

Sumoto

OP4 2-WIRE

4" 2 wire rewindable oil filled submersible motor



The OP4 2-wire motor is a compact and efficient solution for 4-inch submersible installations, featuring an integrated capacitor for simplified wiring and quick installation. Ideal for residential water wells, irrigation, and light-duty water supply systems, it offers reliable performance with minimal maintenance.

Each motor is equipped with a built-in thermal protection device that automatically stops the motor in case of overheating, ensuring safe and reliable operation. The oil-filled design, using high-quality dielectric oil, provides effective cooling, insulation, and long-term durability.

The OP4 2-wire is the smart choice for everyday pumping needs.

TECHNICAL FEATURES

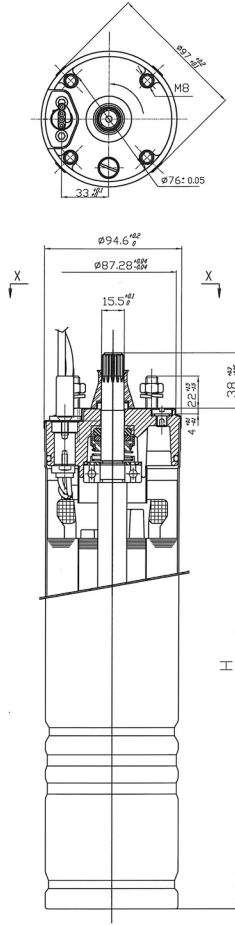
- Rewindable.
- Built in capacitor.
- Built in thermal overload.
- Upper bracket: Nickel plated cast iron, S1X, Brass, SS 304 or SS 316.
- Motor case: SS 304.
- Motor shaft: SS 304.
- Shaft extension and coupling: NEMA standard.
- High quality radial and thrust ball bearings.
- Winding: enameled copper - Class F insulation.
- Degree of protection: IP68/Class B.
- Max temp. 35° with water cooling flow min. 0.08 m/s.
- Max depth immersion: 200 m.
- Nos. of start per hour: max 30 at regular intervals.
- Over-dimensioned sand slinger .
- Mechanical seal: graphite/ceramic. SiC/SiC or SiC/Al mechanical seal available as option.
- Coolant: dielectric non toxic high quality lubricant.
- Motor cable length: 1,75 m (2 wires plus ground).
- Voltage variation: +/-10%.
- Suitable for horizontal operation.

MOTOR RANGE VERSIONS

- Single Phase: 0.37kW (0.5hp) to 1.5kW (2hp), 220-230V / 50Hz (or 60Hz).
Other voltage and frequencies available upon request.



TECHNICAL DRAWING



OP4 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.

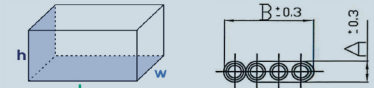


To adapt to a wide range of applications, the upper bracket is offered in several robust material options: a Standard version in nickel-plated cast iron, the S1X version in cathodic-coated cast iron with a 304 stainless steel cover, or fully in SS304 or SS316.



Our thrust bearings are available in 1500 N, 2500 N, 5000 N, and 7500 N to meet a wide range of thrust-load requirements. These bearings have been engineered for exceptional reliability and long-lasting performance.

PACKAGING WEIGHT & DIMENSIONS



	Type	kW	Hp	Thrust Load	Weight kg	Height cm	Width cm	Length cm	Cable		
									Sec. mm ²	A mm	B mm
SINGLE PHASE	OP4 050 M 2W	0,37	0,5	1500 N	7,5	13	13,5	48,2	1,5	5,3	10,7
	OP4 075 M 2W	0,55	0,75	1500 N	8,1	13	13,5	48,2	1,5	5,3	10,7
	OP4 100 M 2W	0,75	1	1500 N	9,2	13	13,5	48,2	1,5	5,3	10,7
	OP4 150 M 2W	1,1	1,5	1500 N	10,8	13	13,5	48,2	1,5	5,3	10,7
	OP4 200 M 2W	1,5	2	1500 N	12,5	13	13,5	51,7	1,5	5,3	10,7

50Hz.

SINGLE PHASE 2W - 220/230V

Type	kW	Hp	Thrust Load	Weight	Height	In	Istart	Imax	RPM	Cosφ	Ts/Tn	EFF%	Cr μF	Rm [Ω]
			N	Kg	mm	Amp								
OP4 050 M 2W	0,37	0,5	1500	7	325	3,9/4,1	10,2	3,8	2860	0,93	1,2	46	20	9
OP4 075 M 2W	0,55	0,75	1500	7,6	325	4,8/4,9	13,6	5,6	2820	0,86	0,7	55	25	6,4
OP4 100 M 2W	0,75	1	1500	8,7	350	6/6,2	18,5	8,0	2830	0,95	0,7	57	30	4,8
OP4 150 M 2W	1,1	1,5	1500	10,3	385	7,5/7,9	26,0	10,1	2820	0,86	0,6	70	30	3,4
OP4 200 M 2W	1,5	2	1500	12	420	10,2/10,1	38,0	12,0	2820	0,97	0,55	66	50	2,4

60Hz.

SINGLE PHASE 2W - 220/230V

Type	kW	Hp	Thrust Load	Weight	Height	In	Istart	Imax	RPM	Cosφ	S.F.	EFF%	Cr μF	Rm [Ω]
			N	Kg	mm	Amp								
OP4 050 M 2W	0,37	0,5	1500	7	325	3,2/3,4	13,5	4,2	3480	0,94	1,6	53	20	6,2
OP4 075 M 2W	0,55	0,75	1500	7,6	325	4,8	18,0	6,6	3480	0,96	1,5	52	25	5
OP4 100 M 2W	0,75	1	1500	8,7	350	6,4	24,0	7,9	3460	0,91	1,4	56	30	3,4
OP4 150 M 2W	1,1	1,5	1500	10,3	385	7,9	33,0	11,2	3460	0,94	1,3	65	30	2,5
OP4 200 M 2W	1,5	2	1500	12	420	10,0/9,9	34,0	12,0	3460	0,98	1,25	67	50	1,9

SINGLE PHASE 2W - 115V

OP4 050 M 2W	0,37	0,5	1500	7	325	7,4	26,0	10,6	3470	0,94	1,6	50	25	1,7
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MADE IN ITALY

