

VARISPEED



PROVEN RELIABILITY - EXPERT SERVICE



FUN

SET

RUN

STOP

**ALPHA**   
DRIVE-MICRO

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DRIVE-MICRO

# MICRO DRIVE 0.2kW - 5.5 kW

## FREQUENCY INVERTER



### HIGHLIGHTS

- Best performance / cost ratio, without compromise in reliability and quality
- Compact design, easy to integrate in your environment: DIN rail mounting, contactor-style I/O
- Easy to setup: Simple set of optimized parameters for all basic functions and applications
- General purpose drive
- PID and HVAC functions - safety integrated - MODBUS - open for networking
- Internal EMC filter as standard
- Approved and certified by European independent bodies

PARAMETER COPY STICK



### FRAMESIZE

MODEL	INPUT VOLTAGE	MATCHED MOTOR (KW)	RATED OUTPUT CURRENT (A)	FRAME	DIMENSIONS (mm) W x H x D
VFD-A-E6-20002	220V - 240V	0.2	1.5	Q1	88 x 149 x 145
VFD-A-E6-20004	220V - 240V	0.4	2.5	Q1	88 x 149 x 145
VFD-A-E6-20007	220V - 240V	0.75	4.5	Q1	88 x 149 x 145
VFD-A-E6-20015	220V - 240V	1.5	7.0	Q1	88 x 149 x 145
VFD-A-E6-20022	220V - 240V	2.2	10.0	Q2	107 x 180 x 163
VFD-A-E6-40004	380V - 480V	0.4	2.5	Q1	88 x 149 x 145
VFD-A-E6-40007	380V - 480V	0.75	4.5	Q1	88 x 149 x 145
VFD-A-E6-40015	380V - 480V	1.5	7.0	Q1	88 x 149 x 145
VFD-A-E6-40022	380V - 480V	2.2	10.0	Q2	107 x 180 x 163
VFD-A-E6-40030	380V - 480V	3	7.0	Q2	107 x 180 x 163
VFD-A-E6-40040	380V - 480V	4	9.0	Q2	107 x 180 x 163
VFD-A-E6-40055	380V - 480V	5.5	12.0	Q2	107 x 180 x 163

# TECHNICAL DATA

Input	Rated voltage	AC 1-Phase 220V - 240V(±15%) AC 3-Phase 380V - 480V(+10%/-15%)	
	Rated frequency	50/60Hz	
	EMC filter	Internal EMC filter as standard	
Output	Output voltage	0 - Input	
	Output frequency	0.50 - 650Hz	
Control	Carrier Frequency	Fixed carrier frequency of 0.8-10K, random carrier frequency	
	Input Frequency Resolution	Digital setting: 0.01Hz, analog setting: max frequency*0.1%	
	Control mode	Induction motor: VVVF	
	Starting torque	0.5HZ 100% (VVVF)	
	Overload	150% for 60 seconds	
	Torque compensation	Manual Torque Promotion 0.1%~30%	
	Motor data input	Manual, from nameplate / AUTOTUNING	
	V/F curve	3 modes: beeline type, square type and under-defined V/F curve.	
	Starting mode	Direct starting, speed search starting	
	DC braking	Braking frequency: 0.0-max frequency	
		Braking time: 0.0-60.0 seconds	
		Braking current: 0.0-100%	
	Jogging	Jogging frequency range: min frequency~ max frequency, jogging acceleration/ Deceleration time: 0.1~3000s	
	Auto Circulating Running and multi-stage speed running	Auto circulating running or terminal control can realize 15-stage speed running.	
	Built-in PID	Built-in PID	
Auto voltage regulation (AVR)	When source voltage changes, the modulation rate can be adjusted automatically, so that the output voltage is constant.		
Accelerating / decelerating curves	2 modes: linear mode and S curve		
	0~3000.0 seconds		
Operation Function	Frequency setting	Potentiometer or external analog signal (0 - 5V, 0 - 10V, 0 - 20mA); keypad (terminal) ▲ / ▼ keys, external control logic setting.	
	Inverter control	3 channels: keypad panel set, control terminal set and communication set.	
	Speed reference input	Frequency sources: digital set, analog voltage set, analog current set and Communication set.	
Protection		Output phase loss, input under-voltage, DC over-voltage, over-current, inverter over-load, motor over-load, over-heat, analog line disconnected, ground fault	
Environmental and operating conditions	Working Temperature	-10 - +50 °C	
	Humidity	Below 90% (no water-bead coagulation)	
	Altitude	1000 m.a.s.l, 1% for every 100m meters above 1000m	
Cooling mode		Self/air cooling	
External keypad		1-line LCD keypad option available	
Copy stick		Supported	
Communication		Modbus,CANbus	

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