

Customer	Date	1/10/2019
Contact	Project	
Phone number	Project no.	
Email		

15SV05F040T

Operating data

Pumpe type	Single head pump	Fluid	Water
No. of pumps / Reserve	1 / 0	Operating temperature t A	°C 4
Nominal flow	m³/h 0	pH-value at t A	7
Nominal head	m 0	Density at t A	kg/m³ 1000
Static head	m 0	Kin. viscosity at t A	mm²/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	m³/h ()
Speed	rpm 2900	Flow	m³/h 24
Number of stages	5	Max-	m³/h
Max. casing pressure	kPa	Min-	m
Max. working pressure	kPa 713.3	Head	at Qmax m 34.9
Head H(Q=0)	m 73	at Qmin	m 72.7
Weight	kg 48	Shaft power	kW ()
Max.	mm 105	Max. shaft power	kW 3.7
Impeller R	designed mm 105	Efficiency	%
Min.	mm 105	NPSH	3% m

Pump Materials

		Shaft Seal	
Pump body	Stainless steel / AISI 304	e-SV Mechanical seal	Roten
IMPELLER	Stainless steel / AISI 304	e-SV - Uniten (-30 / +120 °C)	
DIFFUSER	Stainless steel / AISI 304	1 - Rotating part	Silicon Carbide
Outer sleeve	Stainless steel / AISI 304	2 - Stationary part	Resin impregnated carbon
SHAFT	Stainless steel / AISI 304	3 - Elastomers	EPDM
ADAPTER	Cast iron	4 - Springs	AISI 316
Base	Aluminium	5 - Other components	AISI 316
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		

Motor data

Manufacturer	Lowara	Electric voltage	380 V	Speed	2910 rpm	Insulation class	155 (F)
Specific design	IE3 Three phase surface motor (e-SV)			Frame size	112R	Colour	RAL 5010
Type	PLM112RB14S6/340 E3 (380-415/660-690V)						
Rated power	4 kW	Degree of protection	IP55				
Electric current	7.8 A						

Remarks:

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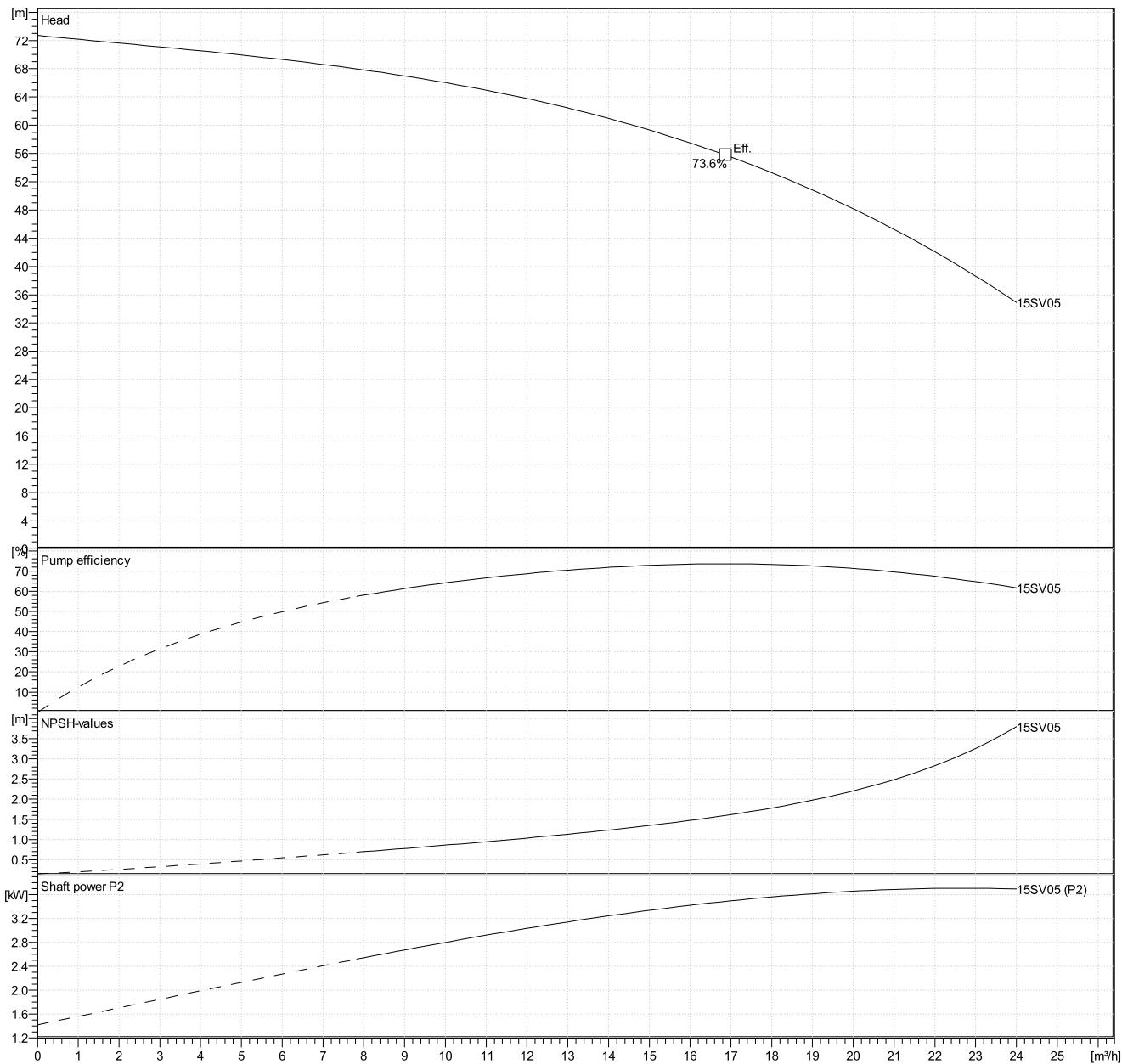
Hydraulic data

Operating Data Specification	Hydraulic data (duty point)	Impeller design
Flow 0 m ³ /h	Flow	Impeller R 105 mm
Head 0 m	Head	Frequency 50 Hz
Static head 0 m	MEI >=0,7	Speed 2900 rpm

Power data referenced to:

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

Performance according to ISO 9906:2012 – Grade 3B

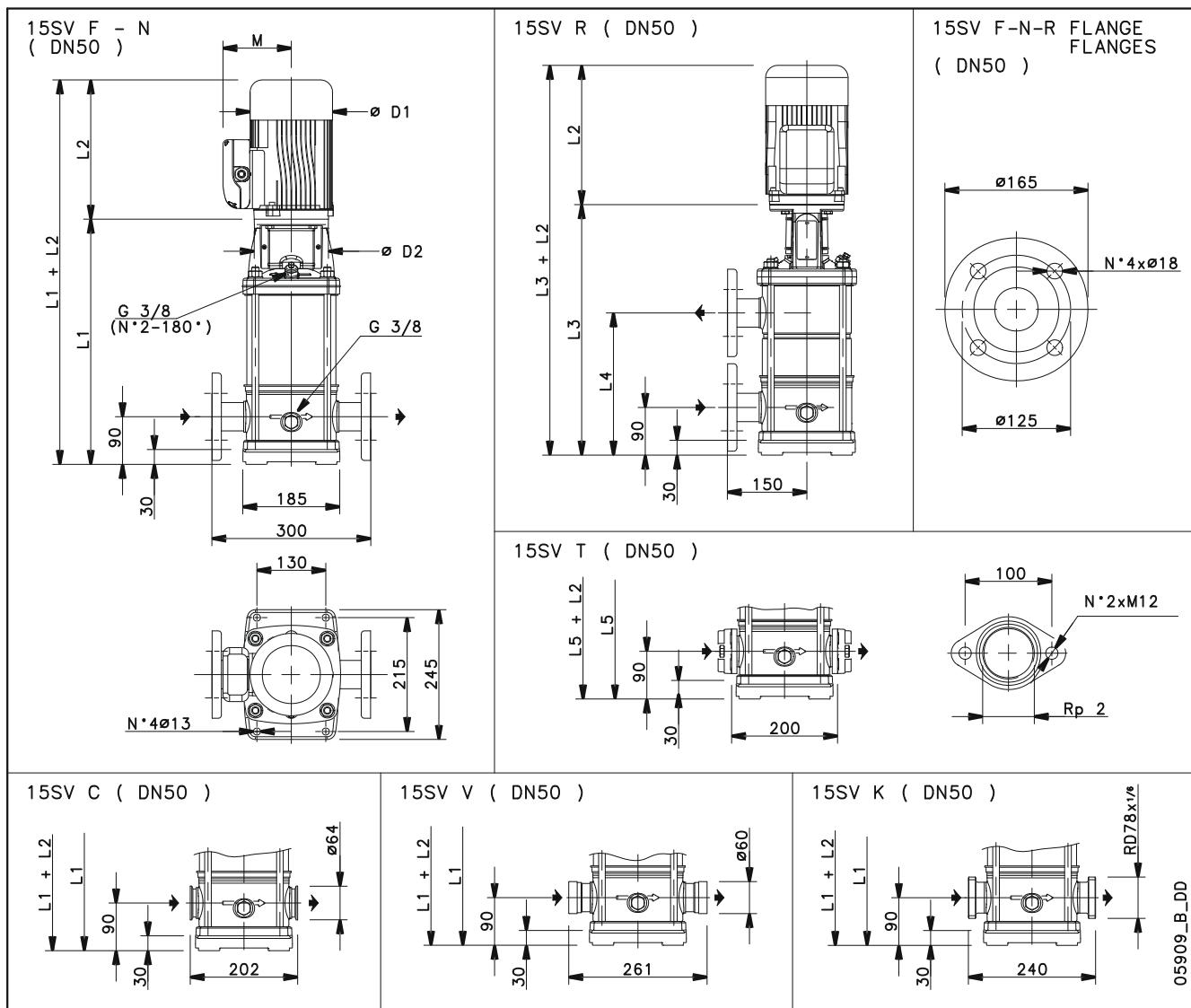


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Drawing

Dimensional Data

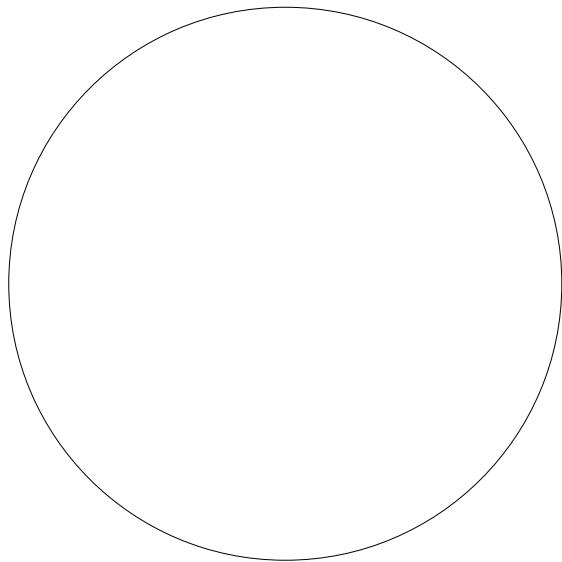


Dimensions mm

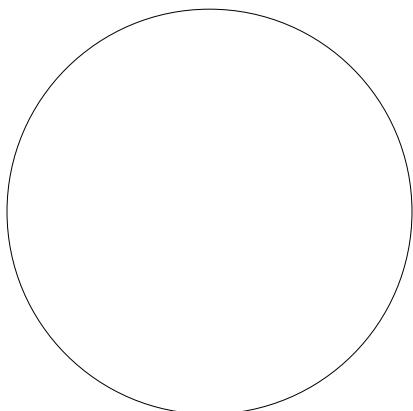
D1	197					Weight
D2	160					47.9 kg
L1	563					
L2	319					
L3	563					
L4	349					
L5	563					
M	154					

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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


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

GBP
First year costs


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)

GBP