

Powtran technology

--- Professional manufacturer of frenquency inverter based on the motor design and manufacture

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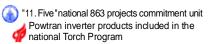
Powtran AC Drives











ABOUT POWTRAN

Shenzhen Powtran Technology Co., Ltd. is a Hi-Tech enterprise invested by several shareholders, establishing the networks of development, production, logistics and service that extend to the whole country from Shenzhen and Dalian. Integrating the advanced technology from Japan, Europe, America and Taiwan area, based on the research capacities of Tsinghua University, Dalian Maritime University and ours, with advanced manufacture and test equipment, Powtran supply customers automatic and driving products with multifunctions, such as frequency inverters, motor soft starters, servo numerical control systems, servo motor/drives, motor environment-protection energy-saving machines, special power supplies, and automatic control systems of product lines. Our products enjoy a good sale in European and American countries, as well as Southeast Asian countries. (Frequency inverter, AC Drives, frequency converter, energy saving product, environment protection product, VFD, AC frequency drive, energy saver, AC motor control system, variable frequency drive, variable speed drive, inverter, soft starter, high-voltage frequency inverter, medium voltage frequency inverter, low voltage frequency inverter, VSD, energy saver, AC motor control system, brake units, servo drives/motor and related spare parts, including the EMI filter and AC Choke and so on.)

- · We are the special enterprise devoting to the development, design and manufacture of motors and control and driving products.
- Being a Chinese inverter manufacturer, we have been taking the lead to attend Hannover Fair in Germany continuously for 7 years.
- We are the first standing director of Inverter Institute of China Electrical Equipment Industry.
- We are the member unit of China Standardization-Technology Committee of complete switch and control equipment follow-tension.
- We are the member unit of China automation academy electric automatization Committee.
- We are the director company of small and medium motor branch of China Institute of Electrical Equipment Industry
- China "Enter Credit Evaluate" AAA Credit Enterprise.



































PRODUCT FEATURES

PI7600/7800 series frequency inverter is a newly-updated product meeting the market requirement. With advanced space voltage vector. SPWM control technology, high-powered IGBT and DSP chip. Built-in current control-loop, achieve high-accuracy closed loop control. Reaches high accuracy requirement on output voltage & frequency. Also brand-new production craft and perfect testing equipments, which ensure the high working stability. PI7600/7800 inverter will offer you better motor control solution.

- Brand-new software & hardware design.
- Excellent feature upgrade
- Higher quality insurance
- Fashionable industrialized appearance
- DSP-base IGBT, achieve high-efficiency & high-powered control.
- V/F, V/F+PG, vector + PG --3 control functions
- 3 types of space voltage vector Wave produce mode
- Dead zone compensation function, achieves low frequency high power output
- Automatic slip compensation
- 10 methods to set frequency, imitation terminals can accept user defined signal with in 0~10V, 0~20A.
- Maximum 7 sections speed and 8 sections acceleration control.
- 6 programmable output control terminals
- Build-in PID control function, achieves high-powered close loop control.
- Supports 0~10V, 1~5V,0~20Ma,4~20mA return signal.
- PID based DC brake.
- Speed pursue starting and restart after momentary power loss
- Strong communication function, supports standard RS485 and Can Bus, remote keyboard input function as well.
- Human-based display list, LCD display with LED, displays 3 status parameter in
- Particular IGBT temperature rise supervising function, adjusts the fan, and reduce the motor noise and temperature rise duly.
- High-efficiency failure checking and recording function, facilitates removal of fault.
- Parameter protect function
- Unique design to reduce the pollution to power



Powtran AC Drives











The technology and products from Powtran got a wide application, such as petrochemical industry, coal, mine, metallurgy, paper mill, concrete, injection machine, textile, electric, public works, water supply, sewage treatment. Besides "G" (general) type, we also design some special types of PI7600/7800 series inverter according to different applications.

VFD special for multi-pump constant water supply

Advanced control theory, build-in PID and multi-pump operation control logic controller, can adjust pump speed and pump switching automatically according to the variation of pipe network pressure, then achieves Constant pressure Control of the pipe network.

• Inversion power special for motor

While sudden electricity failure, it connects to the load circuit at first time, and outputs the motor-required voltage and frequency via motor speed following function, then makes the motor continue running stably, when some loads can' t stop, it ensure the production proceeds constantly and safely in time.

VFD special for machine tool

When motor runs in low speed, and requires high torque and speed accuracy, Auto-Detect motor dynamic running parameter and adjust according, to ensure the motor run under high efficiency.

VFD special for compressor

Super strong over-load and over-current capacity, Easily meets the compressor heavy load and auto- constant pressure requirement. Various input & output ports, can receive various pressure return signal, achieves close-loop control via PID adjustment.

VFD special for injector

Super strong over-load and over-current capacity, Easily meets the injector frequently and rapidly start and brake... Various input & output ports, facilitates the combination with injector controller, easily achieve automatic control.

Motor Pro-environment Energy Saving machine

Got a wide application, such as petrochemical industry, coal, mine, metallurgy, paper mill, concrete, injection machine, textile, electric, public works, water supply, sewage treatment, for motor speed adjustment and energy saving.

Power & control system special for metallurgy mixer

DSP control close-loop self-regulation function, various working mode such as constant mixing/positive-reverse alternative mixing. Can set or adjust output frequency and output current independently. Widely applied in many fileds such as metallurgy continuous casting and special steel and aluminum smelting etc.



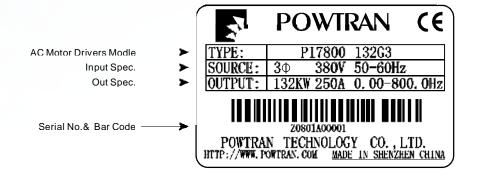
POWTRAN^{*} 晋传科技



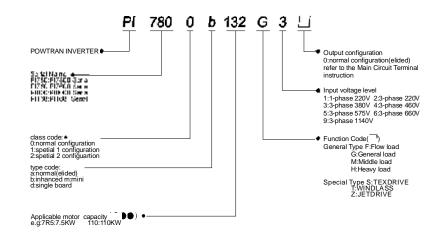
Industry Application =

- Steel:converter trending, lance lifting, crystal concussion, rollgang of cold machine, automatically charging of electric arc stove, continuous casting...
- Port: bucket coal-whipper, shock absorption for oil dock screw pump, bridge lifting device...
- Municipal administration: Boiler system, central air conditioner system, sewage disposal, water supply and drainage engineering...
- Coal mine: Main fan blower in the entrance of mine, gas concemtration control in mine heavy medium in coal washery . . .
- Chemical industry: chemical reaction heating calcination furnace, filter separator, first ammonia pump...
- Textile: scale linkage, mucilage glue filature, braiding machine, printing machine...
- Oil field: offshore platform oil electric pump , pump jack, oil converying system
- Machine: food machinery, packing machinery, printing machinery, frequency converter air conditioner, plastic machinery...
- Electric power: boiler mill exhauster, boiler system, coal transportation...
- Pharmacy: fermentation tank control, stirring control, correlative blower and bump control...
- Building: cement plant rotary kiln, blade type crusher, plastic screw extruding...
- Paper making: rewinder, calender, pulp pump...

Instructions on nameplate:



Model designation:





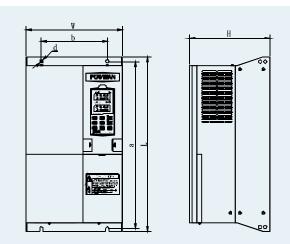
Standard Specification:

	items	specifications
Voltag	ge and frequency	Single-phase 200–240V,50/60Hz Three-phase 200–240V,50/60Hz Three-phase 380-415V,50/60Hz Three-phase 440-460V,50/60Hz Three-phase 575V,50/60Hz Three-phase 660V,50/60Hz Three-phase 1140V,50/60H
Allowa	able Fluctuation range	voltage: ±15% frequency: ±5%
Contr	olsystem	high performance vector control inverter based on DSP
Outpu	ut frequency	G/F/Z/S/T/M: 0.00-800.0Hz,the maximum frequency range is 10.00-800.0Hz H:0.00-2000.0Hz,the maximum frequency range is 10.00-2000.0Hz.
contro	ol method	V/F control, V/F+ PG control, vector + PG control
wavet	form produce methods	asynchronous space vector PWM, step less and subsection synchronous space vector PWM,2 phase optimized vector PWM
Auto 1	torque boost function	Realize low frequency (1Hz) and large output torque control under the v/f control mode.
Accel	erate /decelerate control	Acceleration/Deceleration S curve subsection set mode. The maximum running time is 26 hours.
Progr	am running control	7 step speed program running, the maximum running time is 88 hours.
freque	ency setting accuracy	Digital references:0.01Hz(300 Hz and below),0.1 Hz(above 300 Hz)Analog references:0.05Hz/60Hz
freque	ency accuracy	Speed control tolerance 0.01%(25 $^{\circ}$ C \pm 10 $^{\circ}$ C)
V/F ci	urve mode	Linear,square,8 V/F curve set by user
Over	load capability	G/S:150% for one minute, 200% for 0.1 second Z/M/T:180% for one minute, 250% for 0.1 second H:250% for one minute, 300% for 0.1 second H:250% for one minute, 300% for 0.1 second
slip co	ompensation	0~10% automatic slip compensation
•	running method	Keypad/Terminal/Communication mode
	frequency setting	There are 11 frequency setting modes, including DC 0~10V,DC 0~20mA, DC 4~20mA, potentiometer on the keyboard.
	start signal	forward, reverse
<u>a</u>	Multi-segment speed	can set 7 steps speed at most(using multi-function or program running)
Input signal	Multi-segment acceleration	At most 8 steps acceleration can be set (using multi function terminals or program running.)
# # # # # # # # # # # # # # # # # # #	instant stop	Interrupt controller's output.
<u>du</u>	traverse running	Program control running
	jog	running in low speed
	fault reset	When the protection function is affective, system can reset fault state automatically.
	PID feedback	DC 0~10V, DC 1~5V, DC 0~20mA, DC 4~20mA
<u>a</u>	running state	motor state display, stop, accelerate/decelerate, seven-speed,program running state
sign	fault output	relay fault output: AC 250V 5A, DC 30V 5A
Output signal	analog output	2 analog output, 8 signals could be selected:frequency, current, voltage, temperature, etc, the output signal range is 0-101/0-201/la.
¥	output signal	6 output signals, each one with 32 signals for option.
	ng function	Limit frequency, skip frequency, torque difference compensate, reverse protection, automatic adjustment, PID control
DC bi	•	On base of non-OC, internal PID can regulate braking current to ensure enough braking torque.
		Over voltage, under voltage, over current, over load, overheat, over current stall, over voltage stall, phase loss (options),
invert	er protection	external fault, communication fault, PID feedback abnormity, PG fault.
IGBT	temperature display	Display of current IGBT temperature
invert	er fan control	Temperature of starting the fan can be set. (options)
restar	rt after momentary power loss	less than 15ms:continue running .ore than 15ms:automatic inspection of motor's speed, restart after transient power down.
speed	d starting pursue mode	inverter pursue motor speed automatically before starting
paran	neter protection function	protect inverter's parameter by setting password and decode
LCD English Display	running message	Totally 66 running monitor objects: set frequency, actual frequency, actual current, actual current percentage, DC bus voltage, actua output voltage, actual motor's speed, total running time, IGBT temperature, PID set value, PID feedback value, motor output power percentage, excitation heft set value, torque heft set value, torque heft actual value. Display of 3parameters simultaneity at most: set frequency + actual frequency+ the monitored running message. Select by F00, F65. F66.
LED keyboard	fault message	Store 5 fault messages at most, and can inquire about fault style, voltage, current, frequency and the work state at the same time
Rs48		Completely isolated RS485 communication module (options), realizes the communication with the host computer.
CAN	BUS	CAN BUS module(options)
	onment temperature	-10°C-40°C
storag	ge temperatur	-20℃-65℃
	onment humidity	Less than 90 % RH
	nt / libration	less than 1,000 m, less than 5.9m/s² (=0.6g)
	cation place	where there is no rust gas, no flammability gas, no grease and dust
	ng methods	Forced air cooling and natural cooling
	G	-

Installation dimension

P17800 series

(3-phase 380v-415v 50/60HZ)



00	
• • <u>•</u>	

1)1N2	2										
Type	(kW)	Structure		Shape		Install	ation di	mension	Net Weight	Gross weight	Keypad
туре	(KII)	i ten	L	W	Н	a	b	d	kg	kg	neypau
F	11~18.5										
G	7.5~15	1N2	360	235	207	340	150	Ø10	10	11	JP6E7800
M	5.5~11		' '				''		•		
H	5.5~11										

2)1N3

	Туре	(1-10)	Structure		Shape		Install	ation di	nension	Net Weight	Gross weight	Keypad
	туре	(kW)	i ten	L	W	11	а	b	d	kg	kg	кеураа
	F	22~30										
[G	18.5~22	1 N/3	410	264	242	390	165	Ø10	14	15.5	JP6E7800
	M	15~18.5	1113	710	201	2-12	370	105	DIO	1 1	15.5	31 01.7 000
[Н	11~15										
Į	H	11~15										

3)2N1

Type	(kW)	Structure		Shape		Install	lation di	mension	Net Weight	Gross weight	Keypad
Туро	(KII)	i ten	L	W	Н	a	ъ	d	kg	kg	Reypau
F	37~45										
G	30~37	2N1	560	300	243	540	200	Ø10	22	23.5	JP6E7800
M	22~30	2111	300								
Н	18.5~22	1									

4)2N2

T	(1.00)	Structure		Shape		Install	ation di	mension	Net Weight	Gross weicht	
Type	(kW)	i ten	L	W	II	a	ь	d	kg	kg	Keypad
F	55~93										
G	45~75	2N2	660	0 365	293	640	250	Ø10	40	48	JP6E7800
M	37~55		000						10	10	31 OL / 000
H	30~45										

5)2N3

	Type	(1-10)	Structure		Shape		Install	ation di	mension	Net Weight	Gross weight	Keypad
ı	туре	(kW)	i ten	L	W	н	a	ь	d	kg	kg "	Reypau
[F	110~132										
	G	93~110	2N3	710	455	293	690	350	Ø10	57	68	JP6E7800
	M	75~93	2113	,10	100	2,12	0,70	550	010	",	00	31 OL / 000
[Η	55~75										

6)2N4

Туре	(kW)	Structure		Shape		Install	lation di	mension	Net Weight	Gross weight	Keypad
туре	(KII)	i ten	L	W	Н	а	b	d	kg	kg	Reypau
F	160~187										
G	132~160	2N4	910	480	342	890	350	Ø10	72	86	JP6E7800
M	110~132	2N4	910	480	342	890	330	1010	'-	00	JI 0L 7800
Н	93~110	1					l	l	l .		ĺ

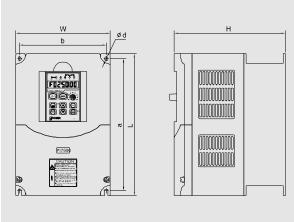
2.3N1

Type	(1:80)	Structure		Shape		Instal	lation di	mens i on	Net lie ight	Gross weigh	Keypad
туре	(kW)	i ten	L	W	Н	a	ь	d	kg	kg	neypau
F	200~250										
G	187~220	3N1	1540	515	443	465	367	Ø13	160	190	JP6E780
M	160~187		1340					6113	100	190	JI OE / OU
Н	132~160	1									

3.3N2

Type	(1 W)	Structure		Shape		Instal	lation di	mens ion	Net Weight	Gross weight	Verment
Туре	(kW)	i ten	L	W	П	a	ь	d	kg	kg	Keypad
F	280~400										
G	250~355	3N2	1700	850	492	640	260	Ø13	280	350	JP6E780
M	200~280	3112	1700	050	172	0 10	200	015	200	000	31 02700
H	187~250										

PI7600 series:



1)4N2B

Power	Type	(kW)			Snape		instail	at ion di	mension			Keypad
grade	.,,,,	(811)	i ten	I.	љ.	H	a	b	d	kg	kg	,,
	F	1.5~2.2										
3phase	G	0.75~2.2	4N2B	170	125	162	160	112	05	2	9 4	JP5E780
380v	M	$0.75 \sim 2.2$		1,0	120	102	100	112	0.5	_	u. 1	31 DE 700
	Н	$0.75 \sim 2.2$										
	grade	grade F 3phase G	grade Type (KIII)	grade Type (NW) item F 1.5~2.2 3phase G 0.75~2.2 M 0.75~2.2 4N2B	grade 1996 (RIII) iten I. F 1.5~2.2 39hase G 0.75~2.2 4N2B 170	grade 1990 (Kii) iten I. W	grade Type (KN) item I. W H F 1.5~2.2 39hase G 0.75~2.2 3800 M 0.75~2.2 3800 M 0.75~2.2	grade 1998 (KI) 168 I. W H a F 1.5~2.2 30hase G 0.75~2.2 380v M 0.75~2.2 4N2B 170 125 162 160	grade 15pe (Kin 1, W H a b	grade 1998 (811) 11es 1. W H a b d	grade 15pe (8rd) 1ten 1, W H a b d lg	grade 1998 (810)

2)4N3B

Power	Type	(kW)	Structure		Shape		Install	ation di	mension	Net Weight	Gross weight	Keypad
grade	1,700	(KII)	i tem	L	"Ж.	П	a	b	d	kg	lg l	Поурав
	F	4~5.5										
3phase	G	4~5.5	4N3E	220	150	178	205	138	Ø5.5	3	3.5	JP5E780
380v	M	4~5.5] ,,,,,,,	720	150	170	205	150	05.5	"	0.0	31 5E 700
	П	4										

3)4N4B

	Power grade	Type	(kW)	Structure	Shape			Installation dimension			Net Weight		Keypad
	grade	.,,,,	(811)	i ten	I.	"У.	H	а	b	d	kg	l kg	поурав
	3phase 380v	F	7.5~11	4N4B	300	218 2		288	203	Ø6.5	6	7	JP6E780
		G	7.5				212						
		M	7.5	L.,r	500		-12						
		TT	E E 7 E	1					l	l			

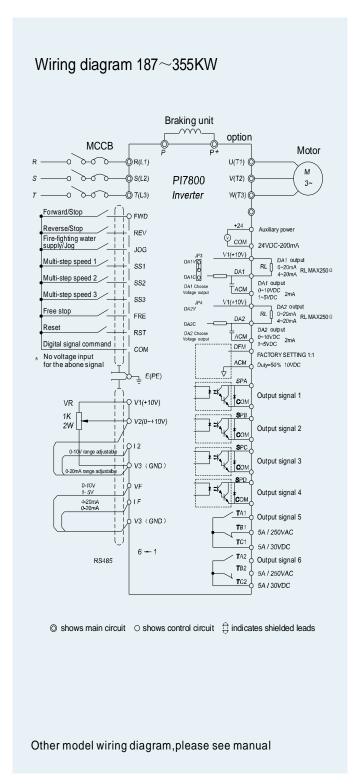
Powtran AC Drives 05

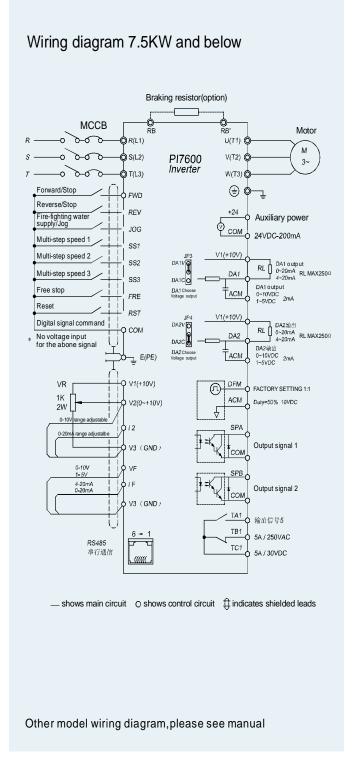




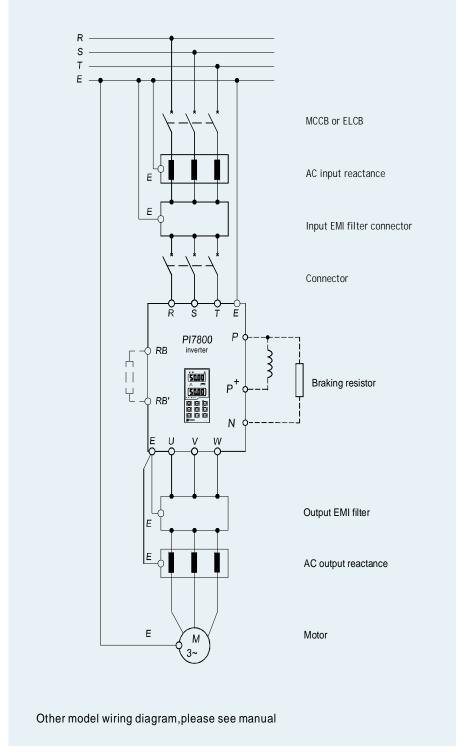
PI7800 Wiring diagram







The series can acquire the peripheral equipment by user because of the different using condition and requirement. See the wiring diagram as below:





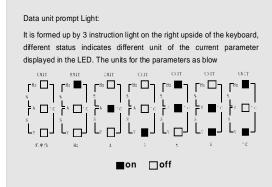


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Parameter setting

☆JP5E7000 Keyboard Specification and function description

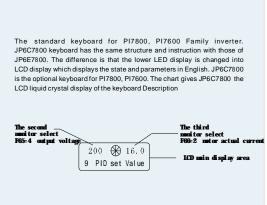




The standard keyboard for PI7800, PI7600 Family inverter. For the 4 keypads, when the keypad is unlocked, press the street and street and street simultaneously for 3 seconds, the keypad is locked, LED displays normally after displaying "LoC" for 2 seconds; when the keypad is locked, press the STOP and RESET simultaneously for 3 seconds, the keypad is unlocked, LED displays normally after displaying "ULoC" for 2 seconds.

☆JP6E7000, JP6C7000 keyboard Specification and function description







PI7600 specification

Invertertype	Light Load F		Standard Load G		Medium Load M		Heavy Load H		Structure
Triver ter type	P F	l F	P G	I G	Pz	1 z	Рн	I H	item
	k#	A	k.W	A	k W	A	k#	A	
	1 phase voltage 220V 50/60Hz								
PI7600 ● ■ ■ 1	0.75	4	0.4	2.5					4 N 2 B
P17600 • • • □ 1	1.5	7	0.75	4	0.4	2.5			4 N 2 B
PI7600 ● ● ● □ 1			1.5	7	0.75	4	0.4	2.5	4 N 2 B
PI7600 ● ● ● □ 1	2.2	10	2.2	10	1.5	7	0.75	4	4 N 3 B
P17600 ••• _ 1	4	16	4	16	2.2	10	1.5	7	4 N 3 B
PI7600 • • • □ 1	5.5	20	5.5	20	4	16	2.2	10	4 N 4 B
	3phase voltage 220V 50/60Hz								
PI7600 • • • □ 2	0.75	4	0.4	2.5					4 N 2 B
PI7600 • • • □ 2	1.5	7	0.75	4	0.4	2.5			4 N 2 B
PI7600 • • • ∟ 2			1.5	7	0.75	4	0.4	2.5	4 N 2 B
P17600 • • • □ 2	2.2	10	2.2	10	1.5	7	0.75	4	4 N 3 B
P17600 • • • ∟ 2	4	16	4	16	2.2	10	1.5	7	4 N 3 B
PI7600 • • □ □ 2	5.5	20	5.5	20	4	16	2.2	10	4 N 4 B
		<u> </u>	3phase v	oltage 38	0V 50/60H	Z	-		-
PI7600 • • • - 3			0.75	2.5	0.75	2.5	0.75	2.5	4 N 2 B
PI7600 • • • _ 3	1.5	3.7	1.5	3.7	1.5	3.7	1.5	3.7	4 N 2 B
PI7600 ● ● ■ = 3	2.2	5	2.2	5	2.2	5	2.2	5	4 N 2 B
PI7600 • • • _ 3	4	8.5	4	8.5	4	8.5	4	8.5	4N3B
PI7600 • • • = 3	5.5	13	5.5	13	5.5	13			4 N 3 B
PI7600 • • • = 3	7.5	16	7.5	16	7.5	16	5.5	13	4 N 4 B
PI7600 • • • _ 3	11	25					7.5	16	4 N 4 B

PI7800 specifications

Inverter type		Load		rd Load	Medium Load M		Heavy Load H		Structure
iliverter type	PF	IF	РG	IG	Рм	lи	Рн	IH	item
	K %	A	K %	A	K V	A	K W	A	
			3 pha	se voltag	e 380V 50/60Hz				
PI7800 ••• □ 3	11	25	7.5	16	5.5	13	5.5	13	1 N 2
PI7800 ●●● □ 3	15	32	11	25	7.5	16	7.5	16	1 N 2
PI7800 ●●■ □ 3	18.5	38	15	32	11	25	11	25	1 N 2
PI7800 ●●● □ 3	22	45	18.5	38	15	32	11	25	1 N 3
PI7800 ••• □ 3	30	60	22	45	18.5	38	15	32	1N3
PI7800 ●●■ □ 3	37	75	30	60	22	45	18.5	38	2 N 1
PI7800 ●●● □ 3	45	90	37	75	30	60	22	45	2N1
PI7800 ●●● ⊔ 3	55	110	45	90	37	75	30	60	2 N 2
PI7800 ●●●□3	75	150	55	110	45	90	37	75	2 N 2
PI7800 ●●● □ 3	93	170	75	150	55	110	45	90	2 N 2
P17800 ●●● □ 3	110	210	93	170	75	150	55	110	2N3
P17800 ● ● ■ □ 3	132	250	110	210	93	170	75	150	2 N 3
PI7800 ••• □ 3	160	300	132	250	110	210	93	170	2 N 4
P17800 ●●● □ 3	187	340	160	300	132	250	110	210	2 N 4
PI7801 • • □ 3			132	250					3N1
PI7801 ●●● □ 3			160	300					3N1
PI7800 ●●■ □ 3	200	380	187	340	160	300	132	250	3N1
PI7800 ●●● □ 3	220	415	200	380	187	340	160	300	3N1
PI7800 ●●● ⊔ 3	250	470	220	415					3N1
PI7800 ●●● □ 3	280	520	250	470	200	380	187	340	3 N 2
PI7800 ••• □ 3	315	600	280	520	220	415	200	380	3 N 2
P17800 ●●● □ 3	355	640	315	600	250	470	220	415	3 N 2
PI7800 ●●● ⊔ 3	400	750	355	640	280	520	250	470	3 N 2

[★] Please contact with us for above 400KW





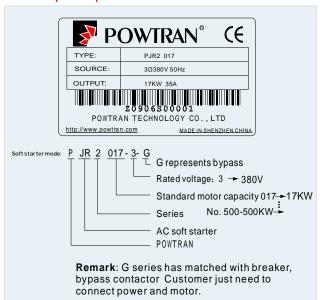
Motor soft starter

Standard specification

- Advanced five kinds of startup modes: Voltage slope startup mode; current limiting startup mode; trip and current limiting startup mode; trip and increase voltage startup mode; current slope startup mode; double close-loop startup model.
- Braking mode: voltage slope soft braking and free braking.
- Main circuit is 3 lines input and 6 lines output, which can realize automatic monitoring.
- Programmable delay startup mode, programmable interlocks control and programmable malfunction junction point output.
- The startup and braking time can be revised by program.
- Comprehensive protection functions: over current, over load, over heat and Default Phase of input and output.
- There relay and one analog output.
- Automatic discerns phase sequence and protection function.
- Special compact design.
- High reliability.



Nameplate specification





Standard specification

MOTOR	Voltage (V)	Power (KW)	Current (A)	keyboard Model	G. W (KG)	N. W (KG)	Size L/W/H(mm)	Installation A/B/C (mm)
PJR2-05	380	5.5	12	PJR2	5	3	145/270/167	128/205/∳7
PJR2-07	380	7.5	17	PJR2	5	3	145/270/167	128/205/ ϕ 7
PJR2-11	380	11	22	PJR2	5	3	145/270/167	128/205/∳7
PJR2-15	380	15	32	PJR2	5	3	145/270/167	128/205/ ϕ 7
PJR2-18	380	17	38	PJR2	5	3	145/270/167	128/205/∳7
PJR2-22	380	22	47	PJR2	5	3	145/270/167	128/205/ 4 7
PJR2-30	380	30	62	PJR2	5	3	145/270/167	128/205/∳7
PJR2-37	380	37	75	PJR2	5	3	145/270/167	128/205/ ϕ 7
PJR2-45	380	45	88	PJR2	5	3	145/270/167	128/205/∳7
PJR2-55	380	55	110	PJR2	5	3	145/270/167	128/205/∳7
PJR2-75	380	75	140	PJR2	5	3	145/270/167	128/205/∳7
PJR2-90	380	90	170	PJR2	18	15	260/385/241	210/350/49
PJR2-110	380	110	210	PJR2	18	15	260/385/241	210/350/49
PJR2-132	380	132	250	PJR2	18	15	260/385/241	210/350/49
PJR2-160	380	160	320	PJR2	18	15	260/385/241	210/350/49
PJR2-200	380	200	410	PJR2	18	15	260/385/241	210/350/49
PJR2-250	380	250	480	PJR2	28	27	290/445/280	235/400/49
PJR2-320	380	320	590	PJR2	28	27	290/445/280	235/400/ 09
PJR2-400	380	400	790	PJR2	28	27	290/445/280	235/400/49
PJR2-500	380	500	1000	PJR2	28	27	290/445/280	235/400/ ф9

Standard specification

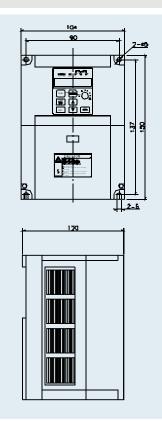
				-				
Meet standard:			PJR2 developed electronic soft startup and stop device and passed Feature testment and meet national standard: (GB1404842-1998).					
3phase power		V	208-10%240+10%					
voltage			380-15% …415+10%					
F			440-15%500+10%					
Frequency		Hz	50					
Rated Current		Α	10…1000total 20kinds rated rated value					
Motor power		KW	5.5500					
Motor rated		V	208240					
Voltage			380…415					
			440500					
Adjusted current			Motor rated current In can be adjusted between 0.5-1.3 times of rated current.					
Startup mode			limited startup current is 5ln Factory Reset: torque integrate is 16S, standard load is 3ln: When torque integrate 15S, heavy load is 3.5ln.					
	free stop		4S soft stop					
Stop Mode	Soft stop		Programmable adjust 0.5—6	30S				
	Brake stop	stop programmable adjust 0.5—60\$(according to protocol						
Display and keyboard			Working status can display working current(or currer percentage). Malfunction status can display default The key can set parameter, junction and interlock.					
			JR	JM				
	Contactor type		1 "N.O" + "1N.C"	1 "N.O" + "1N.C"				
	Factory reset		Output of startup relay	default relay output terminal				
Output relay	Max working power—220V	VA	Startup power 1200, maintain power 120.					
(2pcs)	Min switching capacity	Α	100mA-24V					
(/	Standard working current	Α	0.5 Grade AC-14, AC-15(240V AV) and DC-13(48VDC)					
	Standard heat current	V	5					
	Max working Vlotage		~400V					
	Machine lifespan		0.5billion operation					
Protection			Integrated protection of motor and starter					
11010011011	Main power protection			alance phase protection, indicated by relay.				
Option of			According to motor rated power and load to choose PJR2 model					
starter			Starter power can match wi	th standard load and heavy load				

Drives

PI7550 Frequency inverter

As a professional frequency inverter manufacturer based on technique of motor design and motor manufacture, POWRAN design PI7600 and PI7800 series of inverters by applying DSP control which now enjoying good popularity by customers in current market, in the meantime, we put onto market a new series PI7550 for small power inverters. The power range for this new series is 0.75KW~1.5KW, and the voltage grade is 220V~460V.





- PI7550 series of inverters don't only inherit POWTRAN product's advantages of stable performance and multi-function, but also specialize in its compact plastic-housing, smart and unique design, advanced technique and flexible settings. It is easy to handle and operation with great performance and competitive price, providing a practical and effective solution of motor control customers.
- PI7550 series of inverters putting on market enrich Powtran's production line for POWTRAN "7" series. Application filed: various of industries such as textile, printing, dye, paper mill, package mill, foodstuff s factory, medicine, etc.

Application filed

Powtran Energy Consuming Brake Unit

Application field

Powtran Brake Unit mainly suits to the status when the inverter decelerates because of the load inertia, kinetic energy will turn into electric energy which is saved on the DC bus. To consume such regenerated energy is by using brake unit (resistor), otherwise frequency inverter will trip OU or be faulted.

Function

- For all brands inverter;
- 200V/380V/440V/480V:
- It could be paralleled connected, no capacity limited: Unit range 0.75-30KW/37-55KW/75-110KW(400V)
- Allowable for the occasion with electricity fluctuation:
- Special design, the ordinary resistor could be used so no need to use senseless resistor. Resistor box could be specially ordered;
- Ensure the brake IGBT in saturation;
- Protection: short-circuit, low voltage, over voltage,
- fast fuse, over heated, etc:



