

01-7

MA610 Series

(2HP ~ 20HP) 220V/380V



Applications

- فن • Fan
- پمپ • PUMP
- جرثقیل • Crane
- میکسر • Mixer
- نوار نقاله • Conveyor
- سی ان سی • CNC
- موتور اسپیندل • The spindle motor
- صنعت سنگبری • Stone Industry
- صنعت نساجی • Textile Industry

www.famcocorp.com

E-mail: info@famcocorp.com

@famco_group

Tel: ۰۲۱-۴۸۰۰۰۰۴۹

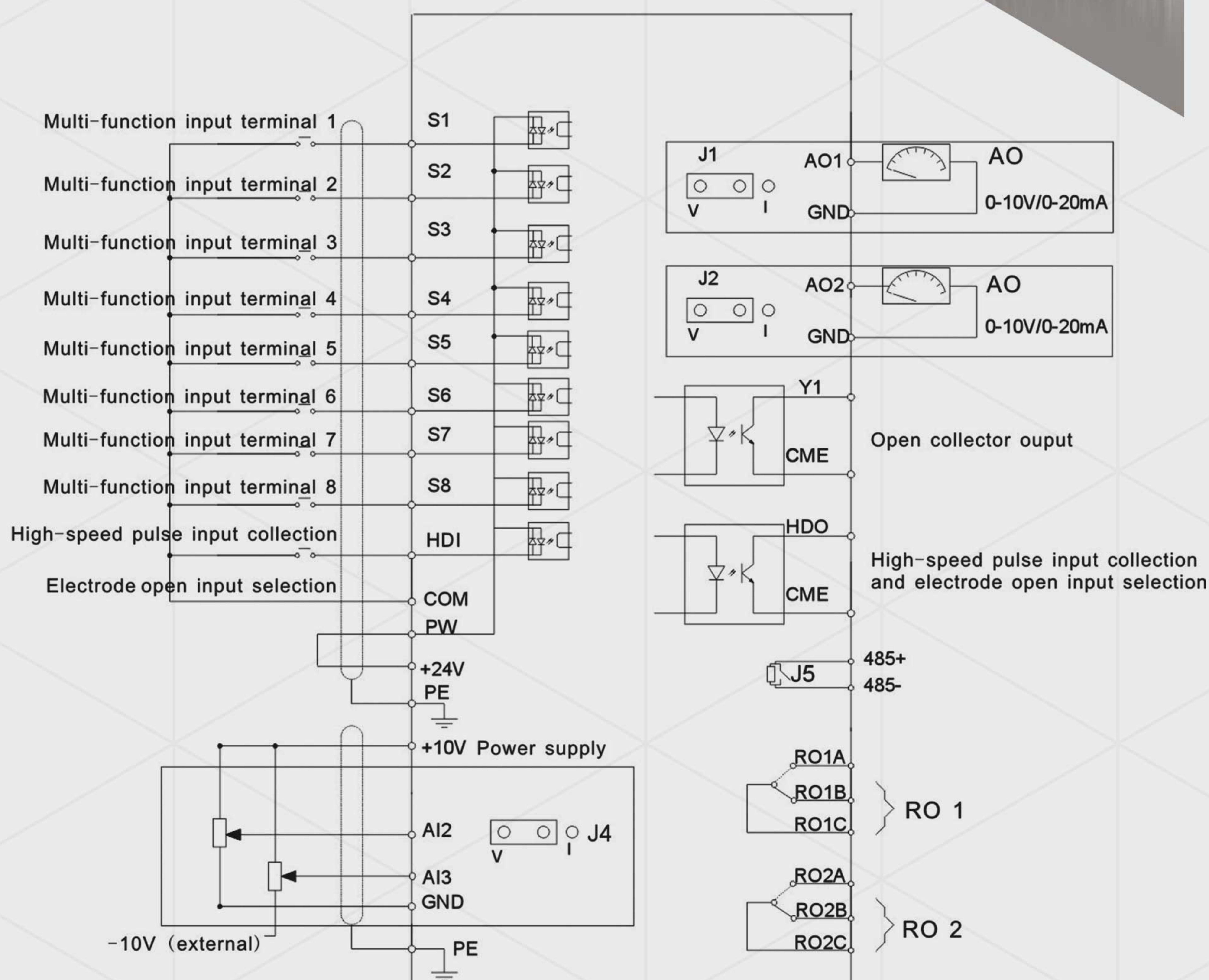
Fax: ۰۲۱-۴۴۹۹۴۶۴۲

تهران، کیلومتر ۲۱ بزرگراه لشگری (جاده مخصوص کرج)

روبروی پالایشگاه نفت پارس، پلاک ۱۲



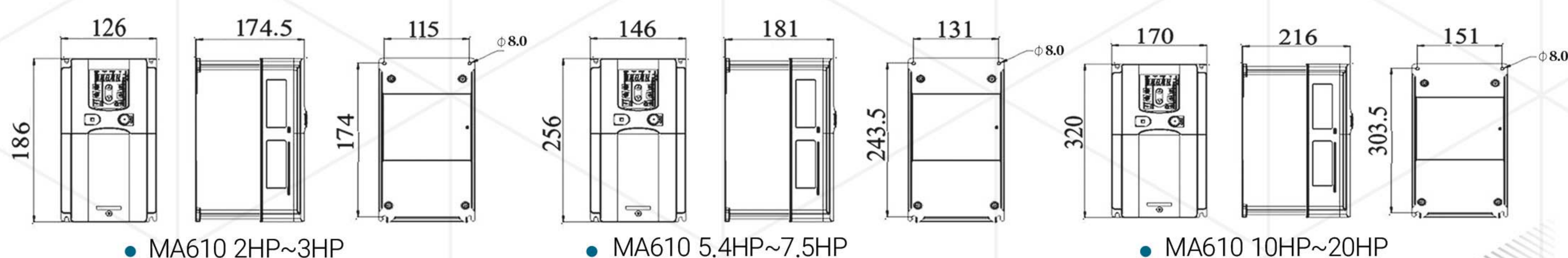
▶ Wiring Diagram



General Specification

Item		MA610 Type	
Input	Input voltage(V)	AC 3PH 220V(-15%)~240V(+10%) AC 3PH 380V(-15%)~440V(+10%) AC 3PH 520V(-15%)~690V(+10%)	
	Input frequency(HZ)	50HZ or 60HZ Allowed range:47~63HZ	
Output	Output voltage(V)	0~Input voltage	
	Output current(A)	Refer to the rated value	
	Output power(KW)	Refer to the rated value	
	Output frequency(HZ)	0~400HZ	
Technical control feature	Control mode	SVPW M,SVC	
	Motor type	Asynchronous motor	
	Speed ratio	Asynchronous motor 1:100(SVC)	
	Speed control accuracy	±0.2%(sensorless vector control)	
	Speed fluctuation	±0.3%(sensorless vector control)	
	Torque response	<20ms(sensorless vector control)	
	Torque control accuracy	10%(sensorless vector control)	
	Starting torque	Asynchronous motor:0.5HZ/150%(SVC)	
	Running control feature	Overload capability	G type: 150% of rated current:1 minute 180% of rated current:10 seconds 200% of rated current:1 second
		Frequency setting	Digital setting,analog setting,pulse frequency setting,multi-step speed running setting,simple PLC setting,PID setting,MODBUS communication setting. Shift between the set combination and set channel.
Auto voltage adjustment		Keep a stable voltage automatically when the grid voltage transients	
Fault protection		Provide over 30 fault protection functions: overcurrent,overvoltage,undervoltage,overheating,phase loss and overload,etc.	
Peripheral	Speed tracking	Restart the rotating motor smoothly Note:This function is available for the inverters of 4KW and above 4KW.	
	Terminal analog input	≤20mV	
Interface	Terminal switch input resolution	≤2ms	
	Analog input	1 channels(AI2) 0~10V/0~20mA and 1 channel(AI3) -10~10V	
	Analog output	2 channels(AO1,AO2) 0~10V/0~20mA	
	Digital input	8 channels common input,the Max.frequency: 1KHZ, internal impedance:3.3KΩ; 1 channel high speed input,the Max.frequency:50KHZ	
	Digital output	1 channel high speed pulse output,the Max.frequency:50KHZ; 1 channel Y terminal open collector pole output	
	Relay output	2 channels programmable relay output RO1A NO,RO1B NC,RO1C common terminal RO2A NO,RO2B NC,RO2C common terminal Contactor capability:3A/AC250V,1A/DC30V	
Others	Mountable method	Wall,flange and floor mountable	
	Temperature of the running environment	-10~50°C,derate above 40°C	
	Ingress protectin	IP20	
	Cooling	Air-cooling	
	Braking unit	Built-in braking unit for inverters below 30KW(including 30KW) External braking unit for others	
	EMC filter	Built-in C3 filter:meet the degree requirement of IEC61800-3 C3 External optional filter:meet the degree requirement of IEC61800-3 C2	

Dimensions (mm)



► Technical Specifications

- Increase torque boost up to 150% at 0.5HZ
- افزایش گشتاور تا ۱۵۰٪ در فرکانس ۰/۵ هرتز
- Tension control capability
- مد تخصصی تنش (کنترل گشتاور)
- Pulse input & output up to 50KHZ
- دارای ورودی و خروجی پالس تا فرکانس ۵۰ کیلوهرتز
- V/F and Sensor Less Vector control modes
- مدهای کنترلی V/F و Sensor Less Vector
- Modbus Built-in and RS485 communication
- دارای شبکه صنعتی Modbus (ASCII & RTU) و قابلیت برقراری ارتباط RS485
- It is possible to use two separate keypads at the same time
- قابلیت استفاده از دو صفحه کلید به طور همزمان
- It has an external and removable keypad
- دارای صفحه کلید خارجی و قابل جدا شدن
- Equipped with an external volume on the keypad
- دارا بودن ولوم روی صفحه کلید
- Specialized parameters for pump applications
- پارامترهای تخصصی پمپ
- Maximum output frequency up to 600HZ
- حداکثر فرکانس خروجی تا ۶۰۰ هرتز



MA610 Series



► Product Specification

Model	Constant torque			Variable torque		
	Output power (KW)	Input current (A)	Output current (A)	Output power (KW)	Input current (A)	Output current (A)
MA610-2005	4	21	17.5	5.5	25.2	22.7
MA610-4002	1.5	5	3.7	2.2	5.8	5
MA610-4003	2.2	5.8	5	3.7	7	6
MA610-4005	4	13.5	9.5	5.5	19.5	14
MA610-4008	5.5	19.5	14	7.5	25	18.5
MA610-4010	7.5	25	18.5	11	32	25
MA610-4015	11	32	25	15	40	32
MA610-4020	15	40	32	18.5	47	38