



AIRTECHNIC

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Air-Conditioning & Ventilation Components & Systems

AIRTECHNIC AK 610 **COMPACT AC DRIVE**

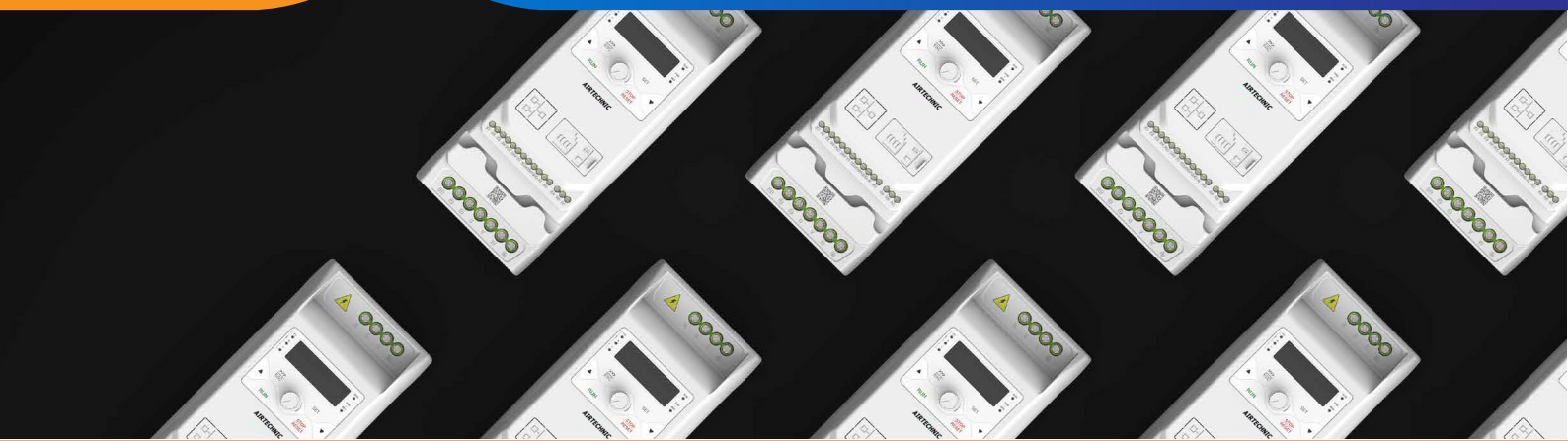


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AK 610

Compact AC Drive

AIRTECHNIC has launched **AK 610** compact AC drives (1 phase 220VAC and 3 phase 380VAC) to meet the market requirements of small power rating, compact size and simple speed control.



POWER RATINGS	1 × 200-240 V 0.4 - 2.2 kW	3 × 380-440 V 0.75 - 7.5 kW
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Compact size

Powerful functions

- Promoted V/Hz
- SVC1
- SVC2

- Support Sych & Asych Motor
- Detachable Control Panel

- Multi-step Freq.
- I/O options
- Precise autotune
- Frequency Binding
- Parameter Copy & Backup
- Flying Start
- Parameter Displayed & Hidden
- Master & Auxiliary command & switchover
- PID
- FDT
- S-curve
- Simple PLC
- 2 Motor Switchover
- Wobble Frequency Control
- Fixed Length Control
- Droop Control
- Skip Frequency
- Count Function
- Preeminent Field-weakening Control
- V/Hz Separated Control
- Common DC Bus
- Over Excitation Brake
- Mechanical Brake
- Restart Upon Power Loss
- Cycle-By-Cycle Current Limit
- Motor Thermal Protection
- Stall Protections
-

FEATURES

Start Torque @0.25Hz
180%

Overload Capability
200%

Speed accuracy \pm
0.2%

Ambient Temp $^{\circ}\text{C}$
50

Speed Regulation
1:200

Torque Response ms
10



Multi-drive Communication

RJ45 port for 485 communication, realizing multi-level networking with network cables, making the connection reliable with strong anti-interference ability.



Easy Commissioning

Support external keypad. Parameters upload & download is available by connecting to the AK 620 & AK 820 keypad with network cable.



High Power Density

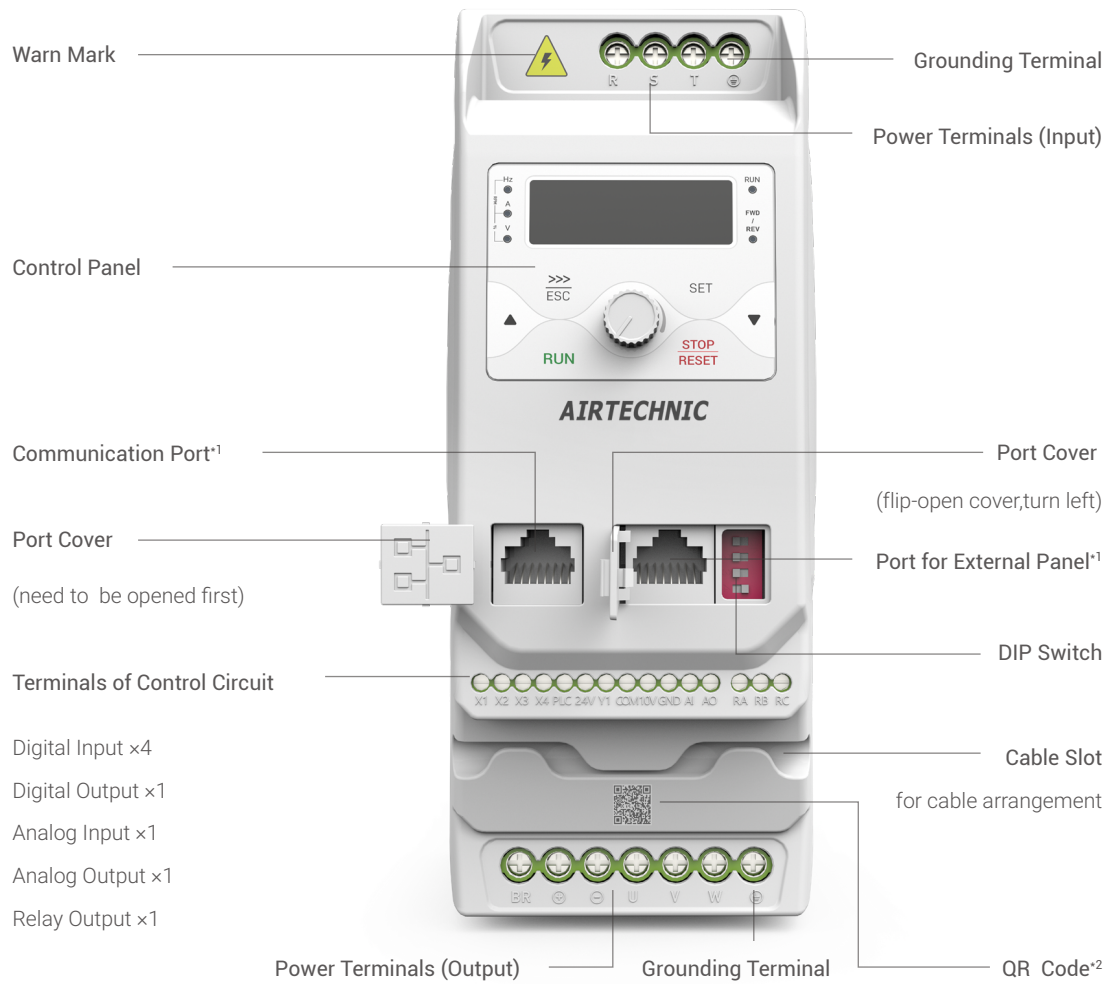
The size of AK 610 is 33% smaller compared with that of the same power range of AK 620. Besides, AK 610 can be installed in parallel seamlessly, without considering the heat dissipation gap, minimizing the cabinet size.



Stable & Reliable

Fully enclosed housing & Isolated heat dissipation tunnel. Extra sleeves in IGBT pins are used to help isolate the dust maximally, guaranteeing the safety and reliability of electronic components.

COMPONENTS



*1: Dual network ports and multi-level 485 communication supported. Standard network cable and maximum communication distance less than 3 meters advised.
 Shielded network cable recommended.
 For multi-level communication, pin definition of the two network ports shall be consistent. For more details, refer to AK 610 User Manual.

*2: Scan to obtain more product information.

MODEL

4T1.5G/2.2LB



B: in-built brake chopper
 L: Light Duty H: Heavy Duty
 T: Triple-phase
 2: 200V 4: 400V

MODEL

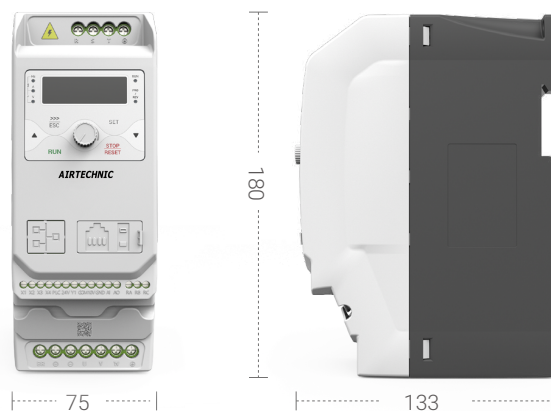
Model	Power Rating (kW)	Rated Output Current (Amps)	Rated Input Current (Amps) ²	Applicable Motor (kW)	Model	Power Rating (kW)	Rated Output Current (Amps)	Rated Input Current (Amps) ²	Applicable Motor (kW)	
2S0.4B	0.4	2.6	5.5	0.4	4T2.2G/3.7LB	H	2.2	5.5	6.0	2.2
2S0.75B	0.75	4.5	9.2	0.75		L	3.7	8.0	10	3.7
2S1.5B	1.5	7.5	18	1.5	4T3.7G/5.5LB	H	3.7	9.0	10.5	3.7
2S2.2B	2.2	10	23	2.2		L	5.5	11	14	5.5
4T0.75G/1.5LB	H 0.75	2.5	3.5	0.75	4T5.5G/7.5LB	H	5.5	13	14.6	5.5
	L 1.5	3.8	5.0	1.5		L	7.5	16	20	7.5
4T1.5G/2.2LB	H 1.5	3.8	5.0	1.5	4T7.5G/11LB	H	7.5	17	20.5	7.5
	L 2.2	4.8	5.5	2.2		L	11	21	25	11

L Light Duty **H** Heavy Duty

DIMENSION

Unit, mm

- The figure showed on the right is the dimension of 4T3.7G/5.5LB and below
- Mounting dimension: 66 × 170.5 × 133
- Support DIN rail wall-mounting
- Dimension of 4T5.5G/7.5L~7.5G/11LB is: WxHxD = 100 × 224.5 × 152.5





Management System
ISO 14001:2015



ISO 9001:2015

ISO 14001:2015

ΚΕΝΤΡΙΚΕΣ ΜΟΝΑΔΕΣ ΚΛΙΜΑΤΙΣΜΟΥ

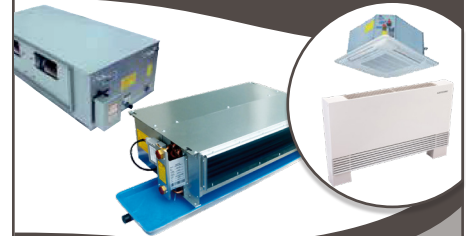


ΕΝΑΛΛΑΚΤΕΣ ΑΕΡΑ - ΑΕΡΑ

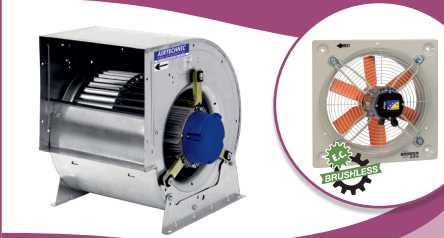


EC MOTORS

FAN COIL UNITS

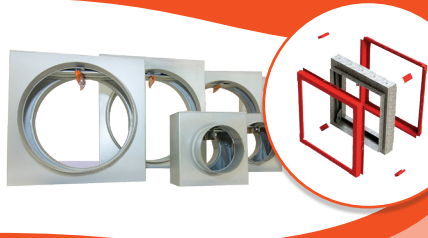


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ΚΕΝΤΡΙΚΗ ΗΛΕΚΤΡΙΚΗ ΣΚΟΥΠΑ



ΤΥΒΟ
THINK CLEAN

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ΦΙΛΤΡΑ



ΑΕΡΟΚΟΥΡΤΙΝΕΣ



ΔΡΟΣΙΣΜΟΣ



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