

Customer	Date	1/14/2021
Contact	Project	
Phone number	Project no.	
Email		

33SV5/2AG110T

101680121

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 11.1
Number of stages	5		Min- l/s
Max. casing pressure	kPa		Nominal m
Max. working pressure	kPa 1039.3	Head	at Qmax m 63
Head H(Q=0)	m 110		at Qmin m 106
Weight	kg 147	Shaft power	kW ()
	Max. m 209.4	Max. shaft power	kW 10.3
Impeller R	designed m 209.4	Efficiency	%
	Min. m 209.4	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	220 V	Speed	2930 rpm	Insulation class	155 (F)
Specific design	IE3 Three phase surface motor (e-SV)			Frame size	160R	Colour	RAL 5010
Type	PLM160RB5/3110 E3 (220-240/380-415V)						
Rated power	11 kW	Degree of protection	IP55				
Electric current	35.7 A						

Remarks:

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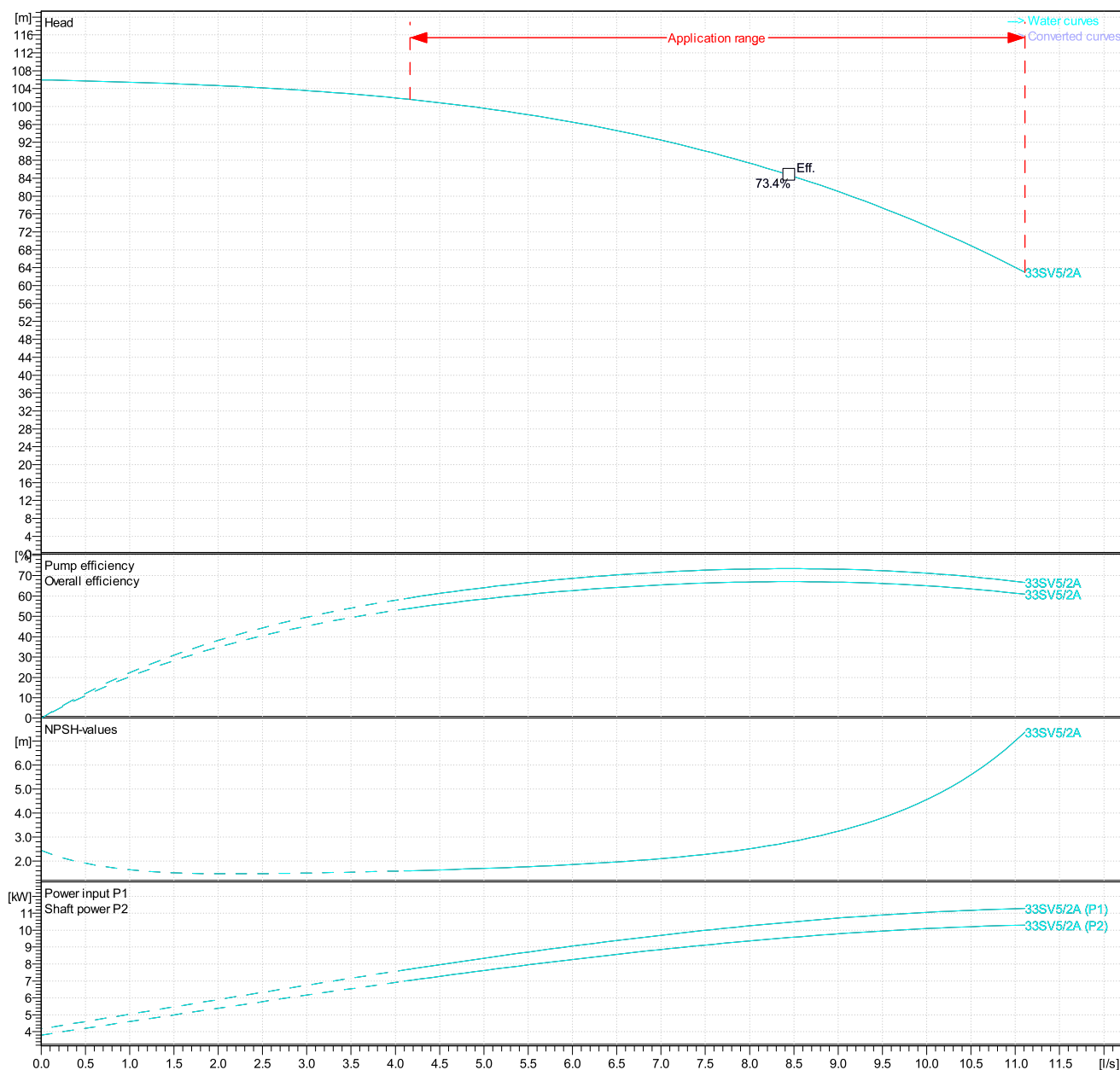
Hydraulic data

Operating Data Specification		Hydraulic data (duty point)	Impeller design	
Flow	0 l/s	Flow	Impeller R	209.45 m
Head	0 m	Head	Frequency	50 Hz
Static head	0 m	MEI >=0,7	Speed	2900 rpm

Power datas refered to:

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

Performance according to ISO 9906:2012 – Grade 3B

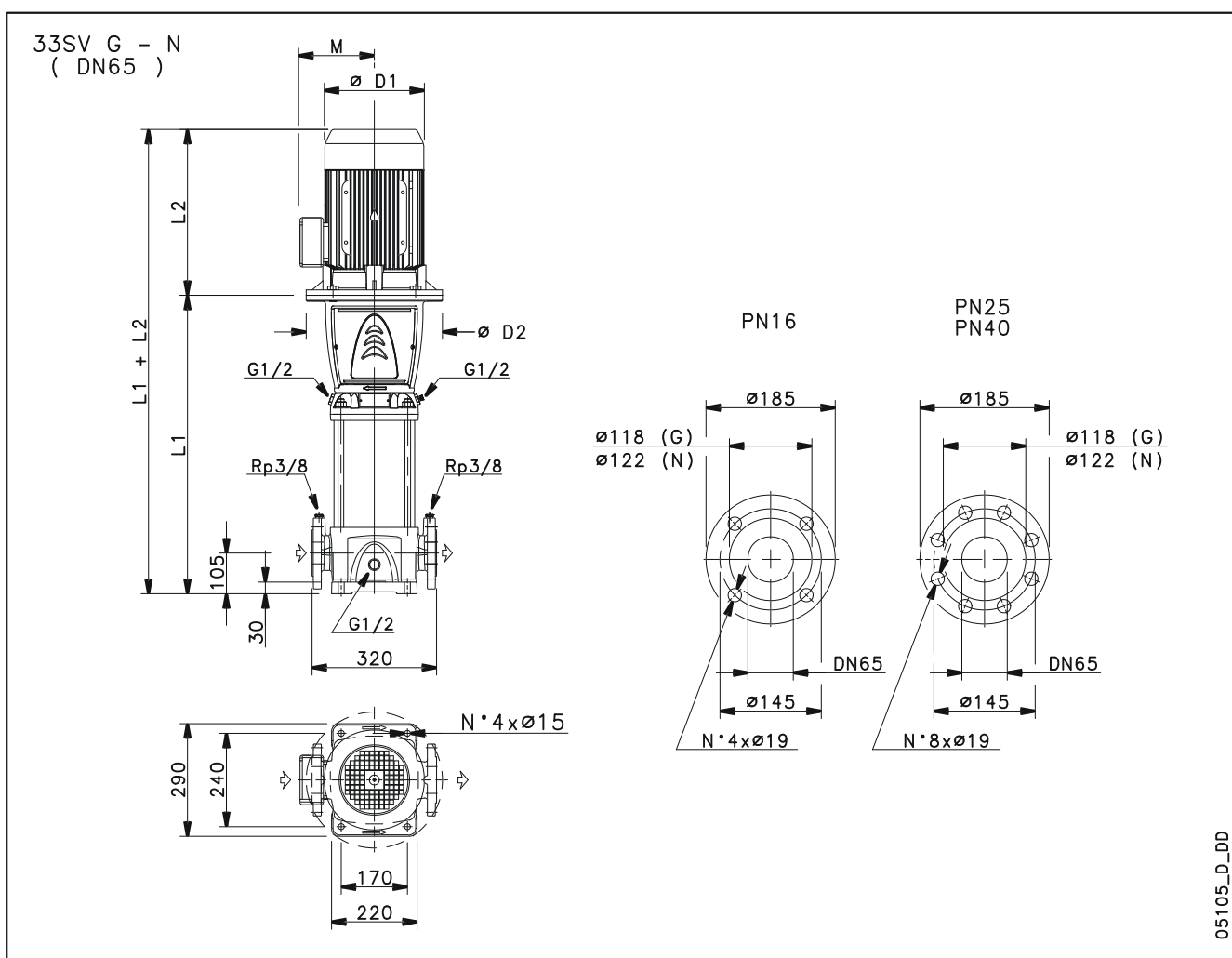


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Drawing



Dimensions m

D1	403.15					Weight
D2	551.18					147 kg
L1	1329.1					
L2	674.02					
M	300.79					