

Customer	Date	12/9/2020
Contact	Project	
Phone number	Project no.	
Email		

ESHE 50-250/185/P25VSSA

101860510

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 2900	Flow Max-	l/s 23.1
Number of stages	1	Min-	l/s 10
Max. casing pressure	kPa	Nominal	m
Max. working pressure	kPa 784	Head at Qmax	m 50.8
Head H(Q=0)	m 80	at Qmin	m 74.9
Weight	kg	Shaft power	kW ()
Max. Impeller R	mm 250	Max. shaft power	kW 18.1
designed	mm 237	Efficiency	%
Min.	mm 224	NPSH 3%	m
Suction nozzle	DN 65 PN 12 EN1092-2 (e-SH)	Discharge nozzle	DN 50 PN 12 EN1092-2 (e-SH)

Pump Materials

Pump body	Stainless steel / AISI 316L
Impeller	Stainless steel / AISI 316L
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	PLM160.../3185 E3		
Rated power	18.5 kW	Electric current	33 A
Speed	2950 rpm	Degree of protection	IP 55
Frame size	160	Weight	117 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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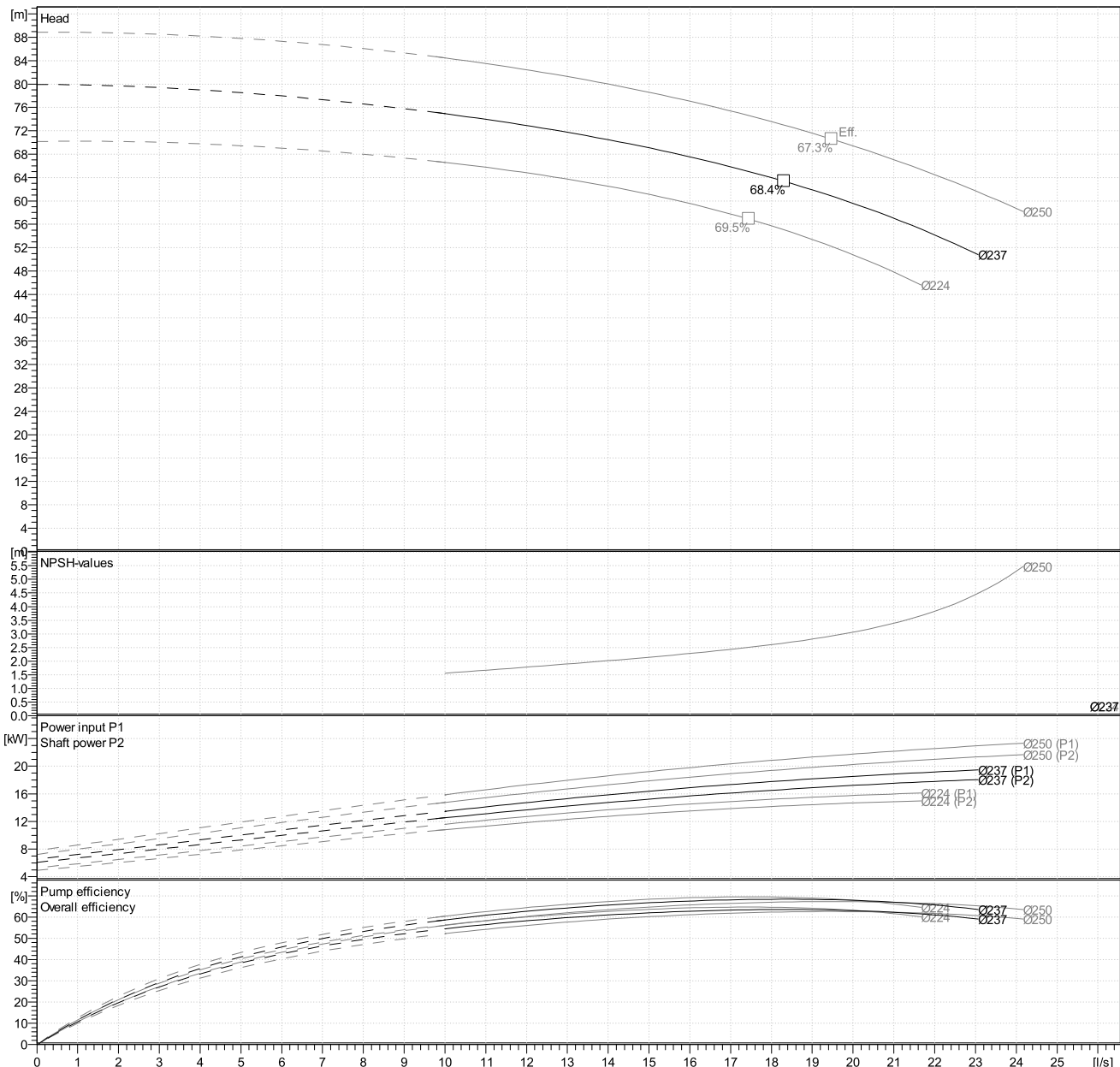
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Hydraulic data

Operating Data Specification		Hydraulic data (duty point)		Impeller design	
Flow	0 l/s	Flow		Impeller R	237 mm
Head	0 m	Head		Frequency	50 Hz
Static head	0 m	MEI >=0,4		Speed	2900 rpm

Power datas 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	100		
B	345		
b	49		
c	5		
DNA	65		
DNM	50		
h1	180		
h2	225		
Hmax	420		
k	107		
L	694		
m	304		
m1	254		
n	304		
n1	254		
s	15		
w	208		
x	240		
Total weight		144 kg	

Connections mm

Suction nozzle	Discharge nozzle
DN 65	DN 50
PN 12	PN 12
EN1092-2 (e-SH)	EN1092-2 (e-SH)

D	185	D	165
Dia. Holes	18	Dia. Holes	18
DN	65	DN	50
G	104	G	83
M	145	M	125
Max thickness	18	Max thickness	18
N° Holes	4	N° Holes	4

Drawing

