

Project
 Customer pos.no
 Project ID
 Pos.no
 Created by

Data sheet

Pump type

Amaline C 5035-719/172URG

Operating data

Flow	1613.9	m ³ /h	Fluid		
Head	1.6	m	Density	998	kg/m ³
Operating speed	719	1/min	Viscosity	1	mm ² /s
Shaft power	11.0	kW	Temperature	20	°C
Efficiency	63.3	%			
Shut off head	4.3	m			
Inlet chamber	Open inlet				
Minimum water level	1.40	m			
Application range	Head		Flow		Minimum water level
	From	3.0 m	560.0 m ³ /h		--- m
	To	0.4 m	2690.0 m ³ /h		1.40 m

Design

Design	Submersible pump	Impeller type	Axial impeller
Make	KSB		Open
Series	Amaline	Degree of propeller	15 °
Frame size	500	Free passage	140 mm
Stages	1	Discharge column nominal size	500 mm
Curve number	K43304s/0-fc-2p	Height of pump	mm
Type of bearings	Antifriction	Weight	306.5 kg
Nos. of bearings	1 / 1		
Lubrication	Grease lubrication, lubricated for lifetime		

Materials

Motor casing	Grey cast iron EN-GJL-250 (A 48 Class 35B)
Motor casing cover	Grey cast iron EN-GJL-250 (A 48 Class 35B)
Casing cover	Grey cast iron EN-GJL-250 (A 48 Class 35B)
Gear casing	
Taper piece	Polyurethane
Pump casing	Stainless steel EN-1.4571 (A 276 Type 316 Ti)
Motor shaft	Stainless steel EN-1.4021+QT800 (A 276 Type 420)
Gear unit output shaft	
Propeller	Stainless steel EN-1.4571 (A 276 Type 316 Ti)
Bolts, nuts	Stainless steel A4 (EN-1.4571) (A 276 Type 316)
O-Rings	Viton (FPM)

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Shaft seal

Type of seal
Arrangement:
Seal on medium side
Mechanical seal, pump-side
Mechanical seal, bearing-side

Double mechanical seal
Tandem
with elastomer bellows
Silicon carbide / Silicon carbide
Silicon carbide / Silicon carbide

Monitoring

Thermal winding protection
Explosion proof protection
Motor housing monitoring
Mechanical seal leakage detection
Bearing temperature monitoring

By PTC thermistors
By PTC (Explosion proof models only)
By conductive moisture sensor electrode
By float switch

Coating

Preparatory treatment
Blasting method
Primer
Dry film thickness primer
Top coat
Solids content
Dry film thickness top coat
Colour

Sa 2 1/2 to ISO 8501-1 / ISO 12 944-4 DIN 55928, Part 4
Steel grit blasting
Zinc phosphate or Zinc dust
> 35 microns
2-component epoxy resin
> 82 %
> 150 microns
Ultramarine Blue (RAL 5002 to DIN 6174)

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Installation

INSTALLATION

Type of installation:	Horizontal wet-well installation
Connection pipe:	DC_DN 500
Submergence, min.:	950 mm
Minimum water level t1 in appl. Range:	1.40 m
Connection to connection pipe:	
Guide rail:	square pipe 60x60
Guide rail length:	1 m (3 ft)
Lifting device:	Lifting clamp with hook and lifting rope

Bolt-free, by claw on p

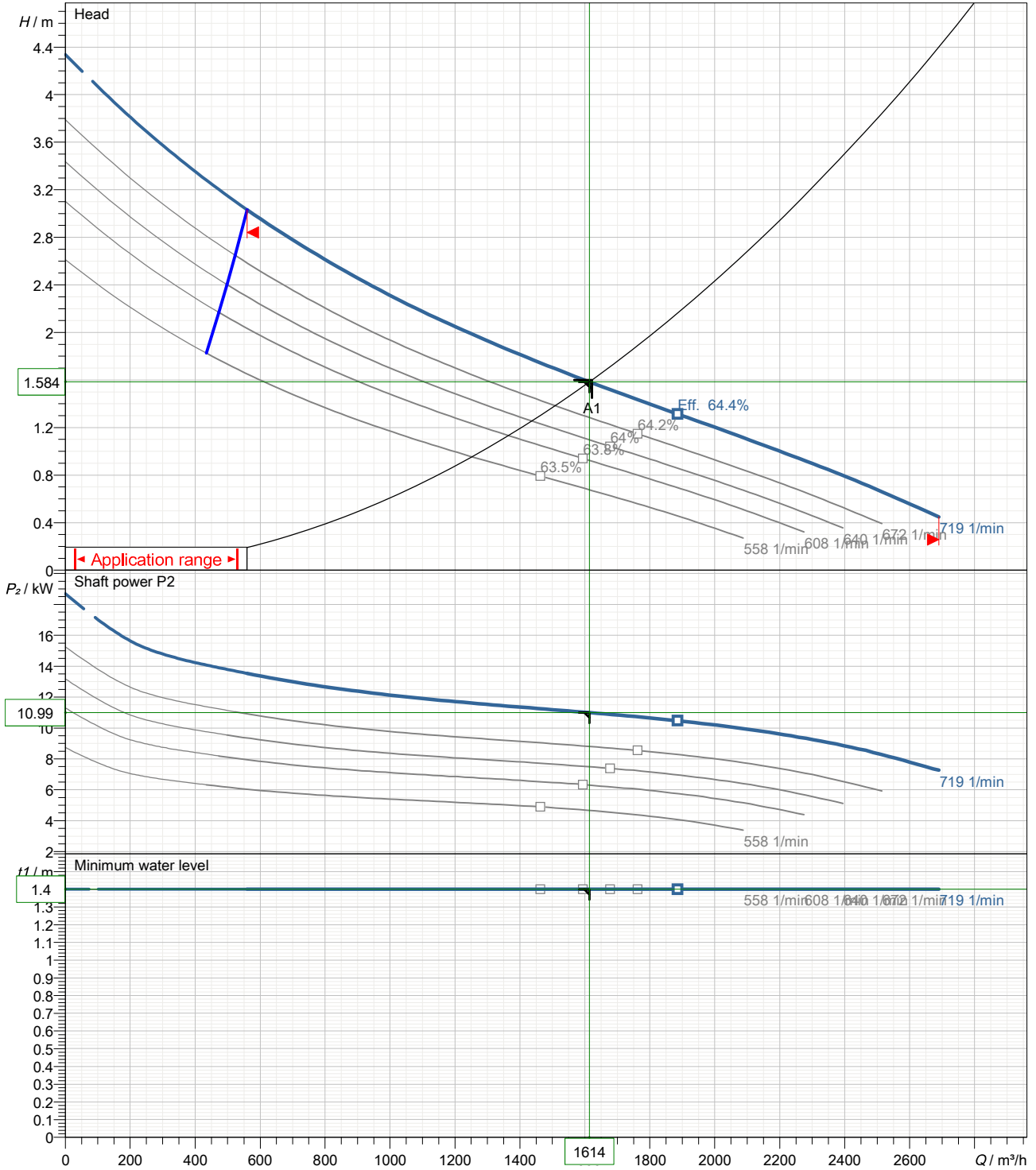
Materials:

Connection pipe:	Stainless steel EN-1.4571 (A 276 Type 316 Ti)
Guide rail:	Stainless steel EN-1.4301 (A 276 Type 304)
Lifting rope:	Stainless steel EN-1.4401 (A 276 Type 316)
Lifting clamp:	Galvanised steel

Performance curve

Pump type

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Impeller type	Axial impeller	, Open	Curve number	K43304s/0-fc-2p	
Free passage	140 mm	Density	998.3 kg/m ³	Frequency	50 Hz
Impeller size	485 mm	Viscosity	1.005 mm ² /s	Speed	719 1/min

Data sheet: motor data

Motor type **172URG**

Motor manufacturer	KSB SE & Co. KGaA	Rated voltage	400	V
Design acc. standard	-	Rated frequency	50	Hz
Degree of protection	IP68	Rated power P2	17	kW
Insulation class	F	Rated current	31.6	A
Coolant temperature	< / = 40 °C (104 °F)	Nominal speed	2940	1/min
Starting mode	Direct starting	Starting to rated current	8.3	
No. starts / h	15	Starting current	262.3	A
		Max. voltage	420	V
		Min. voltage	380	V
Motor casing	Grey cast iron EN-GJL-250 (A 48 Class 35B)			
Explosion protection	--			
Pump type	Amaline C 5035-719/172URG			

Load	P1 kW	P2 kW	eta %	cos phi	I A
4/4	19.25	17.0	88.3	0.88	31.6
3/4	14.59	12.8	87.4	0.85	24.8
2/4	10.09	8.5	84.2	0.77	18.9
1/4	5.60	4.3	75.9	0.58	14.0

Main cable	1 x S1BN8-F 7G4+5x1.5	Diameter	21.00 mm...23.00 mm
Control cable	---	Diameter	
Cable, outer sheath	Waterproof synthetic rubber compound		
Cable length	10 m (33 ft)		

