

ELECTRIC SUBMERSIBLE PUMPS SEMISOM

SM5900 SEMISOM 590 HS 1~ 230V 10M

HYDRAULIC CHARACTERISTICS

Type of impeller	Vortex
Inlet nominal diameter (mm)	50
Outlet nominal diameter (mm)	G 2"
Solid passage Ø (mm)	50

APPLICATION FEATURES

Protection degree	IP68
Duty	Continuous (S1)
Max immersion depth (m)	20
Max number of starts per hour	40
Max temperature of the liquid pumped (°C)	50
PH of the liquid pumped	6 - 10
Density of the liquid pumped (kg/dm³)	<1,1
Suitable for inverter drive	NO

PROTEZIONI

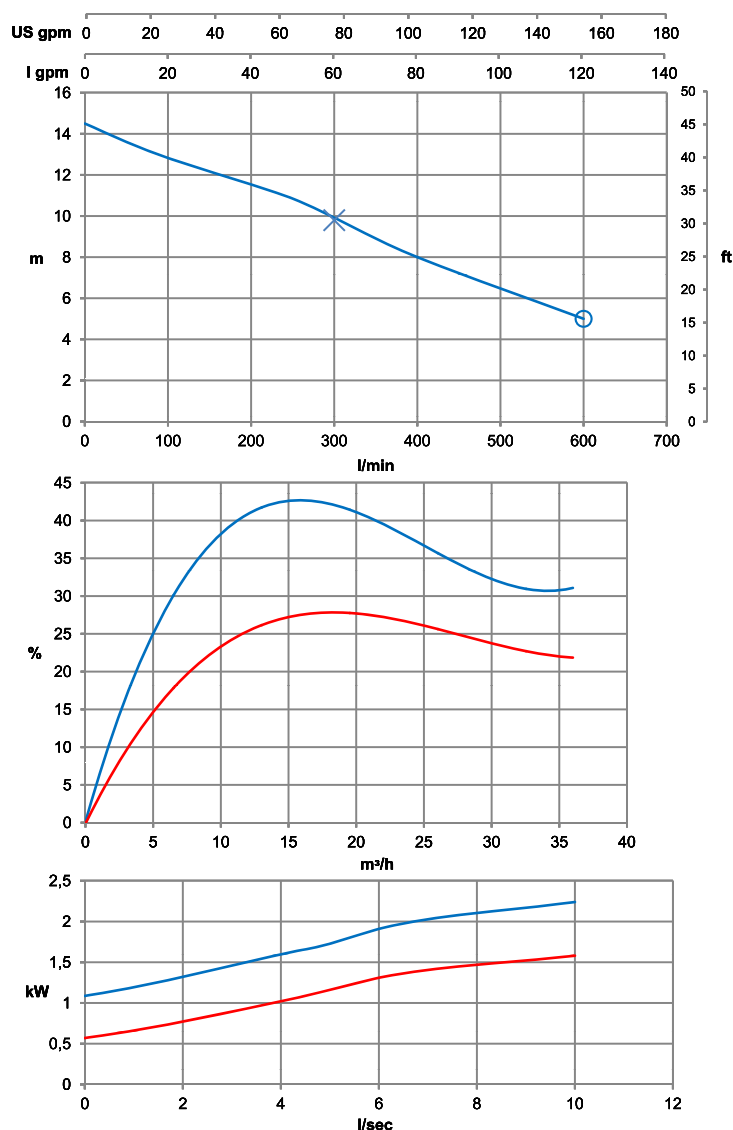
Thermal Protection	In-built
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ELECTRICAL CHARACTERISTICS

Power (V)	230
No. of Phases	1
Frequency (Hz)	50
Insulation class	F
Nominal Speed (1/min)	2829
Nominal Power of the motor (kW)	1,5
Max absorbed power P1 (kW)	2,24
Start current (A)	34,7
Max. current (A)	10,5
No. of Poles	2
Capacitor (µF)	31,5

	Load		
	4/4	3/4	1/2
Power factor	0,90	0,82	0,69
Motor efficiency	70,8%	67,7%	57,3%

PERFORMANCE CURVES



X = MAX. EFFICIENCY

(Best Efficiency Point)

Total efficiency η_t (%)	27
Hydraulic efficiency η_i (%)	42
Absorbed power P1 (kW)	1,6
Hydraulic power P2 (kW)	1,1
Head (m)	9,8
Flow (l/min)	300

LIMITS

Flow max. (l/min)	600
Head max. (m)	14,5
○ = Minimum Head (m)	5

— η_i Hydraulic efficiency
— η_t Total efficiency

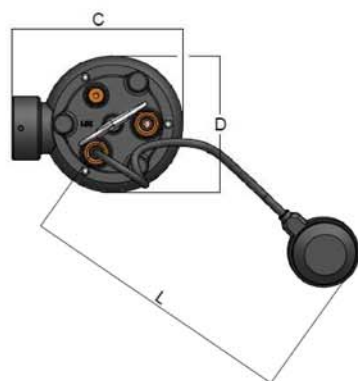
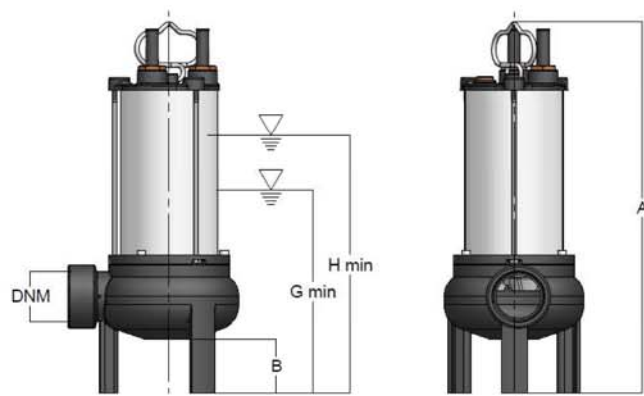
— P1 Absorbed power
— P2 Hydraulic power

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DIMENSIONS AND WEIGHTS



G = minimum STOP level in case of automatic control (mm)	260
H = minimum level of liquid in case of continuous duty (mm)	330
A = total height (mm)	496
B (mm)	65
C = total Footprint (mm)	198
D (mm)	162
L = overall dimensions of the floating arm (mm)	n/a
DNM = Nominal Diameter of the Discharge	G 2"
WEIGHT (kg)	18,2
Length of cable (m)	10

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