

Customer:		Ref.:	
Item	1	Quantity	1
Type	SUBMERSIBLE ELECTRIC PUMP		Model
		Required flow	-
		Required head	-
		E10S64/3D+MAC890-8V	

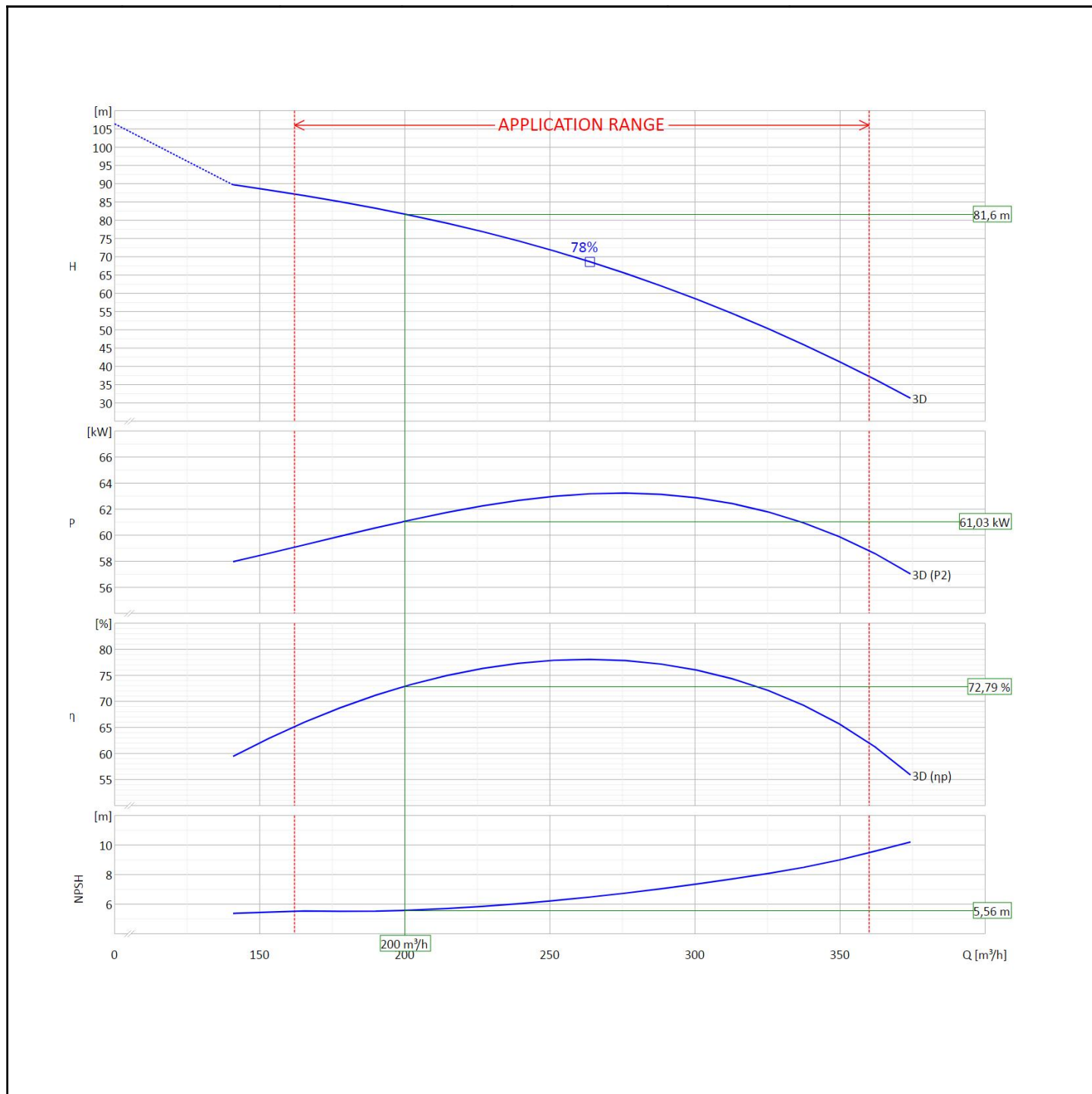
OPERATING LIMITS			CONSTRUCTION CHARACTERISTICS		
Pumped liquid	Water		Delivery diameter	150	mm
Max temp. of pumped liquid (*)	30	°C	Maximum overall diameter	250	mm
Maximum density	1	kg/dm ³	Type of Impeller	Mixed flow	
Maximum viscosity	1	mm ² /s	Number of stages	3	
Maximum solid content	40	g/m ³	Motor seal	Mechanical	
Maximum submersion	150	m	Type of installation	Vertical	
Maximum number of starts/hr	8		Moment of inertia	0.09825 Kg·m ²	
Maximum operating time with port closed and pump submersed	3	min	WEIGHTS		
Minimum immersion depth	625	mm	Pump weight	107.5	Kg
			Weight of submersible motor	219	Kg
			Weight of electric pump	326.5	Kg

OPERATING CHARACTERISTICS			ELECTRIC MOTOR CHARACTERISTICS		
Service flow rate	-		Brand	Caprari	
Service head	-		Model	MAC890-8	
Qmin	162	360	Nominal power	66	kW
H (Q=0)	106.4	87.1	Rated frequency	50	Hz
Power consumption at duty point	-		Rated voltage	400	V
Maximum power consumption	63.2	kW	Nominal speed	2905	1/min
Pump efficiency	-	-	Rated current	131.2	A
Overall efficiency	-		No. Poles	2	
Max. pump efficiency (B.E.P.)	78	-	Type of motor	3 ~	
NPSH required	-		Efficiency 4/4 - 3/4	86.6 - 87.1 %	
Rotation speed	~ 2905	1/min	Power factor 4/4 - 3/4	0.840 - 0.785	
Sense of rotation (**)	Anticlockwise		Insulation class	-	
Tolerance according to standard	ISO 9906:2012 3B		Is/In - Ts/Tn	6.1 - 2	
MEI	-		Type of starting	D	
Impeller diameter	-		Protection class	IP68	
Number of pumps installed	Operating 1	Stand-by 0	Number of motor output cables	3	
			Service Factor	1	
			<i>Certified motor for use with drinking water</i>		

PUMP MATERIALS		MOTOR MATERIALS	
Diffuser unit	Cast iron	Shaft	Stainless steel
Suction support	Nodular cast iron	Sand guard	Rubber
Impeller	Cast iron	Upper bracket	Cast iron
Shaft	Stainless steel	Protection	Rubber
Coupling	Stainless steel	Rotor	Electrical steel
Shaft bearing bush	Stainless steel/rubber	Stator	Electrical steel
Valve casing	Cast iron	Stator shell	Stainless steel
Conical valve	Cast iron	Winding	Green wire
Strainer	Stainless steel	Lower bracket	Cast iron
Impeller wear ring	Steel/Rubber	Cover mechanical seal	Cast iron
Cable guard	Stainless steel	Mechanical seal	Silicon carbide/silicon carbide
Normal nut	Stainless steel	Bearing bush	Graphite
Stud	Stainless steel	Thrust-bearing	Stainless steel/Synthetic
Screw	Stainless steel	Thrust-bearing foot slip	Cast iron
		Diaphragm	Rubber
		Diaphragm cover	Cast iron
		Connecting flange	Cast iron
		Shaft sleeve	Chrome plated 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.		
OFFER No.	Pos. 1.1	Date 07/11/2022	

Voltage	400	V	Frequency	50	Hz	Flow rate	-	Head req.	-
Motor	66	kW	No. poles	2		Model	E10S64/3D+MAC890-8V		

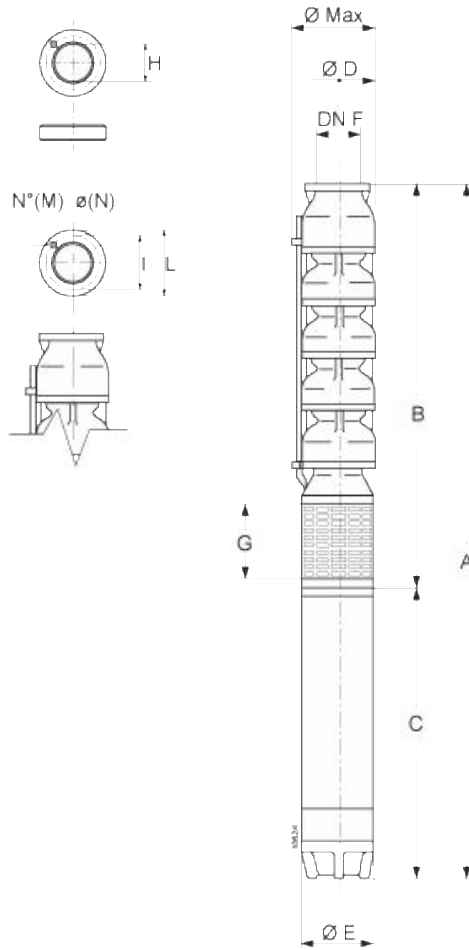


OPERATING DATA - ISO 9906:2012 3B -

Q [m³/h]	H [m]	P [kW]	η [%]	NPSH [m]	Speed [1/min]
200	81.6	61.03	72.79	5.56	2905

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Voltage	400	V	Frequency	50	Hz	Flow rate	-	Head	-
Power	66	kW	No. poles		2	Model	E10S64/3D+MAC890-8V		



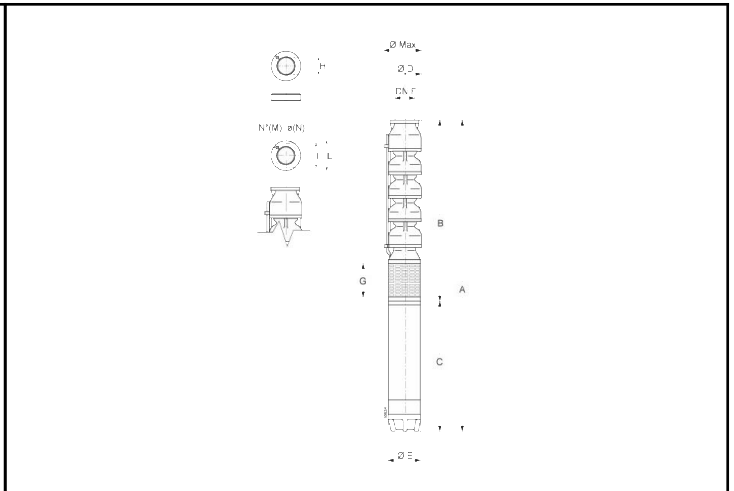
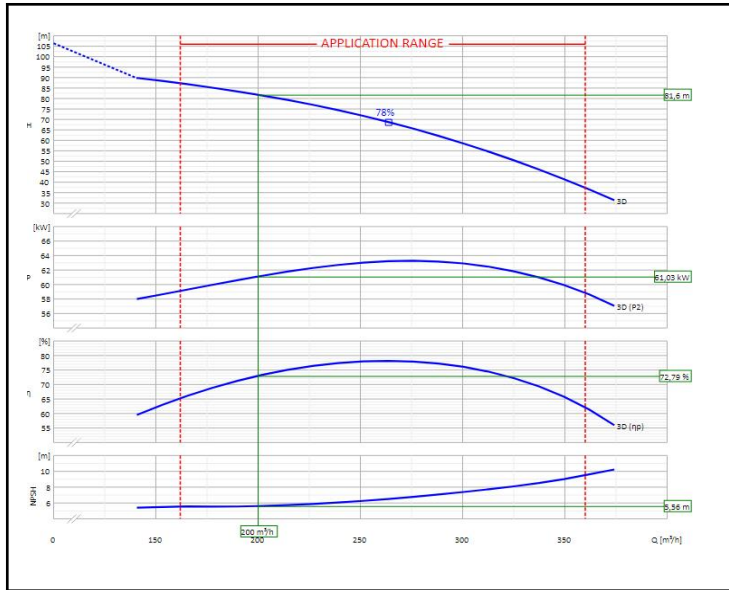
Dimensions [mm]

A	2435.5	M	6		
B	1005.5	N	16		
C	1430	Ø max	250		
D	240				
E	191				
F	150				
G	198				
H	170.5				
I	206				
L	234				

OFFER No.	Pos. 1.1	Date 07/11/2022
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Item	1	Quantity	1	Required flow	-	Required head	-
Type	SUBMERSIBLE ELECTRIC PUMP			Model	E10S64/3D+MAC890-8V		



Dimensions [mm]						
A	2435.5	E	191	I	206	Ø max 250
B	1005.5	F	150	L	234	
C	1430	G	198	M	6	
D	240	H	170.5	N	16	

OPERATING DATA - ISO 9906:2012 3B -					CONSTRUCTION CHARACTERISTICS		
Q [m³/h]	H [m]	P [kW]	η [%]	NPSH [m]	Delivery diameter	150	mm
200	81.6	61.03	72.79	5.56	Max. overall diameter	250	mm
					Weight of electric pump	326.5	Kg
					No. Stages	3	
					Motor seal	Mechanical	
					Type of installation	Vertical	

OPERATING LIMITS				PUMP MATERIALS			
Pumped liquid		Water		Diffuser unit	Cast iron		
Max. temp. of pumped liquid (*)		30	°C	Suction support	Nodular cast iron		
Maximum density		1	kg/dm³	Impeller	Cast iron		
Maximum viscosity		1	mm²/s	Shaft	Stainless steel		
Maximum solid content		40	g/m³	Coupling	Stainless steel		
Max. number of starts/hr		8		Shaft bearing bush	Stainless steel/rubber		
Minimum immersion depth		625	mm	Valve casing	Cast iron		
OPERATING CHARACTERISTICS				Strainer	Stainless steel		
				Impeller wear ring	Steel/Rubber		
Service flow rate				MOTOR MATERIALS			
Service head							
Qmin	Qmax	162	360	Shaft	Stainless steel		
H (Q=0)	Hmax (Qmin)	106.4	87.1	Upper bracket	Cast iron		
Power consumption at duty point		-		Rotor	Electrical steel		
Pump efficiency		-		Stator	Electrical steel		
Max. pump efficiency (B.E.P.)		78		Stator shell	Stainless steel		
Sense of rotation (**)		Anticlockwise		Winding	Green wire		
Number of pumps installed		Operating	Stand-by	Lower bracket	Cast iron		
		1	0	Mechanical seal	Silicon carbide/silicon carbide		
ELECTRIC MOTOR CHARACTERISTICS				Bearing bush	Graphite		
Nominal power		66	kW	Thrust-bearing	Stainless steel/Synthetic		
Rated frequency		50	Hz	Thrust-bearing foot slip	Cast iron		
Rated voltage		400	V	Diaphragm	Rubber		
Rated current		131.2		Shaft sleeve	Chrome plated steel		
No. Poles	Nominal speed	2	2905	Motor bracket	Cast iron		
Insulation class	Protection class	-					
IP68							
Certified motor for use with drinking water							

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.	
OFFER No.	Pos. 1.1	Date 07/11/2022