

Customer	Date	12/8/2020
Contact	Project	
Phone number	Project no.	
Email		

ESHE 80-250/110/P45VSNA

101863760

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 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	l/s ()
Speed	rpm 1450	Flow Max-	l/s 40
Number of stages	1	Min-	l/s 12.5
Max. casing pressure	kPa	Nominal	m
Max. working pressure	kPa 261.4	Head at Qmax	m 14.8
Head H(Q=0)	m 27	at Qmin	m 26.1
Weight	kg	Shaft power	kW ()
Impeller R	Max. mm 270	Max. shaft power	kW 9
	designed mm 270	Efficiency	%
	Min. mm 237	NPSH 3%	m
Suction nozzle	DN 100 PN 12 EN1092-2 (e-SH)	Discharge nozzle	DN 80 PN 12 EN1092-2 (e-SH)

Pump Materials

Pump body	Stainless steel / AISI 316L
Impeller	Stainless steel / ASTM CF8M
SEAL HOUSING	Stainless steel / AISI 316L
Wear Ring	Stainless steel / AISI 316L
Counterwear ring	Stainless steel / AISI 316L
Shaft extension	Stainless steel / AISI 316L
Rigid shaft coupling	Stainless steel / AISI 316
Impeller locknut and washer	Stainless steel / AISI 316
Tab	Stainless steel / AISI 316L

Shaft Seal

Single Seal	
e-SH - uniten	Roten
Rotating Assembly	V-Ceramic
Fixed Assembly	B-Resin impregnated carbon
Elastomers	V-FKM (FPM)
Springs	G-AISI 316
Other Components	G-AISI 316

Motor data

Manufacturer	Lowara	Electric voltage	400 V
Specific design	IE3 Three phase surface motor		
Type	PLM4160.../3110 E3		
Rated power	11 kW	Electric current	21.4 A
Speed	1465 rpm	Degree of protection	IP 55
Frame size	160	Weight	125 kg
Shaft diameter	0 mm	Colour	RAL 5010
Insulation class	F		

Coupling

Manufacturer	
Series	
Type	
Frame size	
Spacer length	
Weight	
Coupling protection	

Base plate

Description	
Weight	

Remarks:

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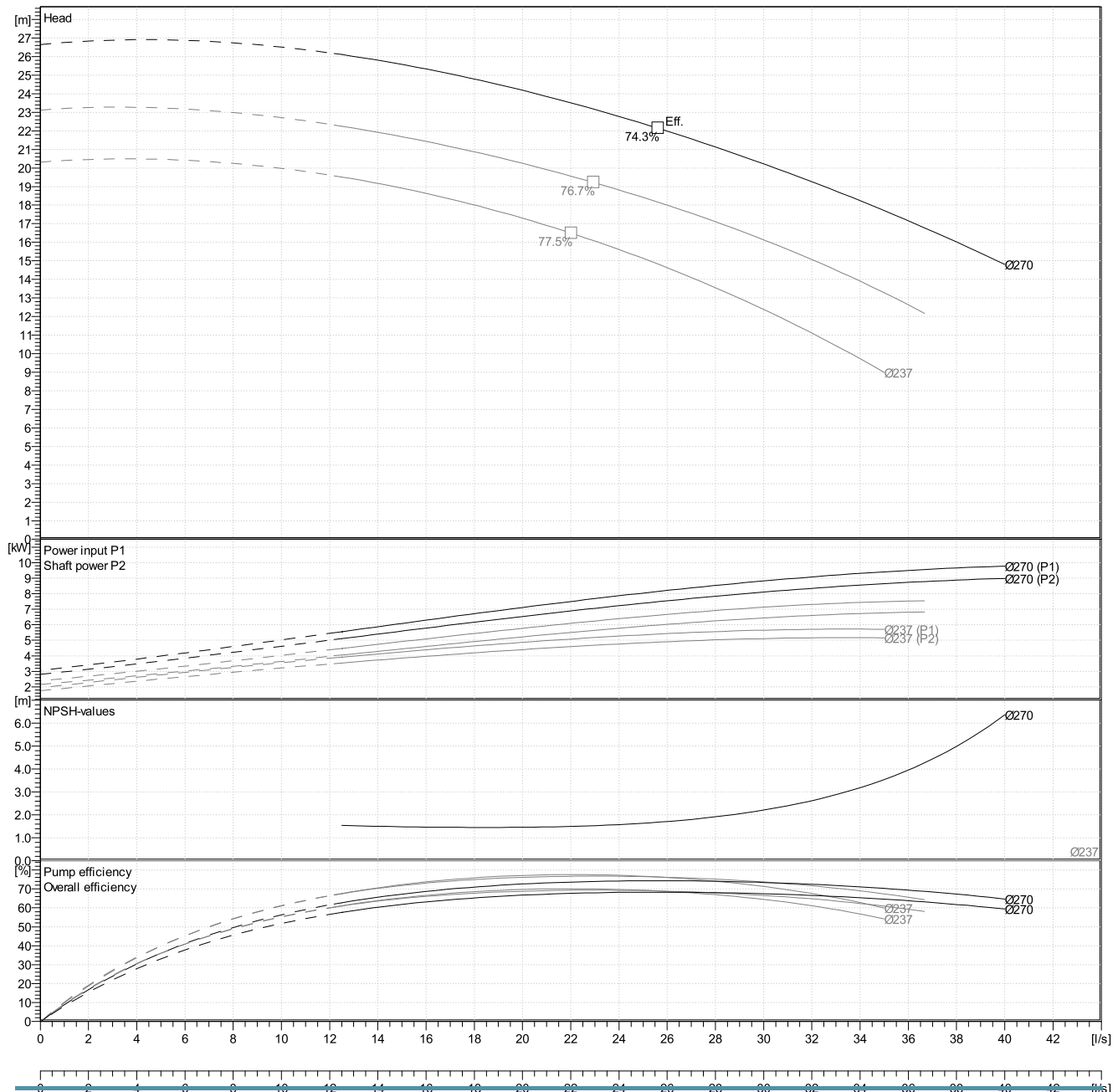
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Hydraulic data

Operating Data Specification		Hydraulic data (duty point)		Impeller design	
Flow	0 l/s	Flow		Impeller R	270 mm
Head	0 m	Head		Frequency	50 Hz
Static head	0 m	MEI >=0,4		Speed	1450 rpm

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



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Dimensions mm/l

a	125		
B	383		
b	49		
c	5		
DNA	100		
DNM	80		
h1	200		
h2	280		
Hmax	480		
k	160		
L	719		
m	304		
m1	210		
n	304		
n1	254		
s	15		
w	208		
x	240		
Total weight		145 kg	

Connections mm

Suction nozzle	Discharge nozzle
DN 100	DN 80
PN 12	PN 12
EN1092-2 (e-SH)	EN1092-2 (e-SH)

D	225	D	200
Dia. Holes	18	Dia. Holes	18
DN	100	DN	80
G	142	G	114
M	180	M	160
Max thickness	20	Max thickness	20
N° Holes	8	N° Holes	8

Drawing

