

Sumoto

4WP 2-WIRE

4" 2 wire encapsulated submersible motor with built-in electronic starter



The 4WP 2-wire motor is a water-filled, encapsulated submersible motor with an integrated electronic starter for quick and easy installation. Ideal for residential wells, garden irrigation, and small-scale water systems, it combines convenience with robust performance.

Its water-based cooling system ensures efficient heat dissipation, while the encapsulated stator offers excellent protection against humidity and mechanical stress. Each motor includes built-in thermal overload protection to safeguard against overheating, as well as a built-in lightning arrestor to ensure reliable and safe operation.

The 4WP 2-wire is a dependable solution for standard submersible applications.

TECHNICAL FEATURES

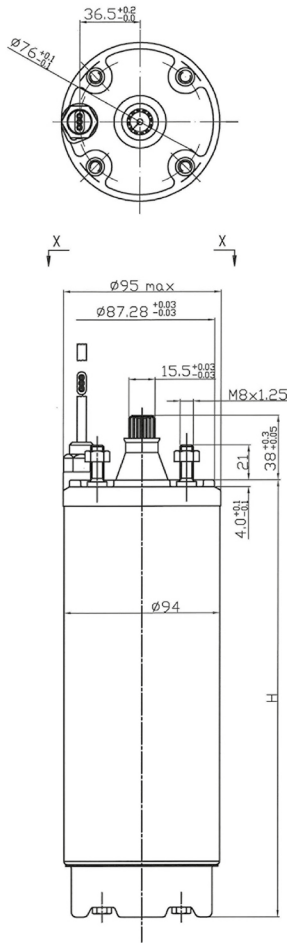
- Encapsulated resin filled stator.
- Built in electronic starter.
- Built in thermal overload.
- Built in lightning arrestor.
- Upper bracket: Cataphoresis treated cast iron plus SS304 cover cap.
- Motor case: SS 304.
- Motor shaft: SS 304.
- Shaft end and coupling: NEMA standard.
- Kingsbury thrust bearing.
- Winding: enameled copper – Class F insulation.
- Degree of protection: IP68/Class B.
- Max temp. 35° with water cooling flow min. 0.08 m/s.
- Max depth immersion: 300 m.
- Nos. of start per hour: max 30 at regular intervals.
- Labyrinth seal, sand slinger and lip seal.
- Coolant: water and propylene glycol.
- Motor cable length: 1,75 m (2 wires plus ground).
- Voltage variation: +6 / -10%.
- Suitable for horizontal operation.

MOTOR RANGE VERSIONS

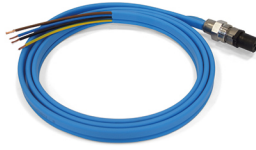
- Single Phase: 0.37kW (0.5hp) to 1.1kW (1.5hp), 220-230V / 50Hz (or 60 Hz).
- Other voltage and frequencies available upon request.



TECHNICAL DRAWING



4WP 2W CONSTRUCTION DETAILS



The motor features a removable cable connector for quick and easy maintenance. Our flat blue power cable, approved for use with drinking water, is certified according to ACS, KTW, and WRAS. Upon request, a stranded cable version is also available.

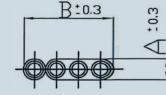
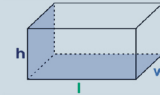


The 4WP is equipped with Kingsbury-type thrust bearings, featuring hardened AISI pads and a graphite carbon. Available load ratings are 1500 N and 3000 N.



The upper support is made of cathodically coated cast iron, ensuring excellent protection against corrosion even in harsh environments. It is completed with a stainless steel 304 cover for added durability and resistance to external agents.

PACKAGING WEIGHT & DIMENSIONS



	Type	kW	Hp	Thrust Load	Weight	Height	Width	Length	Cable		
					kg	cm	cm	cm	Sec. mm ²	A mm	B mm
SINGLE PHASE	4WP 050 M 2W	0,37	0,5	1500 N	9,5	13,0	13,5	48,2	1,5	5,3	10,7
	4WP 075 M 2W	0,55	0,75	1500 N	10,5	13,0	13,5	48,2	1,5	5,3	10,7
	4WP 100 M 2W	0,75	1	1500 N	11,4	13,0	13,5	48,2	1,5	5,3	10,7
	4WP 150 M 2W	1,1	1,5	3000 N	14,1	13,0	13,5	48,2	1,5	5,3	10,7

50Hz.

SINGLE PHASE - 230V

Type	kW	Hp	Thrust Load	Weight	Height	In	Istart	RPM	Cosφ	Ts/Tn	EFF%	Rm [Ω]
			N	Kg	mm	Amp						
4WP 050 M 2W	0,37	0,5	1500	9,00	270	4,3	26,0	2850	0,71	0,75	53,5	7,27
4WP 075 M 2W	0,55	0,75	1500	10,00	295	6,1	35,0	2855	0,71	0,77	55	4,95
4WP 100 M 2W	0,75	1	1500	10,90	315	9,0	49,0	2850	0,69	0,82	52,5	3,68
4WP 150 M 2W	1,1	1,5	3000	13,60	390	11,4	72,0	2855	0,73	0,81	57	2,62

60Hz.

SINGLE PHASE - 220V

Type	kW	Hp	Thrust Load	Weight	Height	In	Istart	I _{max}	RPM	Cosφ	Ts/Tn	EFF%	S.F.	Rm [Ω]
			N	Kg	mm	Amp								
4WP 050 M 2W	0,37	0,5	1500	9,00	270	4,8	31,0	6,40	3500	0,70	0,58	50	1,60	4,96
4WP 075 M 2W	0,55	0,75	1500	10,00	295	7,0	39,0	9,30	3490	0,73	0,6	54	1,50	3,82
4WP 100 M 2W	0,75	1	1500	10,90	315	8,4	50,0	12,00	3490	0,71	0,6	57	1,40	2,48
4WP 150 M 2W	1,1	1,5	3000	13,60	390	12,0	71,0	15,40	3490	0,73	0,6	60	1,30	1,87

SINGLE PHASE - 115V

4WP 050 M 2W	0,37	0,5	1500	9,00	270	9,8	61,0	13,00	3550	0,70	0,58	50	1,60	1,17
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MADE IN ITALY

