

Customer	Date	1/14/2019
Contact	Project	
Phone number	Project no.	
Email		

1SV34F022T

Operating data

Pump type	Single head pump	Fluid	Water
No. of pumps / Reserve	1 / 0	Operating temperature t A	°C 4
Nominal flow	m ³ /h 0	pH-value at t A	7
Nominal head	m 0	Density at t A	kg/m ³ 1000
Static head	m 0	Kin. viscosity at t A	mm ² /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	m ³ /h ()
Speed	rpm 2900	Flow	Max- m ³ /h 2.4
Number of stages	34		Min- m ³ /h
Max. casing pressure	kPa		Nominal m
Max. working pressure	kPa 2052	Head	at Qmax m 101.2
Head H(Q=0)	m 210		at Qmin m 209.2
Weight	kg 39	Shaft power	kW ()
	Max. mm 73	Max. shaft power	kW 1.7
Impeller R	designed mm 73	Efficiency	%
	Min. mm 73	NPSH 3%	m

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	380 V	Speed	2900 rpm	Insulation class	155 (F)
Specific design	IE3 Three phase surface motor (e-SV)			Frame size	90	Colour	RAL 5010
Type	PLM90B14/322 E3 (380-415/660-690V)						
Rated power	2.2 kW	Degree of protection	IP55				
Electric current	4.57 A						

Remarks:

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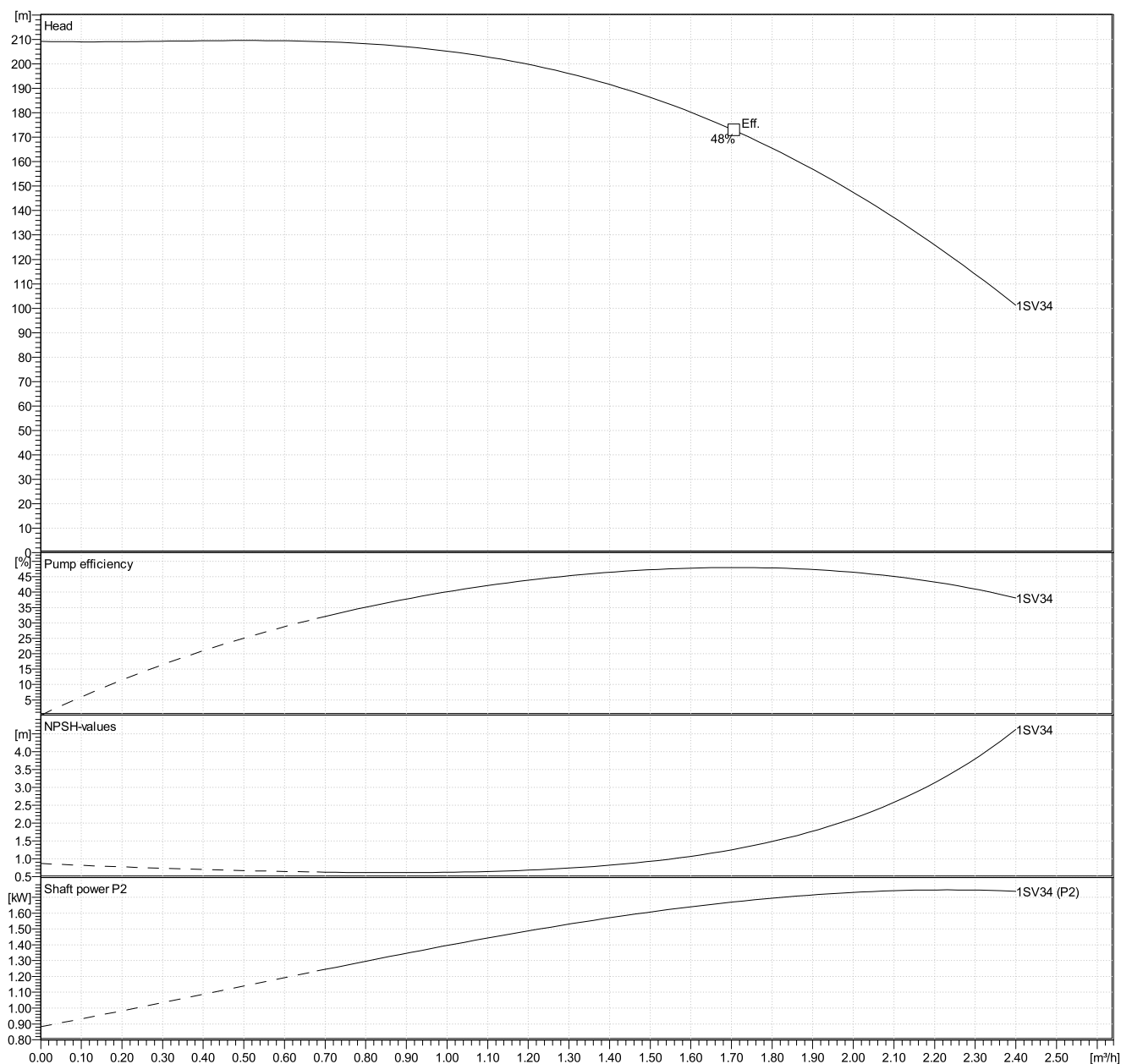
Hydraulic data

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

Power data referred to:

Water [100%] ; 4°C; 1000kg/m³; 1.57mm²/s

Performance according to ISO 9906:2012 – Grade 3B



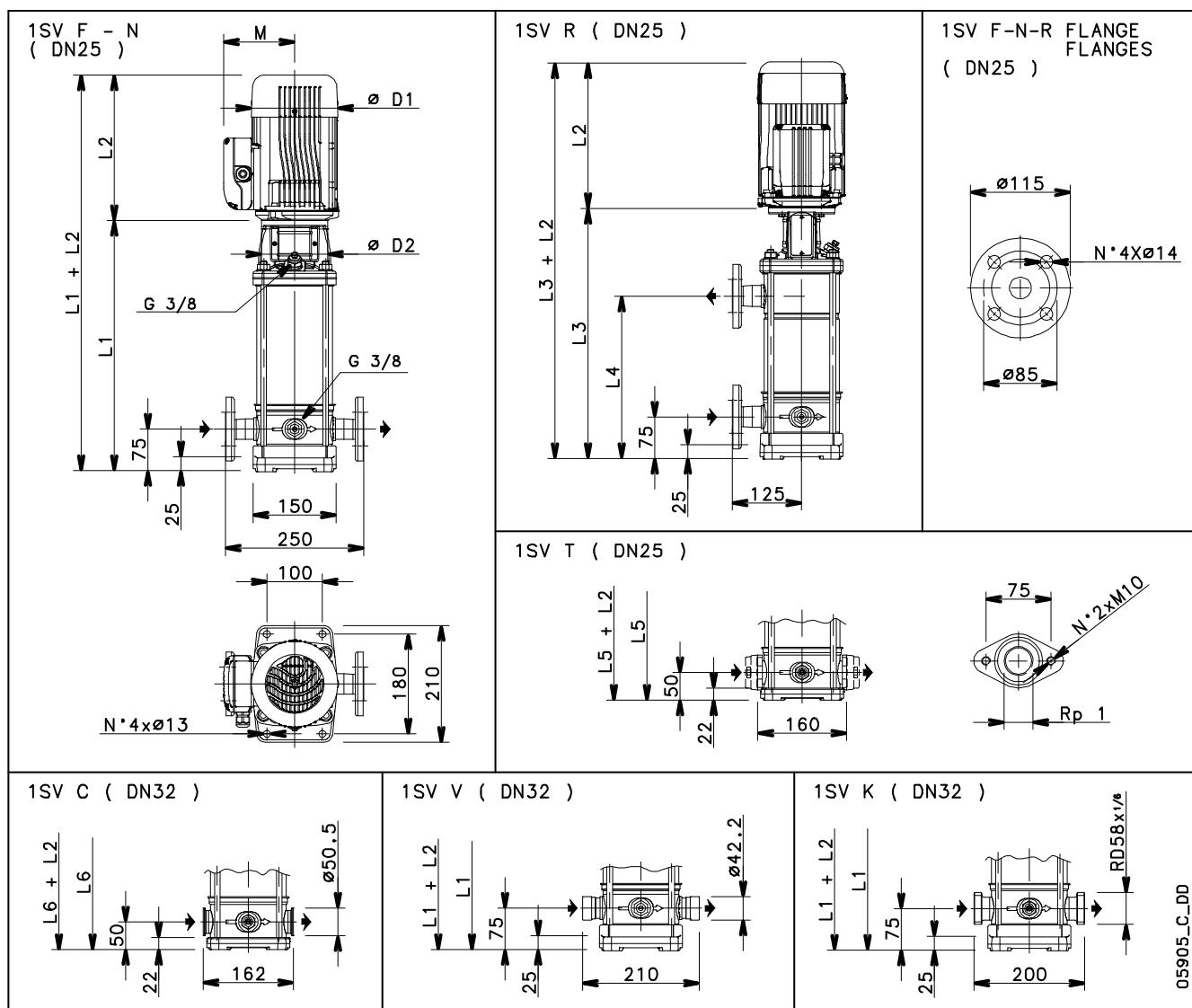
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Drawing



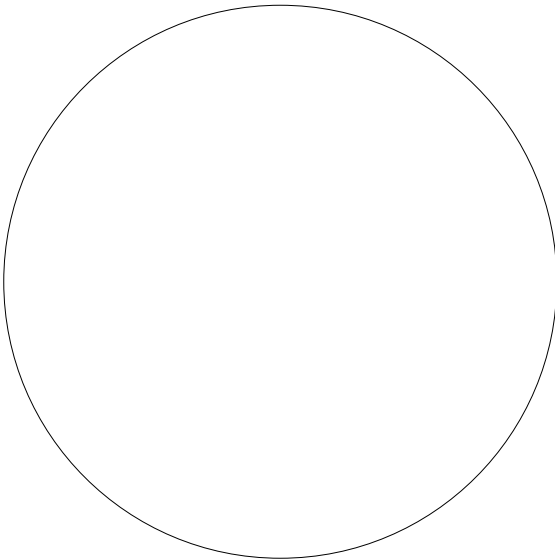
Dimensions mm

D1	174					Weight
D2	140					38.6 kg
L1	918					
L2	298					
L3	918					
L4	747					
L6	893					
M	134					

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Total lifetime	15	Inflation rate (rate of price increases)	2 %
Annual operating time	5600	Interest rate (for investment)	3 %
Energy cost per kWh	0.00 GBP		
Power input P1			

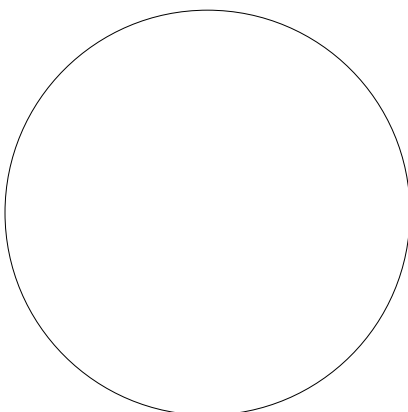
Total costs



GBP

0%	0.00 GBP	Energy
0%	0.00 GBP	Investment costs
0%	0.00 GBP	Installation & commissioning
0%	0.00 GBP	Operating cost
0%	0.00 GBP	Maintenance & repair
0%	0.00 GBP	Downtime
0%	0.00 GBP	Environmental
0%	0.00 GBP	Decommissioning

First year costs



GBP

0%	0.00 GBP	Energy (1st year)
0%	0.00 GBP	Investment costs (1st year)
0%	0.00 GBP	Installation & commissioning (1st year)
0%	0.00 GBP	Operating cost (1st year)
0%	0.00 GBP	Maintenance & repair (1st year)
0%	0.00 GBP	Downtime (1st year)
0%	0.00 GBP	Environmental (1st year)
0%	0.00 GBP	Decommissioning (1st year)