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DISTRIBUTORS



Pump's Solution

APV Pro series



Safety



Intelligent



Convenient





NIETZ

» WHO WE ARE

Innovation +
Driving Tomorrow

NIETZ is one Leading Manufacturer of industrial automation products, with more than millions units sold worldwide, established 2005 Shanghai, China. We are committed to building long-lasting and successful business relations with our partners, has gained good reputation and deep influence.

We aim to provide the best quality, unmatched reliability and low price in our services and our products. We aim to reduce your costs, streamline manufacturing, to improve productivity.

The products of NIETZ are Variable Frequency Inverters, AC Servo System, Soft Starter, Planetary Gearboxes and Complete Device, The products NIETZ are technological advanced products and it has quite wide product range and already used widely in various applications such as textile machine, air compressor, hoist, packing machine, printing machine, electronic machine and other industries, which exported to over 40 countries and regions such as Europe, South America, Southeast Asia, Middle East and so on.

NIETZ always aims to be the professional driving solution provider and your mutual-benefit partner. «

APV Pro



APV Pro Frequency converter with IP66 enclosure. It controls fans or pumps. The enclosure is dust-tight and washdown ready. It offers an IP66 protection against ingress of dirt and water. The heatsink is corrosion resistant. The integrated EMC filter is Class C3 and STO function. Communication method Modbus RS485, CAN and Profinet.

This drive can control motors permanent magnet, asynchronous motors. Equipped power switches, potentiometer, forward/reverse knob on the control panel, easy to operation.



TECHNICAL FEATURES

	Power, kW	Main Circuit Wire Diameter, mm ²	Air Circuit Breaker, A	Electromagnet Contactor, A	Rated Input Current, A	Rated Output Current, A
220V ±15%	0.75	0,75	16	12	7.2	3,8
	1.5	1.5	25	18	10	7,2
	2.2	2.5	32	25	16	9,0
	3,7	2.5	40	32	23	13,0
	5,5	4.0	40	32	36	25,0
380V ±15%	0.75	0.75	6,0	9	3.8	2.1
	1.5	0,75	10	9	5,0	3.8
	2.2	0,75	10	9	5.8	5,0
	3,7	1.5	16	12	10,0	9,0
	5,5	2,5	20	18	15,0	13,0
	7,5	4,0	32	25	20,0	17,0
	11,0	4,0	40	32	26,0	25,0

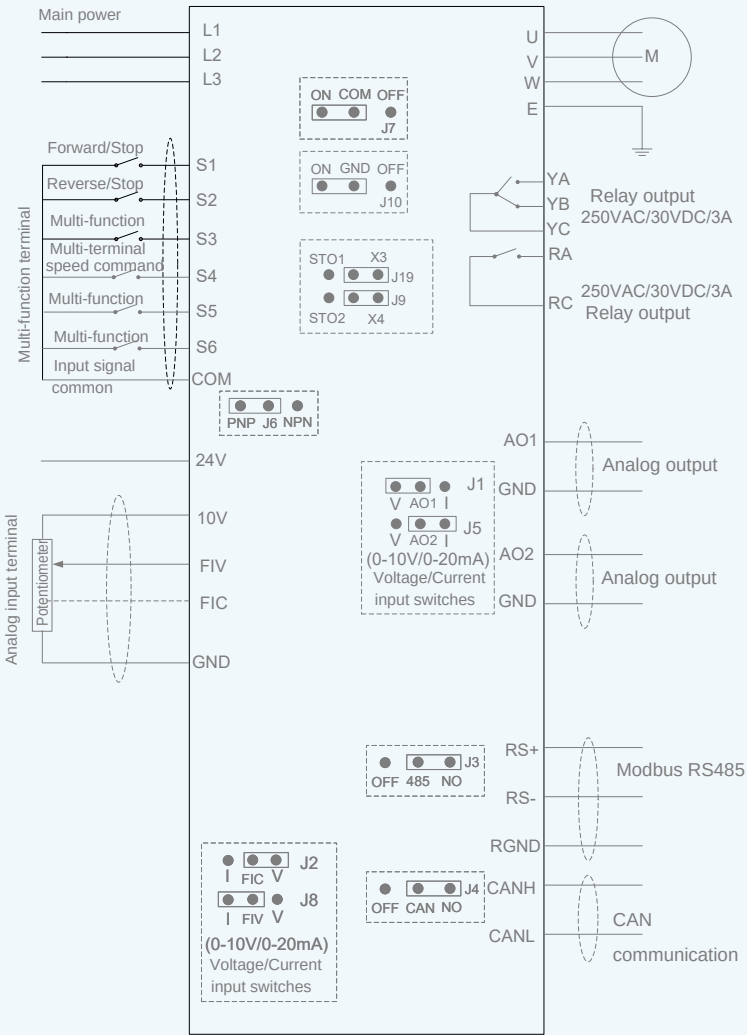
CONTROL PANEL



Specifications

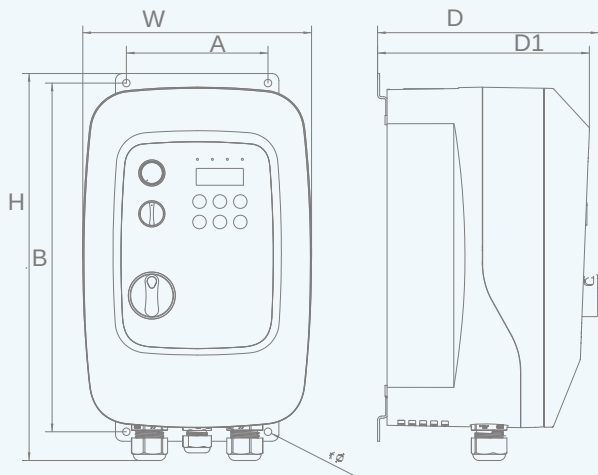
Item		Specifications	
Basic Function	Control Mode	V/F Control, Sensorless Vector Control	
	Max. Frequency	0.0-599.0 Hz	
	Carrier Frequency	0.5 kHz-16.0 kHz The Carrier Frequency is Automatically Adjusted Based on the Load Features.	
	Input Frequency Resolution	Digital Setting	0.01 Hz
		Analog Setting	Max. Frequency x 0.025%
	Start Torque	G Type	0.5 Hz / 150%
		P Type	0.5 Hz / 100%
	Speed Range	1:100 (no PG card)	
	Speed Stability Accuracy	±0.5%, SFVC	
	Overload Capacity	G Type	60s for 150%; 3s for 180% of rated current
		P Type	60s for 120%; 3s for 150% of rated current
	Torque Boost	Auto-boost; Manuals adjust range	0.1%~30.0%
	V/F Curve	3 modes: Linear; Multi - point; Nth power V/F curves	(1.2, 1.4, 1.6, 1.8, 2nd power)
	V/F Separation	2 modes: Full separation, Semi - separation	
	Ramp Mode	Straight Line Ramp; S-Curve Ramp Acce-tion/Dece-tion time 0.0-6500.0s	
Functions	DC Braking	DC Braking Frequency	0.0Hz to Max. frequency
		Braking Time	0.0s~100.0s
		Braking Action Current Value	0.0%~100.0%
	JOG control	JOG Frequency Range	0.00 Hz-50.00 Hz
		JOG Acceleration/Deceleration Time	0-6500.0s
	Simple PLC, Multiple Preset Speed	It Implements up to 16 Speeds via the Simple PLC Function or Combination of Terminal States	
	Onboard PID	This facilitates the implementation of closed -loop process control systems.	
	Auto voltage regulation (AVR)	Automatically maintains a constant output voltage when the Mains Voltage Changes	
	Overvoltage/ Overcurrent speed control	It automatically limits current and voltage during operation to prevent frequent overcurrent and overvoltage tripping.	
	Rapid Current Limit	It minimizes overcurrent faults, protecting the VFD for normal opration	
	Torque Limit and Control	It automatically limits torque during operation to prevent frequent overcurrent tripping.	
	Protection Function	Motor short-circuit detection, input/output phase loss protection, overcurrent protection, overvoltage protection and etc	
	Excellent performance	utilizes high-performance current vector control technology for for asynchronous motors.	
	Fast rate limiting	Avoids frequent overcurrent faults in the frequency converter.	
	Timed control	Timer control function: settable time range 0.0 min to 6500.0 min.	
Running	Communication methods	Modbus RS485, CAN, Profinet	
	Command Source	Operation panel, control terminal, and serial communication port input; can be switched in multiple ways.	
	Frequency Source	10 frequency sources: digital input, analog voltage input, analog current input, and serial port input; can be switched in multiple ways.	
	Auxiliary Frequency Source	10 auxiliary frequency sources allow for flexible auxiliary frequency fine-tuning and frequency synthesis.	
	Input Terminals	6 digital input terminals. 2 analog input terminals support 0-10V input or 4-20mA input.	
	Output Terminals	2 relay, 2 analog output; support 0-20mA or 0-10V output	

Control Circuit diagram



Dimension

(unit:mm)



Frame	Models		W	H	D	D1	A	B	d
A	220V	0.75 - 2.2kW	168	285	170	157	104	256	5.5
	380V	0.75 - 3.7kW							
B	220V	3.7 - 5.5kW	188	320	189	177	104	296	5.5
	380V	5.5 - 11kW							
C	38V	15 - 22kW	220	366	234	223	140	334	6.5

How to Order

