

SUMMAG 4

4"

PERMANENT
MAGNET
SUBMERSIBLE
MOTORS



SUMMAG IS THE ALL NEW NASTEC RANGE OF SUBMERSIBLE MOTORS FOR BEST QUALITY, HIGHEST EFFICIENCY BOREHOLE APPLICATIONS.

The technical characteristics and materials adopted in SUMMAG motors represent a no-compromise solution. Everything is designed to ensure maximum reliability and lower consumption with a consequent reduction in product life cycle cost.

The permanent magnet brushless synchronous motor (PMSM), in addition to ensure high efficiency even at partial loads, allows for a reduction of about 50% in size and weight with the advantage of robustness and ease of transport and installation.

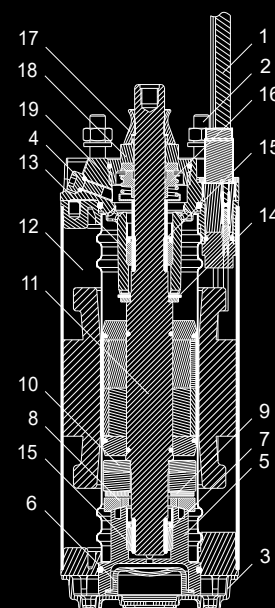
The silicon carbide mechanical seal, standard on all models, offers optimum resistance against sand and can be easily replaced in case of wear.

In addition, SUMMAG motors feature:

- Flange and splined shaft according to NEMA 4" standard.
- Encapsulated and resinated stator completely in stainless steel with AISI304 microfused flanges.
- Cable with removable lead connector certified for drinking water.
- Kingsbury type, high performance, thrust bearing.
- Silicon carbide radial bearings with ceramic bushings.
- Rubber diaphragm for pressure compensation.

Ref	Description	Material
1	Power supply cable with removable connector for drinking water applications	Flat cable ACS-WRAS-KTM approved
2	M8 stud	AISI 304
3	Lower cover	AISI 304
4	Water filling screw	AISI 304
5	Lower thrust bearing	AISI 304
6	Rubber diaphragm	EPDM
7	Lower bush	SiC
8	Tilting disc	AISI 304
9	Pads	AISI420j
10	Carbon disc	CTI25
11	Shaft with rotor	AISI 431
12	Canned type stator	AISI 304
13	Upper bush	SiC
14	Upper thrust bearing	Teflon
15	Ceramized sleeve	AISI 430 + Ceramic
16	Mechanical seal	SiC
17	Rotating sandguard	NBR
18	Mechanical seal seat	AISI 304
19	Upper bracket	AISI 304

MATERIALS



DESIGNATION

SUMMAG 4
AAA.BBB.CCC.DD

AA: Rated power x 10 [kW]
BBB: Rated voltage [VAC]
CCC: Rated Frequency [Hz]
DD: Alphanumeric code for optional construction features (00: standard execution).

Example:
SUMMAG 4
011.200.100.00

- 1,1 kW
- 200 VAC
- 100 Hz
- Standard execution

GENERAL SPECIFICATIONS

Max liquid temperature: 35°C (92°F)

Min liquid cooling speed: 0,2 m/s

Characteristics of the pumped liquid: Clean, chemically not aggressive, not explosive, without solid and fibre content, with max 50 g/m³ sand content

Cable: 2 m flat cable, ACS - WRAS - KTM approved

Filling liquide: 70% water + 30% glycol

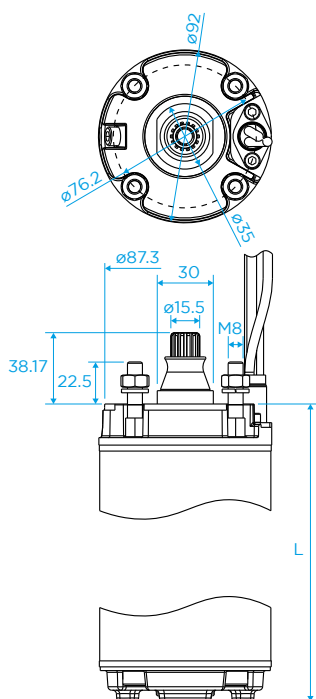
Protection grade: IP68

Maximum immersion depth: 150 m

Axial Thrust: 5000 N

Insulation Class: F

Certifications: CE



WEIGHTS & DIMENSIONS

P2 Power [kW]	L [mm]	Weight [kg]
1,1	230	6,7
2,2	280	8,9
4,0	330	11,1
7,5	480	17,7



RATED PERFORMANCE

100 Hz, 3000 rpm

Model	Voltage	P2 Power	Current	η
SUMMAG 4	VAC	kW	A	%
011.200.100	3 x 200	0,55	2,3	80
		0,75	3	82
		1,1	4,1	82
011.360.100	3 x 360	0,55	1,3	82
		0,75	1,7	83
		1,1	2,2	85
022.200.100	3 x 200	1,1	4,1	84
		1,5	5,5	85
		2,2	7,8	85
022.360.100	3 x 360	1,1	2,2	84
		1,5	3,1	86
		2,2	4,3	87
040.200.100	3 x 200	2,2	7,8	85
		3	10,5	86
		3,7	12,8	87
040.360.100	3 x 360	4	13,8	87
		2,2	4,4	86
		3	5,9	87
075.360.100	3 x 360	3,7	7,1	88
		4	7,7	88
		4	7,9	86
		5,5	10,6	88
		7,5	14,2	88

120 Hz, 3600 rpm

Model	Voltage	P2 Power (with S.F.)	Current (with S.F.)	η
SUMMAG 4	VAC	kW	A	%
011.200.120	3 x 200	0,55 (0,8)	2,2 (3,1)	80
		0,75 (1,1)	2,8 (4,1)	82
		1,1 (1,4)	4,1 (5,2)	82
011.360.120	3 x 360	0,55 (0,8)	1,2 (1,7)	82
		0,75 (1,1)	1,6 (2,2)	83
		1,1 (1,4)	2,2 (3,0)	85
022.200.120	3 x 200	1,1 (1,4)	4,0 (5,1)	84
		1,5 (1,9)	5,4 (6,8)	85
		2,2 (2,5)	7,8 (8,9)	85
022.360.120	3 x 360	1,1 (1,4)	2,3 (3,1)	84
		1,5 (1,9)	3,0 (3,8)	86
		2,2 (2,5)	4,3 (5,0)	87
037.200.120	3 x 200	2,2 (2,5)	7,8 (8,9)	85
		3,7 (4,3)	12,7 (14,8)	86
037.360.120	3 x 360	2,2 (2,5)	4,4 (5,1)	86
		3,7 (4,3)	7,1 (8,2)	87
075.360.120	3 x 360	3,7 (4,3)	7,2 (8,3)	86
		5,5 (6,3)	10,5 (12,0)	88
		7,5 (8,6)	14,2 (16,3)	88

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We were born in 2007 with over 30 years of previous experience in water pumps.

We develop products dedicated to specific applications. We don't claim to do everything, but we strive to do the best at what we do.

We pay attention to details.

We love manufacturing and encourage every form of repair. That's why we offer spare parts.

We update our products while maintaining compatibility with the past.

We support our customers always and by every possible means.

We are global in sales but local in assistance.

Our mission? To make pumping systems intelligent, efficient, and connected.

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