

NSCS 65-315/110/P45VCC4

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	m³/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/m³	1000
6	Inlet pressure	kPa 0	Kin. viscosity at t A	mm²/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	32			
10	Execution	Standard Design (Type B)	Impeller Ø	Max.	mm 334
11	Design	Horizontal		designed	mm 315
12	Operating speed	1465 rpm		Min.	mm 260
13	Suction nozzle	DN80 / PN10/16 / EN1092-2		Nominal	m³/h
14	Discharge nozzle	DN65 / PN10/16 / EN1092-2	Flow	Max-	m³/h 120
15	Max. casing pressure	kPa		Min-	m³/h 13.6
16	Max. working pressure	kPa 338.2		Nominal	m
17	Impeller type	Radial impeller	Head	at Qmax	m 16.7
18	Head H(Q=0)	m 34		at Qmin	m 34.5
19	Max. shaft power	kW 10.4	Shaft power	kW	
20	Pump weight	kg	Efficiency	%	
21	Total weight	kg 217.0	NPSH 3%	m	

Materials

22		Pump		Shaft Seal	
23	Volute Casing	Cast Iron, EN 1561 - GJL-250, ASTM Class 35		Single mechanical seal, without shaft sleeve	
24	Impeller	Cast Iron, EN 1561 - GJL-200, ASTM Class 30	eMG12 - Ø38mm	BQ7EGG-WA	
25	Casing Cover	Cast Iron, EN 1561 - GJL-250, ASTM Class 35	Mechanical seal diameter	38 mm	
26	Shaft	Stainless steel, 1.4057, AISI 431	1. Rotating ring	Carbon graphite resin impregnated	
27	Wear ring	Stainless steel, 1.4301, AISI 304	2. Stationary ring	SiC, silicon carbide, sintered press.less	
28	Impeller lock nut and washer	A4 (1.4401)	3. Secondary seal	Ethylene propylene rubber (EPDM)	
29	Impeller key	Stainless steel, 1.4571, AISI 316Ti	4. Springs	CrNiMo - Steel	
30	Fill and drain plugs	Galvanized carbon steel, EN 10277-3, AISI 1213 / 1215	5. Others	EPDM - WRAS	
31	Bearing bracket	Cast Iron, EN 1561 - GJL-250, ASTM Class 35	Gaskets of the pump	Ethylene propylene rubber (EPDM)	
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Motor data

Electrical and dimensional data refer to IE3 motor

42	Manufacturer	Lowara		
43	Specific design	IE3 3ph Flange Motor - Premium Efficiency		
44	Type	PLM 160 B35 11 kW		
45	Rated power	11 kW	Rated current	21.4 A
46	Nominal speed	1465 rpm	Rated voltage	400 V
47	Frame size	160	Service factor	1
48	Weight	kg 125.0	Degree of protection	IP55

Remarks

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Project	Xylect-20255621	Created by		Last update	11/26/2024
Block	NSCS 65-315/900/L25VCC4 E4	Created on	11/26/2024		

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Performance curve

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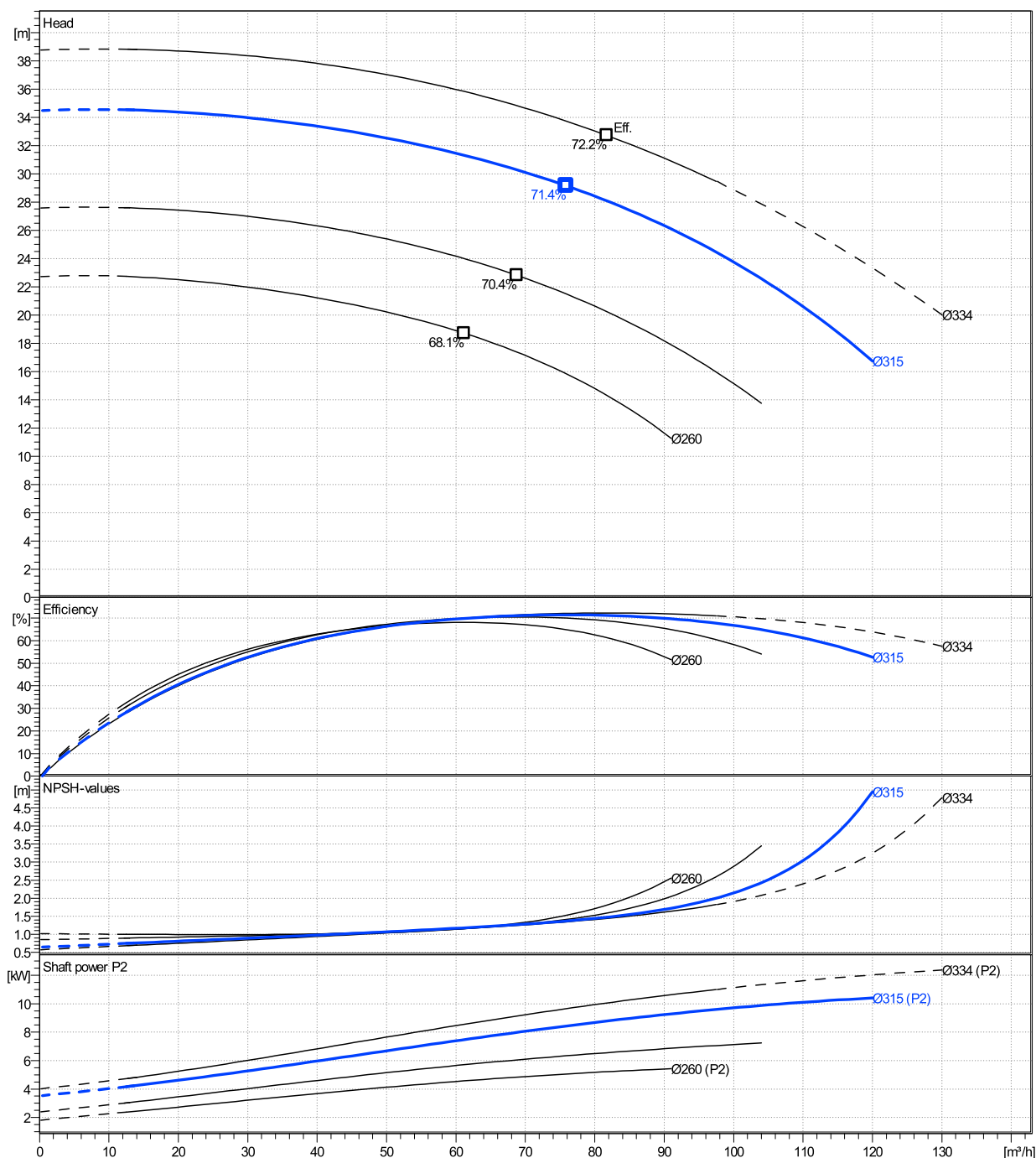
	Ø mm	Pump capacity Operating range			Pump head H(Q=0)		Shaft power P2			Frequency		Hz
		Min. m³/h	Max. m³/h	η Max. m³/h	Max. m	η Max. m	P2(Q=0) kW	Max. kW	η Max. kW	Operating speed	rpm	
actual	315	13.6	120	75.9	34.5	29.2		10.4	8.43	Nominal flow	m³/h	0
Min.	0	/	/	61.2	22.7	18.7		/	4.57	Nominal head	m	0
Max.	334	/	/	81.8	38.8	32.7		/	10.1	Inlet pressure	kPa	0
										Static head	m	0

Power datas referred to:

hydr. Performance acceptance acc. To EN ISO 9906 Class Grade 3B

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

MEI: >=0,70 - according to Ecodesign Directive 2009/125/EC and Regulation (EU) No.547/2012



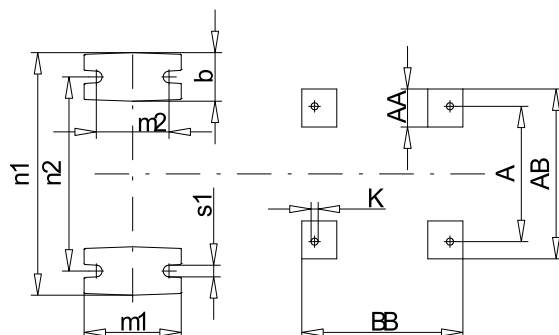
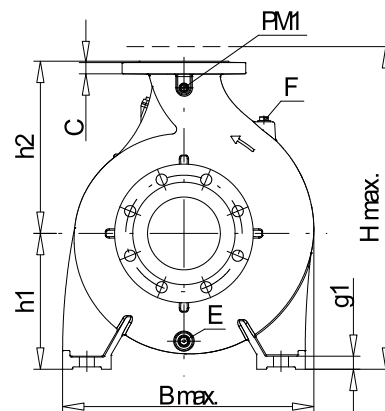
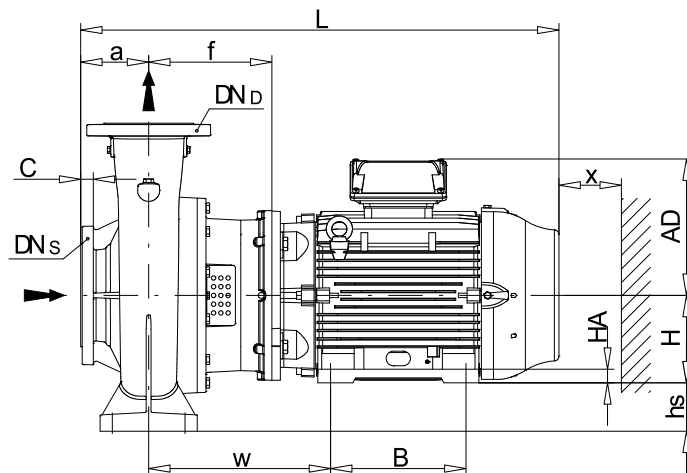
NSCS 65-315/110/P45VCC4

Dimensions

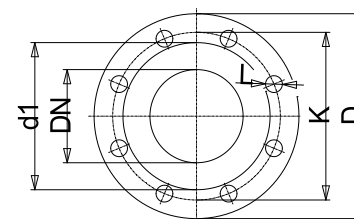
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Blockpump
Standard Design (Type B)
PLM 160 B35 11 kW

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	125	L	859
A	254	m1	160
AA	49	m2	120
AB	304	n1	400
AD	240	n2	315
B	210	P	350
b	80	PM1	1/4"
BB	304	s1	19
Bmax	437	Trim	0
CTO	0	Type	B
DNd	65	Volumen	0.18957
DNs	80	w	348
E	3/8"	x	140
f	240		
F	3/8"		
g1	20		
H	160		
h1	225		
h2	280		
h3	0		
HA	5		
Hmax	505		
hs	65		
K	15		

Weight

Total weight 217 kg

Connections

Suction nozzle		Discharge nozzle	
DN80		DN65	
PN10/16		PN10/16	
EN1092-2		EN1092-2	
C	22	C	20
D	200	D	185
d1	132	d1	118
K	160	K	145
L	19	L	19
z	8	z	4

Dimensions and weight without obligation

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