

# 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 ~ 3450 min<sup>-1</sup>)
- Voltage:
  - single-phase **220 V**
  - three-phase **380 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

### 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 <sub>2</sub>		Axial load N	Revs min <sup>-1</sup>	Starting current Rated current	Power factor cos φ	Capacitor (VL=450V) μF	h2 mm	Weight kg
	kW	HP							
<b>220 V / 60 Hz</b>									
4PDm / 0.50	0.37	0.50	2000	3450	2.7	0.95	20	331	7.5
4PDm / 0.75	0.55	0.75		3420	2.1	0.94	25	331	7.7
4PDm / 1	0.75	1		3435	2.4	0.94	35	356	8.9
4PDm / 1.5	1.1	1.5		3425	2.5	0.93	40	396	10.6
4PDm / 2	1.5	2		3445	2.6	0.90	60	437	12.6
4PDm / 3	2.2	3		3425	2.9	0.92	75	492	14.9

### Three-phase versions

MODEL	Rated power P <sub>2</sub>		Axial load N	Revs min <sup>-1</sup>	Starting current Rated current	Power factor cos φ	h2 mm	Weight kg
	kW	HP						
<b>380 V / 60 Hz</b>								
4PD / 0.50	0.37	0.50	2000	3455	3.4	0.79	331	7.5
4PD / 0.75	0.55	0.75		3450	3.3	0.68	331	7.7
4PD / 1	0.75	1		3460	3.7	0.61	356	8.8
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	10.6
4PD / 3	2.2	3		3430	3.2	0.73	437	12.5
4PD / 5.5	4	5.5	5000	3440	4.1	0.78	505	16.3
4PD / 7.5	5.5	7.5		3450	4.2	0.80	590	20.1
4PD / 10	7.5	10		3440	4.2	0.81	800	29.5



## ABSORPTION

MODEL	Service Factor	VOLTAGE (single-phase)	
		220 V	
Single-phase		Rated current	Service factor current
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	13.5 A
4PDm / 3	1.15	15.5 A	16.6 A

MODEL	Service Factor	VOLTAGE (three-phase)			
		220 V		380 V	
Three-phase		Rated current	S.F. current	Rated current	S.F. current
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	6.7 A	7.4 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