

46SV11G450T/E

Technical data

Company name
Contact
Phone number
e-mail address

Operating data

Pump type	Single head pump	Fluid	Water
Available system NPSH	m 0	Operating temperature t A	°C 4
Nominal flow	m³/h 0	pH-value at t A	7
Nominal head	m 0	Density at t A	kg/m³ 1000
Static head	m 0	Kin. viscosity at t A	mm²/s 1.569
Inlet pressure	kPa 0	Vapor pressure at t A	kPa 100
Environmental temperature	°C 20	Solids	0
		Altitude	m 0

Pump data

Make	Lowara	Nominal	m³/h ()
Speed	rpm 2900	Flow	Max- m³/h 60
Number of stages	11		Min- m³/h
Max. casing pressure	kPa		Nominal m
Max. working pressure	kPa 2898.9	Head	at Qmax m 161.3
Head H(Q=0)	m 300		at Qmin m 295.5
Weight	kg 399	Shaft power	kW ()
	Max. mm 133	Max. shaft power	kW 39.4
Impeller R	designed mm 133	Efficiency	%
	Min. mm 133	NPSH 3%	m

Pump Materials

Pump body	Cast iron
Lower support	Cast iron
Impeller	Stainless steel / AISI 316L
Diffuser	Stainless steel / AISI 304
Outer sleeve	Stainless steel / AISI 304
Shaft	Stainless steel / AISI 431
Adapter	Cast iron
Wear ring	Technopolymer PPS
Coupling	Cast iron
Upper head	Cast iron
SEAL HOUSING	Cast iron
Coupling protection	Stainless steel / AISI 304
Shaft sleeve and bushing	Tungsten carbide
Bushing for diffuser	Carbon
Fill / drain plugs	Stainless steel / AISI 316

Shaft Seal

e-SV Mechanical seal	Roten
e-SV - Uniten (-30 / +120 °C)	
1 - Rotating part	Silicon Carbide
2 - Stationary part	Resin impregnated carbon
3 - Elastomers	EPDM
4 - Springs	AISI 316
5 - Other components	AISI 316

Motor data

Manufacturer	Lowara	Electric voltage	400 V	Speed	2975 rpm	Insulation class	F
Specific design	IE3 3ph Flange Motor - Premium Efficiency			Frame size	225 S/M2	Colour	RAL 5010
Type	3MAS 225 M B5 45 kW						
Rated power	45 kW	Degree of protection	IP55				
Electric current	76.4 A						

Remarks:

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Performance curve

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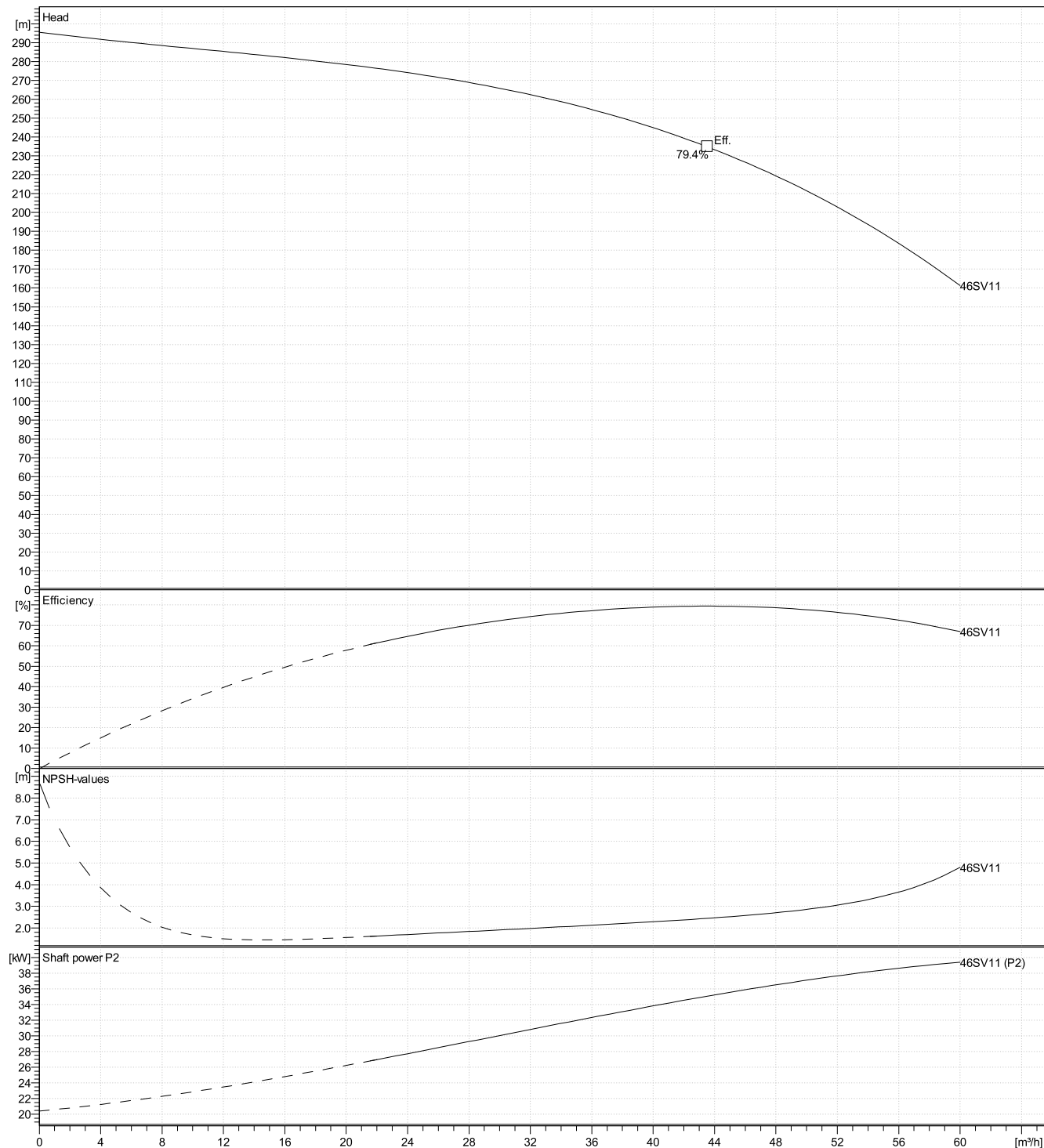
Hydraulic data

Operating Data Specification		Hydraulic data (duty point)	Impeller design	
Flow	0 m ³ /h	Flow	Impeller R	133 mm
Head	0 m	Head	Frequency	50 Hz
Static head	0 m	MEI >=0,7	Speed	2900 rpm

Power datas referred to:

Water [100%] ; 4°C; 1000kg/m³; 1.57mm²/s

Performance according to ISO 9906:2012 – Grade 3B



Project Xylect-20116890
Block 46SV11G450T/E

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Program version
74.0 - 01/07/2024 (Build 136)

Data version
07/10/2024 08:08

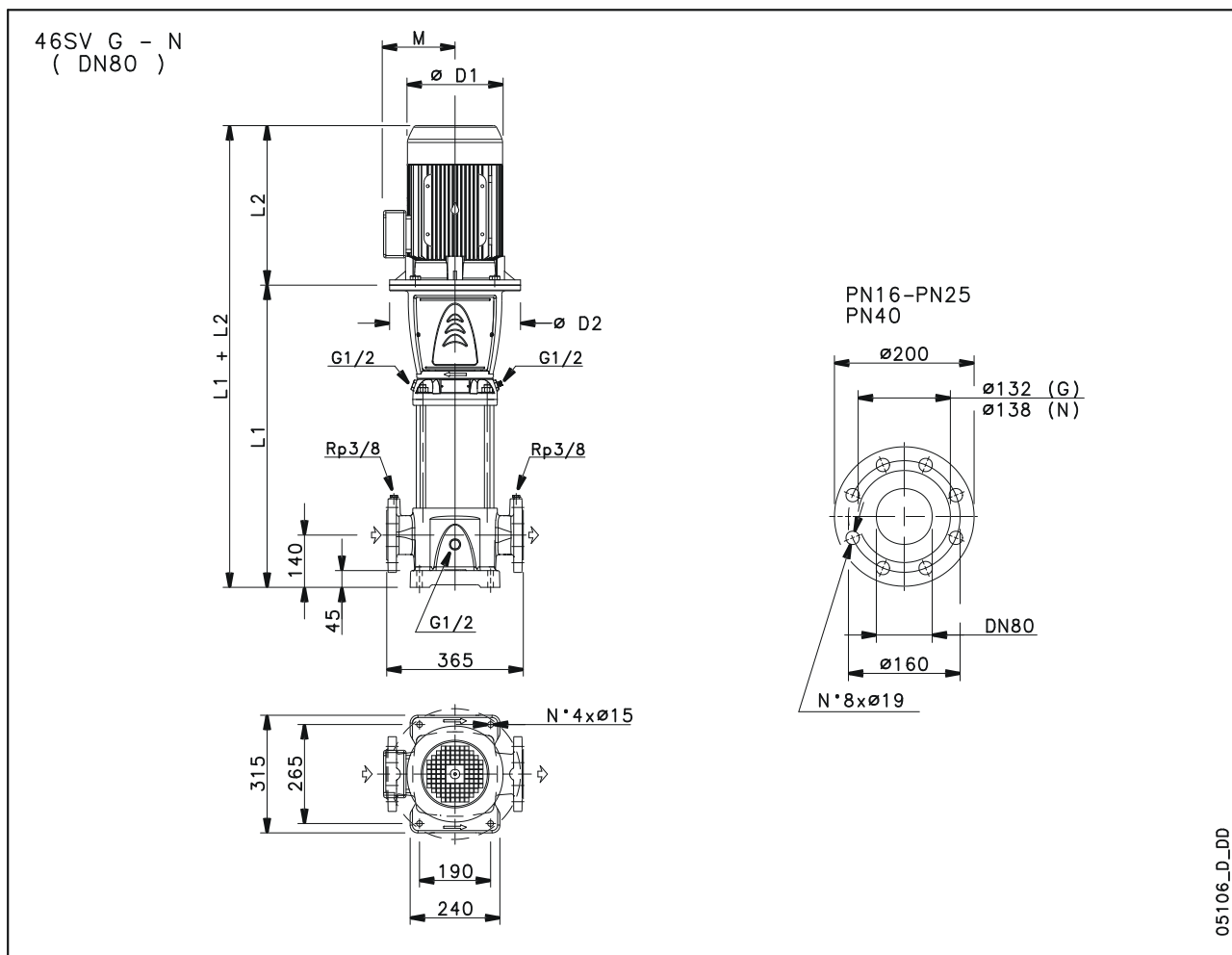
User group(s)
Xylem: United Kingdom - EXT

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Dimensions

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Drawing



Dimensions mm

Electrical and dimensional data refer to IE3 motor

D1	460					Weight 400 kg
D2	450					
L1	1334					
L2	701					
M	323					