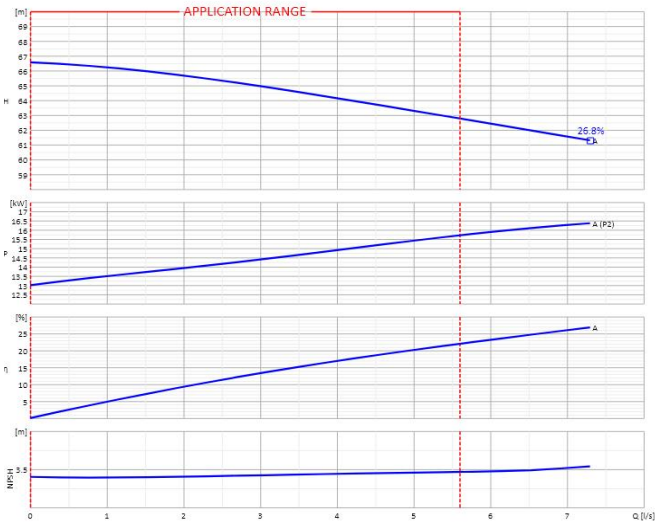
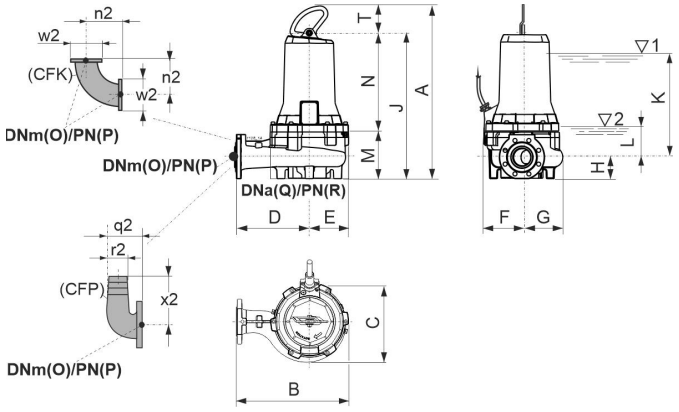
TECHNICAL DATA SHEET

Customer:				Ref.:			
Item		Quantity		Required flow rate	n.d.	Required head	n.d.
Type	SUBMERSIBLE ELECTRIC PUMP FOR WASTE WATER			Model	KCW080LA+016522N3		





Dimensioni [mm]

A	777.4	**J**	658	**Q**	80		
B	543	**K**	446	**q2**	165		
C	292	**L**	98	**R**	16 (*)		
D	370	**M**	194	**r2**	75		
E	173	**N**	464	**T**	119.4		
F	146	**n2**	164	**w2**	200		
G	146	**O**	80	**x2**	217		
H	102	**P**	16				

OPERATING DATA- ISO 9906:2012 3B -

Q [l/s]	H [m]	P [kW]	η [%]	NPSH [m]

CONSTRUCTION CHARACTERISTICS

Delivery diameter		80		mm
Type of Impeller		Open retracted		
Moment of inertia		n.d.		
Electric pump weight	Installation	170.35		Kg
Seal on pump side	Motor side	Mechanical		Mechanical
Type of installation		n.d.		
Operation		Continuous (S1)		

OPERATING LIMITS

Pumped liquid	Waste water	
Max. temperature of pumped liquid	40	°C
Maximum density	1	kg/dm³
Maximum viscosity	1	mm²/s
Max. solid content	4	%
Max. number of starts/hr	10	
Free passage	80	mm
Minimum immersion depth	446	mm

OPERATING CHARACTERISTICS ****

Service flow rate		n.d.		n.d.
Service head		n.d.		n.d.
H (Q=0)	Hmax	0	66.56	m
Qmin	Qmax	0	5.6	l/s
Power consumption at duty point		n.d.		n.d.
Max power consumption		15.7		kW
Pump efficiency	Overall	n.d.	n.d.	n.d.
Sense of rotation (*)		Clockwise		
Number of pumps installed		Operating		Stand-by
		1		0

ELECTRIC PUMP MATERIALS

Flange for mechanical seal	Nodular cast iron
Support bearing	Cast iron
Cable clamp	Stainless steel
Motor casing	Cast iron
Stator	Electrical steel
Complete shaft with rotor	Stainless steel/Magnetic steel
Conductivity probe	n.d.
Oil centrifuge	Technopolymer
Round power cable	n.d.
Delivery body	Cast iron
Impeller	Cast iron
Ring impeller seat	
Mechanical seal on pump side	silicon carbide/ceramic
Oil box	Cast iron
Mechanical seal on motor side	Ceramic/graphite
Screws and nuts	Stainless steel

ELECTRIC MOTOR CHARACTERISTICS

Nominal power		16.5		kW
Rated frequency		50		Hz
Rated voltage		400		V
Rated current		31		A
No. Poles	Rotation speed	2	2955	1/min
Type of motor		3 ~		
Efficiency 4/4-3/4-2/4 (**)		91,1 - 91,7 - 90,9 %		
Power factor 4/4-3/4-2/4		0,840 - 0,785 - 0,650		
Is/In	Ts/Tn	8.9		n.d.
Thermal protection		Klixon		
Insulation class		H		
Protection class		IP68		
Explosion-proof		n.a.		
Power supply cable	Length		10	m
Efficiency class	S.F	IE3		n.d.

Notes: (*) Viewed from motor coupling side; (**) Efficiency testing method according to IEC60034-2-1

OFFER No.	Pos.	Date 16/01/2020

T400IT-V01