

Data sheet



Customer item no.:
Communication dated:
Doc. no.: Quick quote
Quantity: 1

Number: ES 8004282643
Item no.: 100
Date: 15/06/2026
Page: 1 / 5

Sewabloc F 50-216GH H 100L 04

Version no.: 1

Operating data

Requested flow rate	36.00 m ³ /h	Actual flow rate	36.09 m ³ /h
Requested developed head	10.00 m	Actual developed head	10.05 m
Pumped medium	Contaminated water (emergency operation for floods)	Efficiency	56.0 %
	Water-sand mixture up to 200 mg/l	Power absorbed	1.76 kW
Pumped medium details	Not containing chemical and mechanical substances which affect the materials	Pump speed of rotation	1459 rpm
		NPSH 3%	1.37 m
Max. ambient air temperature	20.0 °C	Permissible operating pressure	10.00 bar.g
Min. ambient air temperature	20.0 °C	Discharge press.	0.98 bar.g
Fluid temperature	20.0 °C		
Fluid density	999 kg/m ³	Shutoff head	13.64 m
Fluid viscosity	1.00 mm ² /s	Min. allowable flow rate	1.12 m ³ /h
Suction pressure max.	0.00 bar.g	Min. allow. mass flow	0.31 kg/s
Overall efficiency	48.9 %	Max. allow. mass flow	15.60 kg/s
Mass flow rate	10.02 kg/s	Design	Single system 1 x 100 %
Max. power on curve	2.10 kW		Tolerances to ISO 9906 Class 3B; below 10 kW acc. to paragraph 4.4.2

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 65	Impeller type	Free flow (vortex) impeller (F- max)
Suction nominal pressure	PN 16	Impeller diameter	190.0 mm
Suction position	axial	Free passage size	25 mm
Discharge nominal dia.	DN 50	Direction of rotation from drive	Clockwise
Discharge nominal pressure	PN 16	Bearing bracket size	B01
Discharge position	top (0°/360°)	Bearing type	Anti-friction bearings
Discharge flange drilled according to standard	EN 1092-2	Lubrication type	Grease
Flanges DN 65 will be drilled with 4 holes		Color	Ultramarine blue (RAL 5002) KSB-blue
Suction nozzle drilled acc. to DIN2501 with tapped blind holes			
Shaft seal	2 mech. seals in tandem arrangement with oil reservoir		

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Page: 2 / 5

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Driver, accessories

Starting current		Motor enclosure	IP55
Baseplate type	Sewatec foundation rails	Cos phi at 4/4 load	0.80
Baseplate size	101	Motor efficiency at 4/4 load	87.7 %
Scope of mounting parts: foundation rails.		Temperature sensor	3 PTC resistors
Driver type	Electric motor	Motor winding	400 / 690 V
Drive standard mech.	IEC	Number of poles	4
Model (make)	KSB-Motor	Connection mode	Delta
Drive supplied by	Standard motor supplied by KSB - mounted by KSB	Motor cooling method	Surface cooling
Motor const. type	V1	Motor material	Aluminium
Motor size	100L	Frequency inverter operation	FI allowed
Efficiency class	Efficiency class IE3 acc. to IEC60034-30-1	allowed	
Motor speed	1460 rpm	Motor noise pressure level	67 dBa
Frequency	50 Hz	Earthing connection motor	No
Rated voltage	400 V	Sewaslide	Without maintenance slide
Rated power P2	3.00 kW	Motor data can vary from type plate information. Motor data describes KSB 's choice functional specification and is used for pump selection.	
Available reserve	70.06 %	CE-approval	Yes
Rated current	6.2 A	EAC Approval	Yes
Starting current ratio	8	Ambient temperature	40.0 °C
Insulation class	F to IEC 34-1	Max. absolute humidity	30 g/m3
		Temp. sensor mtr. bearing	Without
		UKCA conformity	Yes

Materials GH

Pump casing (101)	Grey cast iron EN-GJL-250	O-Ring (412)	Nitrile rubber NBR
Discharge cover (163)	High Chrome white iron EN-GJN-HB555(CR14)	Screwed plug (903)	Steel ST
Shaft (210)	Chrome steel 1.4021+QT800	Hexagon socket head cap screw (914)	Chrome steel CrSt
Impeller (230)	High Chrome white iron EN-GJN-HB555(CR14)		

Packaging

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

Nameplates

Nameplates language	International	Additional nameplate with QR Code and RFID Chip
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Performance curve

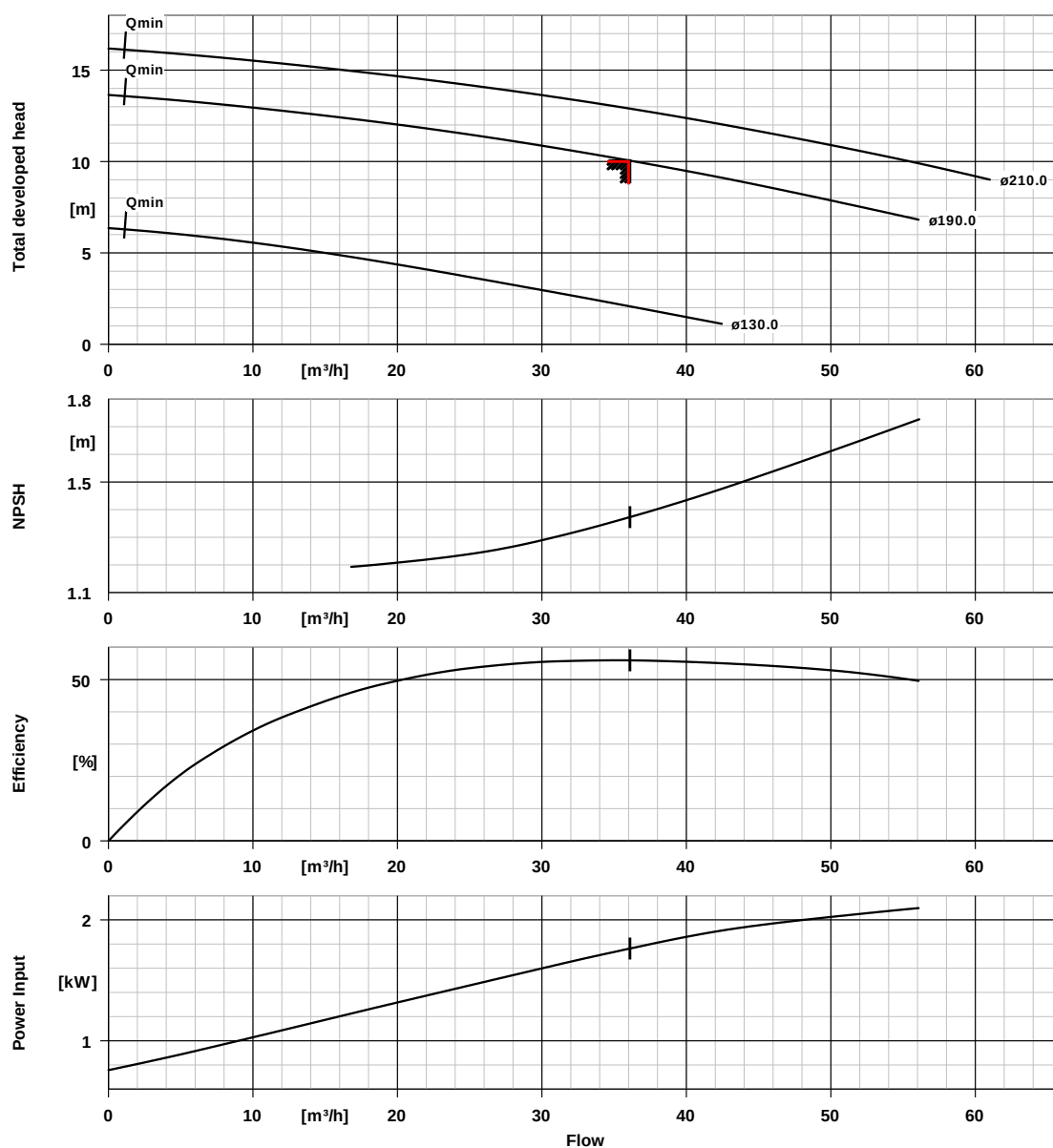


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Page: 3 / 5

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Curve data

Speed of rotation	1459 rpm	Efficiency	56.0 %
Fluid density	999 kg/m^3	Power absorbed	1.76 kW
Viscosity	1.00 mm^2/s	NPSH 3%	1.37 m
Flow rate	36.09 m^3/h	Curve number	K43327/4
Requested flow rate	36.00 m^3/h	Effective impeller diameter	190.0 mm
Total developed head	10.05 m	Acceptance standard	Tolerances to ISO 9906
Requested developed head	10.00 m		Class 3B; below 10 kW
			acc. to paragraph 4.4.2

Installation plan

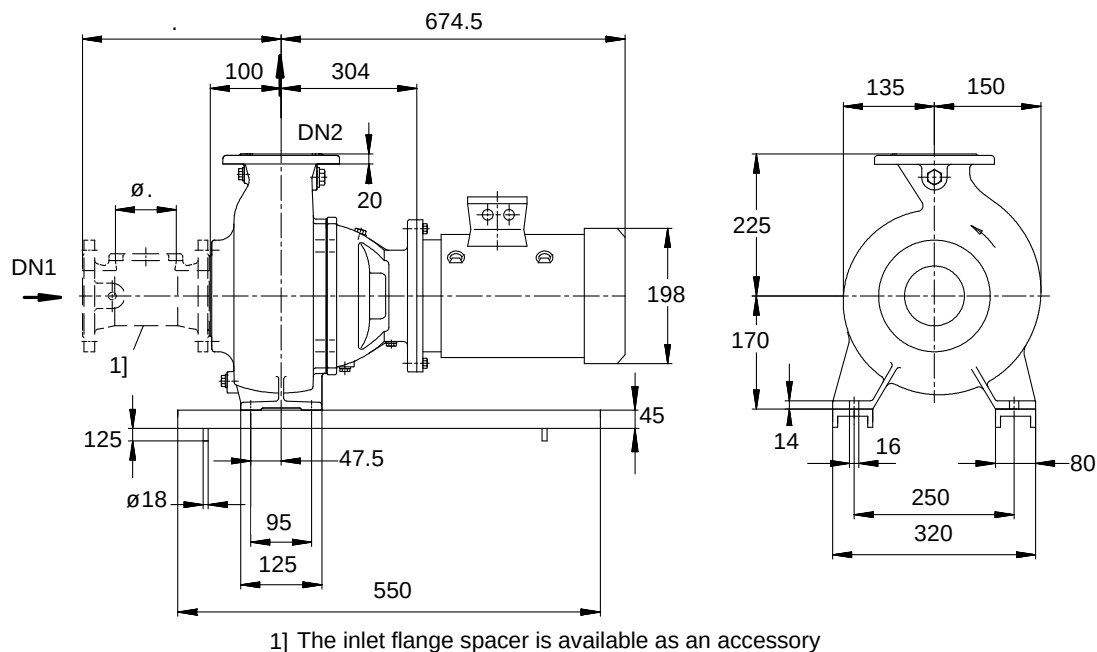


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Page: 4 / 5

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Drawing is not to scale

Dimensions in mm

Motor

Motor manufacturer	KSB-Motor
Motor size	100L
Motor power	3.00 kW
Number of poles	4
Speed of rotation	1460 rpm

Baseplate

Design	Sewatec foundation rails
Size	101
Material	Steel ST
Leakage drain baseplate (8B)	Rp1, Without
Baseplate drain piping execution	Without

Connections

Suction nominal size DN1	DN 65 / EN 1092-2
Discharge nominal size DN2	DN 50 / 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	

Weight net

Pump	80 kg
Baseplate	10 kg
Suction side accessory	
Motor	37 kg
Total	127 kg

Connect pipes without stress or strain!

Dimensional tolerances for shaft axis height:
Dimensions without tolerances, coarse tolerances to:
Connection dimensions for pumps:
Dimensions without tolerances - welded parts:

DIN 747
ISO 2768-c
EN735
ISO 13920-B

For auxiliary connections see separate drawing.

Installation plan



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Page: 5 / 5

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Dimensions without tolerances - gray cast iron parts:

ISO 8062-CT10/11