

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, 60 Hz ($n \sim 3450 \text{ min}^{-1}$)
- 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

GUARANTEE

2 years subject to terms and conditions

SACRIFICIAL ANODE

(Supplied on request - code ASS4PDA01)

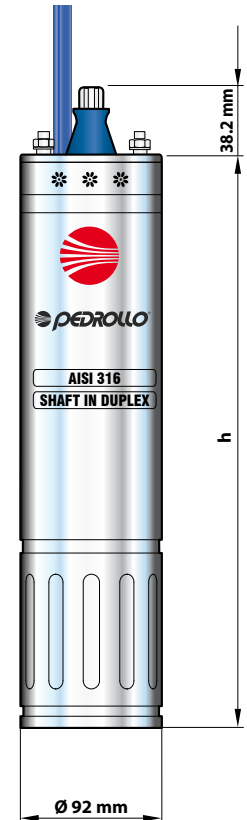
- Manufactured with a special zinc-aluminium cadmium-free alloy, suitable for contact with drinking water.
- It is easily fitted to the lower extremity of 4PD motors to protect them from corrosion in the presence of irregular currents or particularly aggressive waters, greatly increasing the life of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



PERFORMANCE DATA

Single-phase versions

MODEL	Rated power P ₂		Axial load N	Revs min ⁻¹	Starting current Current at Service Factor	Power factor cos φ	Capacitor (Vc=450v) μF	h mm	Weight kg
	kW	HP							
220 V / 60 Hz									
4PDm / 0.50	0.37	0.50	2000	3450	2.7	0.95	20	331	7.2
4PDm / 0.75	0.55	0.75		3420	2.1	0.94	25	331	7.2
4PDm / 1	0.75	1		3435	2.4	0.94	35	356	8.5
4PDm / 1.5	1.1	1.5		3425	2.5	0.93	40	396	10.2
4PDm / 2	1.5	2		3445	2.6	0.90	60	437	11.7
4PDm / 3	2.2	3		3425	2.9	0.92	75	492	14.9



Three-phase versions

MODEL	Rated power P ₂		Axial load N	Revs min ⁻¹	Starting current Current at Service Factor	Power factor cos φ	h mm	Weight kg
	kW	HP						
380 V / 60 Hz								
4PD / 0.50	0.37	0.50	2000	3455	3.4	0.79	331	7.2
4PD / 0.75	0.55	0.75		3450	3.3	0.68	331	7.2
4PD / 1	0.75	1		3460	3.7	0.61	356	8.5
4PD / 1.5	1.1	1.5		3440	3.5	0.72	371	9.4
4PD / 2	1.5	2		3445	3.5	0.76	396	10.2
4PD / 3	2.2	3		3430	3.2	0.73	437	11.7
4PD / 5.5	4	5.5		3440	4.1	0.78	505	16.1
4PD / 7.5	5.5	7.5	5000	3450	4.2	0.80	700	24.7
4PD / 10	7.5	10		3440	4.2	0.81	800	29.0

ABSORPTION

MODEL	Service Factor	VOLTAGE (single-phase)	
		220 V	
		Rated current	Current at Service Factor
Single-phase			
4PDm / 0.50	1.6	3.4 A	4.2 A
4PDm / 0.75	1.5	4.7 A	6.8 A
4PDm / 1	1.4	6.3 A	8.1 A
4PDm / 1.5	1.3	8.3 A	10.8 A
4PDm / 2	1.25	10.8 A	13.3 A
4PDm / 3	1.15	15.5 A	16.6 A

MODEL	Service Factor	VOLTAGE (three-phase)			
		220 V		380 V	
		Rated current	Current at S. F.	Rated current	Current at al S. F.
Three-phase					
4PD / 0.50	1.6	2.0 A	2.9 A	1.2 A	1.6 A
4PD / 0.75	1.5	3.2 A	4.1 A	1.9 A	2.3 A
4PD / 1	1.4	4.5 A	5.3 A	2.7 A	3.0 A
4PD / 1.5	1.3	5.4 A	5.9 A	3.9 A	4.3 A
4PD / 2	1.25	6.8 A	8.2 A	4.5 A	5.1 A
4PD / 3	1.15	9.6 A	10.6 A	6.7 A	7.4 A
4PD / 5.5	1.15	16.5 A	18.4 A	9.9 A	11.2 A
4PD / 7.5	1.15	21.9 A	25.1 A	12.9 A	14.2 A
4PD / 10	1.15	28.1 A	31.4 A	16.9 A	18.9 A