

QMA ELECTRIC

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QMA ELECTRIC

Product introduction

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.





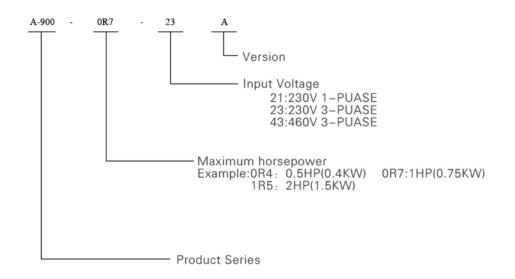
A900 Product Features

Summary

- Output frequency:0-500HZ
- Two control way:SVC / VF Control
- Start Torque: No PG vector control 0.5HZ/150% (SVC)
- Automatic voltage adjustment, when the network voltage changes, it can automatically maintain a constant output voltage
- 16 section speed control and easy PLC, PID control function, swing frequency, fixed length control function
- Programmable multi-function 5 channels digital input, 2 channels analog input, 1 channel relay output, 1 channel open collector output
- RS485 Serial communication interface, standard Modbus communication agreement
- · External LED keypad provided.



A900



Application field:

Textile machinery, plastic machinery, food machinery, electrical machinery, CNC machine tools, ceramic machinery, rubber machinery, pharmaceutical machinery, printing machinery, wire drawing machine and so on

General Specifications

Motor capacity (HP)		Model A900											Sr	peci	ficat	ion														
Rated power (KW)		Motor capacity (HP)	0.5	1	2	3	5	7.5	10	15	20	25	_				75	100												
Rated capacity (KVA)	N		0.4	0.75	1.5	2.2		_		-	-		22	30	37	45	55	75												
Rated current (A)	201	Rated capacity (KVA)	_					-			-				114	134	160	231												
Motor capacity (HP)	_		2.1		-			-	_	-	$\overline{}$	75	-	_			210	304												
Rated power (KW)							_	-	-	-	$\overline{}$		-						120	150	180	200	170	300	340	380	428			
Maximum frequency	ယ္			-				-		-	$\overline{}$							_	$\overline{}$		-	_	-	-	-		-			
Maximum frequency	8							_		-	\vdash		-					_	$\overline{}$		_	_	-	_	-		_			
Maximum frequency VF control: 0–500Hz; vector control: 0–500Hz (High frequency version 3200Hz VI Carrier frequency Input frequency resolution Digital setting: 0.01Hz Analog setting: Maximum frequency x 0.025% Digital setting: 0.01Hz Analog setting: Maximum frequency x 0.025% Start torque Open-loop vector control (SVC)/VF control Open-loop vector control (SVC)/VF control Start torque Open-loop vector control (SVC)/VF control Op	`				_	_		-	_	_	$\overline{}$										-				-		_			
Carrier frequency 0.5kHz-6kHz; carrier frequency can be adjusted automatically according to the lost characteristics. Input frequency resolution Digital setting: 0.01Hz Analog setting: Maximum frequency × 0.025%		Maximum frequency	\//					_					ntro	ol. U	-50	OH-	7 (H	iah	fren	Her)CV	vers	sion	320	OH.	7 \/F	=)			
Input frequency resolution Control mode Copen-loop vector control (SVC)/VF control Safet torque Speed regulation range 1:100/SVC) Speed regulation range 1:100/SVC) Speed regulation range 1:100/SVC) Steady speed accuracy Overload capacity Torque boost Automatic torque boost; manual torque boost 0.1%—30.0% VIF curve Acceleration/decleration curve Cormon DC bark DC braking frequency: 0.00Hz—maximum frequency; praking time: 0.0s—36.0s; braking acction current value: 0.0%—100.0% Simple PLC and preset speed running Bullt—in PID Bullt—in PID It can conveniently realize the process closed—loop control system Automatic voltage and overcurrent sellus in the voltage and overcurrent sellus current sellus in the voltage and overcurrent sellus current form causing overvoltage tripping Rapid current limit function Torque limit and control Torque limit and control Torque limit and control Textle wobble control Running command channel Frequency source Auxiliary frequency source Auxiliary frequency source Auxiliary frequency source Timed control Timed control Auxiliary frequency source Auxiliary frequency source In case of voltage sources in total: Numeric setting, enable with the maximum value up to 100KHz. 3 analog input terminal Output terminal Output terminal Operation place In case of voltage running can be realized through built—in PLD Timed control Timed control of the running command channel Frequency source Frequency source Frequency source Timed control of the running command channel Frequency of the running command channel Tim			0.5	5kHz	z–8	kHz	z; ca	arri	er f	req	ue	ncy	cai	n be	ad	uste	ed a	uto	mat	ical	ly a	1000	din	g to	the	loa	d			
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Start torque Speed regulation range 1:00(SVC) Steady speed accuracy 2:0.5%(SVC) Overload capacity 1:05% rated current for 60s; 180% rated current for 3s. Torque boost VIF curve Three modes: Linear; multipoint: Acceleration/decleration curve DC brake DC braking frequency; 0.00Hz-maximum frequency; braking time: 0.0s-36.0s; braking action current value: 0.0%-10.0%-10.0%-10.0% Simple PLC and preset speed running or control function Simple PLC and preset speed running or control function: Simple PLC and preset speed running or control function: Simple PLC and preset speed running or control function: Simple PLC and preset speed running or control function: Torque limit and control Rapid current limit function Torque limit and control Safety self-inspection of peripheral equipment upon power on Common CC bus function Textle wobble control Running command channel Frequency source Auxiliary frequency source Auxiliary frequency source In frequency source Auxiliary frequency source Output terminal Output terminal Operation place 1.05%(SVC) Automatically self-inspective for peripheral equipment upon to frequency on the foreign and fre			Open-loop vector control (SVC)//VF control																											
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Operation place Indoor, without direct sunlight, dust, corrosive gas, flammable gas, oil mist, vapor, water drop or salt, etc. Altitude Lower than 1000m Ambient temperature Humidity Lower than 95%RH, no water condenses Vibration Indoor, without direct sunlight, dust, corrosive gas, flammable gas, oil mist, vapor, water drop or salt, etc. Lower than 1000m Lower than 95%RH, no water condenses Less than 5.9m/s²(0.6g)																									etti	ng				
water drop or salt, etc. Altitude Lower than 1000m Ambient temperature — 10°C – +40°C (ambient temperature is within 40°C – 50°C, it must be derated) Humidity Lower than 95°RH, no water condenses Vibration Less than 5.9m/s²(0.6g)	Ш	Operation place	Ind	door	, w	ithc	ut	dire	ct	sur															, va	oor,				
Ambient temperature —10°C-+40°C (ambient temperature is within 40°C-50°C, it must be derated) Humidity Lower than 95% RH, no water condenses Vibration Less than 5.9m/s²(0.6g) Storage temperature	₹.		_					_																						
Humidity Lower than 95% RH, no water condenses Vibration Less than 5.9m/s²(0.6g) Storage temperature	0									to	mr	oro	tur	o ic	\A/i+	hin 4	10%		n%	it r	muc	t bo	do	rato	d)					
Vibration Less than 5.9m/s²(0.6g)	3															1111 4	+0 (,-5	<i>U</i> C,	ıt í	nus	LDE	ue	iate	u)					
Storage temporature 20°C ±60°C	10										, at	J, U	J110	a 0116	555															
-20 C-+00 C	#	Storage temperature																												

02 03



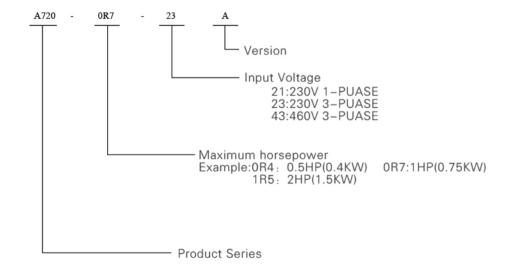
A720 Product Features

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								
М	otor rated output power(KW)	0.4	0.75	1.5	2.2	0.75	1.5	2.2								
Moto	or output horsepower capacity(HP)	0.5	1.0	2.0	3.0	1.0	2.0	3.0								
0	Rated output capacity(KVA)	1.0	1.9	2.7	5.9	2.3	3.1	3.8								
Output	Rated output current(A)	2.3	4.0	7.0	9.6	2.1	3.8	5.1								
Š	The maximum output voltage(V)	Coi	rresponding in	out voltage	l											
	The highest frequency	V/F contr	ol:0~3200H	z												
	Carrier frequency	0.5kHz~10		ng to the load	l characterist	ics,can be adj	usted carrier	frequency								
	The input frequency resolution	Digital set	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 0 0(SVC)													
	The steady speed precision	+/5%	(SVC)													
	Overload capacity	150% ra	ted current	60s;180% r	ated currer	nt 3s;										
	Torque boost	Automat	ic torque bo	ost:manual	torque boo	st0.1%~30.	0%									
	V/F curve	Three wa	ays:straight,	multi-point	type											
	Acceleration and	linear or S	curve accel	eration and	deceleration	mode:four ki	inds of accel	eration and								
	deceleration curve_					ration time r										
	DC brake	DC braking frequency:0.00Hz~the maximum frequency;the braking time:0.0s~36.0s,braking action currentvalue:0.0%~100.0%														
Pers	Motor-driven control	Dynamic frequency range:0.00Hz-50.00Hz;motor-driven acceleration and deceleration time:0.0s~6500.0s														
Personalized function	Simple PLC,multi-speedoperation	Through	Through the built-in PLC or control terminal to achieve 16 speed at most													
<u>8</u>	Built-in PID	Can be convenient to realize closed-loop control of process control system														
func	Automatic voltage regulator(AVR)	When the	power volta	ige changes,	automatical	ly keep the o	utput voltage	e constant								
g	Overvoltage and over current stall control		nd voltage au tage and ov			uring the ope	ration,preve	nt frequent								
	Fast Quick current limiting function	Maximur	m limit redu	ce over curr	ent faults,	protect the ir	verter oper	ation								
	Torque limit and control	1	or"character over-curre		tomatic tord	que limit durir	ng the operat	tion,prevent								
	Power on peripheral equip ment safety self-inspection				vices safety	inspection,su	ch as ground	ing,short								
	Common DC bus function	Can reali	ze multiple i	nverters of	common D	C bus funct	ion									
	Textile swing frequency control	Multiple delta frequency control														
	Timing control	Timing c	ontrol functi	on:set the t	ime range	0h~65535h										

04



Product introduction

A1000 Product Features

Excellent Performance and Function

• Output frequency:0-500HZ;

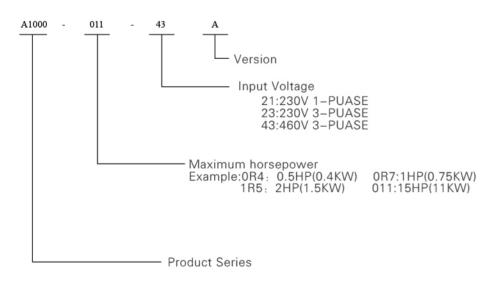
QMA ELECTRIC

- · Power Range: 0.4KW-450KW;
- Three control way: No PG Vector control (SVC) / VF Control /Close loop vector control (FVC);
- · Start Torque: No PG vector control 0.5HZ/150% (SVC);
- · Automatic voltage adjustment, when the network voltage changes, it can automatically maintain a constant output voltage;
- · 16 section speed control and easy PLC, PID control function, swing frequency, fixed length control function;
- Programmable multi-function 5 channels digital input, 2 channels analog input, 1 channel relay output, 1 channel open collector output;
- RS485 Serial communication interface, standard Modbus communication
- External LED keypad provided, rich expansion board interface;
- · PM Mptor , IPM Motor control;
- · Still can work with instant power failure;



A1000

Product specification des:

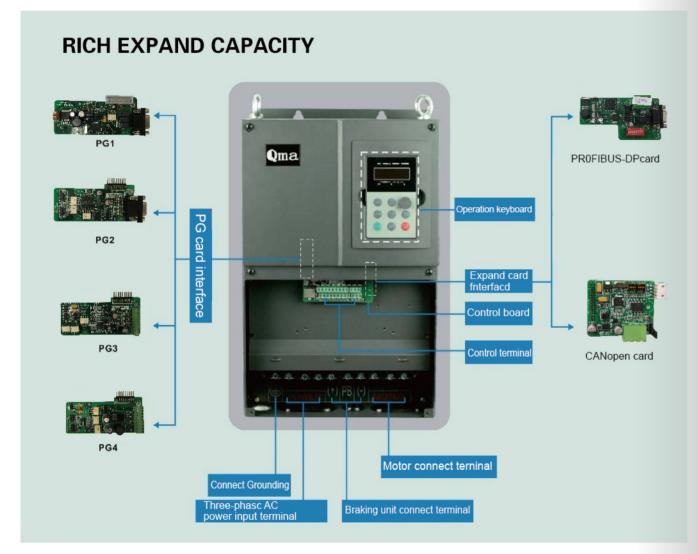


General Specifications

_									_																	
	Model A1000								S	Spec	ificat	ion														
	Motor capacity (HP)	1.0 2.0 3.0	5.0 5	7.5	10	15 2	20 2	5 3	30	40	50	60	75	100												
123	Rated power (KW)	0.75 1.5 2.2	3.7 3.7	5.5	7.5	11 1	5 18	3.5 2	22	30	37	45	55	75												
220V	Rated capacity(KVA)	4.0 7.0 9.0	8.9 8.9	17	21	30 4	10 5	i7 (6	69	85	114	134	160	231												
	Rated current(A)	3.8 4.8 9.0	13 13	25	32	45 6	0 7	5 9	91	112	150	176	210	304									П			
	Motor capacity(HP)	1.0 2.0 3.0	_	-	_	15 2	-	5 3	30	40	50	60	75	100	120	150	180	200	270	300	340	380	428			
ယ္အ	Rated power(KW)	0.75 1.5 2.2	_	+	-	-	-	3.5 2	\rightarrow	30	37	45	55	75	-			_	_	220			_			
380V	Rated capacity(KVA)	1.5 3.0 4.0	_	-	-	-	-	-	\rightarrow	40	57	69	85	-	$\overline{}$	-	_	_	-	280	_	_	-			
	Rated current(A)	2.1 3.8 5.1	_	+	_	-	-	-	45	$\overline{}$	75	-								426						
	Maximum frequency	V/F control:										01	112	100	170	210	200	304	577	420	310	520	500			
	Carrier frequency	0.5kHz-8kH																the	load	char	acte	ristic	cs.			
	Input frequency resolution	Digital settir									xim	um f	requ	ency	/ ×(0.02	5%									
	Control mode Start torque	Open-loop 0.5Hz/150%			trol	(SVC	.)//VH	- co	ntr	OI																
	Speed regulation range	1:100(SVC)	1310	1,																						
	Steady speed accuracy	± 0.5%(SV0	2)																							
	Overload capacity	150% rated		nt fo	r 60	s; 18	0%	rate	ed c	curre	ent f	or 3s	3.													
	Torque boost	Automatic t						rque	e bo	oost	0.1	%-3	30.0°	%												
	V/F curve	Three modes: Linear; multipoint; Linear or S curve acceleration/deceleration mode; four groups of acceleration/deceleration time,																								
Acceleration/decleration curve with the range 0.0 – 6500.0s																										
Sal	current value: 0.0% – 100.0%												11													
ă	JOG control Jog frequency range: 0.00Hz–50.00Hz; Jog acceleration/deceleration time 0.0s–6500.0s Simple PLC and preset speed Maximum 16 sections of preset speed running can be realized through built–in PLC or conti																									
<u>F</u>	Simple PLC and preset speed		6 sect	ions	of p	rese	t sp	eed	ru	nnin	ig ca	in be	rea	lized	thro	ugh	buil	t–in	PLC	or c	ontr	ol				
8	running Built–in PID	It can conve	nientl	v roa	محنا	the r	oroce	222	clo	has	_loc	n co	ntro	l eve	tem								_			
₹	Automatic voltage adjustment	In case of v																altaa		noto	nŧ					
₹	(AVR)																									
3	Overvoltage and overcurrent stall control	Automatical causing ove					and	curr	ren	t au	ring	runn	iing	to pr	ever	nt tre	eque	ent o	verc	urrer	it irc	om				
	Rapid current limit function	Minimize ov	ercuri	ent f	fault	to e																				
	Torque limit and control	With characteristics of "excavator", automatically restrict the torque during running to frequent overcurrent from causing overvoltage tripping														ıt										
	Safety self-inspection of peripheral equipment upon power on	The inverter can carry out safety detection against peripheral equipment upon power on, such as grounding, short circuit.															;									
	Common DC bus function	Common D											nver	ters.												
	Textile wobble control Timed control	Multiple tria Timed contr																								
		3 channels:												ng, s	erial	com	mur	nicat	ion	oort :	settii	ng,				
	Running command channel	which can b																								
	Frequency source	10 frequence setting, seri															anal	og c	urrei	nt se	tting	, pul	se			
	Auxiliary frequency source	10 kinds of	auxilia	ry fre													gano	d fre	quer	ncy s	ynth	esis	of			
	Administration source	auxiliary free 6 numeric ir			ale.	one	of th	nam	2 00	n h	0 116	ad a	e hic	h_n	ulea	innı	ıt va	ith t	ho n	navin	num	valu	10			
Z	Input torminal	up to 100KH	z.																							
Running	Input terminal	3 analog inp current inpu	t.																							
ng		One high-s wave signal output frequ	outpu	ıt. İt	can	realiz																	1			
	Output terminal	1 numeric o				S																				
		2 Relay output terminals 2 analog output terminal. 0/4mA–20mA or 0/2–10V optional respectively. Setting frequency, output													out											
		frequency a	nd ph	/sica	I qu	antity	out	tput	ca	n be	e rea	lizec	i.		·				_							
Environment	Operation place	Indoor, with salt, etc.			sunl	ight,	dus	t, cc	orro	sive	e gas	s, fla	mm	able	gas,	oil r	nist,	vap	or, v	vate	dro	p or				
2	Altitude	Lower than				0000	ot:	a ia		hin	1000	` E0	· ^ ·	+	ot b	م دا د	rote	4)								
3	Ambient temperature Humidity	-10°C-+40									40 (-50	, U, I	ımı	IST D	e ae	iate	u)								
3	Vibration	Lower than 95%RH, no water condenses Less than 5.9m/s²(0.6g)																								
	Storage temperature	-20°C-+60																								

Qma

QMA ELECTRIC



Picture	Туре	Description	Picture	Туре	Description
	A1000-PG1	Rotary transformer card 1.10KHz,7V Rms excitation output 2 resolution:12bit 3.DB9 interface 4 no frequency dividing outputting			PROFIBUS-DP Communi- cation card 1.Own CANlink
, down	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-PD	2.Own PROFIBUS—DP communication function 3.11KW and above power choosing
11 11 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	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	CANopen communication choosing card 1.Support CANopen
, and the second	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)	6	-CANopen	agreement 2.11KW and above power choosing

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	r(KW)		0.75	1.5		
Motor output horsepowe	r capacity(HP)		1	2		
	Rated capacity(KVA)	output	1.9	2.7		
Output	Rated current(A)	output	4.0	7.0		
	The maximum voltage(V)	output	Corresponding i	nput voltage		



Qma-Inverter Expert on your side!

Q9000 Hi–Performance Vector Inverter for General Purpose

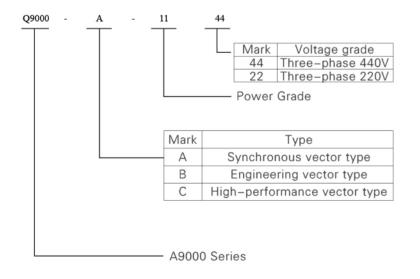
Excellent Performance and Function

- Standard internal PID feedback control, precise close-loop control
- Energy-saving operation function
- 4 control modes are provided:V/F control without PG; V/F control with PG;Flux Vector control;Vector Control with PG.
- User-friendly operator display(16*2 Characters)
- Full-scale flux vector control inverter which directly controls the direct current that results in the motor torque.
- RS485 Serial communication interface, standard Modbus communication agreement
- · Low noise, low cost for end user



Q9000

Product specification des:



General Specifications

	Mode	el Q9000									S	oecific	cation	1									
М	otor ca	apacity (HP)	3	5	7.5	10	15	20	25	30	40	50	60	75	100	150							
-		ower (KW)	2.2	3.7	5.5	7.5	11	15	18.5	22	30	37	45	55	75	100							
~ ~																							
`		apacity (KVA)	4.2	6.7	9.5	13	19	24	30	37	50	61	70	85	110		_		_		_		
Ra	ated cu	urrent (A)	11	17.5	25	33	49	64	80	96	130	160	183	224	300	450							
Me	otor ca	apacity (HP)	3	5	7.5	10	15	20	25	30	40	50	60	75	100	120	150	180	200	270	300	340	40
8 Ra	ated po	ower (KW)	2.2	3.7	5.5	7.5	11	15	18.5	22	30	37	45	55	75	90	110	132	160	185	220	250	31
Ra Ra	ated ca	apacity (KVA)	4.7	6.1	11	14	21	26	26	37	50	61	73	98	130	150	170	202	230	260	340	370	46
		urrent (A)	6.2	8	14	18	27	34	34	48	65	80	96	128			224						-
110					-				460V							100	224	204	302	340	450	310	0.
Power		Rated Voltage and Fro Allowable Voltage flu				e pn %∼1		30U~	460 V	/ 220) V ~ Z	40V,	חטכ	Z/OUF	1Z,								
Supply		Allowable Frequency	ctuat	1011	+10	70 ~ I	5 76																
		fluctuation			± 59	%																	
					Sine	wav	e PV	VM c	lvnan	nic c	urren	t vec	ctor c	ontro	ol (wi	th V/	F co	ntrol	Tora	ue ve	ector		
		Control mode			Sine wave PWM dynamic current vector control (with V/F control Torque vector control,PG feedback control)																		
Control		Speed control accura	су		± 0.2%																		
Features	s	Speed control range			1:100 nominal, 1:1000 With PG																		
		Speed control respon	se		10Hz nominal, 30Hz with PG																		
		Start torque			150%/0.5Hz nominal,200%/0Hz(W/PG)																		
		Torque response			[40Hz, 25ms with PG]																		
		Torque response			20Hz 50ms																		
		Torque accuracy			15% 4 kinds of vector control methods by parameter setting																		
		Torque limit						tor c	ontro	l me	thod	s by	parai	mete	r set	ting							
		Frequency controlling	rang	ge		~400							_										
		Frequency accuracy			_				ence:														
	Frequency setting res			_		gnal ı	efer	ence:	± 0.	01Hz	(Belo	ow 10	00Hz),ana	logue	e refe	erend	ce: ±	0.031	Hz/60)Hz(1	2b	
		Output frequency res		on	0.00											===:							
		Frequency setting sig	gnal Analogue reference DC-10~+10V(20K0).4~20Ma(2502) +20%(approximately 150%with braking resistor option)																				
		Braking torque			0.01-6000.0s(Accelerating/Decelerating time setting independently.4 kinds of time																		
		Accelerating/decelera	ting	time	controlling modes available)															ne			
		Overload capability			150% of Rated torque current for 60s,200% of rated torque current for 10s																		
		Communication			Rs-485																		
Protectiv		Communication			Operator,RS-485,Control circuit terminal(frequency setting and parameter access																		
Function	٦	Running/stopping set		control available by computer)																			
		A 55'11'- 4 1 4 1 5			Parameter save operator,RS-485,torque control,speed control,PID																		
		Affiliated control fund	tion		control,multiple-speed control,couple control,etc.																		
		Instantaneous Overe	urren	t	Motor coasts to stop at approx.200%rated output current. Electronio thermodynamic electric protection																		
		Motor overload prote	ction		Elec	troni	o the	rmo	dynar	nic e	lectr	ic pro	otect	ion									
		Fuse protection			Motor coasts to stop																		
		Momentary power lo	SS		Continue to run during power loss less than 28(standard)																		
		Overload			150% of rated output current for 608,200% of rated output current for 10s,motor coasts														sts				
		O			to stop Motor coasts to stop if the main circuit voltage exceeds 820 V																		
		Overvoltage																					_
		Undervoltage Fin Overheat							op if						urop	ร เบ	3001						
		Stall provention							iring a						n and	d con	etan	t sne	ed o	nerat	tion		
		Grround fault							ronio			OI I/ Ut	BUBIC	atio	II all	COI	istari	ı əpe	eu o	perai	LIOIT		
		Power charge protect	tion						main			ltage	read	ches	50 V								
		Ambient temperature				-			mal t			9											
		Ambient humidity							n-co		sing)											
							bratic				elov	/ 20 H	Iz,2	m/a2	(0.20	3)at a	vibr	ation	freq	uenc	y		
Environn	ment	Vibration			/e20																		
		Applicable places	Indo	or(Pr	otec	ted f	rom (corro	sive	gass	es ar	nd du	st)										
		Storage temperature				℃~+	65C	for s	hort	perio	d du	ring s	shipp	ing)									
		Altitude environment	ters	or lov	wer																		

10



Product introduction

A3000 Servo Driver

CAN communication

QMA ELECTRIC

- · 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
- · The connection, control methods & debugging methods of confluence and shunt are very simple and clear.

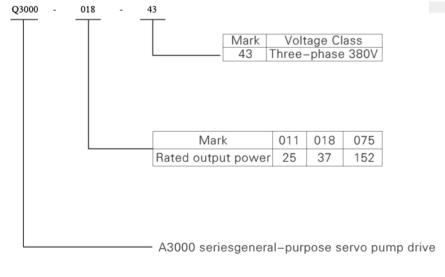


A3000

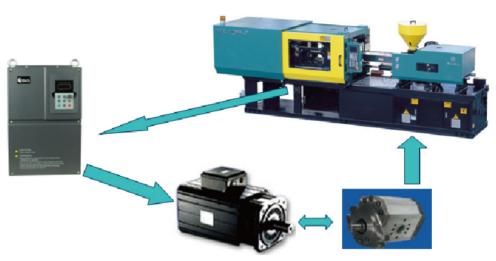




Product specification des:



For Injection machine application



Mo	del Q9000					Spec	cification								
	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			
440V	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			
	Max. frequency														
	Carrier frequency	1 to 8 kl	Ηz												
	Input frequency	Digital setting: 0.01 Hz													
	resolution	Analog setting: Max. frequency x 0.1%													
St	Control mode	Closed-	loop ve	ctor contro	ol (CLVC)	, voltage,	frequenc	y (V/F) co	ontrol						
Standard functions	Startup torque	0 Hz/18	30% (Cl	_VC)											
dard	Speed range	1:1000 (CLVC)												
f	Speed stability accuracy	± 0.02%	(CLVC)											
ncti	Torque control accuracy	±5% (CLVC)												
ons	V/F curve	Straigh	t-line V	/F curve											
	Ramp mode	Straight	-line rar	mp											
	Overload capacity	60s for 150% of the rated current													
	Overload capacity	3s for 180% of the rated current													
	Motor overheat protection														
	Encoder type	Supporting resolver and ABZ optical encoder													
Protective		Motor s	hort-cir	cuit detec	tion at po	ower-on,	input/ou	tput phas	e,loss pro	otection,	overcurre	nt			
functions	Protections	protection	on, over	voltage pr	otection,	undervol	tage prote	ection, o	erheat pr	otection	and overl	oad			
Tariotionio		protection													
Communication	Modbus	- · · -		odbus-RT											
	CAN			ANopen pr											
	Installation location	l		0 servo dri						-		corrosive			
				gases, oil :					r any oth	er liquid,	and salt.				
E	Altitude			de-rated i											
Environment	Ambient temperature			de-rated if			perature	is betwee	en 40°Car	nd 50°C)					
l j	Humidity			RH, non-		ing									
ent	ViPBation			/s² (0.6	g)										
	Storage temperature	- 20°Ct	0 60℃												
	IP level	IP20													