电机软启动器 Soft Starter PJR2 Series

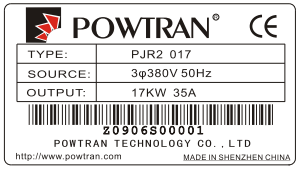
Product orientation:

PJR2 series motor soft starter, is the product for motor starting and stopping from POWTRAN technology, meanwhile it is an important part of the “Comprehensive solution for motor control”, let the motor have better solution in case without variable speed.

Technical specification:

- Five Starting mode: voltage ramp start, current limit start, current limit increases sudden jump, jumps the applied voltage, current ramp, double closed loop
- Stopping mode: soft stop voltage ramp, free stop
- Main circuit use three-in six-out wire, achieve fully automatical control
- Five Simple PLC Function: Delay start, interlock control, fault contact output, starting time, stop time
- With comprehensive protection functions: over-current, overload, input and output phase loss, overheating
- 3 groups of relay outputs and 1 group of analog output
- Automatic identification of phase sequence and with the phase sequence protection
- Special compact design
- High reliability

Nameplate:



P JR 2 017-3-G

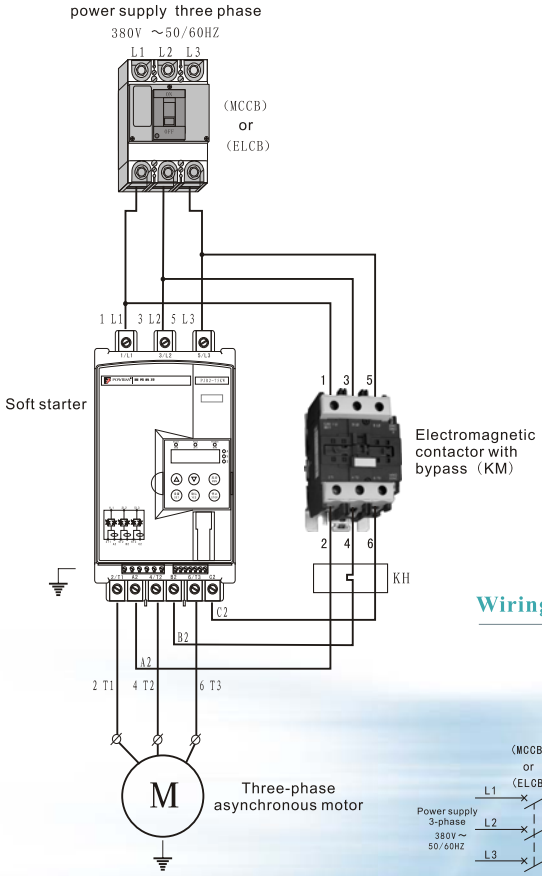
- G mean with by pass
- Voltage Rating 3 → 380V
- Standard Motor capacity 017 → 17KW; 500 → 500KW
- Serial No.
- AC Soft starter
- POWTRAN Technology Code

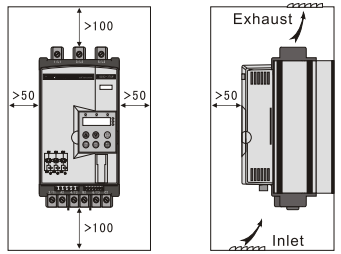
Note: G-type has been configured with circuit breaker, bypass adaptor, customers directly connected to the power and the motor.

Capacity range:

Power range: 5.5-500kW
Voltage : three phase 220V/380V/460V/550V/660V

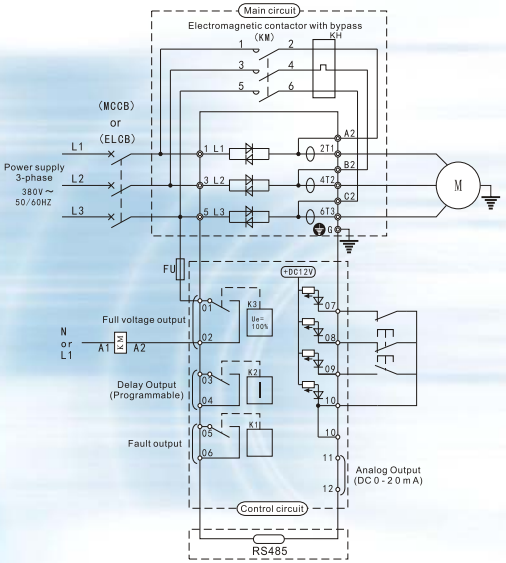
Main circuit connection:





Installation dimension inside.

Wiring diagram:



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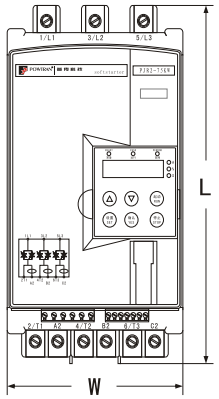
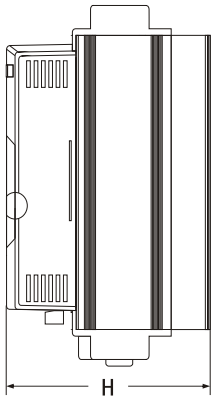
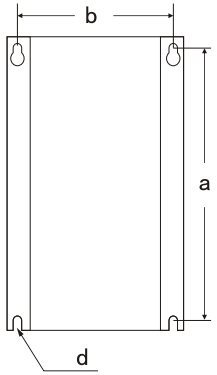
Dimensions diagram:



Front face



Side face



Base

Specifications:

Model	Voltage (V)	Power (KW)	Current (A)	Keyboard type	Net weight (KG)	Shape dimensions W/L/H (mm)	Installation dimensions b/a/d (mm)
PJR2-05	380	5.5	12	PJR2	3	145/270/167	128/205/φ7
PJR2-07	380	7.5	17	PJR2	3	145/270/167	128/205/φ7
PJR2-11	380	11	22	PJR2	3	145/270/167	128/205/φ7
PJR2-15	380	15	32	PJR2	3	145/270/167	128/205/φ7
PJR2-18	380	17	38	PJR2	3	145/270/167	128/205/φ7
PJR2-22	380	22	47	PJR2	3	145/270/167	128/205/φ7
PJR2-30	380	30	62	PJR2	3	145/270/167	128/205/φ7
PJR2-37	380	37	75	PJR2	3	145/270/167	128/205/φ7
PJR2-45	380	45	88	PJR2	3	145/270/167	128/205/φ7
PJR2-55	380	55	110	PJR2	3	145/270/167	128/205/φ7
PJR2-75	380	75	140	PJR2	10	186/345/238	140/325/φ9
PJR2-90	380	90	170	PJR2	15	260/385/241	210/350/φ9
PJR2-110	380	110	210	PJR2	15	260/385/241	210/350/φ9
PJR2-132	380	132	250	PJR2	15	260/385/241	210/350/φ9
PJR2-160	380	160	320	PJR2	15	260/385/241	210/350/φ9
PJR2-200	380	200	410	PJR2	15	260/385/241	210/350/φ9
PJR2-250	380	250	480	PJR2	27	290/445/280	235/400/φ9
PJR2-320	380	320	590	PJR2	27	290/445/280	235/400/φ9
PJR2-400	380	400	790	PJR2	27	290/445/280	235/400/φ9
PJR2-500	380	500	1000	PJR2	27	290/445/280	235/400/φ9

Specifications:

Standard		Unit	PJR2 developed the electronic soft start - soft stop unit and passed the performance testing in accordance with national standard (GB1404842-1998)	
3-phase power supply voltage		V	208-10%···240+10% 380-15%···415+10% 440-15%···500+10%	
frequency		Hz	50	
Nominal current		A	10...1000A total of 20 ratings	
Motor power		KW	5.5···500	
Motor voltage		V	208···240 380···415 440···500	
Adjust the current			The nominal current of the motor can be 0.5 to 1.3 times of the starter rated current. Maximum starting current can be 2 to 7 times of In, 5 times of the starter current limit	
Starting mode			Starting current is limited to 5 In. When the factory setting: torque integral is 16 seconds, the standard load is 3In; When the torque integral is 15 seconds, for heavy load, it is 3.5In.	
Stop mode	Free parking		4 seconds soft stop	
	Soft-stop		Between 0.5s to 60s, programmable adjustment	
	Brake stop		Between 0.5s to 60s, programmable adjustment (ordering protocol)	
Monitor and keyboard			During normal operation, it can display the motor running current (or current percentage). When fault occur, it displays fault code, the keyboard can set parameters, contact function and lock function.	
Output relay (2 pieces)			JR	JM
	Contact type		1 "Normally open"+"1 Normally closed"	1 "Normally open"+"1 Normally closed"
	Factory settings		output of the starting relay	Relay fault output terninal
	Maximum operating power~220V	VA	1200 starting power, maintain power 120	
	Minimum switching capacity	A	100mA-24V	
	Nominal operating current	A	0.5. Grade AC-14, AC-15 (240V AV) and DC-13 (48VDC	
	Nominal thermal current	V	5	
	Maximum operating voltage		~400V	
	Mechanical life		500 million operations	
Protection			PJR2 has comprehensive protection of motor	
	Main power protection		motor starter, phase loss, and phase imbalance. This is indicated by relay output signal.	
Select starter			According to the nominal motor power and load	
			PJR2 devices starter power can be used for standard load or heavy load.	

model selection reference:

PJR 2 meet the requirements of most heavy load of driving machines. The following table is for reference.

Types of application mechanical	Load type	PJIR2 perform starting current (%) Starting time (seconds)	Starting current (%)	Starting time(%)
Centrifugal pump	Standard load	Slow shutdown protection (eliminating water hammer), or to prevent underrun protection	300	5-15
Piston pump		Phase reversal protection		
Fans		Monitoring Operation	350	5-15
Shrink machine		Increase the duty cycle of the brake	300	10-40
Screw compressor		Control of starting and stopping torque	300	5-10
Centrifugal Compressor	Standard or heavy load	Shutdown limit vibration, overload control test occlusion	350	3-20
Piston compressor	Standard load	Shutdown limit vibration, overload detection of control block	300	10-40
Conveyor belts conveyor		Current Show	50	5-10
Spiral Crane		Current Show	350	3-10
TA-type cable car		Control of starting torque	300	3-10
Elevator		Quick Brake	300	2-10
Circular Saw		Detection of obstruction overload control, the constant changes in load starting	100	15-10
Band saw	Or heavy load	Detection of overload control blocked	350	10-60
Blending machine cutting machine chip	Heavy Load	Detection of the harsh environment of overload control	400	3-10
Mixer	Standard load	Overload control fault detection	350	5-20
Mixer		Provides protection against phase reversal	350	5-10
Grinding machine	Heavy Load	Provides protection against phase reversal	450	5-60
Breaker	Standard load	Provides protection against phase reversal	400	10-40
Refiner		Motor protection, can also be provided for special motor	300	5-30
Press	Heavy Load	Detection of overload caused by obstruction to provide braking torque shutdown	400	20-60

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