

# SMC12 420 - SMN12 420

## 12" SUBMERSIBLE ELECTRIC PUMPS

### PERFORMANCE AT 50 Hz - 2 POLES

MODEL	ELECTRICAL DATA		HYDRAULIC DATA														COUPLING STANDARD MOTOR
	P2 NOMINAL		Q=m³/h	0	210	240	270	300	330	360	390	420	450	480	510	540	
	kW	HP	Q=l/min	0	3500	4000	4500	5000	5500	6000	6500	7000	7500	8000	8500	9000	
420/1A-860	45	60	H (m)	52	39,5	38	36,5	35	34	32,5	30,5	28,5	26	22,5	19	14	8"
420/1B-875	55	75		58,5	44,5	43	41,5	40	39	38	36,5	35	32,5	30	26,5	22	8"
420/2A-8125	92	125		101,5	80,5	78	75,5	73	70,5	67,5	64,5	60,5	56	51,5	46	40,5	8"
420/2B-8150	110	150		114,5	90,5	88	85,5	83	80,5	77,5	74,5	71	66	61	54	46	8"
420/3A-10180	132	180		134	111	107,5	104	100,5	96,5	92,5	88	82	75,5	68	59,5	50,5	10"
420/3B-10200	150	200		156,5	124	120,5	117	114	110	106,5	102,5	97	90,5	83,5	75,5	66,5	10"
420/4A-10260	190	260		196	154	149,5	145	140,5	135,5	130	124	116,5	107,5	97	85,5	72	10"
420/4B-12300	220	300		221	173,5	169	165	161	156,5	152	147	139,5	131	121,5	110,5	96	12"
420/5A-12340	250	340		260,5	204	198	192,5	187	182	176,5	170,5	162	152	139	121,5	100	12"

### ELECTRICAL DATA AND DIMENSIONS

MODEL	MOTOR *	ELECTRICAL DATA			OPERATION WITH INVERTER	HORIZONTAL INSTALLATION	L2 mm	L mm	L1 mm	D mm	D1 mm	DN	WEIGHT SMC kg	WEIGHT SMN kg	MOTOR WEIGHT ** kg
		P2 NOMINAL		In A											
		kW	HP												
420/1A-860	TR8	45	60	92	○	●	2169	1270	899	192	298	7"	134	96	177
420/1B-875	TR8	55	75	109	○	●	2249	1350	899	192	298	7"	134	96	192
420/2A-8125	TR8	92	125	177	○	●	2929	1830	1099	192	298	7"	170	123	283
420/2B-8150	TR8	110	150	213	○	●	3184	2060	1124	192	298	7"	174	123	333
420/3A-10180	TR10	132	180	257	○	●	3194	1870	1324	237	298	7"	211	149	435
420/3B-10200	TR10	150	200	300	○	●	3394	2070	1324	237	298	7"	211	149	500
420/4A-10260	TR10	190	260	405	○	●	3924	2400	1524	237	298	7"	247	176	580
420/4B-12300	TR12	220	300	424	○	△	3634	2110	1524	286	298	7"	247	176	700
420/5A-12340	TR12	250	340	481	○	△	4004	2280	1724	286	298	7"	284	203	775

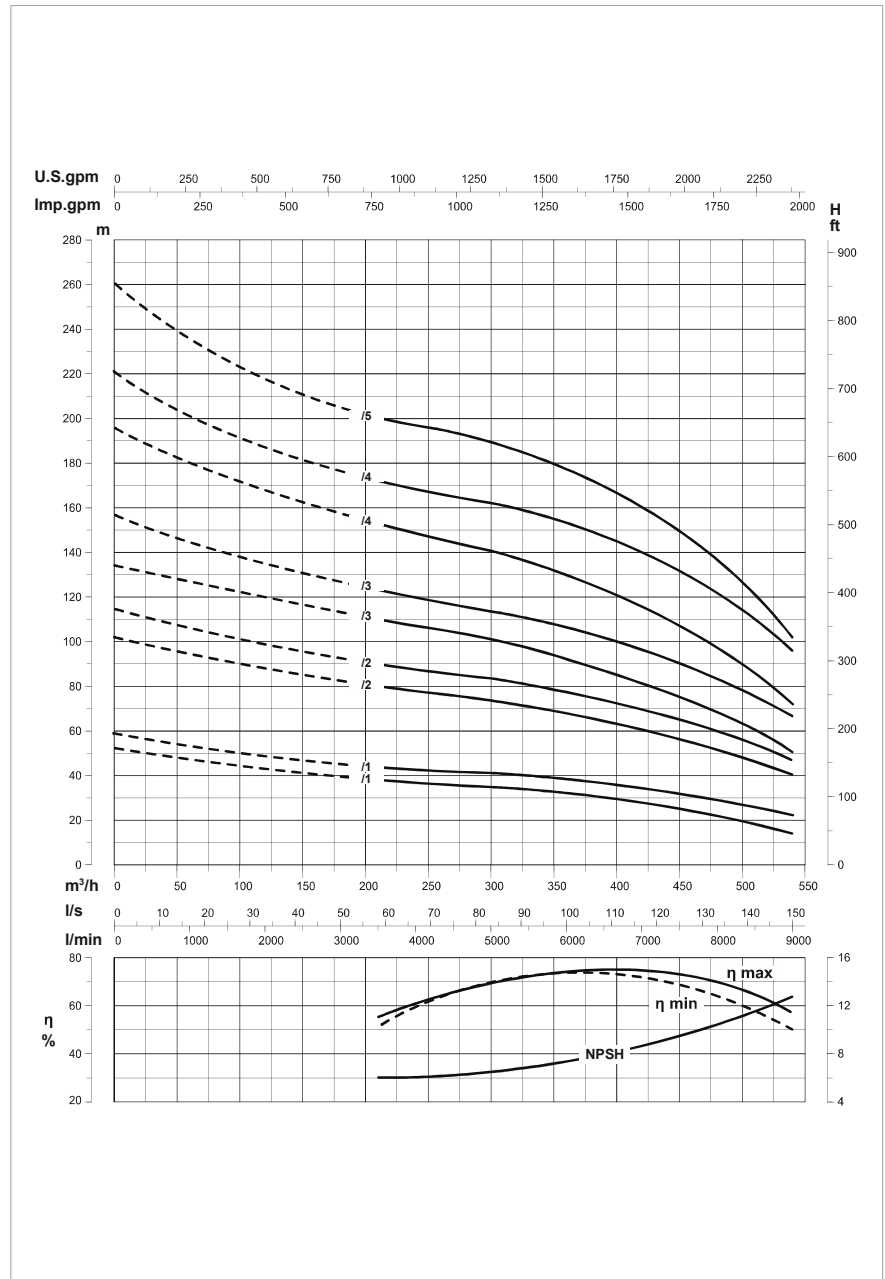
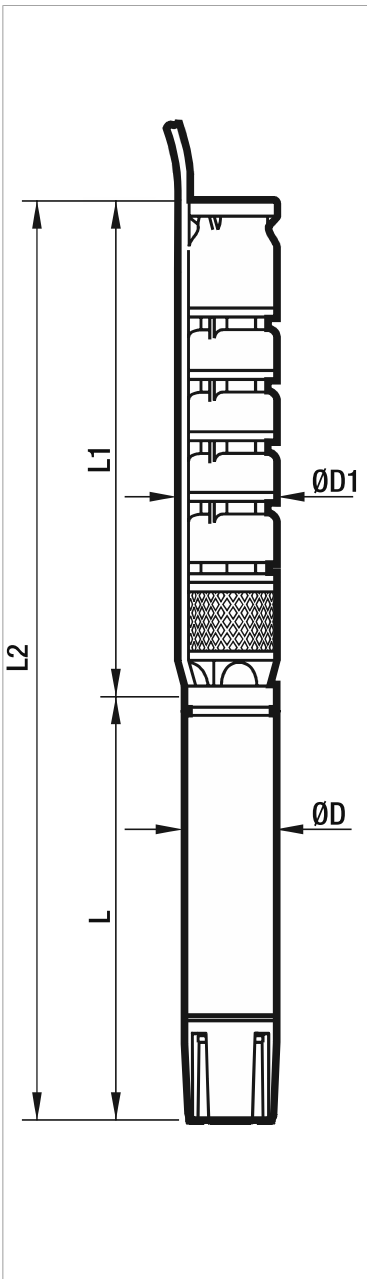
\* **6GF MOTOR:** 6" encapsulated in water bath.  
**TR MOTOR:** 6" - 12" rewindable in water bath.

\*\* For the weight of the version in AISI 316, refer to the page of the motor concerned or contact our sales network.

●	Permitted
○	Only version PE2 + PA
△	Contact our sales network

# SMC12 420

## 12" SUBMERSIBLE ELECTRIC PUMPS



# 3GF - 3GS

## 3" SUBMERSIBLE MOTOR



### TECHNICAL DATA

**Flanging:** 3".  
**Insulation class:** F.  
**Protection class:** IP68.  
**Cooling flow speed:** min. 0,3 m/s 35 °C.  
**Power supply tolerance:** + 6 % / -10 %.  
**Max. starts:** 20/h.  
**Max operating depth:** 150 m.  
**Horizontal operation:** 0,5 HP - 1 HP.

### GENERAL DATA

3" submersible asynchronous two-pole electric motor made entirely of AISI 304 stainless steel and brass. The thrust block and bushes are cooled and lubricated with a mixture of water and glycol. The rotor is mounted on a Kingsbury self-centring thrust block designed to withstand significant axial loads. Stator housed in an airtight stainless steel casing with internal sleeve and outer casing and flanges. The 3GS version entirely in AISI 304 stainless steel is available on request. The cable connector is removable for the purpose of quick and easy maintenance. The cable is ACS, WRAS and KTW certified. The motor is suitable for use with variable frequency drive (30 Hz - 50/60 Hz). Overload protection is included in the motor for the single-phase version. Overload protection to be provided by the user for the three-phase version.

On request: cables of different lengths and voltage supply.

### CONSTRUCTION FEATURES



Stator housed in an outer casing in AISI 304. The stator has 18 slots to ensure better elasticity and smooth operation; the copper conductors have a double layer of Class H insulating enamel. Overload protection is included (single-phase version).

Kingsbury thrust block equipped with carbon clearance ring and oscillating pads in high-strength stainless steel machined by Tesla with a spherical lapping process. From 0,5 HP to 1 HP: 2000 N

Shaft with special surface hardening and polishing in the work area of the bushings, shaft in AISI 431 stainless steel, squirrel cage rotor in copper for all power ratings.