

Customer	Date	2/22/2018
Contact	Project	
Phone number	Project no.	
Email		

## 5HM03S05M5HVBE

104605761

### Operating data

Pump type	Single head pump	Fluid	Water
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	bar 0.098	Vapor pressure at t A	bar 1
Environmental temperature	°C 20	Solids	0
Available system NPSH	m 0	Altitude	m 0

### Pump data

Make	Lowara	Nominal	l/s ( )
Speed	1/min 2900	Flow	Max- l/s 2.4
Number of stages	3		Min- l/s
Max. casing pressure	bar		Nominal m
Max. working pressure	bar 2.2	Head	at Qmax m 8.3
Head H(Q=0)	m 22		at Qmin m 22.1
Weight	kg 7	Shaft power	kW ( )
	Max. mm 73	Max. shaft power	kW .4
Impeller R	designed mm 73	Efficiency	%
	Min. mm 73	NPSH 3%	m

### Pump Materials

ADAPTER	Aluminium
Bolts and screws	Stainless steel
DIFFUSER	Stainless steel
Fill / drain plugs	Stainless steel
IMPELLER	Stainless steel 304
Pump body	Stainless steel
SHAFT	Stainless steel
WEAR RING	Technopolymer

### Shaft Seal

Mechanical Seal	Roten
HM - uniten	
Rotating Assembly	V-Ceramic
Fixed Assembly	B-Resin impregnated carbon
Elastomers	E - EPDM
Springs	G-AISI 316
Other Components	G-AISI 316

SEAL HOUSING	Stainless steel
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### Motor data

Manufacturer	Lowara	Electric voltage	230 V	Speed	2705 1/min	Insulation class	F
Specific design	Single phase motor - e-HM			Frame size	56	Colour	RAL 5010
Type	SM63HM../1055	Electric current	3.46 A	Weight	0 kg		
Rated power	0.5 kW	Degree of protection	IP 55				

### Remarks:

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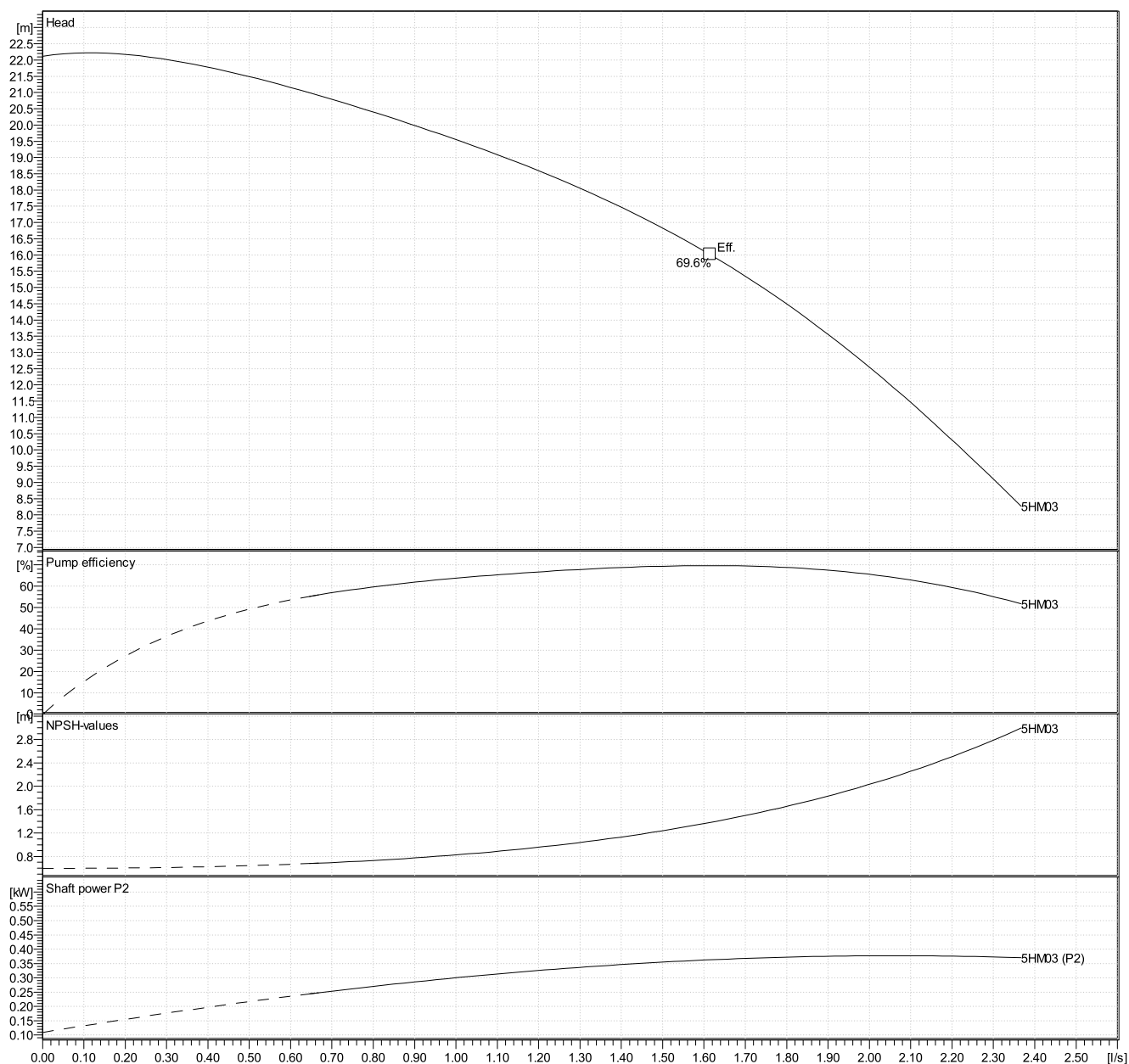
### Hydraulic Data

Operating Data Specification		Hydraulic data (duty point)	Impeller design	
Flow	0 l/s	Flow	Impeller R	73 mm
Head	0 m	Head	Frequency	50 Hz
Static head	0 m		Speed	2900 1/min

#### Power datas referred to:

Water [100%] ; 4°C; 1000kg/m<sup>3</sup>; 1.57mm<sup>2</sup>/s

Performance according to ISO 9906:2012 – Grade 3B

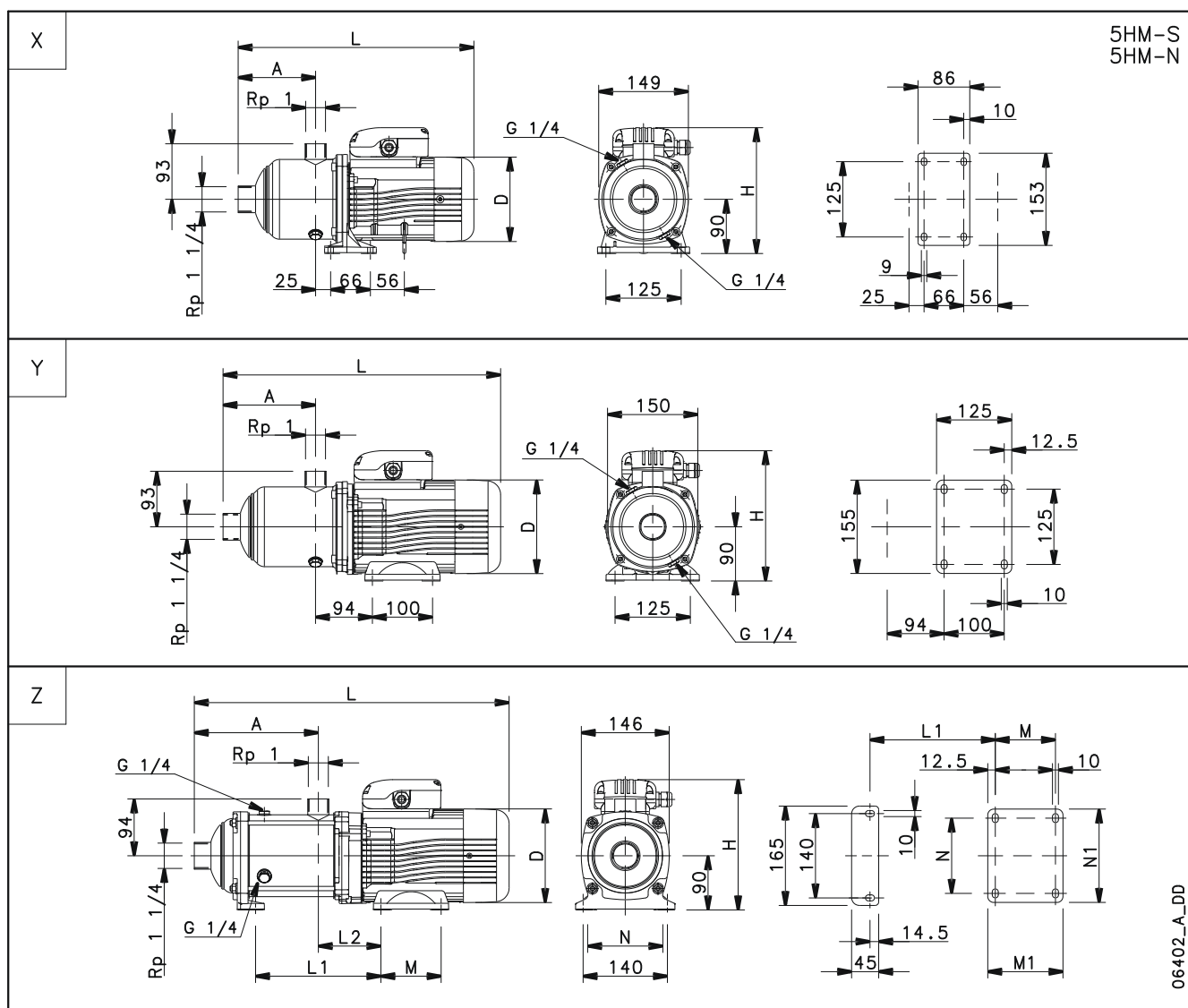


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### Drawing



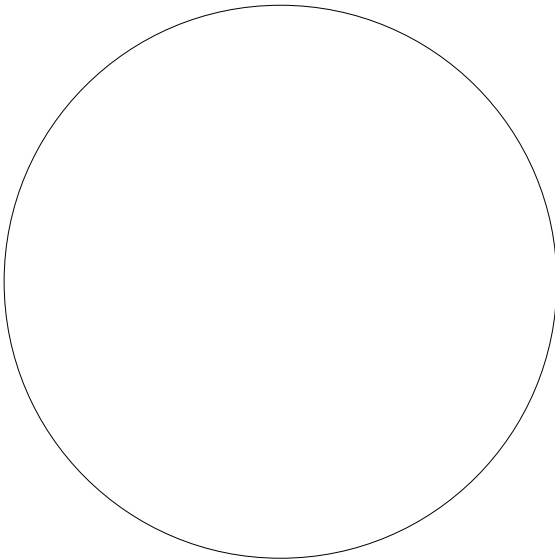
### Dimensions mm

A	104						Weight
D	120						7 kg
Drawing	X						
H	201						
L	353						
PN	10						

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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			

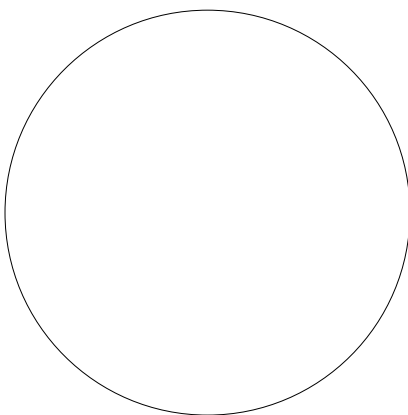
### Total costs



**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)