

Customer:			Ref.:		
Item	1	Quantity	1	Required flow	815 m ³ /h
Type	SUBMERSIBLE ELECTRIC PUMP			Model	E18S64/1A+MAC10180C/D2I-8V

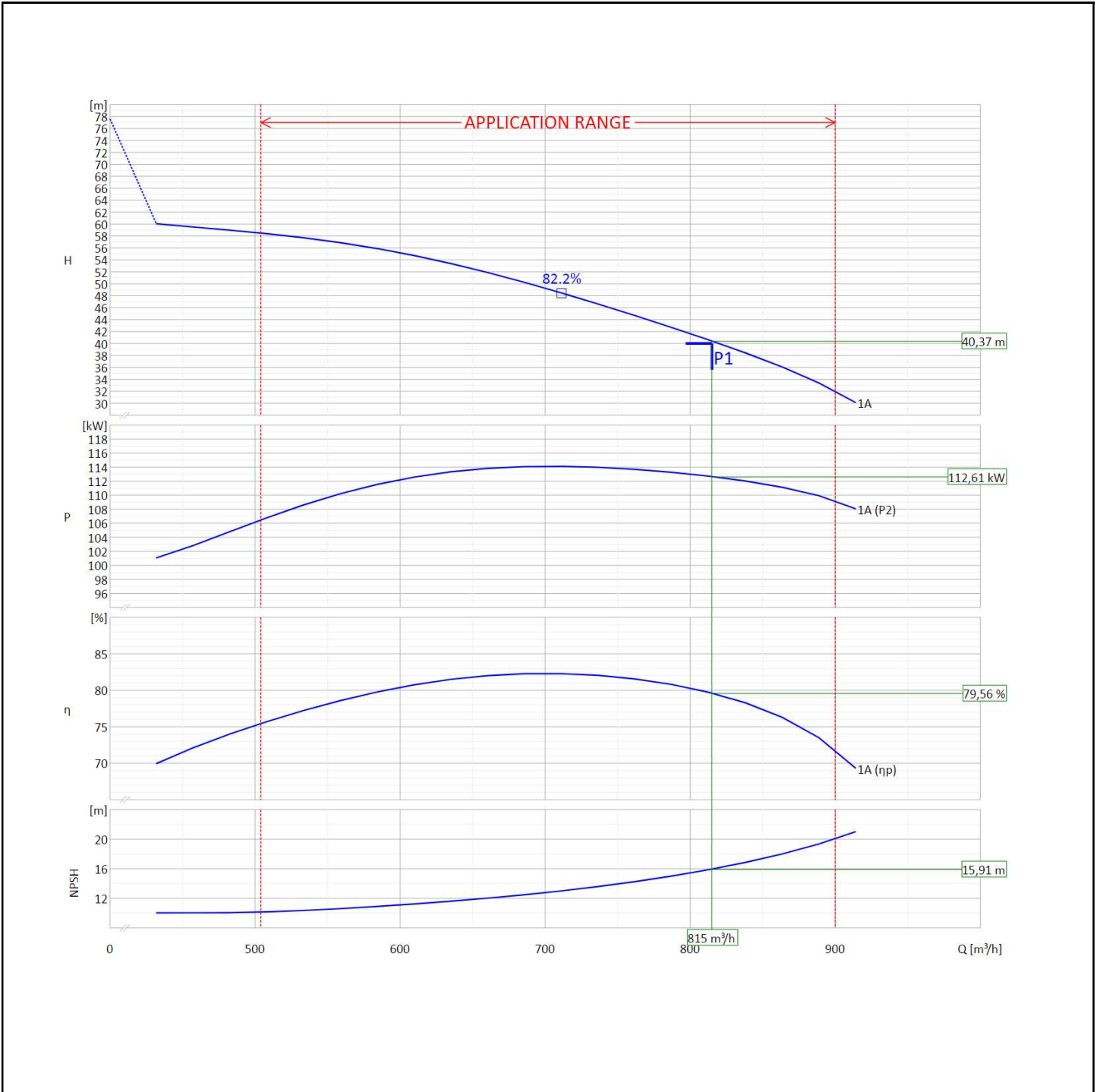
OPERATING LIMITS			CONSTRUCTION CHARACTERISTICS		
Pumped liquid	Water		Delivery diameter	230	mm
Max temp. of pumped liquid (*)	45	°C	Maximum overall diameter	435	mm
Maximum density	1	kg/dm ³	Type of Impeller	Mixed flow	
Maximum viscosity	1	mm ² /s	Number of stages	1	
Maximum solid content	40	g/m ³	Motor seal	Mechanical	
Maximum submersion	150	m	Type of installation	Vertical	
Maximum number of starts/hr	6		Moment of inertia	0.25053 Kg·m ²	
Maximum operating time with port closed and pump submersed	3	min	WEIGHTS		
Minimum immersion depth	1087.5	mm	Pump weight	241	Kg
			Weight of submersible motor	408	Kg
			Weight of electric pump	649	Kg

OPERATING CHARACTERISTICS			ELECTRIC MOTOR CHARACTERISTICS		
Service flow rate	817.3		m ³ /h	Brand	Caprari
Service head	40.2		m	Model	MAC10180/1C-8
Qmin	504	900	m ³ /h	Nominal power	132
H (Q=0)	77.6	58.4	m	Rated frequency	50
Power consumption at duty point	112.5		kW	Rated voltage	400
Maximum power consumption	114.1		kW	Nominal speed	2930
Pump efficiency	79.43	70	%	Rated current	251.1
Overall efficiency					A
Max. pump efficiency (B.E.P.)	82.2		%	No. Poles	2
NPSH required	16		m	Type of motor	3 ~
Rotation speed	~ 2930		1/min	Efficiency 4/4 - 3/4	87.9 - 88.4 %
Sense of rotation (**)	Anticlockwise			Power factor 4/4 - 3/4	0.860 - 0.830
Tolerance according to standard	ISO 9906:2012 3B			Insulation class	-
MEI				Is/In - Ts/Tn	6.6 - 1.6
Impeller diameter	-			Type of starting	D
Number of pumps installed	Operating	Stand-by		Protection class	IP68
	1	0		Number of motor output cables	3
				Service Factor	1
<i>Certified motor for use with drinking water</i>					

PUMP MATERIALS		MOTOR MATERIALS	
Delivery body	Cast iron	Shaft	Stainless steel
Diffuser unit	Cast iron	Sand guard	Rubber
Suction support	Nodular cast iron	Upper cover	Cast iron
Impeller	Stainless steel		Rubber
Shaft	Stainless steel	Rotor	Electrical steel
Connecting flange	Steel	Stator	Electrical steel
Coupling	Stainless steel	Stator shell	Stainless steel
Valve casing	Cast iron	Winding	PE2+PA
Valve ring	Cast iron	Lower bracket	Cast iron
Valve spindle	Stainless steel	Cover mechanical seal	Cast iron
Conical valve	Cast iron/rubber	Mechanical seal	Silicon carbide/silicon carbide
Strainer	Stainless steel	Bearing bush	Graphite
Impeller wear ring	Cast iron	Thrust-bearing	Stainless steel/Synthetic
Sand guard	Stainless steel/rubber	Thrust-bearing foot slip	Cast iron
Cable guard	Stainless steel	Diaphragm	Rubber
Normal nut	Stainless steel	Diaphragm cover	Cast iron
Stud	Stainless steel	Connecting flange	Cast iron
Screw	Stainless steel	Shaft sleeve	Stainless steel
Bolts	Stainless steel	Motor bracket	Cast iron
		Bolts	Stainless steel

Notes:	(*) Speed of the water outside the jacket of the motor v=0.5 m/s		
	(**) View from delivery port		
	In case of VSD operation, refer to Use and Maintenance Instructions of the electric pump.		
	Pos. 1.1	Date	

Voltage	400	V	Frequency	50	Hz	Flow rate	815 m ³ /h	Head requ.	40 m
Motor	132	kW	No. poles	2		Model	E18S64/1A+MAC10180C/D2I-8V		

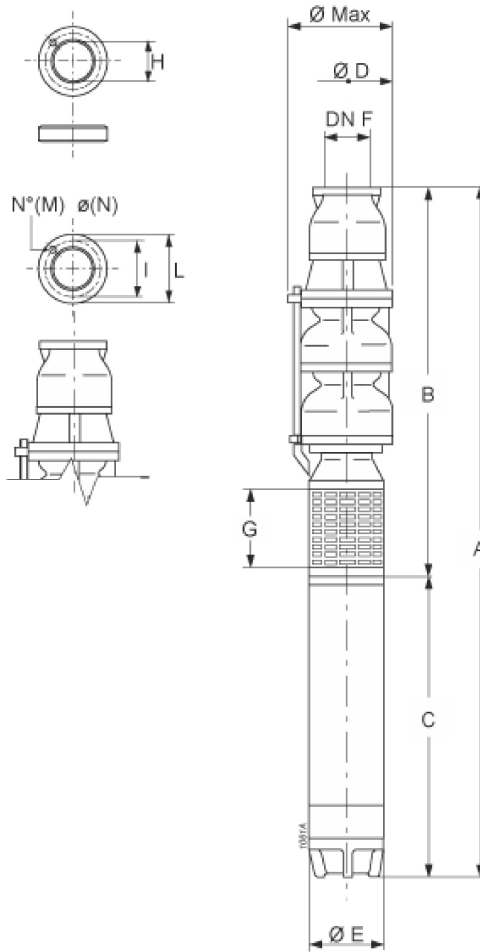


OPERATING DATA - ISO 9906:2012 3B -

Q [m ³ /h]	H [m]	P [kW]	η [%]	NPSH [m]	Speed [1/min]
815	40.37	112.61	79.56	15.91	2930

	Pos. 1.1	Date
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Voltage	400	V	Frequency	50	Hz	Flow	815 m ³ /h	Head	40 m
Power	132	kW	No. poles	2		Model	E18S64/1A+MAC10180C/D2I-8V		



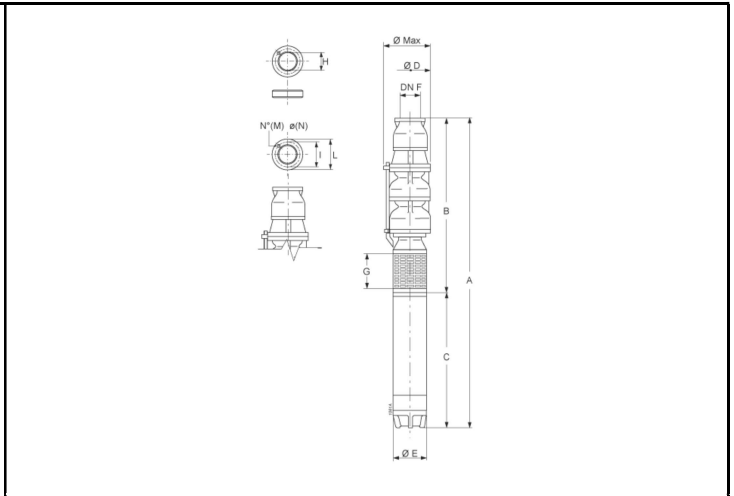
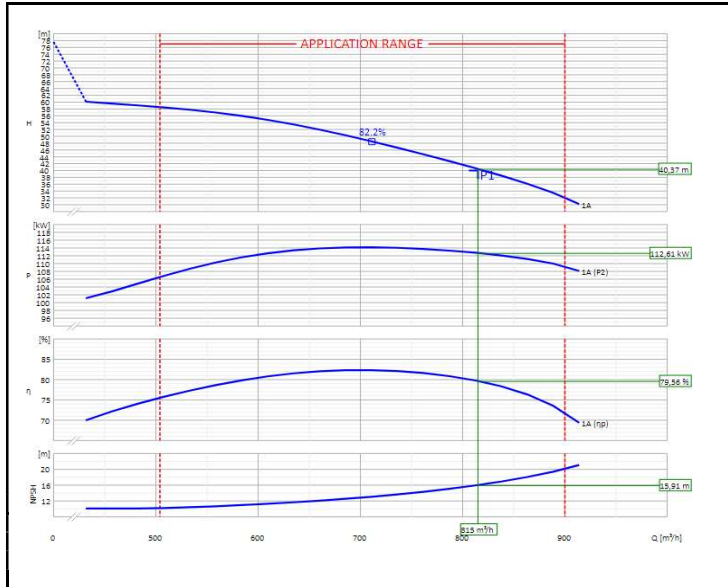
Dimensions [mm]

A	2966.5	M	8		
B	1200.5	N	20		
C	1766	Ø max	435		
D	384				
E	242				
F	230				
G	262				
H	247				
I	293				
L	326				

	Pos. 1.1	Date
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Customer:				Ref.:			
Item	1	Quantity	1	Required flow	815 m ³ /h	Required head	40 m
Type	SUBMERSIBLE ELECTRIC PUMP			Model	E18S64/1A+MAC10180C/D2I-8V		



Dimensions [mm]							
A	2966.5	E	242	I	293	Ø max	435
B	1200.5	F	230	L	326		
C	1766	G	262	M	8		
D	384	H	247	N	20		

OPERATING DATA - ISO 9906:2012 3B -					CONSTRUCTION CHARACTERISTICS		
Q [m ³ /h]	H [m]	P [kW]	η [%]	NPSH [m]	Delivery diameter	230	mm
815	40.37	112.61	79.56	15.91	Max. overall diameter	435	mm
					Weight of electric pump	649	Kg
					No. Stages	1	
					Motor seal	Mechanical	
					Type of installation	Vertical	

OPERATING LIMITS				PUMP MATERIALS				
Pumped liquid				Water				
Max. temp. of pumped liquid (*)				45	°C		Delivery body	Cast iron
Maximum density				1	kg/dm ³		Diffuser unit	Cast iron
Maximum viscosity				1	mm ² /s		Suction support	Nodular cast iron
Maximum solid content				40	g/m ³		Impeller	Stainless steel
Max. number of starts/hr				6			Shaft	Stainless steel
Minimum immersion depth				1087.5	mm		Coupling	Stainless steel
OPERATING CHARACTERISTICS				Valve casing				Cast iron
Service flow rate				817.3	m ³ /h		Strainer	Stainless steel
Service head				40.2	m		Impeller wear ring	Cast iron
Qmin	Qmax	504	900	m ³ /h		MOTOR MATERIALS		
H (Q=0)	Hmax (Qmin)	77.6	58.4	m		Shaft	Stainless steel	
Power consumption at duty point				112.5	kW		Upper cover	Cast iron
Pump efficiency	Overall efficiency	79.43	70	%		Rotor	Electrical steel	
Max. pump efficiency (B.E.P.)				82.2	%		Stator	Electrical steel
Sense of rotation (**)				Anticlockwise		Stator shell	Stainless steel	
Number of pumps installed				Operating	Stand-by	Winding	PE2+PA	
				1	0	Lower bracket	Cast iron	
ELECTRIC MOTOR CHARACTERISTICS				Mechanical seal				Silicon carbide/silicon carbide
Nominal power				132	kW		Bearing bush	Graphite
Rated frequency				50	Hz		Thrust-bearing	Stainless steel/Synthetic
Rated voltage				400	V		Thrust-bearing foot slip	Cast iron
Rated current				251.1	A		Diaphragm	Rubber
No. Poles	Nominal speed	2	2930	1/min		Shaft sleeve	Stainless steel	
Insulation class	Protection class	-	IP68			Motor bracket	Cast iron	

<i>Certified motor for use with drinking water</i>		
Notes:	(*) Speed of the water outside the jacket of the motor v=0.5 m/s	
	(**) View from delivery port.	
	In case of VSD operation, refer to Use and Maintenance Instructions of the electric pump.	
	Pos. 1.1	Date