

4PD

4" PEDROLLO submersible motors

 Domestic use

 Civil use

 Industrial use



PERFORMANCE

- Power from **0.37 to 7.5 kW**

APPLICATION LIMITS

- Maximum liquid temperature **+35 °C**
- **200 m** immersion limit
- Starts/hour: **20** at regular intervals
- Minimum flow rate for motor cooling **8 cm/s**
- Continuous service **S1**

ELECTRIC MOTOR

- 2 pole electric motor, 50 Hz ($n \sim 2900 \text{ min}^{-1}$)
- Voltage:
 - single-phase **230 V**
 - three-phase **400 V**
- Insulation: class F
- Protection: IP 68

EN 60034-1
IEC 60034-1
CEI 2-3



CONSTRUCTION AND SAFETY STANDARDS

- Oil filled **rewindable** motors (non-toxic oil for use with food)
- **Jacket: AISI 316 stainless steel**
- **Shaft: "DUPLEX" stainless steel**
- Dimensions of the flange connection in compliance with **NEMA** standards.

Complete with power cable of the following length:

- **2 m** powers from 0.37 to 2.2 kW
- **3.6 m** powers from 3 to 7.5 kW.

CERTIFICATIONS

Company with management system certified DNV
ISO 9001: QUALITY
ISO 14001: ENVIRONMENT



OPTIONS AVAILABLE ON REQUEST

- Other voltages or 60 Hz frequency

SACRIFICIAL ANODE

(Supplied on request - code ASS4PDA01)

- Manufactured with a special zinc-aluminium cadmium-free alloy, suitable for contact with drinking water.
- It is easily fitted to the lower extremity of 4PD motors to protect them from corrosion in the presence of irregular currents or particularly aggressive waters, greatly increasing the life of the motor component.



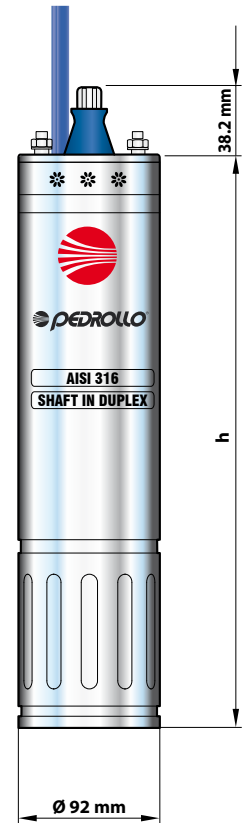
PERFORMANCE DATA

Single-phase versions

MODEL	Rated power P ₂		Axial load N	Revs min ⁻¹	Starting current Rated current	Power factor cos φ	Capacitor (VL=450V) μF	h mm	Weight kg
	kW	HP							
230 V / 50 Hz									
4PDm / 0.50	0.37	0.50	2000	2800	3.3	0.86	20	311	6.5
4PDm / 0.75	0.55	0.75		2810	3.5	0.89	25	331	7.2
4PDm / 1	0.75	1		2825	3.2	0.91	35	356	8.5
4PDm / 1.5	1.1	1.5		2840	3.2	0.93	40	396	10.2
4PDm / 2	1.5	2		2845	3.3	0.93	60	437	11.7
4PDm / 3	2.2	3		2820	3.1	0.94	75	492	14.9

Three-phase versions

MODEL	Rated power P ₂		Axial load N	Revs 1/min	Starting current Rated current	Power factor cos φ	h mm	Weight kg
	kW	HP						
400 V / 50 Hz								
4PD / 0.50	0.37	0.50	2000	2855	3.2	0.52	311	6.5
4PD / 0.75	0.55	0.75		2835	4	0.63	331	7.2
4PD / 1	0.75	1		2825	3.8	0.71	356	8.5
4PD / 1.5	1.1	1.5		2825	4.6	0.79	371	9.4
4PD / 2	1.5	2		2835	3.8	0.66	396	10.2
4PD / 3	2.2	3		2810	6.5	0.73	437	11.7
4PD / 4	3	4	3000	2840	5.6	0.79	450	13.2
4PD / 5.5	4	5.5	5000	2835	5.4	0.77	505	16.1
4PD / 7.5	5.5	7.5		2820	5.4	0.82	590	19.8
4PD / 10	7.5	10		2840	5.4	0.76	800	29.0



ABSORPTION

MODEL	VOLTAGE
Single-phase	230 V
4PDm / 0.50	3.6 A
4PDm / 0.75	4.7 A
4PDm / 1	5.9 A
4PDm / 1.5	8.3 A
4PDm / 2	10.7 A
4PDm / 3	15.2 A

MODEL	VOLTAGE	
	230 V	400 V
Three-phase		
4PD / 0.50	2.2 A	1.8 A
4PD / 0.75	3.4 A	2.0 A
4PD / 1	4.1 A	2.5 A
4PD / 1.5	5.9 A	3.4 A
4PD / 2	8.1 A	4.8 A
4PD / 3	10.6 A	6.1 A
4PD / 4	12.8 A	7.1 A
4PD / 5.5	15.6 A	9.2 A
4PD / 7.5	21.3 A	12.3 A
4PD / 10	-	16.4 A