

Sewabloc K 65-250G H 100L 06

Operating data

Requested flow rate	50.00 m ³ /h	Actual flow rate	50.00 m ³ /h
Requested developed head	6.00 m	Actual developed head	6.00 m
Pumped medium	Water Clean water	Efficiency	69.4 %
Pumped medium details	Not containing chemical and mechanical substances which affect the materials	Power absorbed	1.17 kW
Max. ambient air temperature	20.0 °C	Pump speed of rotation	977 rpm
Min. ambient air temperature	20.0 °C	NPSH 3%	1.37 m
Fluid temperature	20.0 °C	Permissible operating pressure	6.30 bar.g
Fluid density	998 kg/m ³	Discharge press.	0.58 bar.g
Fluid viscosity	1.00 mm ² /s	Shutoff head	7.99 m
Suction pressure max.	0.00 bar.g	Min. allowable flow rate	21.67 m ³ /h
Mass flow rate	13.82 kg/s	Min. allow. mass flow	6.01 kg/s
Max. power on curve	1.59 kW	Design	Single system 1 x 100 % Tolerances to ISO 9906 Class 3B; below 10 kW acc. to paragraph 4.4.2
Max. allow. mass flow	28.52 kg/s		

Design

Pump standard	KSB-Aggregate international execution	Shaft seal manufacturer	KSB
Design	Close-coupled	Type	MG
Orientation	Horizontal	Material code	SIC/SIC/NBR
Suction nominal dia.	DN 80	Impeller type	Multivane radial flow impeller (K)
Suction nominal pressure	PN 16	Wear ring	Casing wear ring
Suction position	axial	Impeller diameter	218.0 mm
Discharge nominal dia.	DN 65	Free passage size	50 mm
Discharge nominal pressure	PN 16	Direction of rotation from drive	Clockwise
Discharge position	top (0°/360°)	Bearing bracket size	B01
Discharge flange drilled according to standard	EN 1092-2	Bearing type	Anti-friction bearings
Flanges DN 65 will be drilled with 4 holes		Lubrication type	Grease
Suction nozzle drilled acc. to DIN2501 with tapped blind holes		Color	Ultramarine blue (RAL 5002) KSB-blue
Shaft seal	2 mech. seals in tandem arrangement with oil reservoir		

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Driver, accessories

Baseplate type	Sewatec foundation rails	Rated current	3.6 A
Baseplate size	U80X550b	Starting current ratio	5.2
Baseplate drain piping material		Insulation class	F to IEC 34-1
		Motor enclosure	IP55
Aantal opsteldelen: fundamentrails.		Cos phi at 4/4 load	0.73
Driver type	Electric motor	Motor efficiency at 4/4 load	83.0 %
Drive standard mech.	IEC	Temperature sensor	3 PTC resistors
Model (make)	Siemens	Motor winding	230 / 400 V
Drive supplied by	Standard motor supplied by KSB - mounted by KSB	Number of poles	6
Motor const. type	V1	Connection mode	Star
Motor size	100L	Motor cooling method	Surface cooling
Efficiency class	Efficiency class IE3 acc. to IEC60034-30-1	Motor material	Aluminium
Motor speed	977 rpm	Frequency inverter operation allowed	FI allowed
Frequency	50 Hz	Motor noise pressure level	59 dBa
Rated voltage	400 V	Sewaslide	Without maintenance slide
Rated power P2	1.50 kW	EAC Approval	Yes
Available reserve	28.64 %		

Materials G

Notes		Impeller (230)	Grey cast iron EN-GJL-250
General criteria for a water analysis: pH-value ≥ 7 ; chloride content (Cl) ≤ 250 mg/kg. Chlorine (Cl2) ≤ 0.6 mg/kg.		O-Ring (412)	Nitrile rubber NBR
Pump casing (101)	Grey cast iron EN-GJL-250	Casing wear ring (502.1)	Grey cast iron EN-GJL-250
Discharge cover (163)	Grey cast iron EN-GJL-250	Screwed plug (903)	Steel ST
Shaft (210)	Chrome steel 1.4021+QT800	Hexagon socket head cap screw (914)	Chrome steel CrSt

Packaging

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

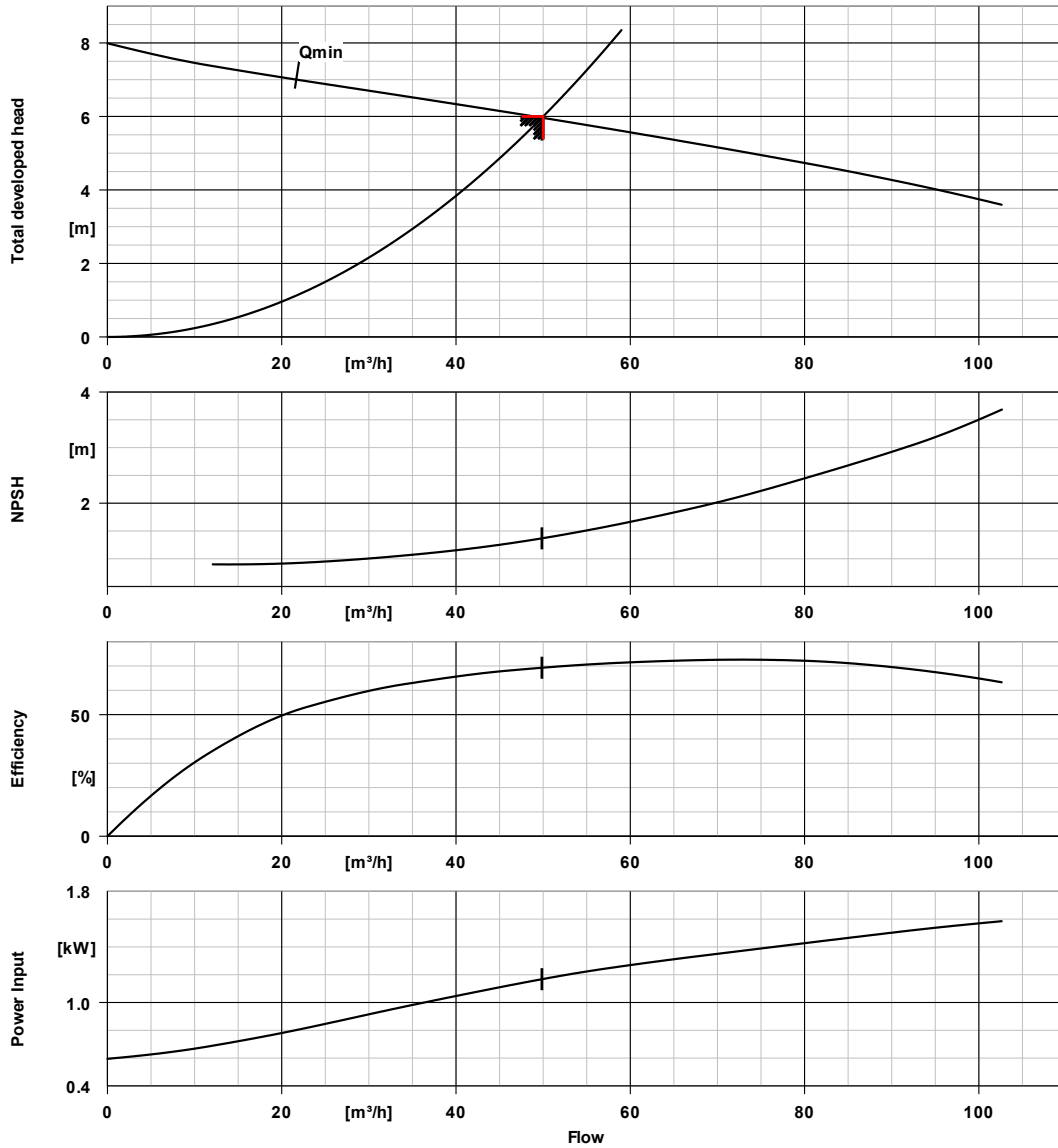
Nameplates

Nameplates language	International
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Performance curve



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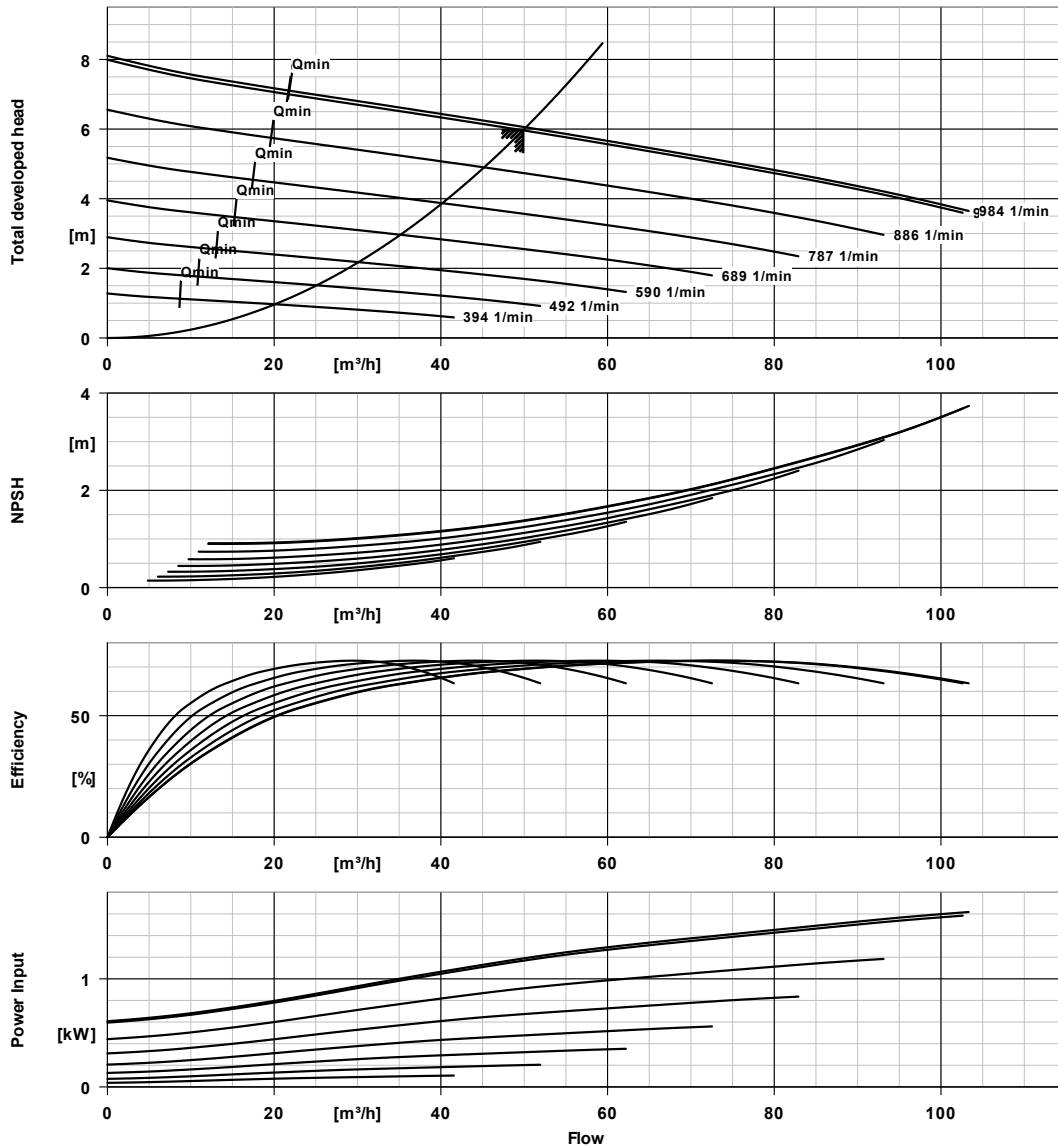
Curve data

Speed of rotation	977 rpm	Efficiency	69.4 %
Fluid density	998 kg/m^3	Power absorbed	1.17 kW
Viscosity	1.00 mm^2/s	NPSH req. 3%	1.37 m
Flow rate	50.00 m^3/h	Curve number	K42424
Requested flow rate	50.00 m^3/h	Effective impeller diameter	218.0 mm
Total developed head	6.00 m	Acceptance standard	Tolerances to ISO 9906
Requested developed head	6.00 m		Class 3B; below 10 kW
			acc. to paragraph 4.4.2

Speed curve



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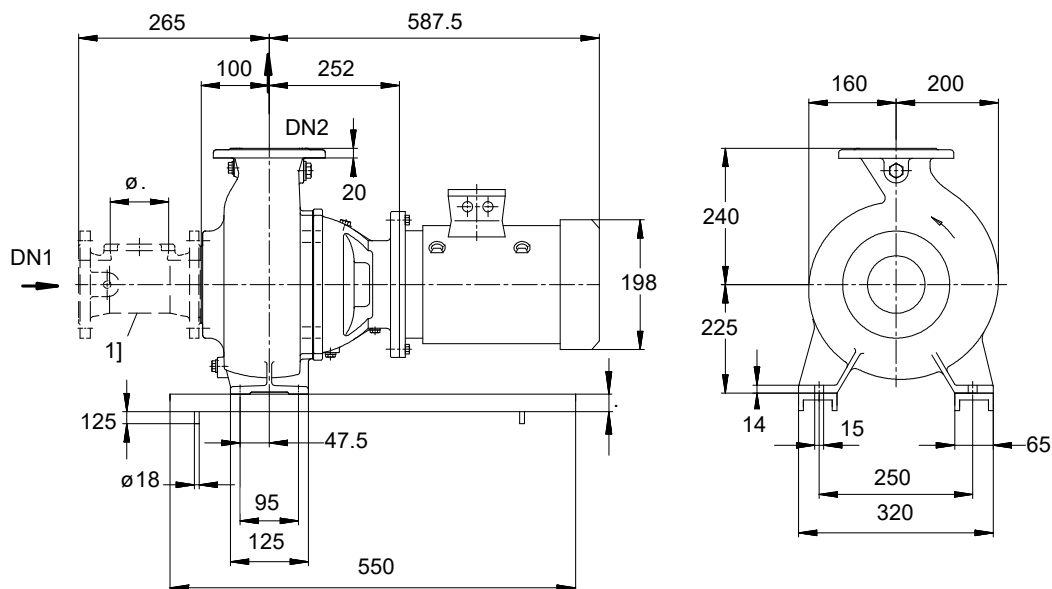
Curve data

Fluid density	998 kg/m^3	Total developed head	6.00 m
Viscosity	1.00 mm^2/s	Requested developed head	6.00 m
Flow rate	50.00 m^3/h	Effective impeller diameter	218.0 mm
Requested flow rate	50.00 m^3/h		

Installation plan



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1] The inlet flange spacer is available as an accessory

Drawing is not to scale

Dimensions in mm

Motor

Motor manufacturer	Siemens
Motor size	100L
Motor power	1.50 kW
Number of poles	6
Speed of rotation	977 rpm

Connections

Suction nominal size DN1	DN 80 / EN 1092-2
Discharge nominal size DN2	DN 65 / EN 1092-2
Nominal pressure suct.	PN 16
Rated pressure disch.	PN 16
Flanges DN 65 will be drilled with 4 holes	
Suction nozzle drilled acc. to DIN2501 with tapped blind holes	

Baseplate

Design	Sewatec foundation rails
Size	U80X550b
Material	Steel ST
Leakage drain baseplate (8B)	Rp1, Without
Baseplate drain piping execution	Without

Weight net

Pump	86 kg
Baseplate	10 kg
Suction side accessory	
Motor	25 kg
Total	121 kg

Connect pipes without stress or strain!

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

DIN 747
 ISO 2768-m
 EN735
 ISO 13920-B
 ISO 8062-CT9

For auxiliary connections see separate drawing.

Installation plan



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