

SAND
RESISTANTS4
4" SUBMERSIBLE PUMPS

C E DOMESTIC, INDUSTRIAL WATER SUPPLY



Multistage, centrifugal, submerged motor-driven pumps for 4" wells or larger, able to generate a vast range of heads and flow rates.

They can be employed in a wide range of lifting, distributing and pressurising applications in civil and industrial water installations, supplying autoclaves and cisterns, fire fighting and washing systems, irrigation systems.

Constructional characteristics:

Base support and upper head (with built-in check valve) in stainless steel. Stainless steel cable cover.

Two-pole, water-filled, submersible TESLA electric motor, built entirely in AISI 304 stainless steel for the parts in contact with the water. Canned-type stator.

Capacitor and manually resettable overload protection inside the panel.

Protection for the three-phase version is the responsibility of the user.

Pumped liquid: clean, free from solid or abrasive substances, chemically neutral and close to the characteristics of water.

Liquid temp. range: from 0°C to +40°C.

Motor protection level: IP 68.

Insulation class: F.

Special versions on request: with different voltages and/or frequencies.

Maximum content of sand: 120 g/m³.

The CONTROL BOX HS is available on request for the single phase version to increase the static torque.

Available also with TESLA oil - filled motor. (On request).

TECHNICAL DATA - Single - phase

MODEL	CODE	ELECTRICAL DATA			DNM	WEIGHT KG	
		VOLTAGE 50 Hz	P2 NOMINAL				In A
			kW	HP			
S4 A 8 - M	504100202	1x230 V ~	0,37	0,5	3,3	1 1/4" G-F	11,2
S4 A 12 - M	504100212	1x230 V ~	0,37	0,5	3,3	1 1/4" G-F	12,5
S4 A 18 - M	504100222	1x230 V ~	0,55	0,75	4,6	1 1/4" G-F	14,5
S4 A 25 - M	504100232	1x230 V ~	0,75	1	6,2	1 1/4" G-F	19,8
S4 A 36 - M	504100242	1x230 V ~	1,1	1,5	8,6	1 1/4" G-F	19,8
S4 A 50 - M	504100252	1x230 V ~	1,5	2	11	1 1/4" G-F	27,8
S4 B 5 - M	504100402	1x230 V ~	0,37	0,5	3,3	1 1/4" G-F	10,8
S4 B 8 - M	504100412	1x230 V ~	0,37	0,5	3,3	1 1/4" G-F	12,1
S4 B 12 - M	504100422	1x230 V ~	0,55	0,75	4,6	1 1/4" G-F	14
S4 B 16 - M	504100432	1x230 V ~	0,75	1	6,2	1 1/4" G-F	15,9
S4 B 24 - M	504100442	1x230 V ~	1,1	1,5	8,6	1 1/4" G-F	22,6
S4 B 32 - M	504100452	1x230 V ~	1,5	2	11	1 1/4" G-F	25,4
S4 B 40 - M	504100462	1x230 V ~	2,2	3	16	1 1/4" G-F	29
S4 B 48 - M	504100472	1x230 V ~	2,2	3	16	1 1/4" G-F	32,3
S4 C 6 - M	504100602	1x230 V ~	0,37	0,5	3,3	1 1/4" G-F	12
S4 C 9 - M	504100612	1x230 V ~	0,55	0,75	4,6	1 1/4" G-F	14,2
S4 C 13 - M	504100622	1x230 V ~	0,75	1	6,2	1 1/4" G-F	16,2
S4 C 19 - M	504100632	1x230 V ~	1,1	1,5	8,6	1 1/4" G-F	18,6
S4 C 25 - M	504100642	1x230 V ~	1,5	2	11	1 1/4" G-F	25,2
S4 C 32 - M	504100652	1x230 V ~	2,2	3	16	1 1/4" G-F	27,4
S4 C 39 - M	504100662	1x230 V ~	2,2	3	16	1 1/4" G-F	38
S4 D 4 - M	504100802	1x230 V ~	0,37	0,5	3,3	1 1/4" G-F	11,8
S4 D 6 - M	504100812	1x230 V ~	0,55	0,75	4,6	1 1/4" G-F	13,5
S4 D 8 - M	504100822	1x230 V ~	0,75	1	6,2	1 1/4" G-F	15
S4 D 13 - M	504100832	1x230 V ~	1,1	1,5	8,6	1 1/4" G-F	17,5
S4 D 17 - M	504100842	1x230 V ~	1,5	2	11	1 1/4" G-F	19,6
S4 D 21 - M	504100852	1x230 V ~	2,2	3	16	1 1/4" G-F	24,9
S4 D 25 - M	504100862	1x230 V ~	2,2	3	16	1 1/4" G-F	25,8
S4 E 6 - M	504101002	1x230 V ~	0,75	1	6,2	2" G-F	15,4
S4 E 8 - M	504101012	1x230 V ~	1,1	1,5	8,6	2" G-F	17,1
S4 E 12 - M	504101022	1x230 V ~	1,5	2	11	2" G-F	19,5
S4 E 17 - M	504101032	1x230 V ~	2,2	3	16	2" G-F	25,9
S4 F 7 - M	504101122	1x230 V ~	2,2	3	16	2" G-F	23,5

TECHNICAL DATA - Three-phase

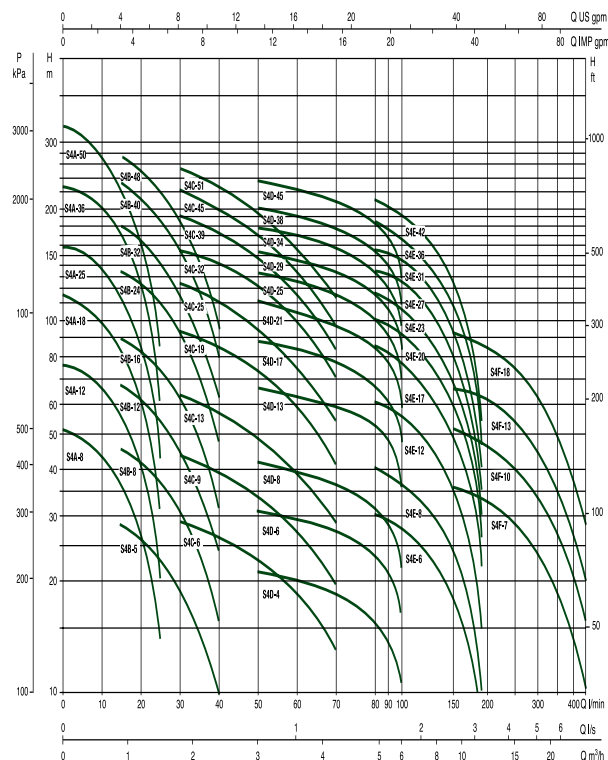
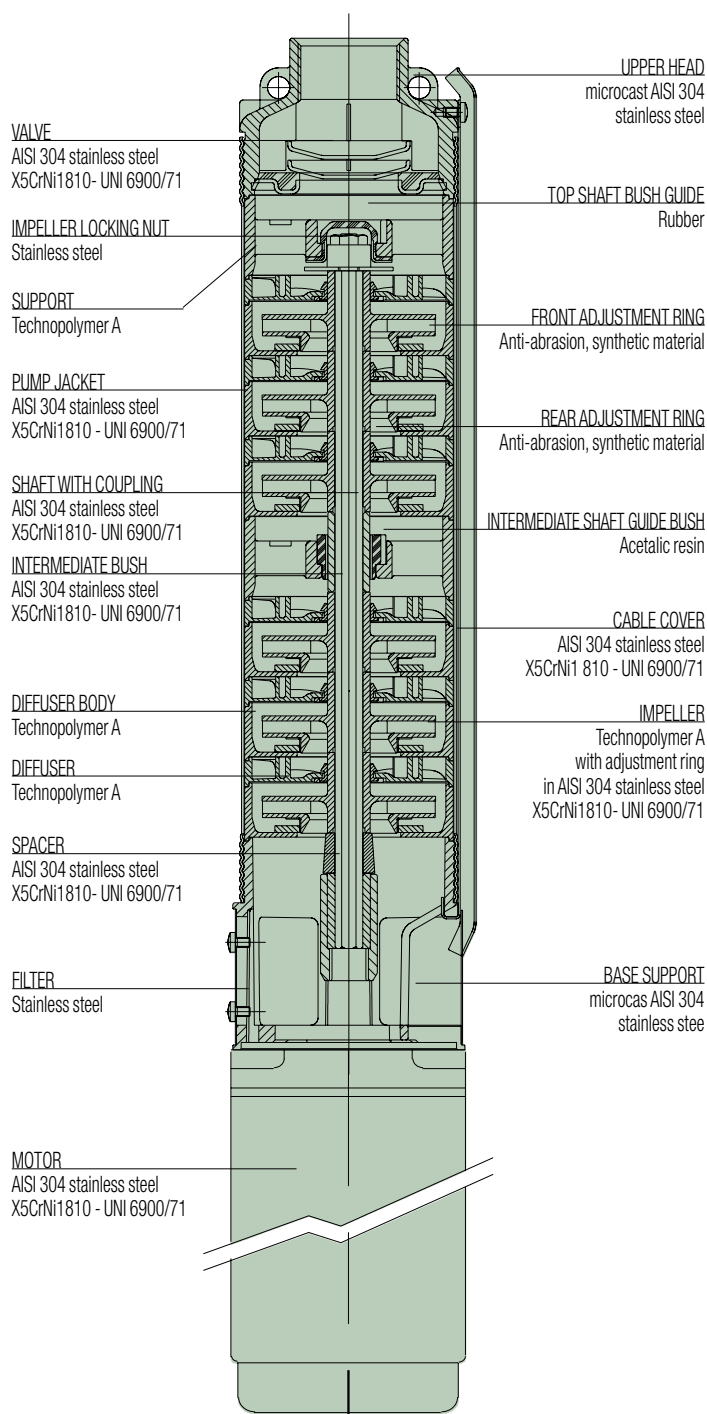
MODEL	CODE	ELECTRICAL DATA				DNM	WEIGHT KG
		VOLTAGE 50 Hz	P2 NOMINAL		In A		
			kW	HP			
S4 A 18 - T	504103022	3 x 400 V ~	0,55	0,75	1,9	1 1/4" G-F	13,2
S4 A 25 - T	504103032	3 x 400 V ~	0,75	1	2,4	1 1/4" G-F	15
S4 A 36 - T	504103042	3 x 400 V ~	1,1	1,5	3,4	1 1/4" G-F	22,6
S4 A 50 - T	504103052	3 x 400 V ~	1,5	2	4,4	1 1/4" G-F	26,8
S4 B 12 - T	504103222	3 x 400 V ~	0,55	0,75	1,9	1 1/4" G-F	12,5
S4 B 16 - T	504103232	3 x 400 V ~	0,75	1	2,4	1 1/4" G-F	14,2
S4 B 24 - T	504103242	3 x 400 V ~	1,1	1,5	3,4	1 1/4" G-F	16,7
S4 B 32 - T	504103252	3 x 400 V ~	1,5	2	4,4	1 1/4" G-F	23,5
S4 B 40 - T	504103262	3 x 400 V ~	2,2	3	5,9	1 1/4" G-F	25,3
S4 B 48 - T	504103272	3 x 400 V ~	2,2	3	5,9	1 1/4" G-F	27,5
S4 C 9 - T	504103412	3 x 400 V ~	0,55	0,75	1,9	1 1/4" G-F	12,5
S4 C 13 - T	504103422	3 x 400 V ~	0,75	1	2,4	1 1/4" G-F	14,5
S4 C 19 - T	504103432	3 x 400 V ~	1,1	1,5	3,4	1 1/4" G-F	17,1
S4 C 25 - T	504103442	3 x 400 V ~	1,5	2	4,4	1 1/4" G-F	23,2
S4 C 32 - T	504103452	3 x 400 V ~	2,2	3	5,9	1 1/4" G-F	29,5
S4 C 39 - T	504103462	3 x 400 V ~	2,2	3	5,9	1 1/4" G-F	33,5
S4 C 45 - T	504103472	3 x 400 V ~	3	4	8,3	1 1/4" G-F	42,6
S4 C 51 - T	504103482	3 x 400 V ~	3	4	8,3	1 1/4" G-F	44
S4 D 6 - T	504103612	3 x 400 V ~	0,55	0,75	1,9	1 1/4" G-F	12
S4 D 8 - T	504103622	3 x 400 V ~	0,75	1	4,4	1 1/4" G-F	13,5
S4 D 13 - T	504103632	3 x 400 V ~	1,1	1,5	3,4	1 1/4" G-F	15,8
S4 D 17 - T	504103642	3 x 400 V ~	1,5	2	4,4	1 1/4" G-F	17,8
S4 D 21 - T	504103652	3 x 400 V ~	2,2	3	5,9	1 1/4" G-F	20,1
S4 D 25 - T	504103662	3 x 400 V ~	2,2	3	5,9	1 1/4" G-F	26,5
S4 D 29 - T	504103672	3 x 400 V ~	3	4	8,3	1 1/4" G-F	32,5
S4 D 34 - T	504103682	3 x 400 V ~	3	4	8,3	1 1/4" G-F	36,5
S4 D 38 - T	504103692	3 x 400 V ~	4	5,5	10	1 1/4" G-F	43,6
S4 D 45 - T	504103702	3 x 400 V ~	4	5,5	10	1 1/4" G-F	46
S4 E 6 - T	504103802	3 x 400 V ~	0,75	1	2,4	2" G-F	13,9
S4 E 8 - T	504103812	3 x 400 V ~	1,1	1,5	3,4	2" G-F	15,5
S4 E 12 - T	504103822	3 x 400 V ~	1,5	2	4,4	2" G-F	18,5
S4 E 17 - T	504103832	3 x 400 V ~	2,2	3	5,9	2" G-F	20,9
S4 E 20 - T	504103842	3 x 400 V ~	3	4	8,3	2" G-F	25,2
S4 E 23 - T	504103852	3 x 400 V ~	3	4	8,3	2" G-F	29,5
S4 E 27 - T	504103862	3 x 400 V ~	4	5,5	10	2" G-F	45,8
S4 E 31 - T	504103872	3 x 400 V ~	4	5,5	10	2" G-F	47
S4 E 36 - T	504103882	3 x 400 V ~	5,5	7,5	14	2" G-F	62
S4 E 42 - T	504103892	3 x 400 V ~	5,5	7,5	14	2" G-F	65
S4 F 7 - T	504104002	3 x 400 V ~	2,2	3	5,9	2" G-F	20
S4 F 10 - T	504104012	3 x 400 V ~	3	4	8,3	2" G-F	26
S4 F 13 - T	504104022	3 x 400 V ~	4	5,5	10	2" G-F	34,5
S4 F 18 - T	504104032	3 x 400 V ~	5,5	7,5	14	2" G-F	40

AVAILABLE THREE-PHASE 3 X 230 V VERSION

TECHNICAL DATA - HYDRAULIC PART

MODEL	CODE	ELECTRICAL DATA		DNM	WEIGHT KG
		P2 NOMINAL			
		KW	HP		
S4A 8	504200200	0,25	0,33	1 1/4" G-F	3,6
S4A 12	504200210	0,37	0,5	1 1/4" G-F	4,1
S4A 18	504200220	0,55	0,75	1 1/4" G-F	4,8
S4A 25	504200230	0,75	1	1 1/4" G-F	5,6
S4A 36	504200240	1,1	1,5	1 1/4" G-F	7,3
S4A 50	504200250	1,5	2	1 1/4" G-F	9
S4B 5	504200400	0,25	0,33	1 1/4" G-F	3,2
S4B 8	504200410	0,37	0,5	1 1/4" G-F	3,7
S4B 12	504200420	0,55	0,75	1 1/4" G-F	4,2
S4B 16	504200430	0,75	1	1 1/4" G-F	4,8
S4B 24	504200440	1,1	1,5	1 1/4" G-F	5,8
S4B 32	504200450	1,5	2	1 1/4" G-F	7
S4B 40	504200460	2,2	3	1 1/4" G-F	8,2
S4B 48	504200470	2,2	3	1 1/4" G-F	9,7
S4C 6	504200600	0,37	0,5	1 1/4" G-F	3,7
S4C 9	504200610	0,55	0,75	1 1/4" G-F	4,4
S4C 13	504200620	0,75	1	1 1/4" G-F	5
S4C 19	504200630	1,1	1,5	1 1/4" G-F	6
S4C 25	504200640	1,5	2	1 1/4" G-F	7,2
S4C 32	504200650	2,2	3	1 1/4" G-F	9,2
S4C 39	504200660	2,2	3	1 1/4" G-F	10,4
S4C 45	504200670	3	4	1 1/4" G-F	11,8
S4C 51	504200680	3	4	1 1/4" G-F	15,5
S4D 4	504200800	0,37	0,5	1 1/4" G-F	3,3
S4D 6	504200810	0,55	0,75	1 1/4" G-F	3,7
S4D 8	504200820	0,75	1	1 1/4" G-F	4,5
S4D 13	504200830	1,1	1,5	1 1/4" G-F	5
S4D 17	504200840	1,5	2	1 1/4" G-F	5,7
S4D 21	504200850	2,2	3	1 1/4" G-F	6,6
S4D 25	504200860	2,2	3	1 1/4" G-F	7,5
S4D 29	504200870	3	4	1 1/4" G-F	8,3
S4D 34	504200880	3	4	1 1/4" G-F	7,5
S4D 38	504200890	4	5,5	1 1/4" G-F	10,4
S4D 45	504200900	4	5,5	1 1/4" G-F	12
S4E 6	504201000	0,75	1	2" G-F	4,3
S4E 8	504201010	1,1	1,5	2" G-F	4,8
S4E 12	504201020	1,5	2	2" G-F	6,1
S4E 17	504201030	2,2	3	2" G-F	7,5
S4E 20	504201040	3	4	2" G-F	8,6
S4E 23	504201050	3	4	2" G-F	9,4
S4E 27	504201060	4	5,5	2" G-F	10,8
S4E 31	504201070	4	5,5	2" G-F	21,9
S4E 36	504201080	5,5	7,5	2" G-F	23,5
S4E 42	504201090	5,5	7,5	2" G-F	18,4
S4F 7	504201200	2,2	3	2" G-F	5,3
S4F 10	504201210	3	4	2" G-F	6,6
S4F 13	504201220	4	5,5	2" G-F	8,3
S4F 18	504201230	5,5	7,5	2" G-F	10

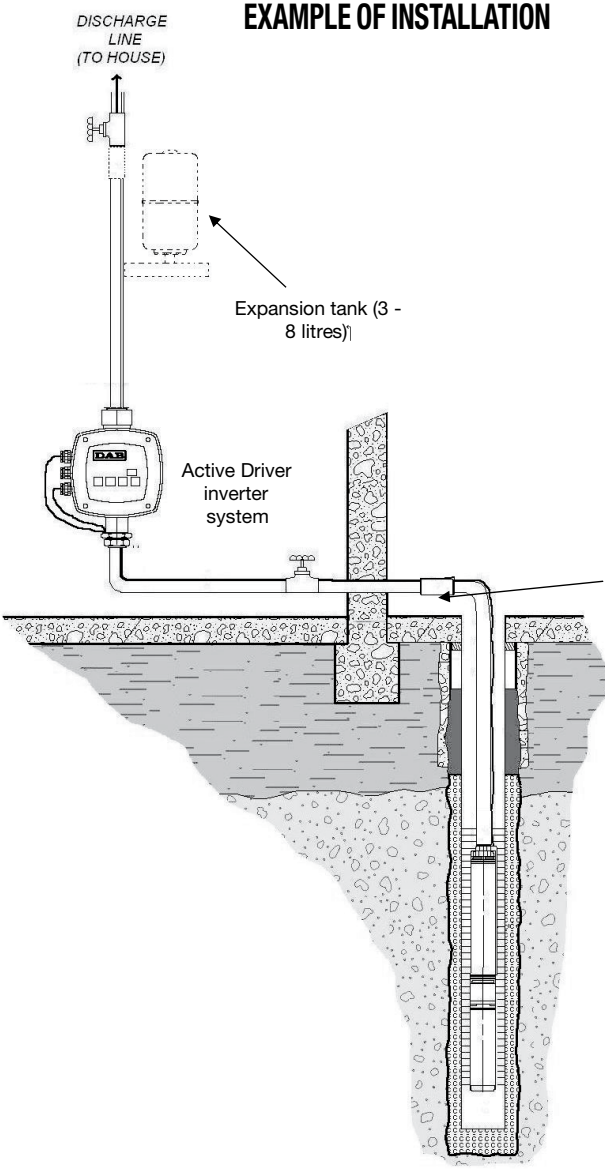
TECHNICAL DATA



SUBMERSIBLE PUMPS + ACTIVE DRIVER SELECTION TABLE EXAMPLE



EXAMPLE OF INSTALLATION



**NECESSARY COMPONENTS
FOR SYSTEM INSTALLATION**

1. Submerged pump
2. Inverter
3. Non-return valve
4. Expansion tank
5. 1 inverter power cable
6. 1 cable between inverter and pump

Caution:

In the version with single phase/single phase inverter (AD M/M 1,1) it is necessary to install the control box model electric panel, containing the starter condenser.

Non-return valve fitted to facilitate maintenance

SUGGESTION:

In some plants, we recommend the installation of a filter upline of the AD so as to prevent damage to the pressure sensor inside the inverter.

PUMPS MODEL	CODE	PUMPS VOLTAGE 50 Hz	ACTIVE DRIVER MODEL	CODE	ACTIVE DRIVER VOLTAGE 50 Hz	MAX. CABLE LENGHT PER SECTION		
						1,5 MM ²	2,5 MM ²	4 MM ²
S4 C 13 - M	504100622	Single phase 1x230 V~	ACTIVE DRIVER M/M 1.1	109640610	Singlephase 1x230 V~	60 mt	100 mt	160 mt
S4 C 9 - T	504104412	Three phase 3x230 V~	ACTIVE DRIVER M/T 2.2	109640600	Singlephase 1x230 V~	100 mt	170 mt	270 mt
S4 D 13 - T	504103632	Three phase 3x230 V~	ACTIVE DRIVER M/T 2.2	109640600	Singlephase 1x230 V~	100 mt	170 mt	270 mt
S4 D 21 - T	504103652	Three phase 3x400 V~	ACTIVE DRIVER T/T 3.0	109640620	Threephase 3x400 V~	160 mt	280 mt	-
S4 E 23 - T	504103852	Three phase 3x400 V~	ACTIVE DRIVER T/T 5.5	109640630	Threephase 3x400 V~	130 mt	215 mt	350 mt