

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

## 10SV21N110T

### 1016LD354

#### 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	21		Min- l/s
Max. casing pressure	kPa	Nominal	m
Max. working pressure	kPa 2487.7	Head	at Qmax m 127.1
Head H(Q=0)	m 250		at Qmin m 253.6
Weight	kg 113	Shaft power	kW ( )
	Max. mm 96	Max. shaft power	kW 8
Impeller R	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	2930 rpm	Insulation class	155 (F)
Specific design	IE3 Three phase surface motor (e-SV)	Frame size	160R	Colour			RAL 5010
Type	PLM160RB5/3110 E3 (220-240/380-415V)						
Rated power	11 kW	Degree of protection	IP55				
Electric current	20.2 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 $\geq 0,7$		Speed	2900 rpm

Power data 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



