



4" Water Filled Submersible Motors Canned Type

Made in Italy



Catalogo 50/60 Hz

4" WATER COOLED SUBMERSIBLE MOTORS, CANNED TYPE

Motors designed to work in 4" or wider wells. The use of very high quality Made in Italy materials and our strict tests together with consolidated know how ensure high mechanical resistance and high performing electrical features. All parts in contact with water are in AISI 304 stainless steel which ensures resistance to corrosion even in the most extreme conditions of use.

PRODUCT FEATURES

STATOR: with 24 slots, specifically developed to achieve maximum electrical performance. Airtight sealed and resin encapsulated. A solution which ensures excellent heat exchange and extremely high mechanical resistance with high pressure, something typical of very deep immersions.

REMOVABLE POWER CABLE-CONNECTOR: it ensures perfect sealing in the most critical conditions while aids maintenance operations. The power cable complies with all major standards on the use in drinking water (KTW, ACS, WRAS).

FILLING LIQUID: mixture of water and propylene glycol to ensure adequate lubrication of the thrust bearing system together with the ability to lower the freezing point when stored in very cold places.

RESTORE LIQUID VALVE: it allows water in to restore internal level.

SHAFT: carbon-steel alloys in the rotor area, to foster electrical features. AISI 304 stainless steel projection. DUPLEX, a special type of stainless steel, replaces AISI 304 in motors bigger than 3Hp. This steel combines excellent resistance to corrosion and high mechanical resistance, which is necessary where static torque becomes really important.

THRUST BEARING SYSTEM: Kingsbury-type with stainless steel thrust bearing runners oscillating on a self-aligning system. A specific runner lapping process makes this system extremely reliable and efficient.

100% TESTED: all motors are tested at the end of the line.



4SW ELECTRICAL DATA - 50 HZ - 1 PHASE

Type	Voltage [V]	P [Hp]	P [Kw]	Ph	I _n [A]	I _{avv} [A]	rpm	cosφ	η [%]	Capacitor [μF]	Thrust Load [N]	Lenght A [mm]	Weight [kg]	Cable Section [mm ²]	Cable Lenght [m]
4SW 050	230	0,5	0,37	1	3,5	12,5	2860	0,88	52	20	2000	237	6,8	4 X 1,5	1,7
4SW 075	230	0,75	0,55	1	4,8	17,2	2855	0,88	57	25	2000	257	7,9	4 X 1,5	1,7
4SW 100	230	1	0,75	1	5,7	19,7	2840	0,91	63	35	2000	272	9,1	4 X 1,5	1,7
4SW 150	230	1,5	1,1	1	8,2	27,2	2845	0,91	64	40	2000	297	11,2	4 X 1,5	1,7
4SW 200	230	2	1,5	1	10,5	36,4	2840	0,92	68	60	3000	332	13,4	4 X 1,5	1,7
4SW 300	230	3	2,2	1	15,2	48,9	2840	0,91	69	70	3000	387	14,2	4 X 1,5	1,7
4SO 500	230	5	3,7	1	25	98,8	2845	0,95	68	100+ 315/400	6500	634	27,8	4 X 2	2,7

4SW ELECTRICAL DATA - 50 HZ - 3 PHASE

Type	Voltage [V]	P [Hp]	P [Kw]	Ph	I _n [A]	I _{avv} [A]	rpm	cosφ	η [%]	Capacitor [μF]	Thrust Load [N]	Lenght A [mm]	Weight [kg]	Cable Section [mm ²]	Cable Lenght [m]
4SW 050	230	0,5	4	3	2,3	9,3	2855	0,57	71	-	2000	212	5,8	4 X 1,5	1,7
	400				1,4	6,0	2850	0,54	70	-					
4SW 075	230	0,75	5,5	3	2,8	14,0	2855	0,65	76	-	2000	237	6,8	4 X 1,5	1,7
	400				1,7	8,3	2855	0,62	75	-					
4SW 100	230	1	7,5	3	3,4	16,1	2850	0,72	77	-	2000	257	7,9	4 X 1,5	1,7
	400				2,1	9,8	2825	0,76	68	-					
4SW 150	230	1,5	9,2	3	5	26,0	2820	0,77	72	-	2000	272	9,1	4 X 1,5	1,7
	400				3,2	16,1	2825	0,68	73	-					
4SW 200	230	2	11	3	6,6	28,6	2835	0,8	71	-	3000	297	11,2	4 X 1,5	1,7
	400				4,1	18,7	2840	0,75	71	-					
4SW 300	230	3	15	3	9,8	41,1	2835	0,8	70	-	3000	332	13,4	4 X 1,5	1,7
	400				5,9	28,1	2830	0,78	69	-					
4SW 400	230	4	22	3	13	78,5	2855	0,79	73	-	3000	387	18,9	4 X 1,5	1,7
	400									-	6500	469	19,8	4 X 2	2,7
4SW 400	230	4	22	3	7,9	48,4	2850	0,76	72	-	3000	387	18,9	4 X 1,5	1,7
	400									-	6500	469	19,8	4 X 2	2,7
4SW 550	230	5,5	30	3	17,2	89,4	2845	0,76	77	-	6500	574	23,4	4 X 2	2,7
	400				10,1	51,5	2850	0,74	77	-					
4SW 750	230	7,5	37	3	24,5	113,4	2850	0,76	74	-	6500	634	27,8	4 X 2	2,7
	400				13,9	66,6	2850	0,77	74	-					
4SW 1000	400	10	7,5	3	16,9	91,5	2845	0,76	74	-	6500	734	31,4	4 X 2	2,7

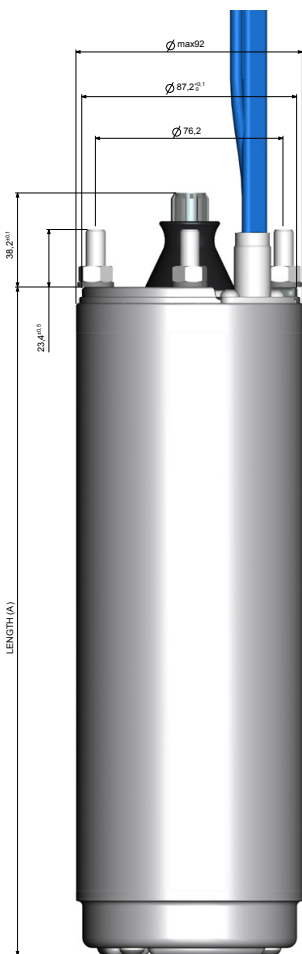
4SW ELECTRICAL DATA - 60 HZ - 1 PHASE

Type	Voltage [V]	P [Hp]	P [Kw]	Ph	I _n [A]	I _{av} [A]	rpm	cosφ	η [%]	Capacitor [μF]	Thrust Load [N]	Lenght A [mm]	Weight [kg]	Cable Section [mm ²]	Cable Lenght [m]
4SW 050	220	0,5	0,37	1	3,8	20,2	3470	0,97	57	20	2000	331,3	7,9	4 X 1,5	1,7
	110				8,9	29	3465	0,95	56	100					
4SW 075	220	0,75	0,55	1	5,4	22,6	3450	0,94	81	25	2000	356,3	7,9	4 X 1,5	1,7
	110				12,7	39	3470	0,91	60	120					
4SW 100	220	1	0,75	1	6,7	32	3440	0,96	63	35	2000	371,3	9,1	4 X 1,5	1,7
	110				15,1	48	3480	0,97	62	140					
4SW 150	220	1,5	1,1	1	9,4	39	3440	0,97	66	40	2000	386,3	11,2	4 X 1,5	1,7
	110				18,9	72	3470	0,98	65	160					
4SW 200	220	2	1,5	1	11,4	43	3432	0,98	68	60	3000	463,3	13,4	4 X 1,5	1,7
4SW 300	220	3	2,2	1	16,3	47	3425	0,98	68	70	3000	481,3	14,2	4 X 1,5	1,7
4SW 500	220	5	3,7	1	24,9	92	3450	0,98	68	90	6500	699,5	27,8	4 X 2	2,7

4SW ELECTRICAL DATA - 60 HZ - 3 PHASE

Type	Voltage [V]	P [Hp]	P [Kw]	Ph	I _n [A]	I _{av} [A]	rpm	cosφ	η [%]	Capacitor [μF]	Thrust Load [N]	Lenght A [mm]	Weight [kg]	Cable Section [mm ²]	Cable Lenght [m]
4SW 050	220	0,5	4	3	3,2	18,9	3455	0,65	67	-	2000	237	6,8	4 X 1,5	1,7
	380				2	11,6	3475	0,56	67	-					
4SW 075	220	0,75	5,5	3	4,2	26,5	3465	0,68	71	-	2000	257	6,8	4 X 1,5	1,7
	380				2,5	16,8	3480	0,59	71	-					
4SW 100	220	1	7,5	3	5,7	30,5	3480	0,60	72	-	2000	272	7,9	4 X 1,5	1,7
	380				3,5	21,3	3470	0,59	71	-					
4SW 150	220	1,5	9,2	3	5,9	35,0	3465	0,74	72	-	2000	297	9,1	4 X 1,5	1,7
	380				3,7	22,0	3455	0,69	72	-					
4SW 200	220	2	11	3	7,8	44,0	3450	0,76	73	-	3000	312	12,1	4 X 1,5	1,7
	380				4,7	24,9	3440	0,73	72	-					
4SW 300	220	3	15	3	10,4	51,0	3445	0,74	75	-	3000	332	13,4	4 X 1,5	1,7
					6,3	31,0	3440	0,74	74	-					
4SW 400	220	4	22	3	13,6	74,0	3465	0,76	75	-	3000	440	18,9	4 X 1,5	1,7
	380				-	6500	469	19,8	4 X 2	2,7					
4SW 400	220	4	22	3	8,4	42,0	3460	0,74	75	-	3000	440	18,9	4 X 1,5	1,7
	380				-	6500	469	19,8	4 X 2	2,7					
4SW 550	220	5,5	30	3	17,4	120,0	3480	0,83	77	-	6500	574	23,4	4 X 2	2,7
	380				9,7	69,0	3480	0,87	77	-					
4SW 750	220	7,5	37	3	25,5	139,0	3455	0,75	79	-	6500	634	27,8	4 X 2	2,7
	380				14,2	81,0	3460	0,72	78	-					
4SW 1000	380	10	7,5	3	18,8	96,0	3460	0,77	81	-	6500	734	31,4	4 X 2	2,7

TECHNICAL SPECIFICATIONS



MOTOR/PUMP FLANGE	4" NEMA STANDARD
DEGREE OF PROTECTION	IP 68
INSULATION CLASS	F
VOLTAGE TOLERANCE	- 10% / + 10%
PUMPED LIQUID TEMPERATURE	0°C – 35°C 32°F – 95°F
MIN. COOLING FLOW	0,1 m/s 0,328 ft/s
MAX. STARTS / HOUR	30
MOUNTING	VERTICALE E/O ORIZZONTALE VERTICAL AND/OR HORIZONTAL
MAX. IMMERSION DEPTH	200M
THRUST LOAD	
FROM 0,5 HP UNTIL 1,5 HP	2000N
FROM 2 HP UNTIL 4 HP	3000N
FROM 4 HP UNTIL 10 HP	6500N

SINGLE PHASE VERSION: PSC TYPE (PERMANENT SPLIT CAPACITOR)

CABLES, VOLTAGE, THRUST LOADS [...] SPECIAL VERSIONS AVAILABLE