



## 4" Encapsulated Submersible Motors Type 4WP

After more than 15 years of experience made with the range INT4, Sumoto is proud to introduce the 4WP Series built to match the most demanding markets either for technical performances and external look of the product. New size of stator core, new water tight cable connector, wider range of motors, new axial thrust range are only few of the features of 4WP Series.

### TECHNICAL SPECIFICATIONS

- Stator filled with special epoxy resin and hermetically sealed for a better insulation of the winding and a greater heat exchange
- Rotor and thrust bearings lubricated by Water mixed with Propylene Glycol
- Removable plug-in lead cable
- Motor frame made out of AISI 304
- Shaft end made out of AISI 303
- Motor bracket made out of Cast Iron G20
- Bracket's cover made out of AISI 304
- Shaft sealing system granted by labyrinth seal, sand slinger and lip seal
- Pressure equalising diaphragm
- 4" NEMA flange
- Degree of protection: IP68
- Insulation: Class F
- Valve for restoring of cooling liquid

### OPERATING LIMITS

- Water well temperature: max. 35°C
- Maximum starts per hour: 30
- Minimum flow rate speed: 0.08 m/s
- Voltage tolerance: +6% / -10%
- Maximum deep head: 150 m
- Mounting position: vertical/horizontal
- Liquid characteristics: Ph from 5.8 to 8.6
- Service factor higher than 1 for 60 Hz motors
- Axial Thrust:
  - 1500 Newton      up to 0.75 kW
  - 3000 Newton      up to 2.20 kW
  - 6500 Newton      up to 5.50 kW
  - 4000 Newton      optional

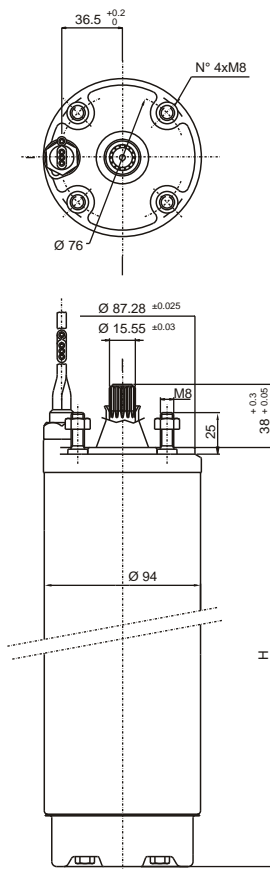
POWER FEEDING CABLE



## OPERATING DATA

SINGLE PHASE														
Type	Thrust Load N	Weight Kg	H mm	kW	Hp	In Amp	Istart Amp	RPM	CosØ	Ts/Tn PSC	EFF%	Crun µF	C start µF	
220/230V	4WP 050 M	1500	6.8	250	0.37	0.5	3.4	11.0	2850	0.91	0.65	58	16	36 - 46
	4WP 075 M	1500	8.1	265	0.55	0.75	4.4	16.6	2840	0.92	0.63	62	20	72 - 86
	4WP 100 M	1500	10.6	295	0.75	1	5.9	19.8	2860	0.94	0.62	65	30	88 - 106
	4WP 150 M	3000	11.2	340	1.1	1.5	7.8	29.5	2850	0.94	0.62	66	40	88 - 106
	4WP 200 M	3000	14	375	1.5	2	10.2	36.4	2850	0.95	0.61	68	50	130 - 156
	4WP 300 M	3000	16.4	430	2.2	3	15	52.5	2840	0.94	0.55	69	70	189 - 227
	4WP 500 M	6500	29.3	675	3.7	5	24	102	2840	0.92	0.50	72	100	189 - 227
THREE PHASE														
Type	Thrust Load N	Weight Kg	H mm	kW	Hp	In Amp	Istart Amp	RPM	CosØ	Ts/Tn PSC	EFF%	Crun µF	C start µF	
400V	4WP 050 T	1500	5.8	235	0.37	0.5	1.2	5.1	2840	0.73	2.1	63		
	4WP 075 T	1500	7	250	0.55	0.75	1.7	6.5	2840	0.73	2.0	64		
	4WP 100 T	1500	8.3	265	0.75	1	2.2	9.2	2840	0.75	1.9	67		
	4WP 150 T	3000	10.9	295	1.1	1.5	3.0	14.2	2840	0.76	2.3	71		
	4WP 200 T	3000	11.4	340	1.5	2	4.0	18.5	2830	0.78	2.1	72		
	4WP 300 T	3000	14.2	375	2.2	3	5.6	26.5	2830	0.79	2.4	74		
	4WP 400 T	6500	18.3	480	3	4	7.5	34.3	2830	0.79	2.2	76		
	4WP 550 T	6500	23.4	555	4	5.5	10.1	44	2840	0.77	2.3	75		
	4WP 750 T	6500	29.4	675	5.5	7.5	13.6	62	2840	0.80	2.2	76		
	4WP 1000 T	6500	33.8	765	7.5	10	18.3	90	2830	0.80	2.2	75		

## DIMENSION AND WEIGHT



Type	kW	Hp	Thrust Load	H mm	Cable			Weight Kg		
					Sez. mm <sup>2</sup>	A mm	B mm			
Single Phase 220/240V	4WP 050	0.37	0.5	1500	250	1.5	5.6	18.8	6.8	
	4WP 075	0.55	0.75	1500	250	1.5	5.6	18.8	8.1	
	4WP 100	0.75	1	1500	295	1.5	5.6	18.8	10.6	
	4WP 150	1.1	1.5	3000	340	1.5	5.6	18.8	11.2	
	4WP 200	1.5	2	3000	375	1.5	5.6	18.8	14	
	4WP 300	2.2	3	3000	430	1.5	5.6	18.8	16.4	
Three Phase 380/415V	4WP 050	0.37	0.5	1500	235	1.5	5.6	18.8	5.8	
	4WP 075	0.55	0.75	1500	250	1.5	5.6	18.8	8.1	
	4WP 100	0.75	1	1500	295	1.5	5.6	18.8	10.6	
	4WP 150	1.1	1.5	3000	340	1.5	5.6	18.8	11.2	
	4WP 200	1.5	2	3000	375	1.5	5.6	18.8	14	
Single Phase 220/240V	4WP 500	3.7	5	6500	675	1.5	5.6	18.8	29.4	
	Three Phase 380/415V	4WP 400	3	4	6500	480	1.5	5.6	18.8	18.3
		4WP 550	4	5.5	6500	555	1.5	5.6	18.8	23.4
4WP 750		5.5	7.5	6500	675	1.5	5.6	18.8	29.4	

\* Dimensional details are provided for reference only.  
 \* All specifications are subject to change without prior notice.

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