

Safety	and	Reliabi	litv
			,

- ·Constatn pressure for water
- ·IP54 for waterproof and dustproof
- ·Motor output short circuit
  - ·Overvoltage, overvoltage, overheating, short circuit protection

### Flexible compatibility

- $\cdot 2$  way communication protocal:  $\cdot 3$  power supply for sensors RS485+CAN
- · Abundant interface, including 2 analog input
- · Available for both local networking and host computer control

### **Smart Control**

- ·Wide power ranges
- ·Steady output with low noise
- · Advanced PID algorithms
- · Integrated control for both PM and Asychronous pumps/motors

### Humanized Design

- · Backpack installation
- ·Wide control panel for clear display and easy setting

#### ·Cable box tpye design for fast connection

## W/ SPECIFICATION

		Technical Specification
	Control Mode	V/F Control
	Starting Torque	1Hz 100%
Control	Speed Ratio	1:20
Feature	Speed Accuracy	±1.0%
	Carrier Frequency	0.5kHz ~ 16kHz
	Overload	120% rated current 60s, 150% rated current 1s
	Input Voltage	• AC 1PH 220V (±15%) • AC 3PH 380V (±15%)
	Input Frequency	50 or 60Hz (±5%)
	Output Voltage	0-Input voltage, Tolerance < 5%
	Output Frequency	V/F: 0-100Hz
Running Control	3 Command Channels	<ul> <li>Operation panel setting</li> <li>Serial interface setting</li> <li>Shifting between setting combinations and channels are available</li> </ul>
Control	Frequency Source	Data Setting/Panel pulse potentiometer/Analog voltage/Analog current/Serial communication etc. Shifting between different sources are available
	Analog Output	3 Channels: 0~5V, 0~10V, 0~24V, suitable for most sensors
	Input Channel	<ul><li> 3 Digital input channels</li><li> 2 Analog input channels</li><li> 2 communication channels: RS485+CAN</li></ul>
	Output Channel	• 1 digital output channel • 1 group of relay output channels
	Built-in PID	To achiee closed-loop control
	AVR function	Automatically keep the output voltage constant in case of voltage fluctuation
	Over voltage/Over current stall	Automatically limit current and voltage in running, to prevent frequent overcurrent and overvoltage tripping
	Fast current limiting function	Prevent faults of overcurrent and improve system stability
	Safety self-check for power- on external device	To achieve safety detection of external devices, such as grounding, short circuit, etc.
Control	Auto-start function	• Automatically start when power-on • Adjustable start-up delay
Feature	Energy Saving Method	Automatically reduce output voltage in condition of light loading for energy saving
	Constant Pressure Control function	PID control, PID disconnection check, PID on & off
	Connected Method	Devices can be connected and commnucated with each other to achieve control of multi-pumps
	Host computer communication	Remote equipment maintenance can be achieved through an external GPRS monitoring module
	Antifreeze function	The frequency, time and cycle can be set for antifreeze function
	Leakage detection	To improve the standby method by detection of leakage factor
Display &	LED display	Including data of feedback pressure, target pressure, operating frequency, operating current ect.
Keyboard	Parameter Lock function	To define the lock of parameters in the running or stopping state, in case of misoperation
Environment	Place	Indoor, no direct sunlight/dust/corrosive gas/flammable gas/oil mist/water vapor/dripping water/salt etc.
	Altitude	• < 1000m; • if >1000m, please derate 1% by every 100m rising
	Ambient temperature	• -10°C ~ 40°C; • if exceeding 40°C, please derate 1% by every 1°C increasin • Maximum ambient temperature is 50°C
	Humidity	≤95%RH, to avoid condensation
	Vibration	Vibration acceleration is less than 0.6g
	Storage Temperature	-25°C ~ +60°C

# SELECTION GUIDE

# PDH30 - 4 T 1R5

Series: PDH30

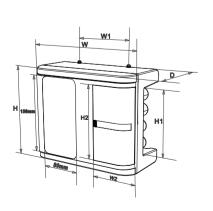
Applicable Motor Power: 1R5=1.5kW

Voltage: 2: 220V, 4:380V

Phase: S=Single Phase ,T= Three Phases

Item Code	Rated Power	Power Capacity	Input Current	Output Current	Applicable Motor Power G/P	
item code	(kW)	(kVA)	' (A)	' (A)	kW	HP
PDH30-2S2R2	2.2	4	23	9.6	2.2	3
PDH30-4TR75	0.75	1.5	3.4	2.1	0.75	1
PDH30-4T1R5	1.5	3	3 5 3.8		1.5	2
PDH30-4T2R2	2.2	4	5.8	5.1	2.2	3
PDH30-4T004	4	5.9	10.5	9	4	5.5
PDH30-4T5R5	5.5	8.9	14.6	13	5.5	7.5
PDH30-4T7R5	7.5	11	20.5	17	7.5	10
PDH30-4T011	11	17	26	25	11	15
PDH30-4T015	15	21	35	32	15	20
PDH30-4T18R5	18.5	24	38.5	37	18.5	25

## **DIMENSION**



	Dimension				Flange Mounting		
Model	Н	H1	H2	W	W2	D	W1
PDH30-2S2R2	- 187.5	127.5	144	225	76.5	114	120
PDH30-4TR75							
PDH30-4T1R5							
PDH30-4T2R2							
PDH30-4T004	212	135	156.5	257	90.5	124	159.5
PDH30-4T5R5							
PDH30-4T7R5							
PDH30-4T011	276	169	191	312	121.5	146.5	140
PDH30-4T015							
PDH30-4T18R5							

## PDH30 APPLICATION



School water supply



Water supply to shopping malls



Water supply for domestic dwellings