

Customer	Date	2/23/2018
Contact	Project	
Phone number	Project no.	
Email		

3HM19S22T5RQBE

104604471

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 4.4
Number of stages	19		Min- m ³ /h
Max. casing pressure	kPa		Nominal m
Max. working pressure	kPa 1414.8	Head	at Qmax m 65.7
Head H(Q=0)	m 140		at Qmin m 144.2
Weight	kg 25	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

ADAPTER	Aluminium
Diffuser and upper spacer	Stainless steel
Fill / drain plugs	Stainless steel
Head	Stainless steel
IMPELLER	Stainless steel 304
Outer sleeve	Stainless steel
SEAL HOUSING	Stainless steel
SHAFT	Stainless steel
Shaft sleeve and bushing	Tungsten carbide
Tie rods	Stainless steel
WEAR RING	Technopolymer
Ring with foot	Aluminium

Shaft Seal

Mechanical Seal	Burgmann
HM - MG1S2	
Rotating Assembly	Q1-Silicon carbide
Fixed Assembly	B-Carbon
Elastomers	E-EPDM
Springs	G-AISI 316
Other Components	G-AISI 316

Motor data

Manufacturer	Lowara	Electric voltage	400 V	Speed	2900 rpm	Insulation class	F
Specific design	IE3 Three phase surface motor - e-HM			Frame size	56	Colour	RAL 5010
Type	PLM90HM../322 E3	Electric current	4.56 A	Weight	0 kg		
Rated power	2.2 kW	Degree of protection	IP 55				

Remarks:

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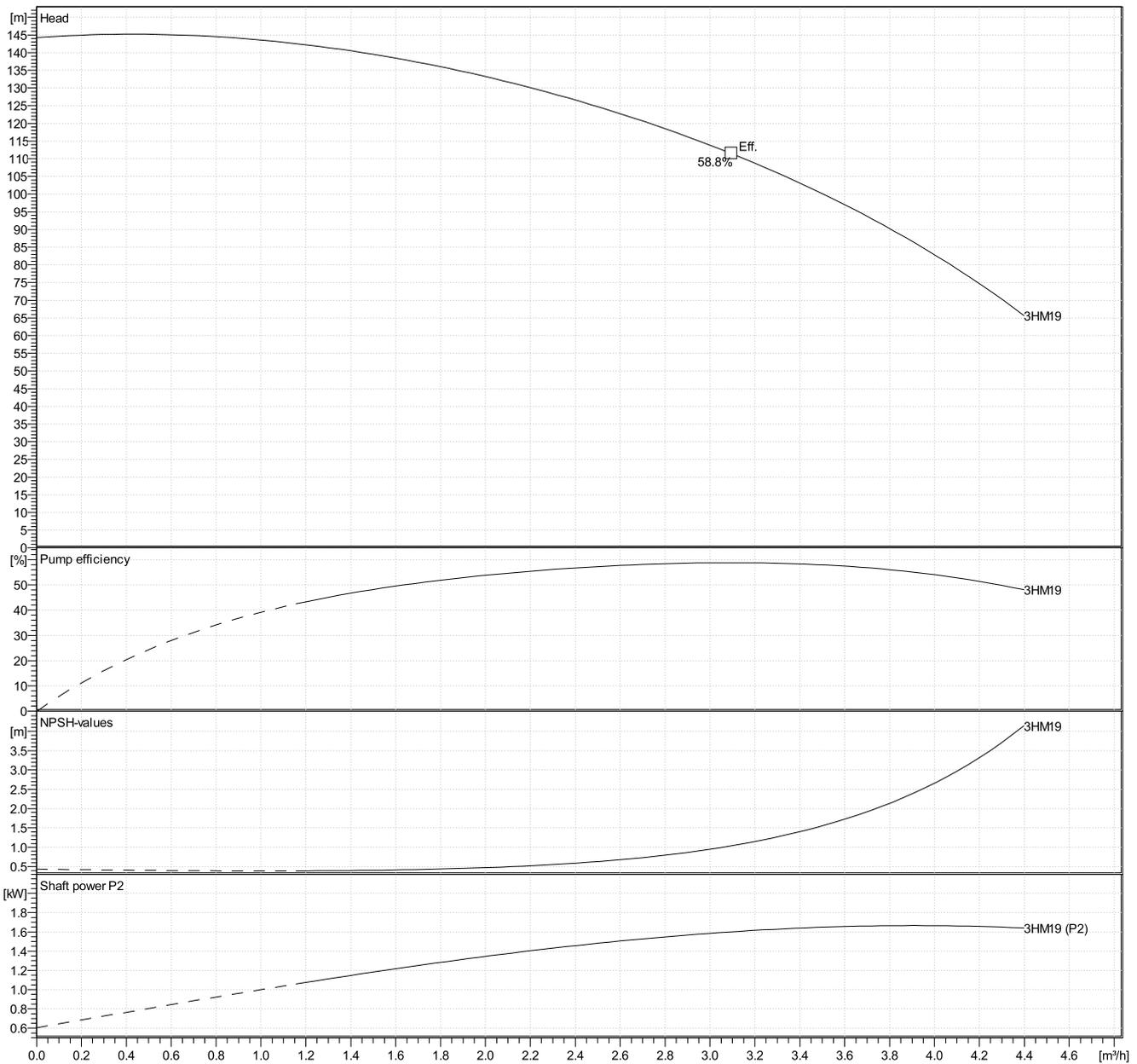
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Hydraulic Data

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			Speed	2900 rpm

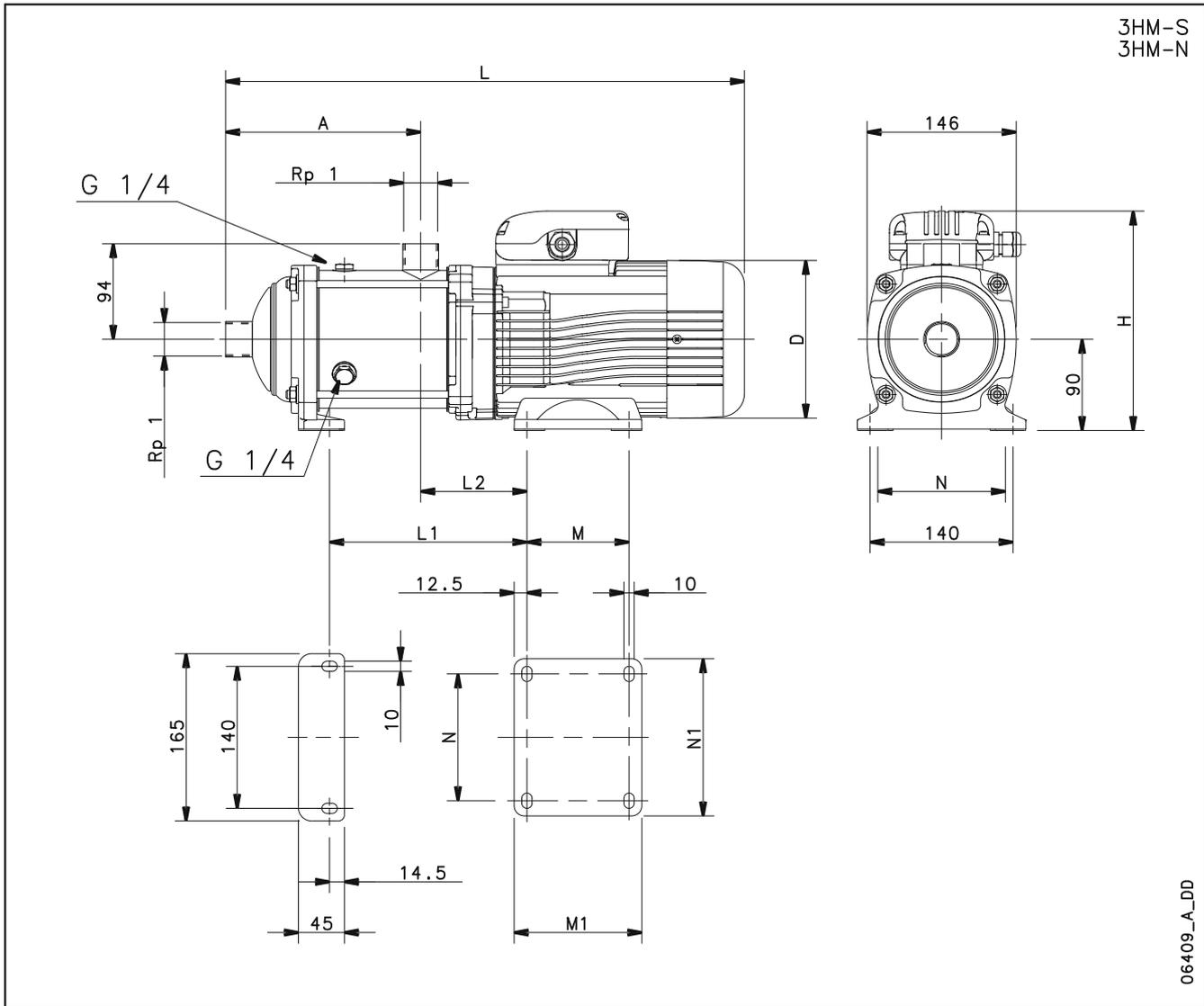
Power data referred to:
 Water [100%] ; 4°C; 1000kg/m³; 1.57mm²/s
 Performance according to ISO 9906:2012 – Grade 3B



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Drawing



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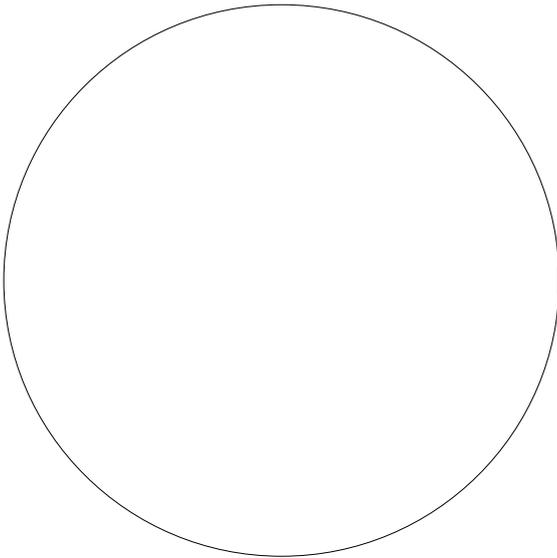
Dimensions mm

A	391	N1	164			Weight 25 kg
D	174	PN	16			
H	224					
L	764					
L1	416					
L2	127					
M	125					
M1	150					
N	140					

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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			

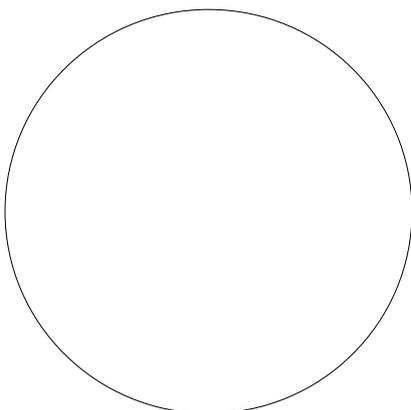
Total costs



- 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