



PDM30 Series

DOMESTIC WATER SUPPLY CONTROLLER

PDM30 series intelligent water pump drive is defined as a small helper for domestic water supply. PDM30 has household appliances appearance design style, compact size; backpack installation, dustproof & waterproof, small-pump frequency conversion control, extended connection, complete functions, reliable and stable performance.

Single-phase 220V: 0.75-2.2kW

Leaving a message. 🗨️

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Specifications

Item		Description
Control Characteristics	Control Mode	V/F Control
	Starting Torque	1Hz 100%
	Speed Adjustment Range	1:20
	Speed Holding Precision	± 1.0%
	Overload Capacity	150% rated current for 60s;180% rated current for 1s.
	V/F Curve	Linear, Square curve
	Acceleration and deceleration Time	The range of acceleration and deceleration time is 0.1~800s
Input/Output Characteristics	Input Voltage Range	Works with 220v wide voltage range, when input voltage reduces, output frequency reduces accordingly until the voltage goes to the minimum starting voltage of the hardware.
	Input Frequency Range	50/60Hz,fluctuation range: ±5%
	Output Voltage Range	0-220V
	Output Frequency Range	0~100Hz, factory default 50Hz
External terminal interface	Programmable digital input	Dual digital input terminals
	Communication Interface	Standardly equipped with 1-way communication interface: one isolated RS485 for communication between VFDs
	Programmable analog input	1 way, it can be set as voltage or current input by adjusting parameters; input voltage range0-10V; input current range 0/4-20mA
	Analog Power	+3.3-+24V adjustable power
Basic Functions	Command running channel	Three channels: 1. Keypad 2.Digital input terminal 3.Serial communication port
	requency Source	2 Frequency sources: Up and Down Key, PID mode
	Integrated PID	Advanced PID arithmetic to realize closed loop control system
	AVR Function	When grid voltage changes, it keeps output voltage constant automatically. By default, it does not work at deceleration
	Stall Control	Automatically limits current and voltage at running period to prevent tripping caused by frequent over current /over voltage
	Password setting	5-bit password can be set with non-zero numbers. Exit password setting interface and the password, will be valid after 1 minute
	Parameter lock	Define whether the parameter is locked in running or stopped state in case of misoperation. When the parameters are locked still can set target pressure.
Pump Control Functions	Automatic energy-saving running	Decrease output voltage automatically at light load to save energy.
	Constant water pressure Control	PID adjustment, PID feedback offline detection, PID sleeping and wakeup
	Self-starting at power on	Optional self-starting at power on, adjustable starting delay
	Anti-freezing	Anti-freezing running according to frequency, time and cycle
	Water leakage inspection	Optimize sleeping control by water leakage inspection
Water Supply Protection	High pressure alarm	Detect feedback pressure to protect pipe network
	Water shortage protection	Multiple water shortage detection methods, which ensure the pump drive protects equipments work normally in the case of water shortage
Environment	Installation Environment	Installation environment should have be without direct sunlight, drive can be dust-proof and splash-proof. Note: Although inverter has a high protection level, it is not explode, water-proof products,and please don't immerse in water.
	Altitude	Lower than 1000m. If above 1000m, service in derated capacity. Derate 1% capacity every 100m increase in height.
	Environmental Temperature	-10℃~+40℃, service in derated capacity for 40℃~50℃. Derate 4% capacity every 1℃ increase in temperature.
	Vibration	< 5.9m/S2(0.6G)
	StorageTemperature	-40℃~+70℃