

3B; below 10 kW acc. to paragraph 4.4.2

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MovitecVSF006/20-B1P55ES132D5VW

High pressure Inline Pump

Operating data

Requested flow rate Requested developed head Pumped medium	Water Clean water	Actual flow rate Actual developed head Efficiency MEI (Minimum Efficiency	4.01 m³/h 180.35 m 61.6 % ≥ 0.70
Pumped medium details	Not containing chemical and mechanical substances which affect the materials	Index) Power absorbed Pump speed of rotation	3.19 kW 2964 rpm
Max. ambient air temperature	20.0 °C	NPSH required	1.64 m
Min. ambient air temperature	20.0 °C	Permissible operating	25.00 bar.g
Fluid temperature	20.0 °C	pressure	
Fluid density	998 kg/m³	Discharge press.	17.65 bar.g
Fluid viscosity	1.00 mm ² /s	Shutoff head	202.87 m
Suction pressure max.	0.00 bar.g	Min. allow. flow for continuous	0.80 m³/h
Mass flow rate	1.11 kg/s	stable operation	
Max. power on curve	4.21 kW	Min. allow. mass flow for	0.22 kg/s
Max. allow. mass flow	2.55 kg/s	continuous stable operation	
		Design	Single system 1 x 100 % Tolerances to ISO 9906 Class

Design

Pump standard	KSB high pressure in-line international execution	Shaft seal manufacturer Shaft seal type	DP RMG-AC
Design	Close-coupled	Material code	BQ7VGG
Orientation	Vertical .	Shaft seal code	55
Suction nominal dia.	DN 32	Sealing plan	I Single-acting mechanical
Suction nominal pressure	PN 25		seal(internal circulation)
Suction position	90° (right)	A liquid free of solids is assumed	
Connection standard	EN 1092-1	Seal chamber design	Standard seal chamber
discharge		Contact guard	With
Discharge nominal dia.	DN 32	Impeller diameter	90.0 mm
Discharge nominal pressure	PN 25	Direction of rotation from drive	Clockwise
Discharge position	270° (left 90°)	Color	Graphite black (RAL 9011)
Round flange (F)			
Shaftseal	Single acting mechanical		

seal



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Driver, accessories

Driver type Electric motor Drive standard mech. **IEC** Model (make) KSB (DMW) Standard motor supplied by Drive supplied by KSB - mounted by KSB Motor const. type V1 132S Motor size Efficiency class Efficiency class IE3 acc. to

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IEC60034-30-1 2964 rpm Motor speed Frequency 50 Hz Rated voltage 400 V Rated power P2 5.50 kW Performance limit P2max 6.30 kW Available reserve 97.39 % 10.0 A Rated current

Insulation class Motor enclosure Cos phi at 4/4 load Motor efficiency at 4/4 load Temperature sensor Terminal box position

Motor winding Number of poles Fixed bearing reinforced Connection mode Motor cooling method Motor material

Frequency inverter operation allowed

Motor noise pressure level

O-Ring (412) Seal cover (471) Bearing sleeve (529) Baseplate (890) Screwed plug (903)

Tie bolt (905) Nut (920)

2 axial Delta Surface cooling Aluminium FI allowed

Viewed from the drive

F to IEC 34-1

3 PTC resistors

IP55

0.89

89.2 %

90° (right)

400 / 690 V

68 dBa

Truck

Materials VS

Starting current ratio

Pump shroud (10-6) Pump casing (101) Stage casing (108) Cover (160) Diffuser (171) Shaft (210) Impeller (230) Motor stool (341)

Stainless steel 1.4408 CrNiMo steel 1.4404 CrNiMo steel 1.4404 CrNiMo steel 1.4404 Duplex steel 1.4460 CrNiMo steel 1.4404 Grey cast iron EN-GJL-250

CrNiMo steel 1.4404

Flange (723)

Fluor caoutchouc FPM Stainless steel 1.4408 Tungsten Carbide Stainless Steel 1.4308 Grey cast iron EN-GJL-250 CrNiMo steel 1.4404 Chrome steel 1.4057+QT800

CrNiMo steel 1.4404

Packaging

Packaging category A0 Packing acc. to KSB

choice

Indoor Packaging for storage

Nameplates

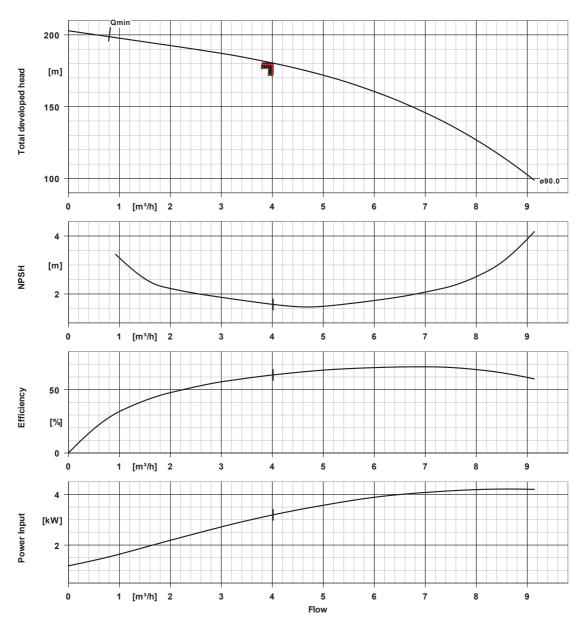
Nameplates language International Packaging for transport



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High pressure Inline Pump



Curve data

Speed of rotation Fluid density Viscosity	2964 rpm 998 kg/m³ 1.00 mm²/s	Efficiency MEI (Minimum Efficiency Index)	61.6 % ≥ 0.70
Flow rate	4.01 m³/h	Power absorbed	3.19 kW
Requested flow rate	4.00 m³/h	NPSHR	1.64 m
Total developed head	180.35 m	Curve number	K95000600/3
Requested developed head	179.32 m	Effective impeller diameter	90.0 mm
		Acceptance standard	Tolerances to ISO 9906
			Class 3B; below 10 kW

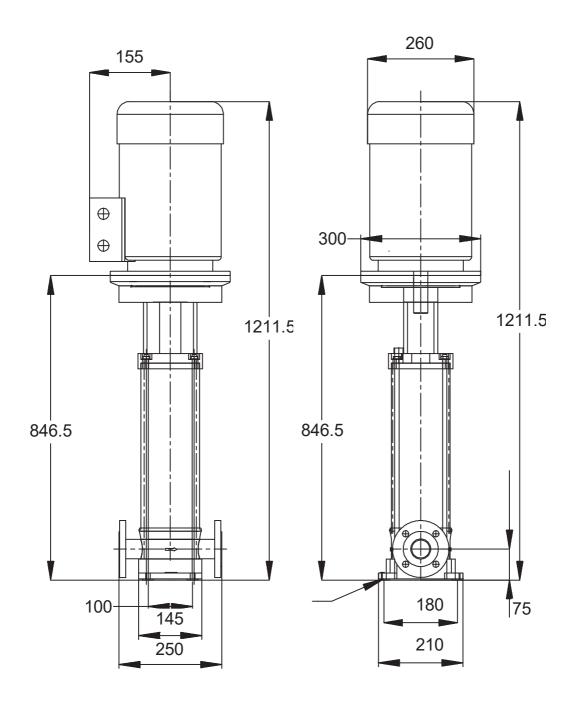
Class 3B; below 10 kW acc. to paragraph 4.4.2



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High pressure Inline Pump





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MovitecVSF006/20-B1P55ES132D5VW

High pressure Inline Pump

Drawing is not to scale Dimensions in mm

Motor

Motor manufacturer KSB (DMW)
Motor size 132S
Motor power 5.50 kW
Number of poles 2
Speed of rotation 2964 rpm
Position of terminal box 90° (right)

Viewed from the drive

Thrust bearing housing No

Connect pipes without stress or strain!

Connections

Suction nominal size DN1 Discharge nominal size DN2 DN 32 / EN 1092-1 DN 32 / EN 1092-1

Nominal pressure suct. PN 25 Rated pressure disch. PN 25

Round flange (F)

Weight net

Pump 50 kg Motor 49 kg Total 98 kg

For auxiliary connections see

separate drawing.

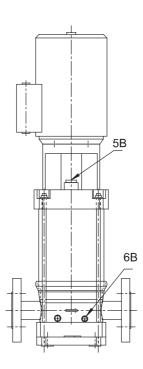
Connection plan



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Connections

5B venting 6B Pumped liquid drain G 3/8 G 1/4 Closed with venting plug Drilled and plugged.