

# S4 SUBMERGED PUMPS FOR 4" WELLS



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.

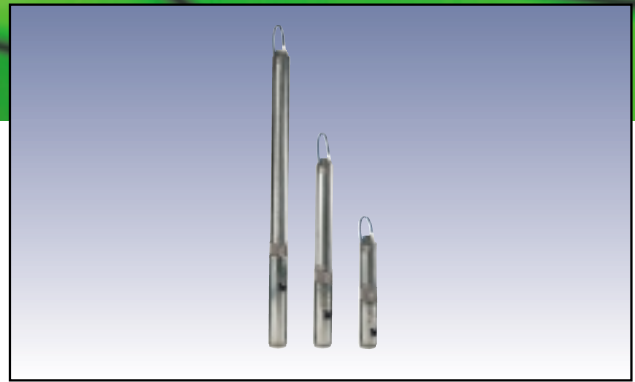
**Constructional characteristics:**

**Base support and upper head in microcast AISI 304 stainless steel with steel check valve built into the head.**

Two-pole, asynchronous submerged electric motor, built entirely in AISI 304 stainless steel.

Stator encapsulated in synthetic resin with high quality dielectrics and fitted inside a hermetic stainless steel casing.

Capacitor and manually resettable overload protection inside the panel supplied



with the single-phase version.

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

**Operating range:** from 0.24 to 24 m<sup>3</sup>/h with heads up to 320 m.

**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 58

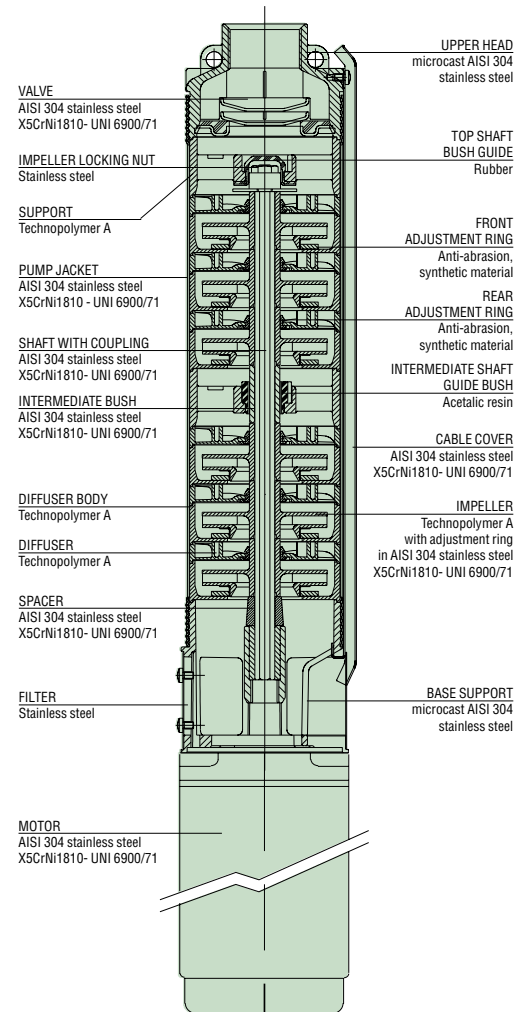
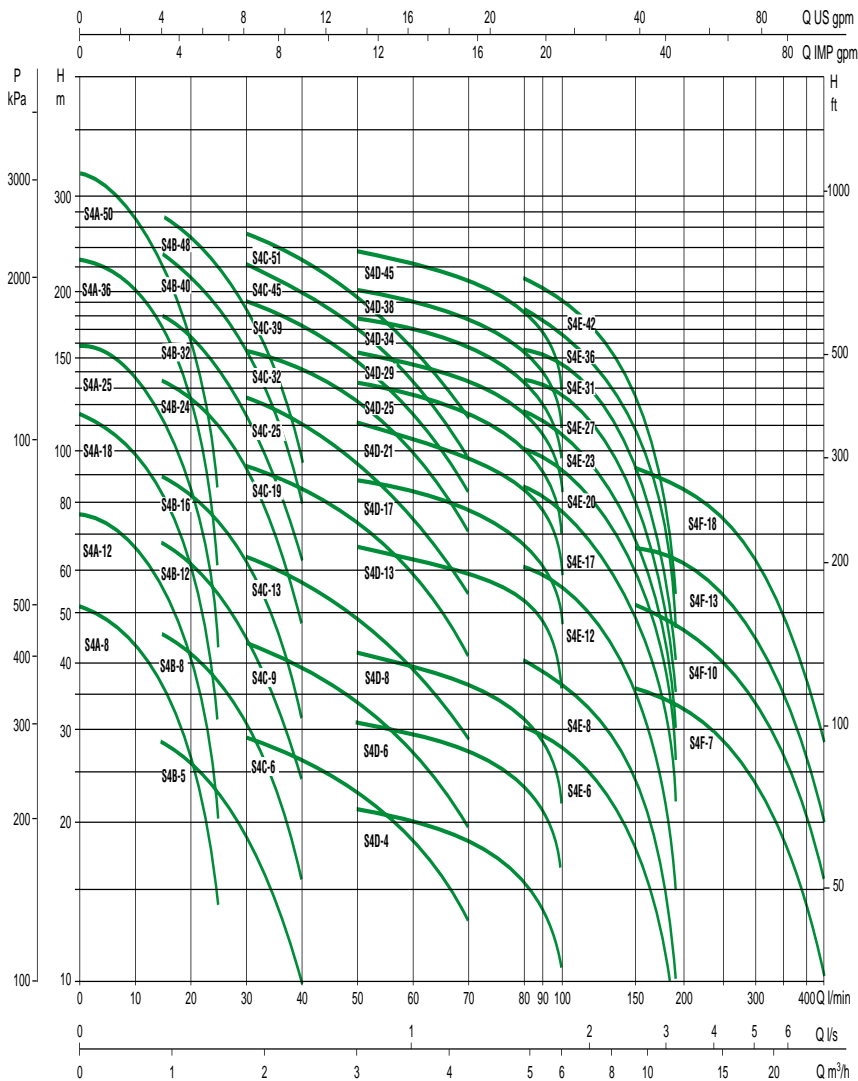
**Insulation class:** B

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

**Maximum content of sand:** 120 g/m<sup>3</sup>

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

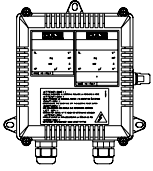
## HYDRAULIC DATA



MODEL	ELECTRICAL DATA						HYDRAULIC DATA (n=2850 1/min)																	DIMENSIONS											
	VOLTAGE 50 Hz	COS ψ	P2 NOMINAL		In A	CAPACITOR		Q																	Ø	H	DNM								
			kW	HP		µF	Vc	m³/h	0	0.6	1.2	1.5	1.8	2.4	3	4.2	4.8	6	9	11.4	18	27													
0	10	20	25	30	40	50	70	80	100	150	190	300	450																						
S4A-8 M	1x220-230 V~	0.79-0.73	0.25	0.33	2.8-3.2	12.5	400	51	44.4	26.8	13.7														97	565	1"1/4 G-F								
S4A-12 M	1x220-230 V~	0.83-0.5	0.37	0.5	3.5-4	16	400	76.5	66.6	40.2	20.5																97	665	1"1/4 G-F						
S4A-12 T	3x400 V~	0.7	0.37	0.5	1.1	-	-	76.5	66.6	40.2	20.5																	97	645	1"1/4 G-F					
S4A-18 M	1x220-230 V~	0.90-0.84	0.55	0.75	4.5-4.8	20	400	114.8	99.8	60.3	30.8																	97	813	1"1/4 G-F					
S4A-18 T	3x400 V~	0.75	0.55	0.75	1.6	-	-	114.8	99.8	60.3	30.8																		97	785	1"1/4 G-F				
S4A-25 M	1x220-230 V~	0.93-0.86	0.75	1	5.7-6.1	30	400	159.4	138.7	83.7	42.7																		97	981	1"1/4 G-F				
S4A-25 T	3x400 V~	0.75	0.75	1	2.1	-	-	159.4	138.7	83.7	42.7																			97	953	1"1/4 G-F			
S4A-36 M	1x220-230 V~	0.89-0.82	1.1	1.5	8.7-9.6	40	400	229.5	200	120.6	61.6																			97	1291	1"1/4 G-F			
S4A-36 T	3x400 V~	0.76	1.1	1.5	3	-	-	229.5	200	120.6	61.6																			97	1233	1"1/4 G-F			
S4A-50 M	1x220-230 V~	0.96-0.92	1.5	2	10.7-11.2	50	400	318.8	277.4	167.5	85.5																				97	1599	1"1/4 G-F		
S4A-50 T	3x400 V~	0.76	1.5	2	4	-	-	318.8	277.4	167.5	85.5																				97	1542	1"1/4 G-F		
S4B-5 M	1x220-230 V~	0.79-0.73	0.25	0.33	2.8-3.2	12.5	400	31	30	26	22.6	19	10																	97	518	1"1/4 G-F			
S4B-8 M	1x220-230 V~	0.83-0.78	0.37	0.5	3.5-4	16	400	49.6	47.8	41.5	36.2	30.6	16																		97	605	1"1/4 G-F		
S4B-8 T	3x400 V~	0.7	0.37	0.5	1.1	-	-	49.6	47.8	41.5	36.2	30.6	16																		97	585	1"1/4 G-F		
S4B-12 M	1x220-230 V~	0.90-0.84	0.55	0.75	4.5-4.8	20	400	74.4	71.8	62.3	54.4	45.8	24																			97	723	1"1/4 G-F	
S4B-12 T	3x400 V~	0.75	0.55	0.75	1.6	-	-	74.4	71.8	62.3	54.4	45.8	24																			97	695	1"1/4 G-F	
S4B-16 M	1x220-230 V~	0.93-0.86	0.75	1	5.7-6.1	30	400	99.2	95.7	83	72.5	61	32																			97	841	1"1/4 G-F	
S4B-16 T	3x400 V~	0.75	0.75	1	2.1	-	-	99.2	95.7	83	72.5	61	32																			97	813	1"1/4 G-F	
S4B-24 M	1x220-230 V~	0.89-0.82	1.1	1.5	8.7-9.6	40	400	148.8	143.5	124.6	108.7	91.7	48																			97	1078	1"1/4 G-F	
S4B-24 T	3x400 V~	0.76	1.1	1.5	3	-	-	148.8	143.5	124.6	108.7	91.7	48																			97	1021	1"1/4 G-F	
S4B-32 M	1x220-230 V~	0.96-0.92	1.5	2	10.7-11.2	50	400	198.4	191.4	166	144.9	122.2	64																				97	1287	1"1/4 G-F
S4B-32 T	3x400 V~	0.76	1.5	2	4	-	-	198.4	191.4	166	144.9	122.2	64																			97	1230	1"1/4 G-F	
S4B-40 M	1x220-230 V~	0.98-0.97	2.2	3	14.7-14.8	70	400	248	239.2	207.6	181.2	152.8	80																				97	1575	1"1/4 G-F
S4B-40 T	3x400 V~	0.75	2.2	3	5.9	-	-	248	239.2	207.6	181.2	152.8	80																			97	1471	1"1/4 G-F	
S4B-48 M	1x220-230 V~	0.98-0.97	2.2	3	14.7-14.8	70	400	297.6	287.1	249.2	217.4	183.4	96																				97	1755	1"1/4 G-F
S4B-48 T	3x400 V~	0.75	2.2	3	5.9	-	-	297.6	287.1	249.2	217.4	183.4	96																			97	1651	1"1/4 G-F	
S4C-6 M	1x220-230 V~	0.83-0.78	0.37	0.5	3.5-4	16	400	33	31.8	30.7	29.4	26.4	22.7	13.2																		97	620	1"1/4 G-F	
S4C-6 T	3x400 V~	0.7	0.37	0.5	1.1	-	-	33	31.8	30.7	29.4	26.4	22.7	13.2																		97	600	1"1/4 G-F	
S4C-9 M	1x220-230 V~	0.90-0.84	0.55	0.75	4.5-4.8	20	400	49.5	47.7	46	44	39.6	34	19.8																			97	746	1"1/4 G-F
S4C-9 T	3x400 V~	0.75	0.55	0.75	1.6	-	-	49.5	47.7	46	44	39.6	34	19.8																			97	717	1"1/4 G-F
S4C-13 M	1x220-230 V~	0.93-0.86	0.75	1	5.7-6.1	30	400	71.5	68.9	66.4	63.7	57.2	49.2	28.6																			97	903	1"1/4 G-F
S4C-13 T	3x400 V~	0.75	0.75	1	2.1	-	-	71.5	68.9	66.4	63.7	57.2	49.2	28.6																			97	876	1"1/4 G-F
S4C-19 M	1x220-230 V~	0.89-0.82	1.1	1.5	8.7-9.6	40	400	104.5	100.7	97	93	83.6	71.8	41.8																			97	1156	1"1/4 G-F
S4C-19 T	3x400 V~	0.76	1.1	1.5	3	-	-	104.5	100.7	97	93	83.6	71.8	41.8																			97	1098	1"1/4 G-F
S4C-25 M	1x220-230 V~	0.96-0.92	1.5	2	10.7-11.2	50	400	137.5	132.5	128	122.5	110	94.5	55																			97	1379	1"1/4 G-F
S4C-25 T	3x400 V~	0.76	1.5	2	4	-	-	137.5	132.5	128	122.5	110	94.5	55																			97	1322	1"1/4 G-F
S4C-32 M	1x220-230 V~	0.98-0.97	2.2	3	14.7-14.8	70	400	176	169.6	163	156.8	140.8	120.9	70.4																			97	1715	1"1/4 G-F
S4C-32 T	3x400 V~	0.75	2.2	3	5.9	-	-	176	169.6	163	156.8	140.8	120.9	70.4																			97	1611	1"1/4 G-F
S4C-39 M	1x220-230 V~	0.98-0.97	2.2	3	14.7-14.8	70	400	214.5	206.7	200	191.1	171.6	147.4	85.8																			97	1943	1"1/4 G-F
S4C-39 T	3x400 V~	0.75	2.2	3	5.9	-	-	214.5	206.7	200	191.1	171.6	147.4	85.8																			97	1838	1"1/4 G-F
S4C-45 T	3x400 V~	0.75	3	4	7.8	-	-	247.5	238.5	210.5	198	170.1	99																			97	2216	1"1/4 G-F	
S4C-51 T	3x400 V~	0.75	3	4	7.8	-	-	280.5	270.3	261	250	224.4	192.8	112.2																		97	2411	1"1/4 G-F	
S4D-4 M	1x220-230 V~	0.83-0.78	0.37	0.5	3.5-4	16	400	24			23	22	21.8	18	16.2	11.2																97	555	1"1/4 G-F	
S4D-4 T	3x400 V~	0.7	0.37	0.5	1.1	-	-	24			23	22	21.8	18	16.2	11.2																97	535	1"1/4 G-F	
S4D-6 M	1x220-230 V~	0.90-0.84	0.55	0.75	4.5-4.8	20	400	36			34																								

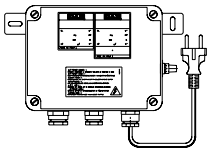
# ACCESSORIES

## CONTROL BOX



Electrical power panel for single-phase electric bore-hole pumps featuring manually resettable overload cut-out, capacitor and terminal board for electrical connections and pressure switch/float connections, if fitted. Supplied with 1.5 m of cable with SCHUKO CEE7-VII UNEL 47166-68 plug. Cabinet for wall mounting in flame-proof, thermoplastic material.

## CONTROL HS



Unit to increase static torque of single phase motor-driven pumps with powers equivalent to 0.5-0.75-1.5 HP 220V - including a micro circuit breaker for overload protection with manual resetting, starting capacitor, a capacitor to increase static torque and terminal board for the electrical connections. Protection level: IP 55. Temperature range: from -10°C to +40°C. Supplied with 1.5 m of supply cable, 3G1.5 H07 W-F. Box for wall mounting in thermoplastic, flameproof material.

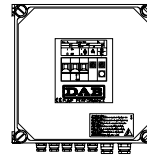
MODEL	VOLTAGE 50 Hz	MAX POWER kW	MAX CURRENT A	STARTING CAPACITOR μF	CAPAC. TO INCR. STATIC TORQUE μF	WEIGHT kg
Control HS 0.5	1x220 V~	0,37	4	16	20	2,1
Control HS 0.75	1x220 V~	0,55	5	20	30	2,2
Control HS 1	1x220 V~	0,75	6	30	40	2,2
Control HS 1.5	1x220 V~	1,1	10	40	60	2,4
Control HS 2	1x220 V~	1,5	12	50	80	2,5

## ELECTRODE PROBE

For use with the ES electrical panels for carrying out the running without water control / level control. Perfect for conductible liquids with temperatures up to +40°C. Can be connected to the panel with 1.5 mm<sup>2</sup> - 550V insulated wires (not supplied).



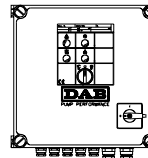
## ES 1 M - ES 3 M



Electric control unit for protecting single-phase electric bore-hole pumps from running without water (see table). The panel is protected and protects the electric pump from overloading and short circuits with a manually resettable device. Can work with 1, 2 or 3 probes depending on the use to which it is put. Protection level: IP55. Temperature application range: from -10°C to +40°C. Supplied standard with an electric probe and wall bracket. Cabinet for wall mounting in flame-proof, thermoplastic material.

MODEL	ALIMENT. 50-60 Hz	POWER kW P2 MOT.	MAX RATED OPERATING POWER (KW)	MAX CURRENT A	DIMENSIONS			WEIGHT kg
					A	B	H	
ES 1 M	1x220-240 V~	0,25-0,37-0,55-0,75	1,85	10	270	300	190	5,6
ES 3 M	1x220-240 V~	1,1-1,5-2,2	2,2	16	270	300	190	5,6

## ES 0,75 T - 1 T - 1,5 T - 3 T - 4 T - 7,5 T

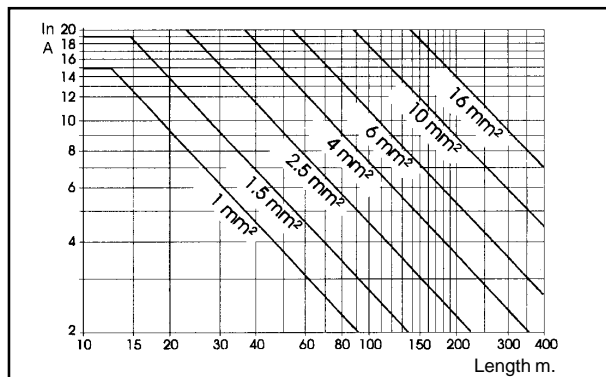


Electric control unit for protecting three-phase electric bore-hole pumps from running without water (see table). The panel is protected and protects the electric pump from overloading and short circuits with a manually resettable device. Can work with 1, 2 or 3 probes depending on the use to which it is put. Protection level: IP55. Temperature application range: from -10°C to +40°C. Supplied standard with an electric probe and wall bracket. Cabinet for wall mounting in flame-proof, thermoplastic material.

MODEL	VOLTAGE 50-60 Hz	POWER kW P2 MOT.	MAX RATED OPERATING POWER (KW)	MAX CURRENT A	DIMENSIONS			WEIGHT kg
					A	B	H	
ES 0,75 T	3x400 V~	0,25-0,37,55	0,88	1,6	270	300	190	5,6
ES 1 T	3x400 V~	0,75	1,38	2,5	270	300	190	5,6
ES 1,5 T	3x400 V~	1,1	2,2	4	270	300	190	5,6
ES 3 T	3x400 V~	1,5 - 2,2	3,5	6,3	270	300	190	5,6
ES 4 T	3x400 V~	3	5,5	10	270	300	190	5,6
ES 7,5 T	3x400 V~	4-5,5	7,5	14	270	300	190	5,6

## Tables to determine supply cable cross section in relation to length

Voltage 1x220V ac~  
Direct start - Drop in voltage 3% - Room temperature 30°C



Voltage 1x400V ac~  
Direct start - Drop in voltage 3% - Room temperature 30°C

