PD20 SERIES

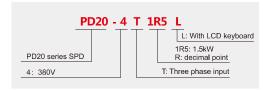
Power range: Three-phase input and three-phase output: 0.75-18.5kW



■ Technical Data

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Input/output Output Program	eed regulation range eed-holding precision erload capability = curve celeration/deceleration time but voltage but frequency range tiput voltage tiput frequency ogrammable digital input mmunication interfaces	1:20 ±1,0% 120% rated current for 60s, 150% rated current for 1s Linear, squared curve Range: 0.1-800s 220V/380V±15% 50/60Hz, fluctuation range: ±5% 0-rated input voltage 0-50/60Hz 2 digital input Equipped with one isolated RS485, and one extended Rs4885						
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	mmunication interfaces	Equipped with one isolated RS485, and one extended Rs4885						
Periphera Pro								
iphera Pro	ogrammable analog input							
		Dual circuit, it can be set as voltage or current input by setting parameters; input voltage range0-10V; input current range 0/4-20mA						
Ana	alog power	4-13,+24V dual power						
Rela	lay output	1 output, programmable						
S Ope	en collector output	1 output, programmable						
Ana	alog output	Reserved						
Con	mmand running channel	Four kinds of channels: 1. operation panel 2. control terminal 3.serial communication port, choose 1 and 2 for host drive and 3 for auxiliaries 4. pressure of water inlet						
Inte	ernal clock	LCD keyboard built-in RTC						
	egrated PID	Advanced PID arithmetic to realize closed loop control system						
	est and auxiliary ve connection	Extensible dual RS485 design, One drive in the system can be host and controls auxiliaries (5 at most) to work by communication mode. Host sends PID feedback to auxiliaries and monitors status of auxiliaries in real time. If failure occurs, the auxiliary will be skipped. The host can control auxiliaries and communicate with upper comput through the extended RS485 at the same time.						
E AVE	'R	When grid voltage changes, it keeps output voltage constant automatically. By default, it doesn't work at deceleration.						
	all control	Automatically limit current and voltage at running period to prevent tripping caused by frequent overcurrent/over vo						
Pas	ssword setting	4-bit password can be set with non-zero numbers. Exit password setting interface and the password will be valid after 1 minute.						
Pan	rameter lock	Define whether the parameter is locked in running or stopped state in case of misoperation.						
W1 110 1	tomatic energy-saving nning	Decrease output voltage automatically at light load to save energy.						
Pump Cor Con Self	onstant pressure control	PID adjustment, PID feedback of break detection, PID sleeping and wakeup						
Self	f-starting at power on	Optional self-starting at power on, adjustable starting delay						
Anti	ti-freezing	Anti-freezing running frequency, time and cycle						
Wat	ater leakage inspection	Optimize sleeping control by water leakage inspection						
	gh pressure alarm	Detect feedback pressure to protect pipe network						
pro Low	w pressure alarm	Detect feedback pressure to protect pipe network and pumps						
	ater shortage otection	Multiple water shortage protection detection modes (including no sensor mode)Controller detects that pipe network pressure is lower than water shortage pressure, system stops working automatically. After set period, it restarts automatically or specified times. If pressure restores to normal, system works normally. Otherwise, system stops automatically in case of idle running of pump and prolongs pump lifetime in maximum.						
	stallation environment	Installation environment should have be without direct sunlight, dust, corrosive gas, inflammable gas, oil mist, steam, water drop						
Application Vibr	itude	Lower than 1000m, service in derated capacity above 1000m. Derate 1% capacity every 100m increase in height.						
on icat	vironmental temperature	-10 °C ~+40 °C , service in derated capacity for 40 °C ~50 °C . Derate 4% capacity every 1 °C increase in temperature.						
nent libr	oration	<5.9m/S2(0.6G)						
Stor	orage temperature	-40 C ~+70 C						

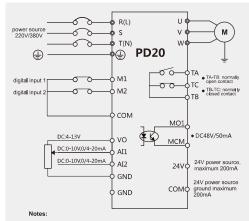
■ Model Number Description



■ Selection Guide

Voltage class	kW	НР	Rated input current (A)	Rated output current (A)	Size No.	Series		2:220V 4:380V	T: three- phase S: single- phase	Adaptive motor power
Single	0.75	1	8.2	4.5	1	PD20	-	2	S	R75
phase 220VAC	1.5	2	14.2	7	1	PD20	-	2	S	1R5
±15%	2.2	3	23	10	1	PD20	-	2	S	2R2
	0.75	1	3.4	2.5	1	PD20	-	4	T	R75
	1.5	2	5	3.7	1	PD20	-	4	T	1R5
	2.2	3	5.8	5	1	PD20	-	4	T	2R2
Three	4	5	10	9	2	PD20	-	4	T	004
phase 380VAC	5.5	7	15	13	2	PD20	-	4	T	5R5
±15%	7.5	10	20	17	2	PD20	-	4	T	7R5
	11	15.0	26	25	3	PD20	-	4	T	11
	15	20.4	35	32	3	PD20	-	4	T	15
	18.5	25.2	38	37	3	PD20	-	4	T	18R5

■ Wiring Diagram



- 1. Terminals: @refers to main circuit terminals; orefers to control circuit terminals.
- 2. When selected control voltage is 220V, connect terminals R and T.
- 3. Do not break the keyboard cable when unplugging it.

■ Outline Dimensions

