

NSCS 200-315/150/L65VDC4

Technical data

Company name
Contact
Phone number
e-mail address

Operating data						
1	Pumpe type	Single head pump		Fluid	Water, pure	
2	No. of pumps	1		Operating temperature t A	°C	4
3	Nominal flow	m ³ /h	0	Max / Min Operating Temperature mech. Seal	°C	120 / -25
4	Nominal head	m	0	pH-value at t A		7
5	Static head	m	0	Density at t A	kg/m ³	1000
6	Inlet pressure	kPa	0	Kin. viscosity at t A	mm ² /s	1.569
7	Environmental temperature	°C	20	Vapor pressure at t A	kPa	100
8	Available system NPSH	m	0	Altitude		0

Pump data						
9	Lubrication	42				
10	Execution	Standard Design (Type B)				
11	Design	Horizontal				
12	Operating speed	980 rpm	Stages	1		
13	Suction nozzle	DN250	/	PN16	/ EN1092-2	
14	Discharge nozzle	DN200	/	PN16	/ EN1092-2	
15	Max. casing pressure	kPa				
16	Max. working pressure	kPa	143.4			
17	Impeller type	Radial impeller				
18	Head H(Q=0)	m	15			
19	Max. shaft power	kW	15			
20	Pump weight	kg				
21	Total weight	kg	343.0			

	Impeller Ø	Max.	mm	333
		designed	mm	321
		Min.	mm	260
		Nominal	m ³ /h	
	Flow	Max-	m ³ /h	596
		Min-	m ³ /h	78
		Nominal	m	
	Head	at Qmax	m	5.6
		at Qmin	m	14.2
		Shaft power	kW	
		Efficiency	%	
		NPSH 3%	m	

Materials					
	Pump			Shaft Seal	
22				Single mechanical seal, without shaft sleeve	
23	Volute Casing	Ductile Iron, EN-GJS-400-15, ASTM A536 40-60-18			
24	Impeller	Cast Iron, EN 1561 - GJL-200, ASTM Class 30			eMG12 - Ø48mm
25	Casing Cover	Ductile Iron, EN-GJS-400-15, ASTM A536 40-60-18			BQ7EGG-WA
26	Shaft	Stainless steel, 1.4057, AISI 431			Mechanical seal diameter
27	Wear ring	Stainless steel, 1.4301, AISI 304			48 mm
28	Impeller lock nut and washer	A4 (1.4401)			1. Rotating ring
29	Impeller key	Stainless steel, 1.4571, AISI 316Ti			Carbon graphite resin impregnated
30	Fill and drain plugs	Galvanized carbon steel, EN 10277-3, AISI 1213 / 1215			2. Stationary ring
31	Bearing bracket	Cast Iron, EN 1561 - GJL-250, ASTM Class 35			SiC, silicon carbide, sintered press.less
32					3. Secondary seal
33					Ethylene propylene rubber (EPDM)
34					4. Springs
35					CrNiMo - Steel
36					5. Others
37					EPDM - WRAS
38					Gaskets of the pump
39					Ethylene propylene rubber (EPDM)
40					
41					

Motor data					
Electrical and dimensional data refer to IE3 motor					
42	Manufacturer	Lowara			
43	Specific design	IE3 3ph Flange Motor - Premium Efficiency			
44	Type	3MAS 180 L B35 15 kW			
45	Rated power	15 kW	Rated current	30.6 A	
46	Nominal speed	975 rpm	Rated voltage	400 V	
47	Frame size	180 L	Service factor	1	
48	Weight	kg 138.0	Degree of protection	IP55	

Remarks					
49					
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50					
52					

Project	Xylect-20303810	Created by		Last update	12/6/2024
Block	NSCS 200-315/750/L45VDC4 E4	Created on	12/6/2024		

NSCS 200-315/150/L65VDC4

Performance curve

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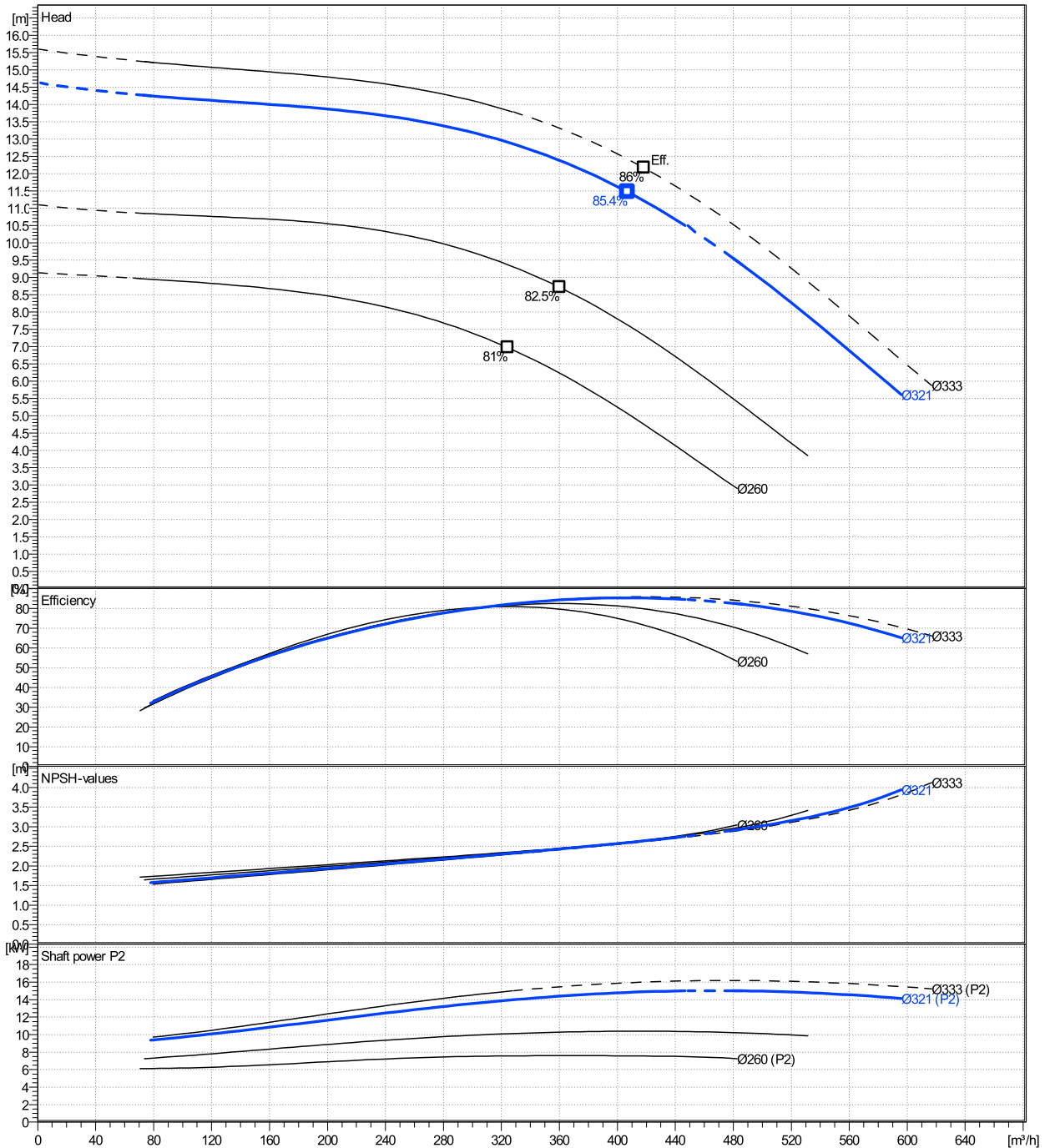
	Ø mm	Pump capacity			Pump head		Shaft power P2			Frequency	Hz	
		Operating range Min. m³/h	Max. m³/h	η Max. m³/h	H(Q=0) m	η Max. m	P2(Q=0) kW	Max. kW	η Max. kW	Operating speed	rpm	
actual	321	78	596	407	14.6	11.5	15	14.8		50	980	
Min.	0	/	/	324	9.13	6.97	/	7.57		Nominal flow	m³/h	0
Max.	333	/	/	418	15.6	12.2	/	16		Nominal head	m	0
										Inlet pressure	kPa	0
										Static head	m	0

Power datas referred to:

hydr. Performance acceptance acc. To EN ISO 9906 Class Grade 2B

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

MEI: 0,56 - according to Ecodesign Directive 2009/125/EC and Regulation (EU) No.547/2012



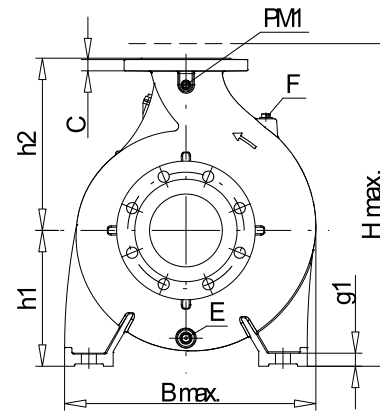
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Dimensions

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Blockpump
Standard Design (Type B)
3MAS 180 L B35 15 kW

Electrical and dimensional data refer to IE3 motor



PM1...Pressure gauge connector
E...Drain
F...Filling



Value C, D may vary from Standard

Dimensions [mm]			
a	180	L	1025
A	279	m1	200
AA	64	m2	150
AB	364	n1	550
AD	264	n2	450
b	100	P	350
B	279	PM1	1/2"
BB	324	s1	23
Bmax	645	Trim	0
CTO	0	Type	B
DNd	200	Volumen	0.53221
DNs	250	w	375
E	1/2"	x	200
F	-		
f	254		
g1	26		
H	180		
h1	355		
h2	450		
h3	0		
HA	22		
Hmax	805		
hs	175		
K	15		

Weight	
Total weight	343 kg

Connections			
Suction nozzle		Discharge nozzle	
DN250		DN200	
PN16		PN16	
EN1092-2		EN1092-2	
C	32	C	30
D	405	D	345
d1	319	d1	266
K	355	K	295
L	28	L	23
z	12	z	12

Dimensions and weight without obligation

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