

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

ESHE 80-160/15/P45RSNA

101863670

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 28.3
Number of stages	1	Min-	l/s 10
Max. casing pressure	kPa	Nominal	m
Max. working pressure	kPa 78.5	Head	at Qmax m 2.4
Head H(Q=0)	m 8	at Qmin	m 7.6
Weight	kg	Shaft power	kW ()
Max.	mm 186	Max. shaft power	kW 1.3
Impeller R	designed mm 169	Efficiency	%
Min.	mm 169	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	PLM490.../315 E3		
Rated power	1.5 kW	Electric current	3.7 A
Speed	1445 rpm	Degree of protection	IP 55
Frame size	90	Weight	23 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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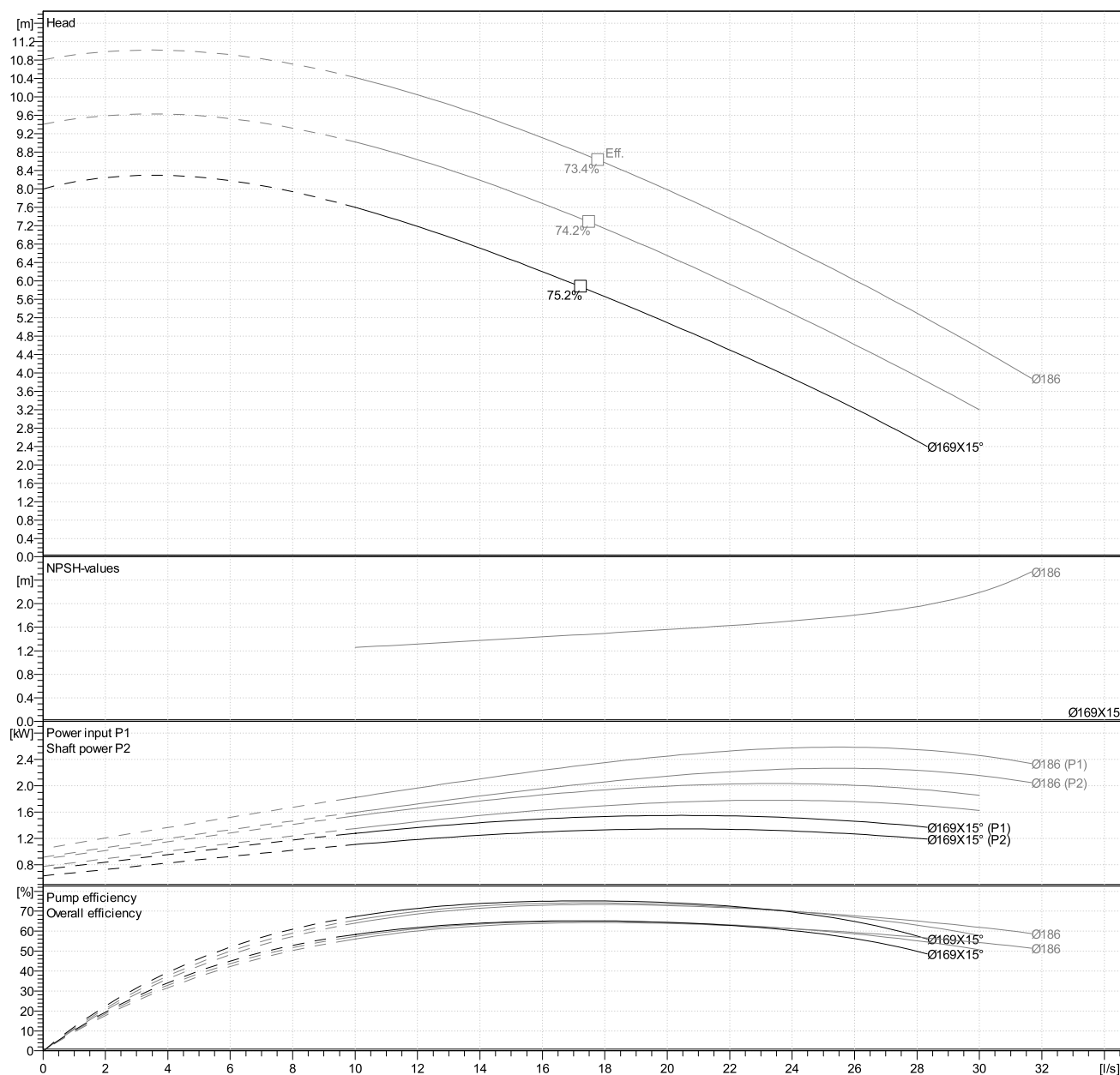
Hydraulic data

Operating Data Specification		Hydraulic data (duty point)	Impeller design	
Flow	0 l/s	Flow	Impeller R	169 mm
Head	0 m	Head	Frequency	50 Hz
Static head	0 m	MEI >=0,4	Speed	1450 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	125		
B	345		
DNA	100		
DNM	80		
h1	180		
h2	225		
Hmax	405		
k	160		
L	523		
n	265		
n1	130		
x	134		
		Total weight	55 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

