

## Comparison between KE300 and ALPHA6000

Item	Micno KE300 series	ALPHA6000 series
Input voltage	3AC 220~240V (2.2~110kW) 3AC 380~460V (4~1000kW) 3AC 480~690V (37~1200kW)	1AC 220~240V (0.4~2.2kW) 3AC 220~240V (0.75kW~55kW) 3AC 380~440V (0.75kW~500kW)
Output frequency	V/f control: <b>0~3000Hz</b>	≤4kW: 0~650Hz
	Sensorless vector control: 0~300Hz	≥5.5kW: 0~400Hz
Control mode	<b>V/f control</b>	V/f control
	<b>Sensorless vector control</b>	
	<b>Torque control</b>	
Overload capacity	G model: 150% 60s, 180% 10s, 200% 3s	G model: 150% 60s, 180% 20s
	P model: 120% 60s, 150% 10s, 180% 3s	P model: 120% 30s, 150% 1s
Starting torque	0.5Hz/150% (SVC), 1Hz/150% (V/f)	0.5Hz/150%
Speed adjustment range	1:100 (SVC), 1:50 (V/f)	1:100
Speed control precision	±0.5% (SVC)	1%
Frequency accuracy	Digital: 0.01Hz	Digital: 0.01Hz
	Analog: 0.05%	Analog: 0.1%
V/f curve	Three types: straight line, multiple point and square type (1.2 power, 1.4 power, 1.6 power, 1.8 power, square)	Three types: straight line, multiple point and square type (1.2 power, 1.5 power, square)
Multi-step speed operation	<b>16</b>	7
Torque control	Torque control without PG	No
Torque limit	"Rooter" feature, limit the torque automatically and prevent frequent over-current tripping during the running process	No
Input terminal	DI: 7 on-off inputs, 1 high-speed pulse inputs	DI: 6 on-off inputs, 2 high-speed pulse inputs
	AI: 2 (0~10V or 0/4~20mA)	AI: 2 (0~10V or 0/4~20mA)
Output terminal	Digital output: 1	Digital output: 2
	Relay output: 2	Relay output: 2
	Analog output: 2 (0/4~20mA or 0~10V)	Analog output: 2 (0/4~20mA or 0~10V)
Communication terminals	RS485, MODBUS-RTU	RS485, MODBUS-RTU
Motor parameter autotuning	Yes	No