 1s	150% 60s, 180% 10s, 200% 1s
Multi-step speed operation	16	16	16
Input terminals	MI: 5 on-off inputs VI: 0~10V CI: 4~20mA	MI: 5 on-off inputs VI: 0~10V CI: 4~20mA	MI: 5 on-off inputs VI: 0~10V CI: 0~10V / 4~20mA
Output terminals	Open collector ouput: 1	Open collector ouput: 1	Open collector ouput: 2
	Relay output: 1	Relay output: 1	Relay output: 2
	Analog output: 1 (0~10V)	Analog output: 1 (0~10V)	Analog output: 2 FM: 0~10V AM: 4~20mA
LED display	One line	0.75~2.2kW: one line 4~7.5kW: two lines	0.75~7.5kW: one line >11kW: two lines
Communication terminals	RS485 (MODBUS)	RS485 (MODBUS)	RS485 (MODBUS)

Hardware

Item	KD100	KD200	KD300
Appearance			
IGBT	Single unit IGBT (Infineon)	Single unit IGBT (Infineon)	Module IGBT (Infineon & Fuji)
Color	White	White	Deep blue
Size	142*85.5*113mm	0.75~2.2kW: 152*101*117mm 4~7.5kW: 264*130*8153.5mm	Please refer to the manual for details
Weight	1.1kg	0.75~2.2kW: 1.5kg 4~7.5kW: 3.5kg	Please refer to the manual for details

Special functions

Item	KD100	KD200	KD300
Build-in braking unit	×	✓	0.75~18.5kW: ✓ >18.5kW: External connected
NPN & PNP connection for digital input signals	×	×	✓
S curve ACC / DEC	✓	✓	✓
Smart start / stop (0s ACC / DEC time)	✓	✓	✓
PID function	✓	✓	✓
V/f separate function	✓	✓	✓

Performance

Item	KD100	KD200	KD300
Software (Functions)	Same		
Total failure ratio	<1%	<1%	<1%
Applications	Small power, with good ambient environment.	General applications, up to 7.5kW.	General purpose, widely used in many different applications
Grouped pulse testing	4500V without failure	4500V without tripping	4500V without tripping
Electrostatic	Non-contact: 10000V without failure In contact: 5000V without failure	Non-contact: 10000V without failure In contact: 5000V without failure	Non-contact: 10000V without failure In contact: 5000V without failure