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 ~ 2900 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.

➠ **Single-phase versions supplied with a capacitor included in the packaging.**

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	Revs	Starting current / Rated current	Power factor	Capacitor (VL=450V)	h	Weight
230 V / 50 Hz	kW	HP	N	min⁻¹		cos φ	µF	mm	kg
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	Revs	Starting current / Rated current	Power factor	h	Weight
400 V / 50 Hz	kW	HP	N	1/min		cos φ	mm	kg
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	
Three-phase	230 V	400 V
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