

MovitecV 015/05-C4F53ES132B5VW

High pressure Inline Pump

Operating data

Requested flow rate		Actual flow rate	15.60 m ³ /h
Requested developed head		Actual developed head	64.91 m
Pumped medium	Water	Efficiency	68.4 %
	Clean water	MEI (Minimum Efficiency Index)	≥ 0.70
Pumped medium details	Not containing chemical and mechanical substances which affect the materials	Power absorbed	4.03 kW
Max. ambient air temperature	20.0 °C	Pump speed of rotation	2954 rpm
Min. ambient air temperature	20.0 °C	NPSH required	1.98 m
Fluid temperature	20.0 °C	Permissible operating pressure	16.00 bar.g
Fluid density	998 kg/m ³	Discharge press.	6.35 bar.g
Fluid viscosity	1.00 mm ² /s	Shutoff head	79.68 m
Suction pressure max.	0.00 bar.g	Min. allow. flow for continuous stable operation	1.98 m ³ /h
Mass flow rate	4.33 kg/s	Min. allow. mass flow for continuous stable operation	0.55 kg/s
Max. power on curve	4.68 kW	Design	Single system 1 x 100 % tolerances to ISO 9906 class 3B
Max. allow. mass flow	6.35 kg/s		

Design

Pump standard	KSB high pressure in-line international execution	Shaft seal manufacturer	DP
Design	Close-coupled	Shaft seal type	EMG-AC
Orientation	Vertical	Material code	BQ7EGG-Y10-DW001
Suction nominal dia.	G 2	Shaft seal code	53
Suction nominal pressure	PN 16	Sealing plan	I Single-acting mechanical seal(internal circulation)
Suction position	90° (right)	A liquid free of solids is assumed	
Connection standard	EN ISO 228-1	Seal chamber design	Standard seal chamber
discharge		Contact guard	With
Discharge nominal dia.	G 2	Impeller diameter	107.0 mm
Discharge nominal pressure	PN 16	Direction of rotation from drive	Clockwise
Discharge position	270° (left 90°)	Color	Graphite black (RAL 9011)
Oval flange			
Shaft seal	Single acting mechanical seal		

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Driver, accessories

Driver type	Electric motor	Insulation class	F to IEC 34-1
Drive standard mech.	IEC	Motor enclosure	IP55
Model (make)	KSB (DMC)	Cos phi at 4/4 load	0.89
Drive supplied by	Standard motor supplied by KSB - mounted by KSB	Motor efficiency at 4/4 load	89.2 %
Motor const. type	V1	Temperature sensor	3 PTC resistors
Motor size	132S	Terminal box position	90° (right)
Efficiency class	Efficiency class IE3 acc. to IEC60034-30-1	Motor winding	Viewed from the drive
Motor speed	2953 rpm	Number of poles	400 / 690 V
Frequency	50 Hz	Fixed bearing reinforced	2
Rated voltage	400 V	Connection mode	axial
Rated power P2	5.50 kW	Motor cooling method	Delta
Performance limit P2max	6.30 kW	Motor material	Surface cooling
Available reserve	56.48 %	Frequency inverter operation allowed	Aluminium
Rated current	10.0 A	Motor noise pressure level	FI allowed
Starting current ratio	8		68 dBA

Materials V

Pump shroud (10-6)	Stainless steel 1.4301	O-Ring (412)	EPDM WRc / ACS Approved
Pump casing (101)	Stainless Steel 1.4308	Seal cover (471)	Stainless Steel 1.4308
Stage casing (108)	Stainless steel 1.4301	Bearing sleeve (529)	Tungsten Carbide
Cover (160)	Stainless steel 1.4301	Flange (723)	Stainless Steel 1.4308
Diffuser (171)	Stainless steel 1.4301	Baseplate (890)	Grey cast iron EN-GJL-250
Shaft (210)	Chrome steel 1.4057+QT800	Screwed plug (903)	Stainless steel 1.4301
Impeller (230)	Stainless steel 1.4301	Tie bolt (905)	Chrome steel 1.4057+QT800
Motor stool (341)	Grey cast iron EN-GJL-250	Nut (920)	Stainless steel 1.4301

Packaging

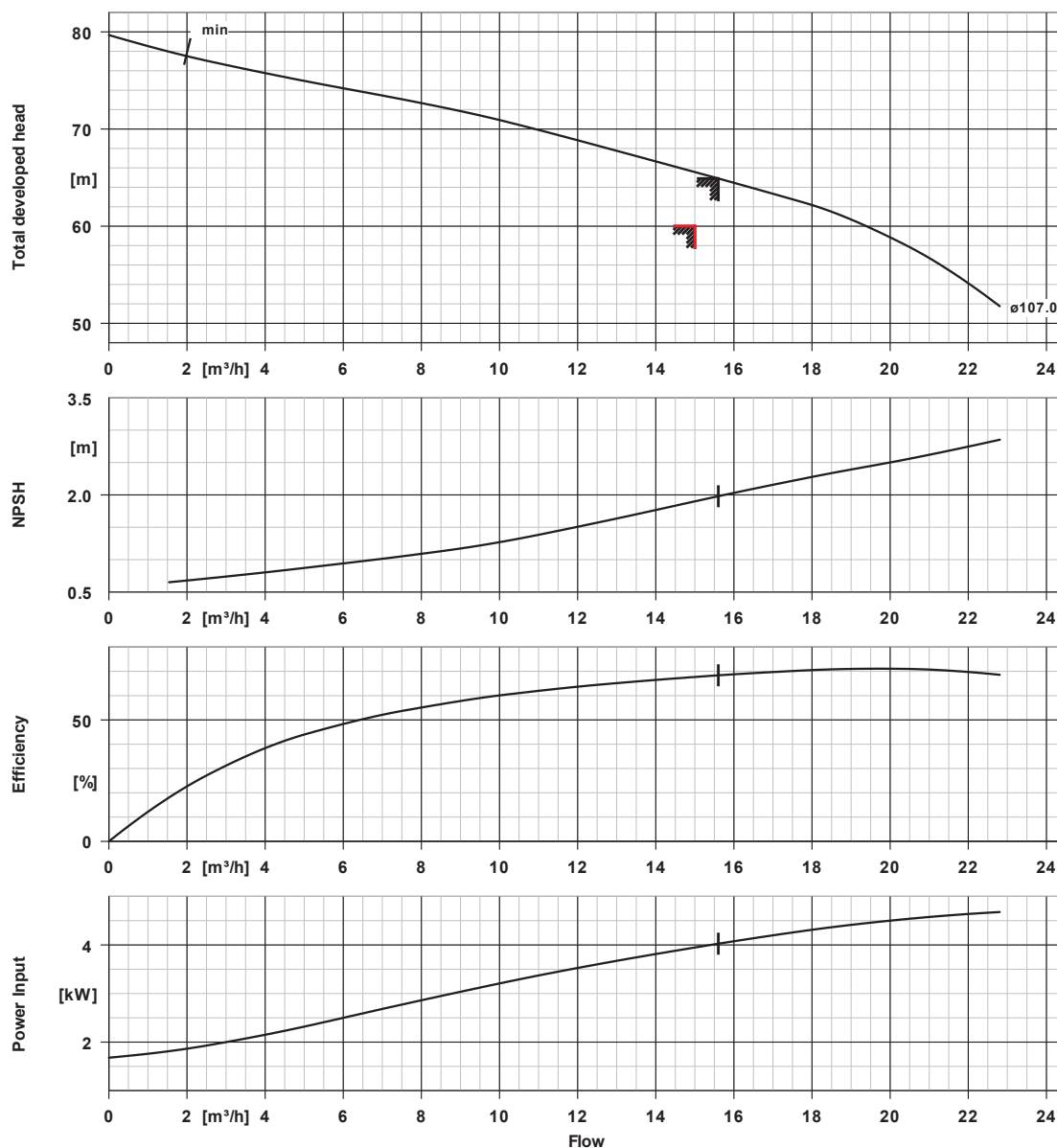
Packaging category	A0 Packing acc. to KSB choice	Packaging for transport	Truck
Packaging for storage	Indoor		

Nameplates

Nameplates language	International
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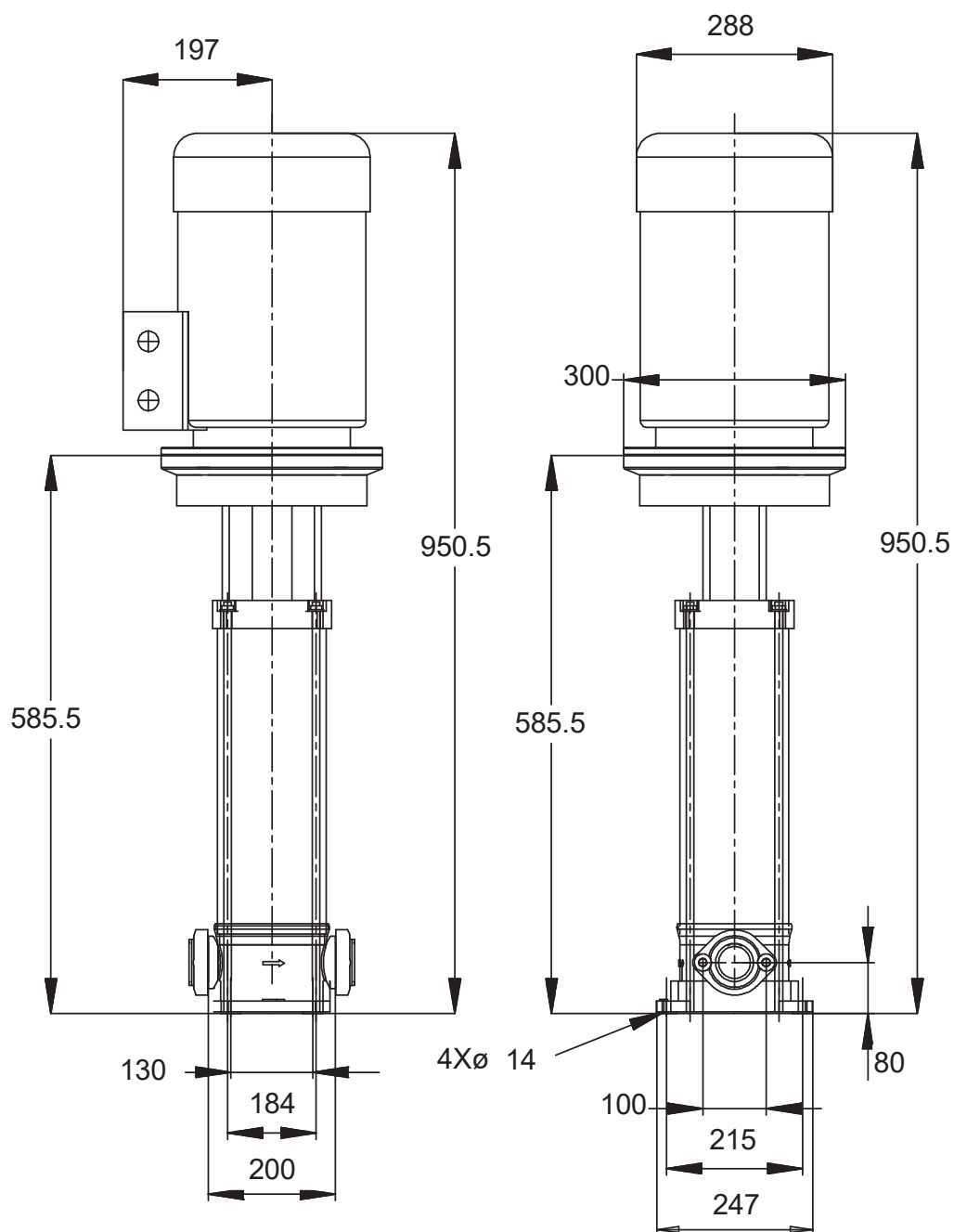


Curve data

Speed of rotation	2954 rpm	Efficiency	68.4 %
Fluid density	998 kg/m³	MEI (Minimum Efficiency Index)	≥ 0.70
Viscosity	1.00 mm²/s	Power absorbed	4.03 kW
Flow rate	15.60 m³/h	NPSHR	1.98 m
Requested flow rate	15.00 m³/h	Curve number	Mov15CTNG2900/0
Total developed head	64.91 m	Effective impeller diameter	107.0 mm
Requested developed head	60.00 m	Acceptance standard	tolerances to ISO 9906 class 3B

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Drawing is not to scale

Dimensions in mm

Motor

Motor manufacturer	KSB (DMC)
Motor size	132S
Motor power	5.50 kW
Number of poles	2
Speed of rotation	2953 rpm
Position of terminal box	90° (right)
	Viewed from the drive
Thrust bearing housing	No

Connections

Suction nominal size DN1	G 2 / EN ISO 228-1
Discharge nominal size DN2	G 2 / EN ISO 228-1
Nominal pressure suct.	PN 16
Rated pressure disch.	PN 16
Oval flange	

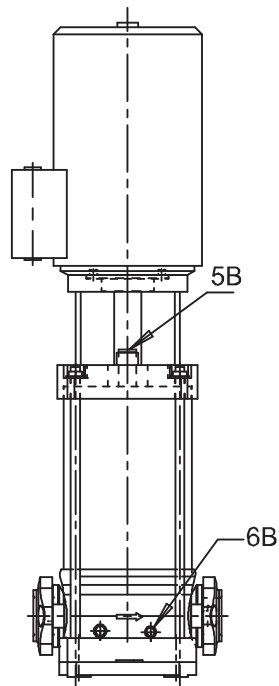
Weight net

Pump	43 kg
Motor	67 kg
Total	110 kg

Connect pipes without stress or strain!

**For auxiliary connections see
separate drawing.**

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Connections

5B venting
6B Pumped liquid drain

G 3/8

Closed with venting plug
Drilled and plugged.