

Data sheet



Customer item no.: Lot 3
Communication dated: 22/01/2026
Doc. no.: ACC
Quantity: 4

Number: ES 8004019024
Item no.: 300
Date: 22/01/2026
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KRTF 80-253/222UEC1-S

Version no.: 1

Operating data

Requested flow rate	52.00 m ³ /h	Actual flow rate	52.05 m ³ /h
Requested developed head	50.00 m	Actual developed head	50.10 m
Pumped medium	Wastewater, municipal untreated	Efficiency	40.0 %
Pumped medium details	Not containing chemical and mechanical substances which affect the materials	Power absorbed	18.25 kW
Ambient air temperature	20.0 °C	Pump speed of rotation	2950 rpm
Fluid temperature	40.0 °C	Shutoff head	55.82 m
Fluid density	1028 kg/m ³	Max. power on curve	28.66 kW
Fluid viscosity	0.66 mm ² /s	Design	Single system 1 x 100 %
Overall efficiency	36.0 %	Performance test	No Tolerances to ISO 9906 Class 3B; below 10 kW acc. to paragraph 4.4.2

Design

Design	Close-coupled submersible	Type	MG
Orientation	Vertical	Material code	SIC/SIC/NBR
Suction flange pump drilled according to(DN1)	unmachined	Impeller type	Free flow (vortex) impeller (F-max)
Discharge flange pump drilled according to(DN2)	DN 80 / PN 10 / Drilled according to EN 1092-2	Impeller diameter	200.0 mm
Shaft seal	2 mech. seals in tandem arrangement with oil reservoir	Free passage size	76 mm
Shaft seal manufacturer	KSB	Direction of rotation from drive	Clockwise

Driver, accessories

Driver type	Electric motor	Motor winding	400 / 690 V
Model (make)	KSB	Number of poles	2
Motor const. type	KSB Sub. motor	Starting mode	Direct/Star-delta possible
Frequency	50 Hz	Connection mode	Delta
Rated voltage	400 V	Motor cooling method	Surface cooling
Rated power P2	22.00 kW	Motor version	U
Available reserve	20.54 %	Cable design	Rubber hose
Rated current	38.4 A	Cable entry	Sealed along entire length
Starting current ratio	7.8	Power cable	S1BN8-F 7G4+5x1.5
Insulation class	H according IEC 34-1	Number of power cables	1
Motor enclosure	IP68	Moisture sensor	With
Cos phi at 4/4 load	0.92	Cable length	10.00 m
Motor efficiency at 4/4 load	89.9 %		
Temperature sensor	Bimetal switch 2x		

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Materials C1

Pump casing (101)	GX2CRNIMOCUN25-6-3-3 1.4517	O-Ring (412)	Nitrile rubber NBR
Discharge cover (163)	GX2CRNIMOCUN25-6-3-3 1.4517	Motor housing (811)	GX2CRNIMOCUN25-6-3-3 1.4517
Shaft (210)	Duplex stainless steel 1.4462	Motor cable (824)	Chloroprene rubber
Impeller (230)	GX2CRNIMOCUN25-6-3-3 1.4517	Screw (900)	CrNiMo steel A4
Bearing bracket (330)	GX2CRNIMOCUN25-6-3-3 1.4517		

Packaging

Packaging category	A0 Packing acc. to KSB choice	Packaging for transport	Truck
Packaging for storage	Indoor		

Nameplates

Nameplates language	International	Duplicate nameplate	With
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Installation parts

Installation type	stationary 2 guide rail	Type	Rope
Scope of supply	Pump with installation parts For guide rail arrangements, the guide rails are not included in KSB's scope of supply.	Material	Polypropylene
		Length	5.00 m
		Max. load	450 kg
		Lifting Bail	With
Installation depth	4.50 m		
Material concept	C1		

Duckfoot bend

Size	DN 80
Flange design	EN
Duckfoot bend size (DN2 / DN3)	DN80 Drilled according to EN
Material	GX2CRNIMOCUN25-6-3-3 1.4517
Mounting type	Composite anchor bolts
Foundation rail	Without

Claw

Design	Straight
Size	DN 80

Lifting chain / -rope

Performance curve

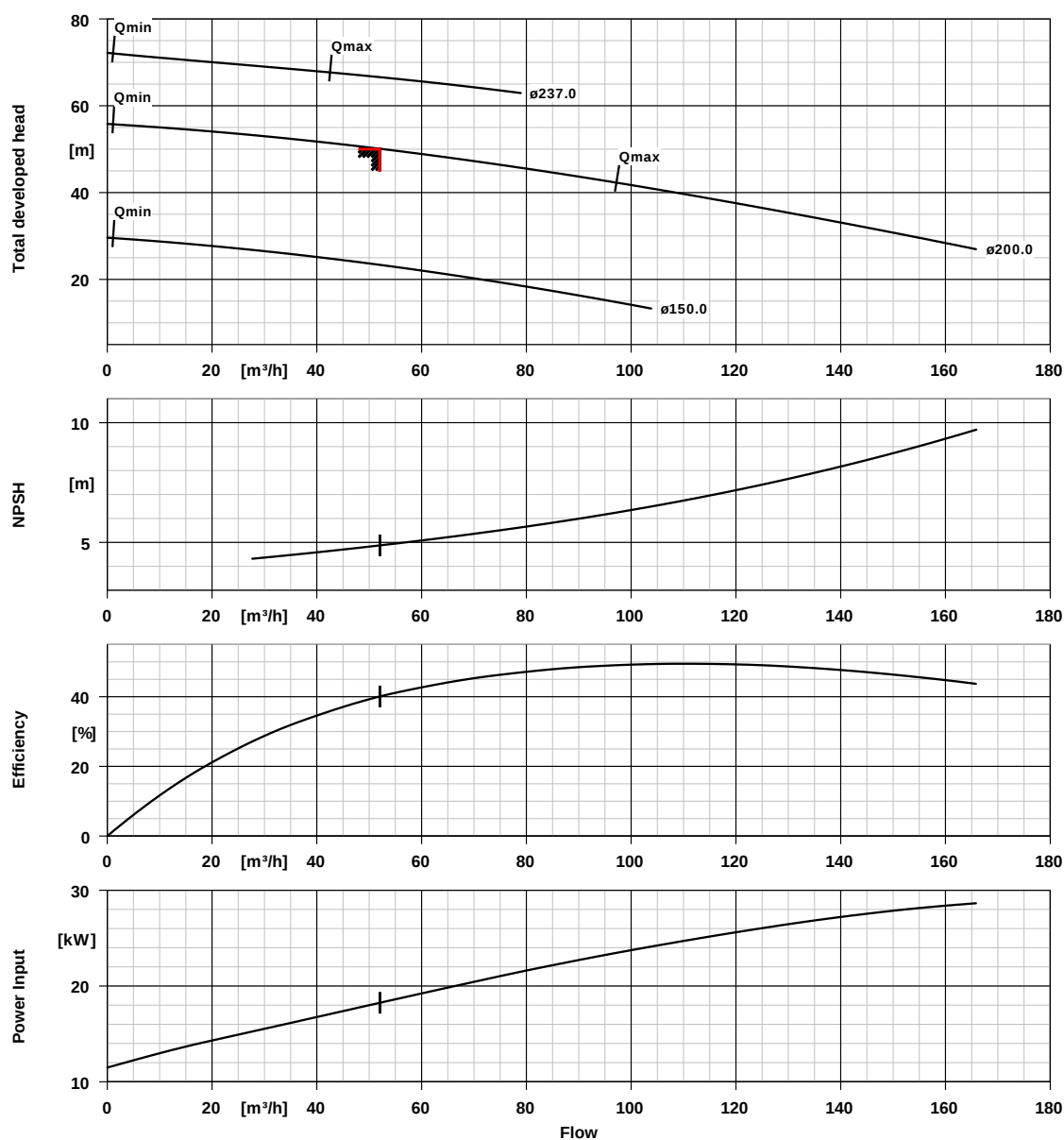


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Curve data

Speed of rotation	2950 rpm	Efficiency	40.0 %
Fluid density	1028 kg/m^3	Power absorbed	18.25 kW
Viscosity	0.66 mm^2/s	NPSH 3%	4.88 m
Flow rate	52.05 m^3/h	Curve number	K43398/1
Requested flow rate	52.00 m^3/h	Effective impeller diameter	200.0 mm
Total developed head	50.10 m	Acceptance standard	Tolerances to ISO 9906
Requested developed head	50.00 m		Class 3B; below 10 kW
			acc. to paragraph 4.4.2

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Installation plan



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Motor

Motor manufacturer	KSB
Motor size	22E
Motor power	22.00 kW
Number of poles	2
Speed of rotation	2940 rpm

Connections

Suction flange pump drilled according to (DN1)	unmachined
Duckfoot bend size (DN2 / DN3)	DN 80 Drilled according to EN

Weight net

Pump, Motor, Cable , Claw	229 kg
Duckfoot bend	35 kg
Total	264 kg

For auxiliary connections see separate drawing.

Connect pipes without stress or strain!

Dimensional tolerances for shaft axis height: DIN 747
Dimensions without tolerances, middle tolerances to:
Connection dimensions for pumps:
Dimensions without tolerances - welded parts:
Dimensions without tolerances - gray cast iron parts:
Dimensions without tolerances - stainless steel parts:

ISO 2768-m
EN735
ISO 13920-B
ISO 8062-CT11
ISO 8062-CT12