

# 4PS

## 4" encapsulated 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**
- **100 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** up to 2.2 kW
  - three-phase **400 V**
- Insulation: class F
- Protection: IP 68

### CONSTRUCTION AND SAFETY STANDARDS

- **Encapsulated** water filled submersible motors
- **Jacket: AISI 316 stainless steel**
- **Shaft: "DUPLEX" stainless steel**
- Dimensions of the flange connection in accordance **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.

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



### CERTIFICATIONS

Company with management system certified DNV  
ISO 9001: QUALITY



### OPTIONS AVAILABLE ON REQUEST

- Other voltages or 60 Hz frequency

## 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	h mm	Weight kg
	kW	HP							
<b>230 V / 50 Hz</b>									
4PSm / 0.50	0.37	0.50	2000	2845	3.4	0.88	20	237	8.2
4PSm / 0.75	0.55	0.75		2840	3.8	0.93	25	257	9.0
4PSm / 1	0.75	1		2835	3.8	0.92	35	272	9.6
4PSm / 1.5	1.1	1.5		2820	3.3	0.91	40	312	11.2
4PSm / 2	1.5	2	3000	2830	3.2	0.94	60	352	13.1
4PSm / 3	2.2	3		2810	3.6	0.94	75	402	15.5

### 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	h mm	Weight kg
	kW	HP						
<b>400 V / 50 Hz</b>								
4PS / 0.50	0.37	0.50	2000	2855	4.2	0.64	237	8.1
4PS / 0.75	0.55	0.75		2835	4.1	0.70	237	8.1
4PS / 1	0.75	1		2830	4.4	0.68	257	8.9
4PS / 1.5	1.1	1.5		2825	4.6	0.69	272	9.6
4PS / 2	1.5	2	3000	2820	4.7	0.73	297	10.7
4PS / 3	2.2	3		2805	5.2	0.74	352	13.1
4PS / 4	3	4		2845	5.7	0.82	484	18.3
4PS / 5.5	4	5.5	6500	2850	5.9	0.78	574	22.6
4PS / 7.5	5.5	7.5		2845	5.9	0.84	664	27.1
4PS / 10	7.5	10		2830	5.8	0.84	764	31.6



## ABSORPTION

MODEL	VOLTAGE
Single-phase	230 V
4PSm / 0.50	3.5 A
4PSm / 0.75	4.4 A
4PSm / 1	5.9 A
4PSm / 1.5	8.1 A
4PSm / 2	10.7 A
4PSm / 3	16.2 A

MODEL	VOLTAGE
Three-phase	400 V
4PS / 0.50	1.6 A
4PS / 0.75	1.8 A
4PS / 1	2.5 A
4PS / 1.5	3.4 A
4PS / 2	4.3 A
4PS / 3	6.0 A
4PS / 4	6.9 A
4PS / 5.5	9.6 A
4PS / 7.5	12.4 A
4PS / 10	16.9 A