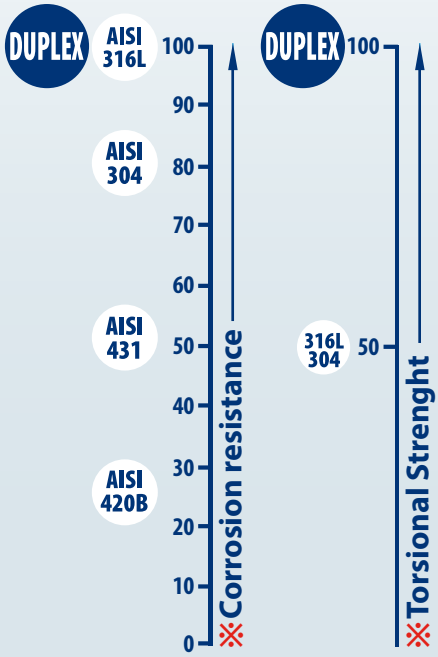
4PS 4" 'encapsulated' submersible motors

※ **Encapsulated water-filled motors ensure absolute operational safety**



※ **DUPLEX stainless steel shaft**

※ **AISI 316 casing**

※ **DUPLEX steel is recognized for its outstanding mechanical strength, which is twice that of AISI 304/316L steel.**

ELECTRIC MOTOR

The **4PS** series encapsulated 4" submersible motors are ideal for applications where reliable, maintenance-free operation is crucial.

Featuring a special "canned" construction, these motors eliminate the need for mechanical sealing, ensuring total safety against water infiltration into the electrical winding.

TECHNICAL DATA

- 2 poles, 50 Hz (n ≈ 2900 min^{-1})
- Voltage:
  - single-phase 230 V
  - three-phase 400 V
- Power from **0.37** to **7.5 kW**
- Continuous running duty **S1**
- Class F insulation and IP 68 protection

AVAILABLE UPON REQUEST

※ Other voltages

MATERIALS AND COMPONENTS

※ Encapsulated water filled submersible motors
※ **Sleeve: AISI 316 stainless steel**
※ **Shaft: 'DUPLEX' stainless steel**
※ Mating dimensions according to **NEMA**standard .
※ Power cable included:
  – **2 m** for power ratings from 0.37 to 2.2 kW
  – **3.6 m** for power ratings from 3 to 7.5 kW.

APPLICATION LIMITS

- Liquid temperature up to **+35 °C**
- Depth of use up to **100 m** below water level
- Starts per hour: max. **20** at regular intervals
- Minimum cooling flow **8 cm/s**

WARRANTY

- 3-Year Warranty Included in Our Standard Terms and Conditions

PERFORMANCE DATA

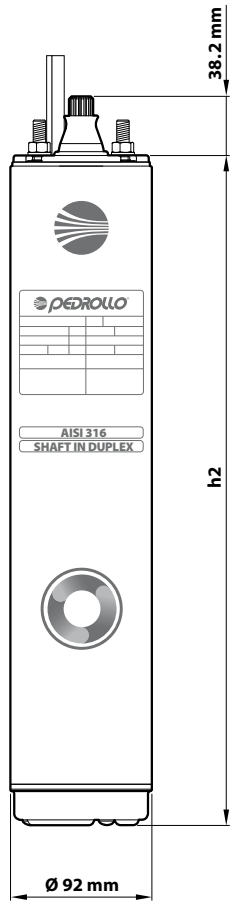
50 Hz

※ Single-phase versions - 230 V / 50 Hz

TYPE	Rated power P2		Axial load	Revolutions	Starting current / Current nominal	Power factor	Capacitor (VL=450V)	h2	Weight
Single-phase	kW	HP	N	min⁻¹		Cos φ	µF	mm	kg
4PSm / 0.50	**0.37**	**0.50**	2000	2845	3.4	0.88	20	237	8.6
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	11.5
4PSm / 2	**1.5**	**2**	3000	2830	3.2	0.94	60	352	13.2
4PSm / 3	**2.2**	**3**		2810	3.6	0.94	70	402	15.5

※ Three-phase versions - 400 V / 50 Hz

TYPE	Rated power P2		Axial load	Revolutions	Starting current / Current nominal	Power factor	h2	Weight
Three-phase	kW	HP	N	min⁻¹		Cos φ	mm	kg
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	9.0
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	22.5
4PS / 7.5	**5.5**	**7.5**		2845	5.9	0.84	664	26.7
4PS / 10	**7.5**	**10**		2830	5.8	0.84	764	31.6



ABSORPTION

TYPE	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

TYPE	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