

Customer	Date	12/10/2020
Contact	Project	
Phone number	Project no.	
Email		

## 10SV03N011T

### 1016LD174

#### Operating data

Pump type	Single head pump	Fluid	Water, pure
No. of pumps / Reserve	1 / 0	Operating temperature t A	°C 4
Nominal flow	l/s 0	pH-value at t A	7
Nominal head	m 0	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
Available system NPSH	m 0	Altitude	m 0

#### Pump data

Make	Lowara	Nominal	l/s ( )
Speed	rpm 2900	Flow	Max- l/s 3.9
Number of stages	3	Min-	l/s
Max. casing pressure	kPa	Nominal	m
Max. working pressure	kPa 350.6	Head	at Qmax m 15.9
Head H(Q=0)	m 36	at Qmin	m 35.7
Weight	kg 28	Shaft power	kW ( )
Impeller R	Max. mm 96	Max. shaft power	kW 1.1
	designed mm 96	Efficiency	%
	Min. mm 96	NPSH 3%	m

#### Pump Materials

Pump body	Stainless steel / AISI 316L
Impeller	Stainless steel / AISI 316L
Diffuser	Stainless steel / AISI 316L
Outer sleeve	Stainless steel / AISI 316L
Shaft	Stainless steel / AISI 316
Adapter	Cast iron
Base	Aluminium
Coupling	Aluminium
SEAL HOUSING	Stainless steel / AISI 316L
Coupling protection	Stainless steel / AISI 304
Shaft sleeve and bushing	Tungsten carbide
Fill / drain plugs	Stainless steel / AISI 316
Tie rods	Stainless steel / AISI 431
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	400 V	Speed	2900 rpm	Insulation class	155 (F)
Specific design	IE3 Three phase surface motor (e-SV)	Frame size	80	Colour			RAL 5010
Type	SM80B14/311 PE (220-240/380-415V)						
Rated power	1.1 kW	Degree of protection	IP55				
Electric current	2.39 A						

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**Hydraulic data**

Operating Data Specification		Hydraulic data (duty point)		Impeller design	
Flow	0 l/s	Flow		Impeller R	96 mm
Head	0 m	Head		Frequency	50 Hz
Static head	0 m	MEI >=0,7		Speed	2900 rpm

**Power datas refered to:**  
Water, pure [100%] ; 4°C; 1000kg/m³; 1.57mm²/s  
Performance according to ISO 9906:2012 – Grade 3B



