

# ELECTRIC SUBMERSIBLE PUMPS SEMISOM

## SM300P SEMISOM300GR 230V+STAND 10M

### HYDRAULIC CHARACTERISTICS

Type of impeller	Open
Outlet nominal diameter (mm)	G 1"½

### 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

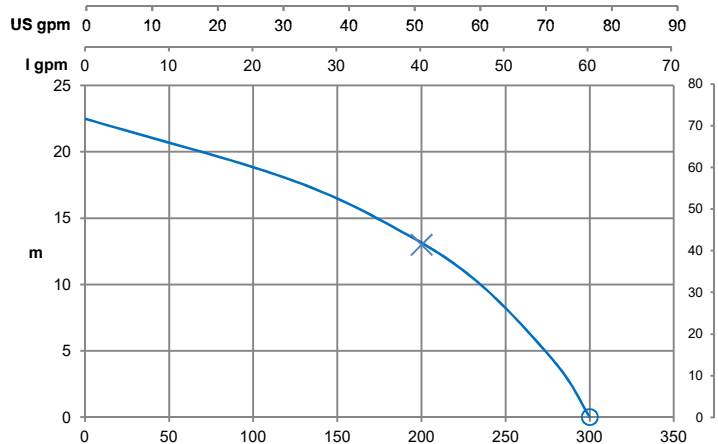
Thermal Protection	In-built
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### ELECTRICAL CHARACTERISTICS

Power (V)	230
No. of Phases	1
Frequency (Hz)	50
Insulation class	F
Nominal Speed (1/min)	2829
Nominal Power of the motor (kW)	1,18
Max absorbed power P1 (kW)	1,826
Start current (A)	34,7
Max. current (A)	9,2
No. of Poles	2
Capacitor (µF)	35

	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)

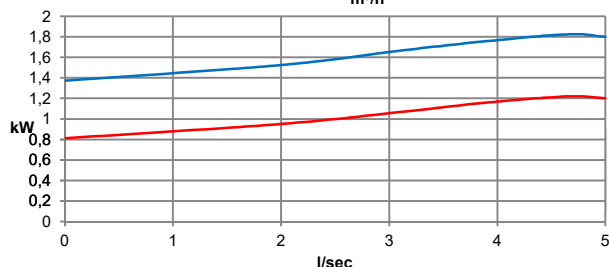
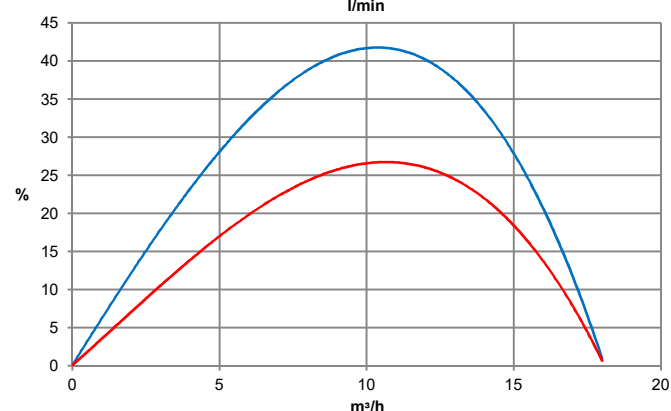
Total efficiency $\eta_t$ (%)	26
Hydraulic efficiency $\eta_i$ (%)	42
Absorbed power P1 (kW)	1,7
Hydraulic power P2 (kW)	1,1
Head (m)	13
Flow (l/min)	200

#### LIMITS

Flow max. (l/min)	300
Head max. (m)	22,5
○ = Minimum Head (m)	0

—  $\eta_i$  Hydraulic efficiency  
—  $\eta_t$  Total efficiency

— P1 Absorbed power  
— P2 Hydraulic power

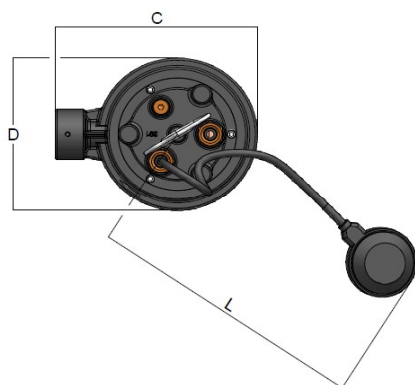
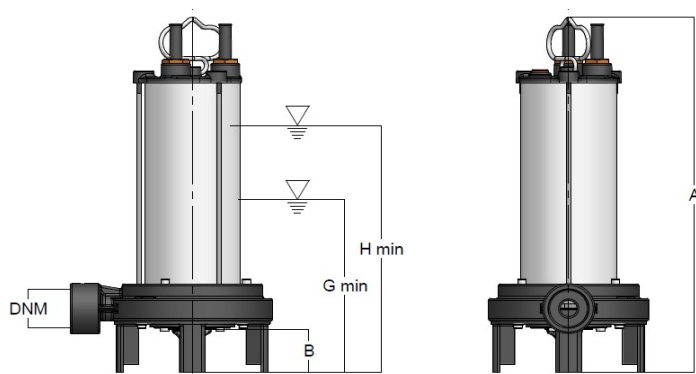


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### DIMENSIONS AND WEIGHTS



G = minimum STOP level in case of automatic control (mm)	305
H = minimum level of liquid in case of continuous duty (mm)	375
A = total height (mm)	461
B (mm)	46,0
C = total Footprint (mm)	264
D (mm)	195
L = overall dimensions of the floating arm (mm)	n/a
DNM = Nominal Diameter of the Discharge	G 1"½
WEIGHT (kg)	24,4
Length of cable (m)	10

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