

矢量变频器 | Vector Frequency Inverter P I 8100 / 8000 Series

Product orientation:

PI8100 series frequency inverter is a brand-new current vector high-performance frequency inverter produced by Powtran Technology, which is based on motor running and the new theories and technological achievements of control, with servo functions to finish perfect control of motor, to provide you with comprehensive solutions in high-end control fields.



Performance profile:

This series frequency inverter is a high-quality, multi-functional vector control frequency inverter. By decoupling control of motor magnetic flux current and torque current to achieve rapid-response and accurate torque control, can run a wide range of high-precision speed and torque control operation.. Brand-new hardware platform, scientific production technology and complete testing equipment ensure products more stable & reliable in application.

Technical Features:

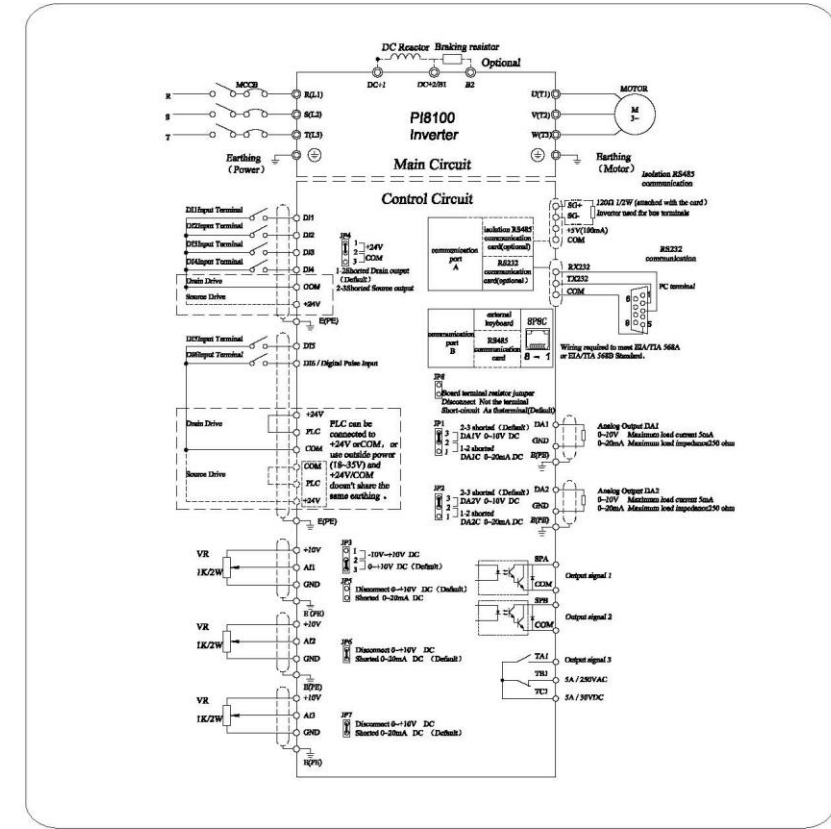
- Central control module based on DSP(32 bits digital signal processor), realizes high-speed and high-performance control
- Control Mode: Sensorless Vector Control, Sensor Close Loop Vector Control, V/F Control
- Automatic recognize the parameter of the motor, auto-adjust to the best control mode
- Dead zone compensation function and automatic slip compensate, 180% torque output can come out below 0.25Hz frequency
- Simple PLC function, at most 15 segments speed control and 8 segments acceleration control can be realized
- "One key to shuttle" keyboard, swirling free, two-way custom buttons with the demand for expansion
- Multi-language, humanization display menu, highlighted OLED+LED, simultaneous display 3 groups of state parameters
- Keyboard is hot-pluggable and can restore or copy 4 groups of running parameter programs
- Powerful communication function which can support standard RS485 and Modbus, meanwhile provide remote keyboard control
- Unique EMC design minimizes pollute to electricity resource
- Entire coating can work in various of severe environment

Capacity range:

Power Range: 0.75-7.5kW Frequency Range: 0.00~2000.00Hz
Voltage Range: Single-phase 220V
3-phase 220V/380V/460V

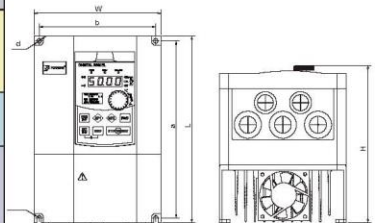
Application fields:

Metallurgy, petroleum, chemical, textile, electric power, building materials, coal, medicine, food, paper, plastics, printing, lifting, cable, washing, water, heating, sewage treatment, etc.
Industry, mechanical sets: drawing machine, mixer, extruder, cutting machine, winding machine, compressor, fan pumps, grinding machines, conveyors, hoists, centrifuges and various speed machinery.



Specification and Size:

Model	Power (KW)	Voltage (V)	Current (A)	Shape dimensions (mm)			Installation dimensions (mm)			Structure Item	Net weight (Kg)
				L	W	H	a	b	d		
PI8100 R75G3	0.75	380	2.5						7N2	2.4	
PI8100 1R5G3	1.5	380	3.7	185	120	178.5	174	108	Ø5.3	7N2	2.4
PI8100 2R2G3	2.2	380	5								
PI8100 0D4G3	4	380	8.5	220	150	185.5	209	138	Ø5.3	7N3	3.5
PI8100 5R5G3	5.5	380	13								
PI8100 7R5G3	7.5	380	18								
PI8100 7R5F3	7.5	380	18	285	180	200	272	167	Ø5.5	7N4	7
PI8100 011F3	11	380	25								

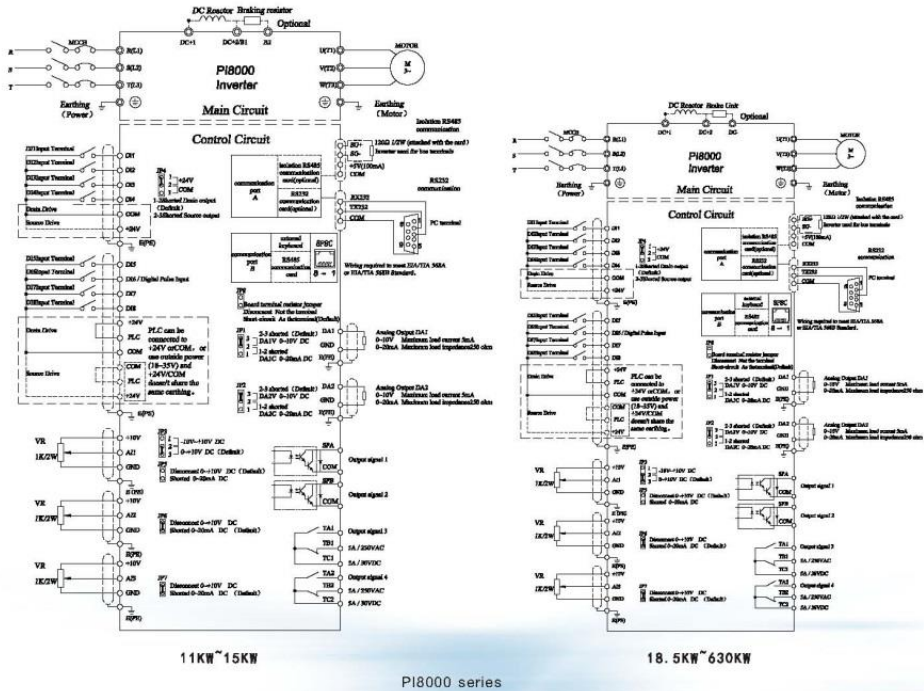


PI8100 Series

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PI8000 Series

Circuit diagram:



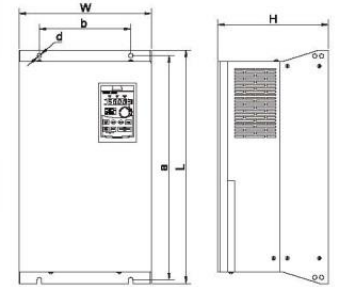
Tips:

Environment requirements for installation of frequency inverter

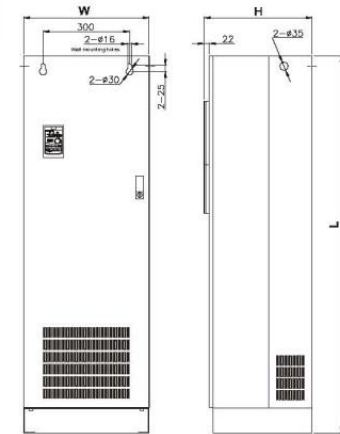
- Please install in the absence of oil mist, dust, clean places or install in fully closed shape, floats which can not invade cabinet box
- Please install in the place where metal powder, oil, water can not intrude into the internal drive.
- Do not install on timber and combustible materials
- Do not install in place with harmful gases and liquids
- Please install in a place without shock
- Please install in a place without salt
- Do not install in direct sunlight

Specification and Size:

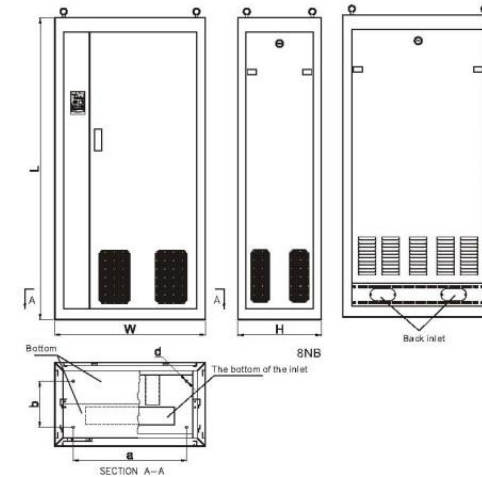
Model	Power (KW)	Voltage (V)	Current (A)	Shape dimensions (mm)			Installation dimensions (mm)			Structure Item	Net weight (Kg)
				L	W	H	a	b	d		
PI8000 011G32/015F32	11/15	380	26/32	380	220	230	380	136	Ø10	8N2	11
PI8000 015G32/018F32	16/18	380	32/38	480	280	245	440	180	Ø10	8N3	15.5
PI8000 018G32/022F3	18/22	380	38/45	480	280	245	440	180	Ø10	8N3	15.5
PI8000 022G3/030F3	22/30	380	45/60	500	300	270	460	200	Ø10	8N4	23.5
PI8000 030G3/037F3	30/37	380	60/75	500	300	270	460	200	Ø10	8N4	23.5
PI8000 037G3/045F3	37/45	380	75/90	630	360	297	580	200	Ø10	8N5	46
PI8000 045G3/055F3	45/55	380	90/110	630	360	297	580	200	Ø10	8N5	46
PI8000 055G3/075F3	55/75	380	110/150	700	400	297	690	350	Ø10	8N6	68
PI8000 075G3/093F3	75/93	380	150/170	700	400	297	690	350	Ø10	8N6	68
PI8000 093G3/110F3	93/110	380	170/210	760	475	320	730	280	Ø10	8N7	88
PI8000 110G3/132F3	110/132	380	210/250	760	475	320	730	280	Ø10	8N7	88
PI8000 132G3/160F3	132/160	380	250/300	850	500	320	830	260	Ø10	8N8	95
PI8000 160G3/187F3	160/187	380	300/340	850	500	320	830	260	Ø10	8N8	95
PI8000 187G3/200F3	187/200	380	340/380	1540	515	443	465	367	Ø13	8N8/8NA	190
PI8000 200G3/220F3	200/220	380	380/415	1540	515	443	465	367	Ø13	8N8/8NA	190
PI8000 220G3/250F3	220/250	380	415/470	1700	550	482	840	260	Ø13	8NB	350
PI8000 250G3/280F3	250/280	380	470/520	1700	550	482	840	260	Ø13	8NB	350
PI8000 280G3/315F3	280/315	380	520/600	1700	550	482	840	260	Ø13	8NB	350
PI8000 315G3/355F3	315/355	380	600/640	1700	550	482	840	260	Ø13	8NB	350
PI8000 355G3/400F3	355/400	380	640/690	1700	550	482	840	260	Ø13	8NB	350
PI8000 400G3/450F3	400/450	380	690/740	1700	550	482	840	260	Ø13	8NB	350
PI8000 450G3/500F3	450/500	380	740/860	1700	550	482	840	260	Ø13	8NB	350



8N2-8N8



8NA



SECTION A-A