

# PDR100 / PDR200

## Pixsys inverters



PDR100 single-phase compact inverter with V / f control  
PDR200 three-phase vectorial inverter, sensorless open-loop control  
Power range 0.4kW to 22kW  
Built-in Modbus RTU communication and EMC Filter

### Pixsys srl

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# Main features



**PDR100**



**PDR200**

POWER SUPPLY (INPUT)	200..240 V AC 50/60 Hz Single-phase	380..480 V AC 50/60 Hz Tri-phase
POWER SUPPLY (output)	Tri-phase 0..input V AC Output frequency: 0.01~400 Hz	Tri-phase 0..input V AC Output frequency: 0.01~400 Hz (IM Sensorless: 0.01~120 Hz)
POWER RANGE	0.4 .. 2.2kW	0.75 .. 22 kW
CONTROL PANEL (built-in)	LED Keypad and Potentiometer	LED Keypad
SEALING	IP20	IP20
OPERATING CONDITIONS	Temperature -10..50 °C (14..122 °F), Humidity 95 % (without condensing)	
EMC FILTER (built-in)	C2 type	C3 type
CERTIFICATIONS	CE, UL	CE, UL

## HARDWARE FEATURES

DIGITAL INPUT	5 x PNP / NPN	5 x PNP/NPN, 1 x pulse train 12 V / 0..32 KHz (overlapped to 1 D.I.)
ANALOGUE INPUT	1 x potentiometer, 1 x 0..10 V, 1 x 0..10 V / 4..20 mA	
DIGITAL OUTPUT	2 x relays (1 NC/NO, 1 NO) 250 V AC / 1A max	2 x relays (1 NC/NO, 1 NO) 250 V AC / 1A max, 1 x Open Collector 26 V DC / 100 mA max / pulse train 12 V / 0..32 KHz
ANALOGUE OUTPUT	1 x 0..10 V	1 x 0..10 V / 4..20 mA
FIELDBUS (built-in)	RS485 Modbus RTU	
FIELDBUS (option)	○	Ethernet IP, Modbus TCP, CANopen, Profibus-DP, PROFINET

## SOFTWARE FEATURES

CONTROL ALGORITHM	V / f with motor sliding compensation	Vectorial sensorless open-loop control with load/motor autotuning
TORQUE BOOST	Automatic / Manual (up to 200 % from 0.5 Hz)	
SAFE TORQUE OFF FUNCTION (STO)	○	●

## Ordering codes

SERIES	INPUT PHASES	CAPACITY	INPUT VOLTAGE
PDR100	1 PH	0040 (0.4 kW)	2 (200-240 V)
		0075 (0.75 kW)	
		0220(2.2 kW)	
		0075 (0.75 kW)	
		0150 (1.5 kW)	
		0220 (2.2 kW)	
PDR200	3 PH	0370 (3.7 kW)	4 (380-480 V)
		0550 (5.5 kW)	
		0750 (7.5 kW)	
		1100 (11 kW)	
		1500 (15 kW)	
		1850 (18.5 kW)	
		2200 (22 kW)	