

## 1SV22F011M/D

### Technical data

Company name  
Contact  
Phone number  
e-mail address

#### Operating data

Pump type	Single head pump	Fluid	Water, pure
Available system NPSH	m 0	Operating temperature t A	°C 4
Nominal flow	m <sup>3</sup> /h 1.8	pH-value at t A	7
Nominal head	m 100	Density at t A	kg/m <sup>3</sup> 1000
Static head	m 0	Kin. viscosity at t A	mm <sup>2</sup> /s 1.569
Inlet pressure	kPa 0	Vapor pressure at t A	kPa 100
Environmental temperature	°C 20	Solids	0
		Altitude	m 0

#### Pump data

Make	Lowara	Nominal	m <sup>3</sup> /h 1.8 ( 1.8 )
Speed	rpm 2900	Flow	Max- m <sup>3</sup> /h 2.4
Number of stages	22	Min-	m <sup>3</sup> /h
Max. casing pressure	kPa	Nominal	m 103
Max. working pressure	kPa 1319.9	Head	at Qmax m 63.5
Head H(Q=0)	m 130	at Qmin	m 134.6
Weight	kg 28	Shaft power	kW 1.1 ( 1.1 )
	Max. mm 73	Max. shaft power	kW 1.1
Impeller R	designed mm 73	Efficiency	% 48.71
	Min. mm 73	NPSH 3%	m 1.6

#### Pump Materials

Pump body	Stainless steel / AISI 304
Impeller	Stainless steel / AISI 304
Diffuser	Stainless steel / AISI 304
Outer sleeve	Stainless steel / AISI 304
Shaft	Stainless steel / AISI 304
Adapter	Cast iron
Base	Aluminium
Coupling	Aluminium
SEAL HOUSING	Stainless steel / AISI 304
Coupling protection	Stainless steel / AISI 304
Shaft sleeve and bushing	Tungsten carbide
Fill / drain plugs	Stainless steel / AISI 304
Tie rods	Galvanized steel
Wear ring	Technopolymer PPS

#### Shaft Seal

e-SV Mechanical seal	Roten
e-SV - Uniten (-30 / +120 °C)	
1 - Rotating part	Silicon Carbide
2 - Stationary part	Resin impregnated carbon
3 - Elastomers	EPDM
4 - Springs	AISI 316
5 - Other components	AISI 316

#### Motor data

Manufacturer	Lowara	Electric voltage	221 V	Speed	2860 rpm	Insulation class	F
Specific design	IE2 1ph Flange Motor			Frame size	80	Colour	RAL 5010
Type	SM 80 B14 1,1 kW						
Rated power	1.1 kW	Degree of protection	IP55				
Electric current	6.26 A						

#### Remarks:

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## Performance curve

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### Hydraulic data

Operating Data Specification		Hydraulic data (duty point)		Impeller design	
Flow	1.8 m <sup>3</sup> /h	Flow	1.83 m <sup>3</sup> /h	Impeller R	73 mm
Head	100 m	Head	103 m	Frequency	50 Hz
Static head	0 m	MEI	>=0,7	Speed	2900 rpm

**Power datas referred to:**

Water, pure [100%] ; 4°C; 1000kg/m<sup>3</sup>; 1.57mm<sup>2</sup>/s  
Performance according to ISO 9906:2012 – Grade 3B



