Customer:		Ref.:	
Offer:	alt. A/00	Date:	27/11/2024

TECHNICAL DATA SHEET

Customer:				Ref.:			
Item	1	Quantity	1	Required flow rate	-	Required head	-
Type	SUBMERSIBLE ELECTRIC PUMP FOR WASTE WATER			Model	KCT040HA+006522N3		

OPERATING LIMITS				CONSTRUCTION CHARACTERISTICS		
Pumped liquid	Waste water			Delivery diameter	40	mm
Max. temperature of pumped liquid	40		°C	Type of Impeller	Shredder	
Maximum density	1		kg/dm³	Seal on pump side	Mechanical	
Maximum viscosity	1		mm²/s	Seal on motor side	Mechanical	
Max. solid content	4		%	Type of installation	-	-
Maximum submersion	20		m	Moment of inertia	0.02765 Kgm²	
Maximum number of starts/hr	15			Operation	Continuous (S1)	
Maximum operating time with port closed and pump submersed	3		min	**WEIGHTS**		
Minimum immersion depth	317	mm	S1	Weight of electric pump	100	Kg
Free passage	-		mm	Installation weight	-	-

OPERATING CHARACTERISTICS					ELECTRIC MOTOR CHARACTERISTICS		
Service flow rate		-		-	Brand	Caprari	
Service head		-		-	Model	KC006522H132N3	
Qmin	Qmax	1.8	17.3	m³/h	Nominal power	6.5	kW
H (Q=0)	Hmax (Qmin)	0	50.5	m	Rated frequency	50	Hz
Power consumption at duty point		-		-	Rated voltage	400	V
Max. power consumption		5.9		kW	Nominal speed	2925	1/min
Efficiency pump	Overall efficiency	-	-	-	Rated current	11.9	A
NPSH required		-		-	No. Poles	2	
Rotation speed		2925		1/min	Type of motor	3 ~	
Sense of rotation (*)		Clockwise			Efficiency 4/4-3/4-2/4 (**)	88.6 - 87.8 - 86.2 %	
Tolerance according to standard		ISO 9906:2012 3B			Power Factor 4/4-3/4-2/4	0.890 - 0.860 - 0.755	
Number of pumps installed		Operating		Standby	Insulation class	H	
		1		0	Is/In	Ts/Tn	9.2 -
					Type of starting		
					Protection class	IP68	
					Explosion-proof	n.a.	
					Thermal protection	Klixon	
					Type of cable	Length	NSSHOU-J 10 m
					Efficiency class	IE3	
					Service Factor	1	

PUMP MATERIALS		MOTOR MATERIALS	
Delivery body	EN-GJL250	Flange for mechanical seal	EN-GJS400
Suction support	EN-GJL250	Support bearing	EN-GJL250
Impeller	EN-GJL250	Cable clamp	AISI 304 (1.4301)
Fixed blade	AISI 420B (1.4028)	Motor casing	EN-GJL250
Rotating blade	AISI 420B (1.4028)	Stator	Electrical steel
Oil box	EN-GJL250	Complete shaft with rotor	Stainless steel/Electrical steel
Mechanical seal on pump side	SIC/SIC/NBR	Conductivity probe	-
Mechanical seal on motor side	Ceramic/graphite	Oil centrifuge	GRYVORY®
Screws and nuts	A4	Diaphragm	S185 (1.0035)/NBR
		Handle	AISI 304 (1.4301)
		Round power cable	-

ACCESSORIES MATERIALS	
****	****
****	****
****	****
****	****

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

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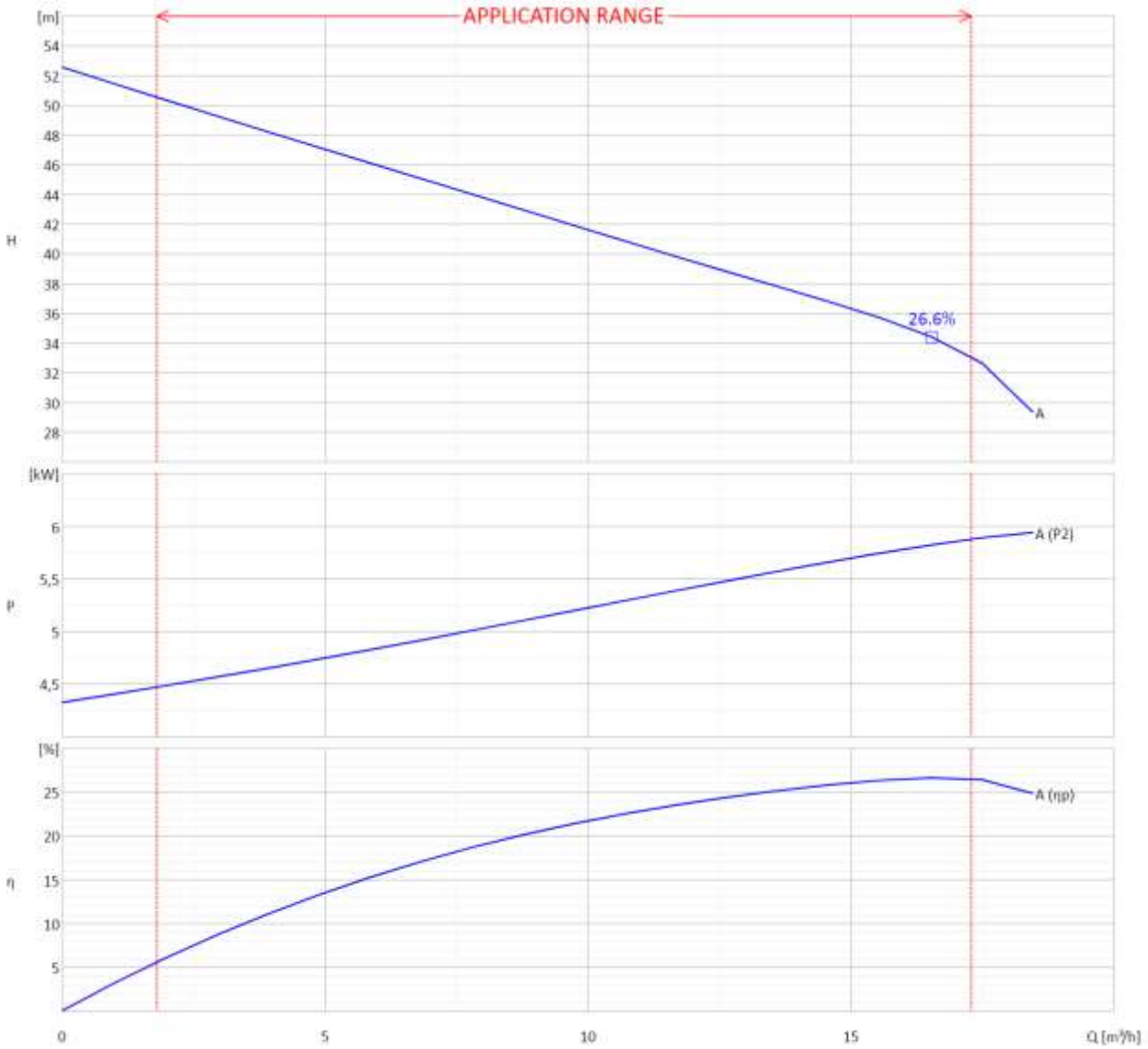
PERFORMANCE CURVES

Voltage	400	V	Frequency	50	Hz	Flow rate	-	Head regu.	-
Motor	6.5	kW	No. poles	2		Model	**KCT040HA+006522N3**		



OPERATING DATA - ISO 9906:2012 3B -

Q [m³/h]	H [m]	P [kW]	η [%]	NPSH [m]	Speed [1/min]

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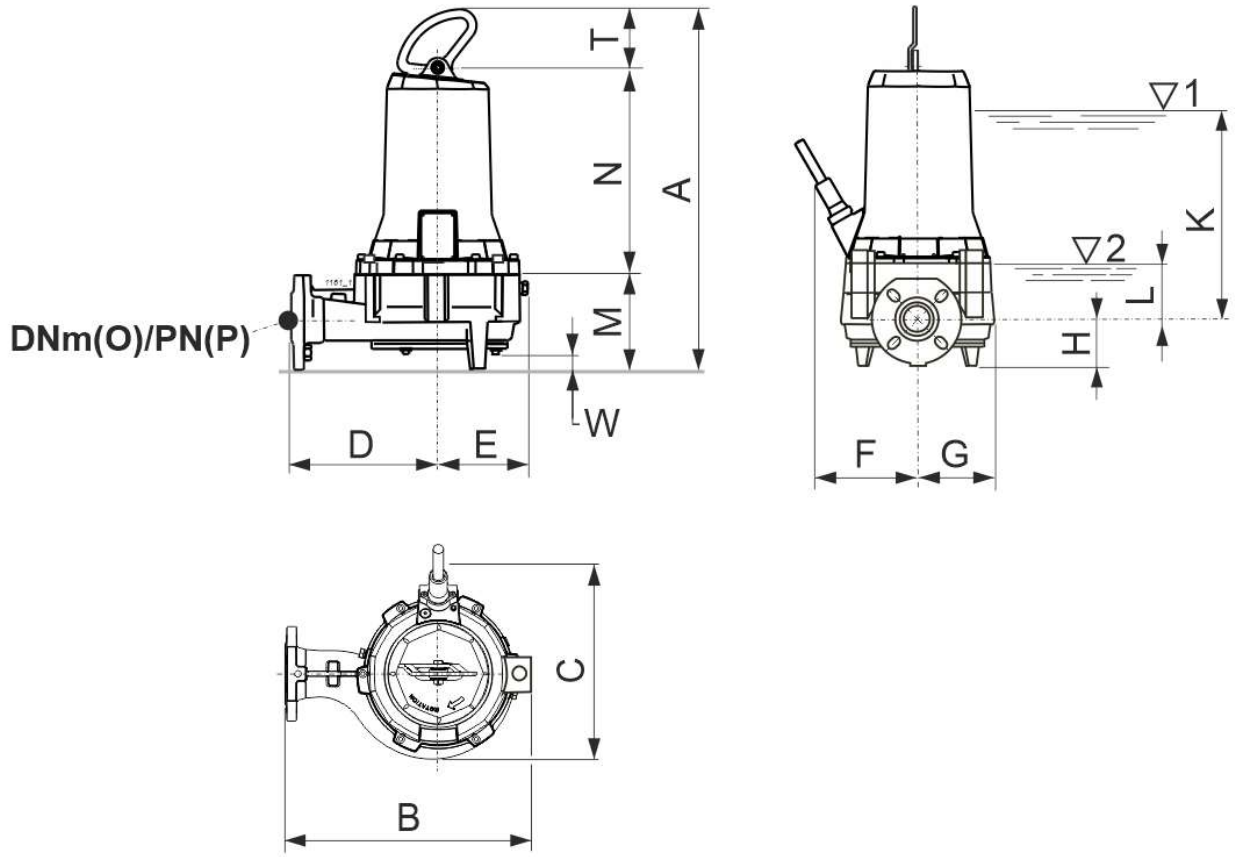
DIMENSIONS

Voltage	400	V	Frequency	50	Hz	Flow	-	Head	-
Power	6.5	kW	No. poles	2		Model	**KCT040HA+006522N3**		



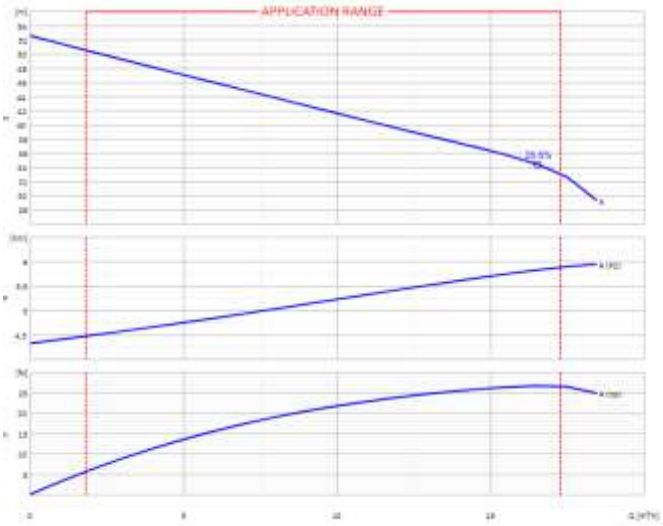
Dimensions [mm]

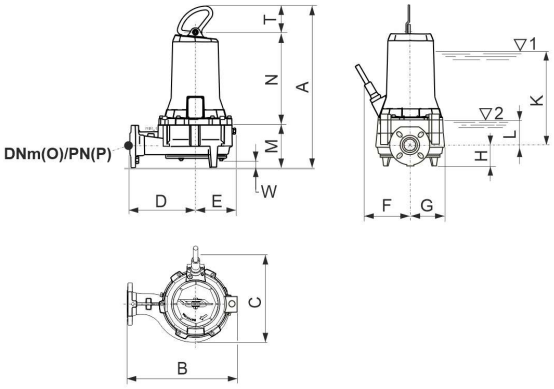
A	640.4				
B	373				
C	357.5				
D	240				
E	133				
F	221				
G	136.5				
H	73				
K	317				
L	49				
M	120				
N	402				
O	40				
P	6				
T	118.4				
W	27				

OFFER No. **alt. A/00**	Pos. 1.1	Date 27/11/2024

TECHNICAL DATA SHEET

Customer:				Ref.:			
Item	1	Quantity	1	Required flow rate	-	Required head	-
Type	SUBMERSIBLE ELECTRIC PUMP FOR WASTE WATER			Model	KCT040HA+006522N3		





Dimensioni [mm]

A	640.4	**K**	317				
B	373	**L**	49				
C	357.5	**M**	120				
D	240	**N**	402				
E	133	**O**	40				
F	221	**P**	6				
G	136.5	**T**	118.4				
H	73	**W**	27				

OPERATING DATA - ISO 9906:2012 3B -

Q [m³/h]	H [m]	P [kW]	η [%]	NPSH [m]

CONSTRUCTION CHARACTERISTICS

Delivery diameter		40		mm
Type of Impeller		Shredder		
Moment of inertia		0.02765 Kgm²		
Electric pump weight	Installation	100	-	Kg
Seal on pump side	Motor side	Mechanical		Mechanical
Type of installation		-	-	
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	15	
Free passage	-	mm
Minimum immersion depth	317	mm

OPERATING CHARACTERISTICS

Service flow rate		-		-
Service head		-		-
H (Q=0)	Hmax	0	50.5	m
Qmin	Qmax	1.8	17.3	m³/h
Power consumption at duty point		-		-
Max power consumption		5.9		kW
Pump efficiency	Overall	-	-	-
Sense of rotation (*)		Clockwise		
Number of pumps installed		Operating		Stand-by
		1		0

ELECTRIC PUMP MATERIALS

Delivery body	EN-GJL250
Suction support	EN-GJL250
Impeller	EN-GJL250
Fixed blade	AISI 420B (1.4028)
Rotating blade	AISI 420B (1.4028)
Flange for mechanical seal	EN-GJS400
Support bearing	EN-GJL250
Oil box	EN-GJL250
Cable clamp	AISI 304 (1.4301)
Motor casing	EN-GJL250
Stator	Electrical steel
Complete shaft with rotor	Stainless steel/Electrical steel
Mechanical seal on pump side	SIC/SIC/NBR
Conductivity probe	-
Oil centrifuge	GRYVORY®
Mechanical seal on motor side	Ceramic/graphite
Round power cable	-

ELECTRIC MOTOR CHARACTERISTICS

Nominal power		6.5		kW
Rated frequency		50		Hz
Rated voltage		400		V
Rated current		11.9		A
No. Poles	Rotation speed	2	2925	1/min
Type of motor		3 ~		
Efficiency 4/4-3/4-2/4 (**)		88.6 - 87.8 - 86.2 %		
Power factor 4/4-3/4-2/4		0.890 - 0.860 - 0.755		
Is/In	Ts/Tn	9.2		-
Thermal protection		Klixon		
Insulation class		H		
Protection class		IP68		
Explosion-proof		n.a.		
Power supply cable	Length	NSSHO	10	m
Efficiency class	S.F	IE3		1

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

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