



Qma
QMA ELECTRIC

QMA Electric (Shanghai) Co., Ltd

TEL: (86 21)5760-3333*861

FAX: (86 21) 5760-3838

Email: qma@usqma.com

Add: 2F, Building No.8, No.115, 1276 Lane,
Nanle Road, Songjiang District,
201611 Shanghai

<http://www.usqma.com>

QMA Electric (Taiwan) Co., Ltd

Tel: 00886-222029000

Fax: 00886-222039000

Address: No. 75-1, South Qionglin Road,
Xinzhuang District, New Taipei City 242

Qma Electric was founded in Oct. 2001 in Taiwan, specialized in researching and developing automation control system and inverters in China. In 2004, we develop an manufacture branch in Shanghai.

We have a professional and competent staff, devoting to the R&D of frequency conversion technology and the integration of application technology. On the basis of advanced skills, with our rich engineering experiences in industrial drive technology and the latest control technique in electrical and electronic fields, we produces inverters specials for elevator and escalator and high-performance universal vector type. The products cover all kinds of specifications between 0.4KW and 315KW , have been successfully applied in many fields, like, elevator, hoisting, draw bench, metallurgy, plastic, machine tool, textile, dyeing, paper making, packaging, printing and water Treatment etc.

From raw material selection, production and processing to quality inspection and load testing, QMA strictly controls every production process, and introduces components from Japan and Europe to ensure stable performance of products. Our company has passed ISO9001:2000 certification and our products have passed CE certification. Our company has always stuck to the solemn promise of "quality for customers".

Our company regards "customer first, prestige first, perfect quality, safety and reliability" as our service philosophy and has opened a hotline to provide users around the world with online support. QMA has been well

recognized by a wide range of customers for our outstanding quality and sincere service. Currently, our company has set up more than 10 marketing organizations and distribution agents in China. Many products are sold to buyers from countries and regions in Southeast Asia, the Middle East, South America and Africa.



Delivering Solutions to Industry.

- Elevators & Escalators
- Plastic Injection Machines
- Textile Machines
- Air Compressors
- Hoist & Cranes
- Print and Packaging

With gradual expansion of the covering field, QMA Electric (Shanghai) Company hopes to be with you hand in hand to create a bright future together.



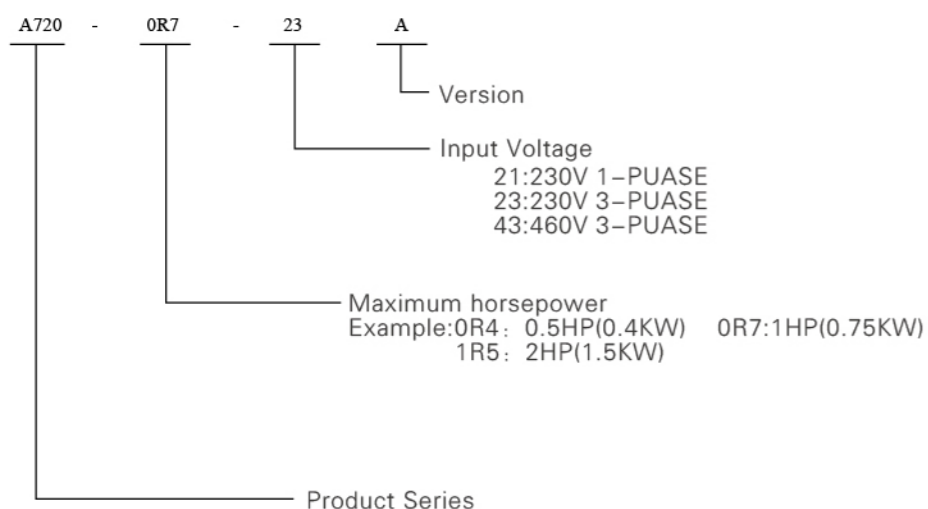
A720 Product Features

Summary

- Compact structure, small size;
- Simple PLC;
- Panel with adjusting knob;
- Silent running with 10KHZ;
- Standard RS 485 communication interface;
- Rich interface;
- Built-in energy consumption brake transistor;
- Low cost and be competitive;
- PID close control



Product specification des



Application field

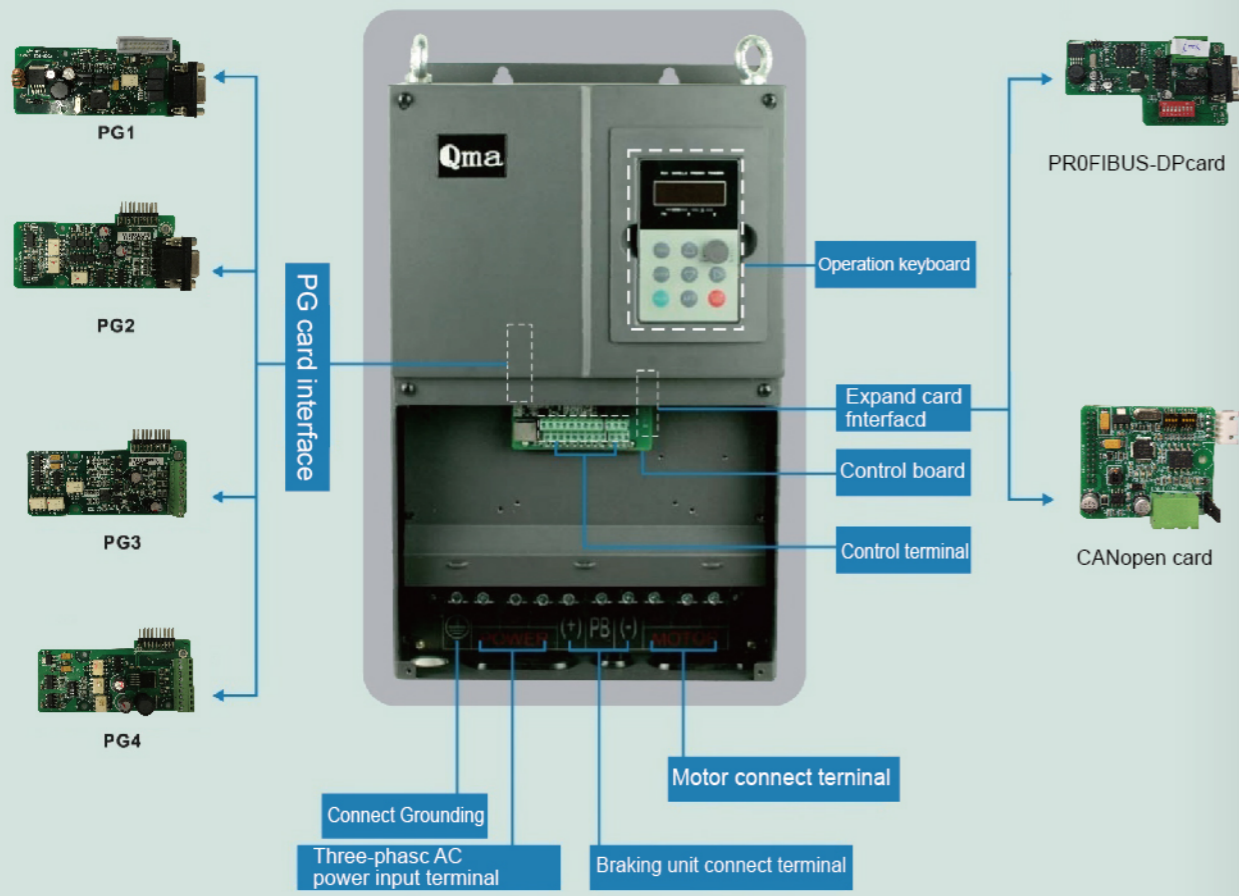
Conveyor and handling machinery, woodworking machinery, a variety of machine tools and processing equipment, all kinds of fan water pump equipment.

For example: Wire walker, instrument truck, Profile extruder, laminating machine, paper and textile machinery etc.

General Specifications

Voltage level		200VAC				400VAC		
A720		0R4	0R7	1R5	2R2	0R7	1R5	2R2
Motor rated output power(KW)		0.4	0.75	1.5	2.2	0.75	1.5	2.2
Motor output horsepower capacity(HP)		0.5	1.0	2.0	3.0	1.0	2.0	3.0
Output	Rated output capacity(KVA)	1.0	1.9	2.7	5.9	2.3	3.1	3.8
	Rated output current(A)	2.3	4.0	7.0	9.6	2.1	3.8	5.1
	The maximum output voltage(V)	Corresponding input voltage						
Personalized function	The highest frequency	V/F control:0~3200Hz						
	Carrier frequency	0.5kHz~10kHz;according to the load characteristics,can be adjusted carrier frequency automatically.						
	The input frequency resolution	Digital setting:0.01Hz:simulation setting:the highest frequency*0.025%						
	Control mode	V/F control						
	Starting torque	0.5Hz/150%(SVC)						
	Speed range	1:1 0 0(SVC)						
	The steady speed precision	+/- .5%(SVC)						
	Overload capacity	150% rated current 60s;180% rated current 3s;						
	Torque boost	Automatic torque boost>manual torque boost0.1%~30.0%						
	V/F curve	Three ways:straight,multi-point type						
	Acceleration and deceleration curve_	linear or S curve acceleration and deceleration mode:four kinds of acceleration and deceleration time;eacceleration and deceleration time range0.0~6500.0s						
	DC brake	DC braking frequency:0.00Hz~the maximum frequency;the braking time:0.0s~36.0s,braking action currentvalue:0.0%~100.0%						
	Motor-driven control	Dynamic frequency range:0.00Hz~50.00Hz;motor-driven acceleration and deceleration time:0.0s~6500.0s						
	Simple PLC,multi-speedoperation	Through the built-in PLC or control terminal to achieve 16 speed at most						
	Built-in PID	Can be convenient to realize closed-loop control of process control system						
	Automatic voltage regulator(AVR)	When the power voltage changes,automatically keep the output voltage constant						
	Overvoltage and over current stall control	Current and voltage automatically be limited during the operation,prevent frequent over-voltage and over-current trip						
	Fast Quick current limiting function	Maximum limit reduce over current faults,protect the inverter operation						
	Torque limit and control	"excavator"characteristics,the automatic torque limit during the operation,prevent frequent over-current trip						
	Power on peripheral equipment safety self-inspection	Can be realized on the peripheral devices safety inspection,such as grounding,short						
Common DC bus function	Can realize multiple inverters of common DC bus function							
Textile swing frequency control	Multiple delta frequency control							
Timing control	Timing control function:set the time range 0h~65535h							

RICH EXPAND CAPACITY



A100 Product Features

Excellent Performance and Function

- Higher rated current design, higher overload current and shorter acceleration time
- Automatically added excitation function during deceleration process , and shorter deceleration time.
- Strong overmodulation capability, at the same input voltage, output voltage is higher .
- Strong overload suppression ability, to ensure that the inverter not shutdown in the maximum output with overload fault.
- Support Modbus



A100

Application field:

Conveyor and handling machinery, woodworking machinery, a variety of machine tools and processing equipment, all kinds of fan water pump equipment.

For example: Wire walker, instrument truck, Profile extruder, laminating machine, paper and textile machinery etc

Voltage level		200VAC	
A100		OR7	1R5
Motor rated output power(KW)		0.75	1.5
Motor output horsepower capacity(HP)		1	2
Output	Rated output capacity(KVA)	1.9	2.7
	Rated output current(A)	4.0	7.0
	The maximum output voltage(V)	Corresponding input voltage	

Picture	Type	Description	Picture	Type	Description
	A1000-PG1	Rotary transformer card 1.10KHz,7V Rms excitation output 2 resolution:12bit 3.DB9 interface 4 no frequency dividing outputting		A1000-PD	PROFIBUS-DP Communication card 1.Own CANlink 2.Own PROFIBUS-DP communication function 3.11KW and above power choosing
	A1000-PG2	UVW difference PG card 1.External 5V power supply 2.Support A,B,Z,U,V,W six difference input signal,A,B input signal can reach 500KHz,A,B input signal can reach 500KHz inputting 3.DB15 interface 4 no frequency dividing outputting		A1000-CANopen	CANopen communication choosing card 1.Support CANopen agreement 2.11KW and above power choosing
	A1000-PG3	Difference PG card 1.External 5V power supply 2.Support A,B,Z,three difference input signal,A,B input signal can reach 500KHz ,A,B input signal can reach 500KHz inputting 3.Encoder connector is terminal			
	A1000-PG4	Open collector PG card 1.External 15V power supply 2.Support A,B,Z,three phase open collector input,A,B input signal can reach 100KHz inputting 3.frequency dividing outputting(1:1 frequency dividing output collection collector opening signal)			



Qma-Inverter Expert on your side!

A3000 Servo Driver

CAN communication

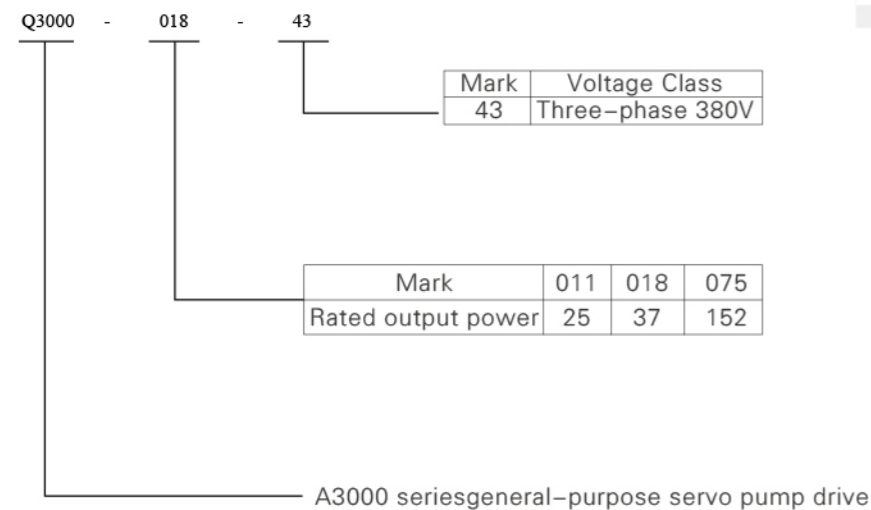
- Change different pump directly, assemble with two sets fast relay
- Multi-section PID adjustment, used for injection/thimble/unlock mold and other separate control
- Compatible with all permanent magnet synchronous motors with rotary encoders on the market
- Compatible with four pressure sensors on the market, 0–20MA / 0–5V / 1–5V / 0–10V
- The built-in dc reactor can improve the anti-interference ability and protect the rectifier bridge, without external filter and save cost.
- Redundant design, perfect protection measures, to ensure that the driver can operate reliably in various operating conditions for a long time.
- The connection, control methods & debugging methods of confluence and shunt are very simple and clear.



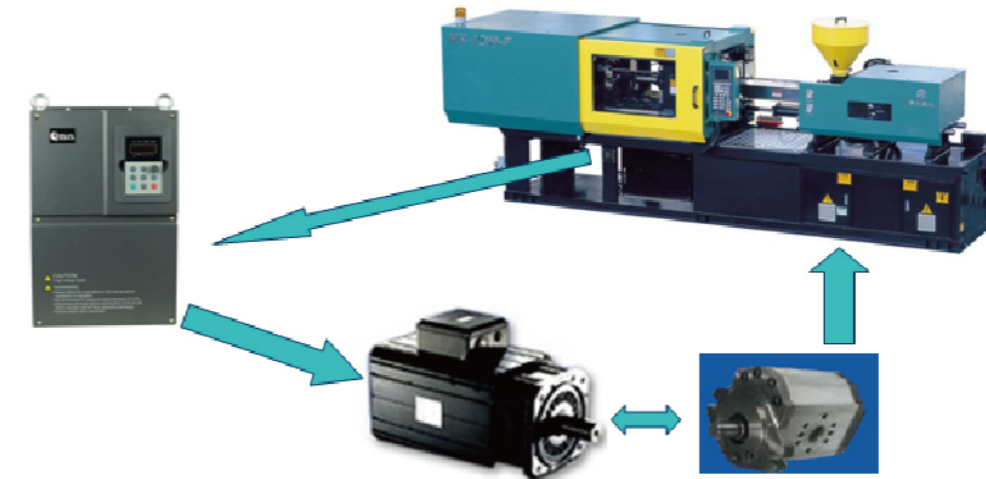
A3000



Product specification des:



For Injection machine application



Model Q9000		Specification										
440V	Motor capacity (HP)	15	20	25	30	40	50	60	75	100	125	150
	Rated power (KW)	11	15	18.5	22	30	37	45	55	75	90	110
	Rated capacity (KVA)	30	39	45	54	52	63	81	97	127	150	179
	Rated current (A)	25	32	37	45	60	75	91	112	150	176	210
Standard functions	Max. frequency											
	Carrier frequency	1 to 8 kHz										
	Input frequency resolution	Digital setting: 0.01 Hz Analog setting: Max. frequency x 0.1%										
	Control mode	Closed-loop vector control (CLVC), voltage/frequency (V/F) control										
	Startup torque	0 Hz/180% (CLVC)										
	Speed range	1:1000 (CLVC)										
	Speed stability accuracy	± 0.02% (CLVC)										
	Torque control accuracy	± 5% (CLVC)										
	V/F curve	Straight-line V/F curve										
	Ramp mode	Straight-line ramp										
Overload capacity	• 60s for 150% of the rated current • 3s for 180% of the rated current											
	Motor overheat protection	• PTC temperature protection										
Encoder type	• Supporting resolver and ABZ optical encoder											
Protective functions	Protections	Motor short-circuit detection at power-on, input/output phase, loss protection, overcurrent protection, overvoltage protection, undervoltage protection, overheat protection and overload protection										
Communication	Modbus	Supports the Modbus-RTU protocol.										
	CAN	Supports the CANopen protocol and the CANlink protocol.										
Environment	Installation location	Install the A3000 servo drive where it is indoors and protected from direct sunlight, dust, corrosive or combustible gases, oil smoke, vapour, ingress from water or any other liquid, and salt.										
	Altitude	Below 1000 m (de-rated if the altitude is above 1000 m)										
	Ambient temperature	- 10°C to 40°C (de-rated if the ambient temperature is between 40°C and 50°C)										
	Humidity	Less than 95 % RH, non-condensing										
	Vibration	Less than 5.9 m/s ² (0.6 g)										
	Storage temperature	- 20°C to 60°C										
IP level	IP20											