

NSCS 100-315/110/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)			
11	Design	Horizontal	Impeller Ø	Max.	mm 334
12	Operating speed	1480 rpm		designed	mm 260
13	Suction nozzle	DN125 / PN10/16 / EN1092-2		Min.	mm 260
14	Discharge nozzle	DN100 / PN10/16 / EN1092-2	Flow	Nominal	m³/h
15	Max. casing pressure	kPa		Max-	m³/h 200
16	Max. working pressure	kPa 233.7		Min-	m³/h 20
17	Impeller type	Radial impeller	Head	Nominal	m
18	Head H(Q=0)	m 24		at Qmax	m 12.7
19	Max. shaft power	kW 11.1		at Qmin	m 23.9
20	Pump weight	kg	Shaft power	kW	
21	Total weight	kg 236.0	Efficiency	%	
			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
25	Casing Cover	Cast Iron, EN 1561 - GJL-250, ASTM Class 35			Mechanical seal diameter
26	Shaft	Stainless steel, 1.4057, AISI 431			38 mm
27	Wear ring	Stainless steel, 1.4301, AISI 304			1. Rotating ring
28	Impeller lock nut and washer	A4 (1.4401)			Carbon graphite resin impregnated
29	Impeller key	Stainless steel, 1.4571, AISI 316Ti			2. Stationary ring
30	Fill and drain plugs	Galvanized carbon steel, EN 10277-3, AISI 1213 / 1215			SiC, silicon carbide, sintered press.less
31	Bearing bracket	Cast Iron, EN 1561 - GJL-250, ASTM Class 35			3. Secondary seal
32					Ethylene propylene rubber (EPDM)
33					4. Springs
34					CrNiMo - Steel
35					5. Others
36					EPDM - WRAS
37					Gaskets of the pump
38					Ethylene propylene rubber (EPDM)
39					
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	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

49	
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52	

Project	Xylect-20303810	Created by		Last update	12/6/2024
Block	NSCS 100-315/300/L45VCC4	Created on	12/6/2024		

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Performance curve

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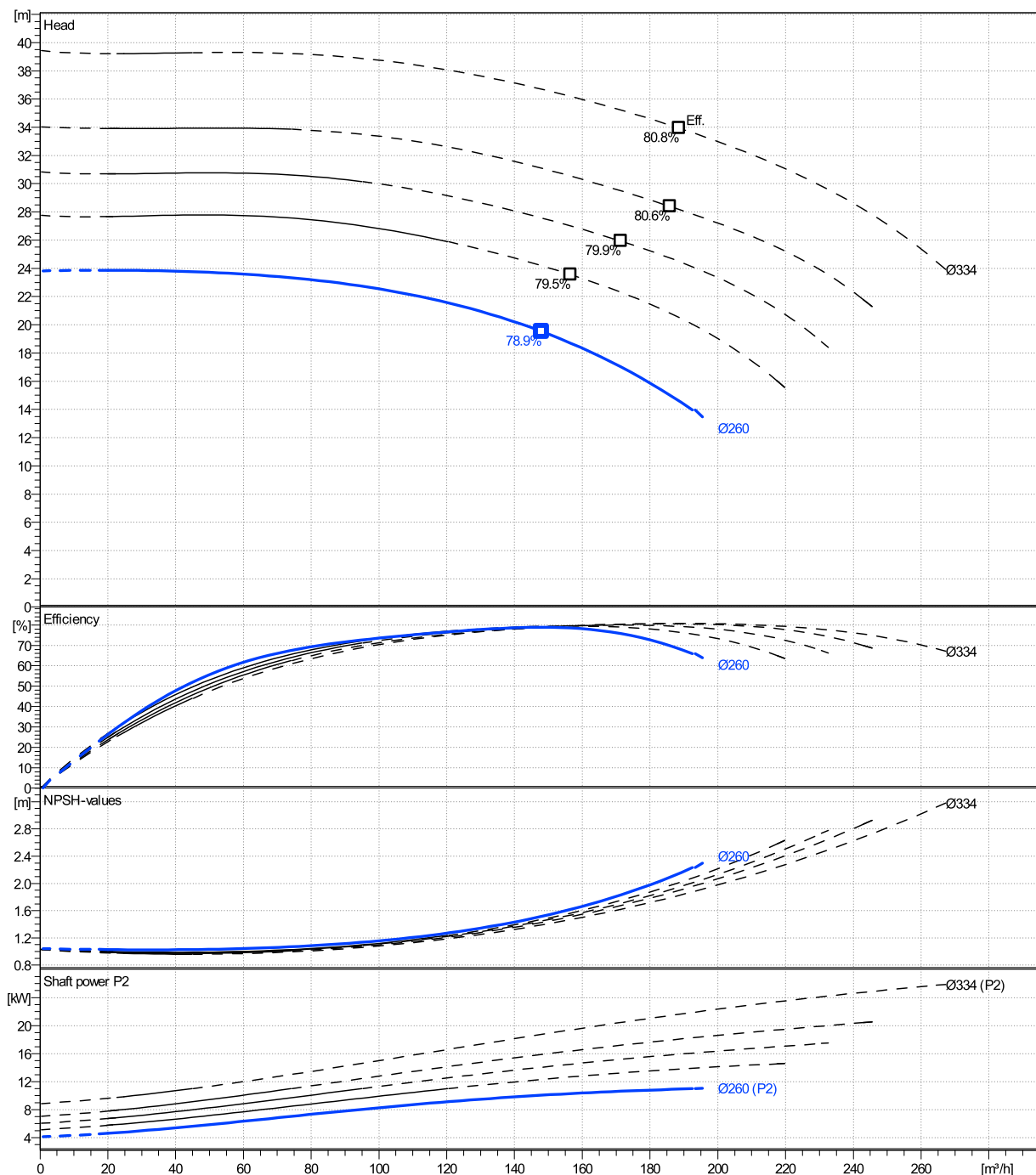
	Ø mm	Pump capacity Operating range			Pump head		Shaft power P2			Frequency		Hz
		Min. m³/h	Max. m³/h	η m³/h	H(Q=0) m	η m	P2(Q=0) kW	Max. kW	η kW	Operating speed	rpm	
actual	260	20	193	148	23.8	19.5		11.1	10.1	Nominal flow	m³/h	0
Min.	0	/	/	148	23.8	19.5		/	10.1	Nominal head	m	0
Max.	334	/	/	189	39.4	33.9		/	21.6	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: 0,69 - according to Ecodesign Directive 2009/125/EC and Regulation (EU) No.547/2012



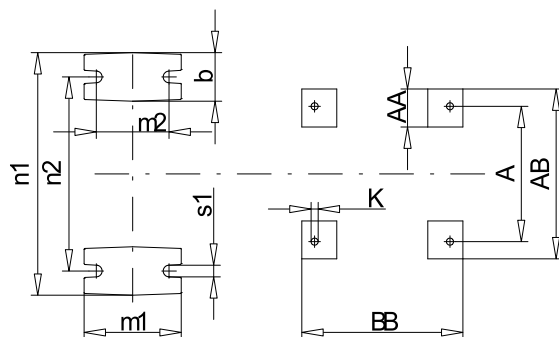
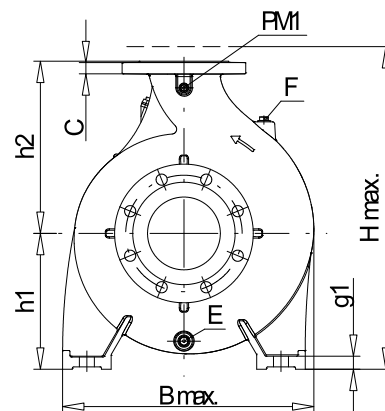
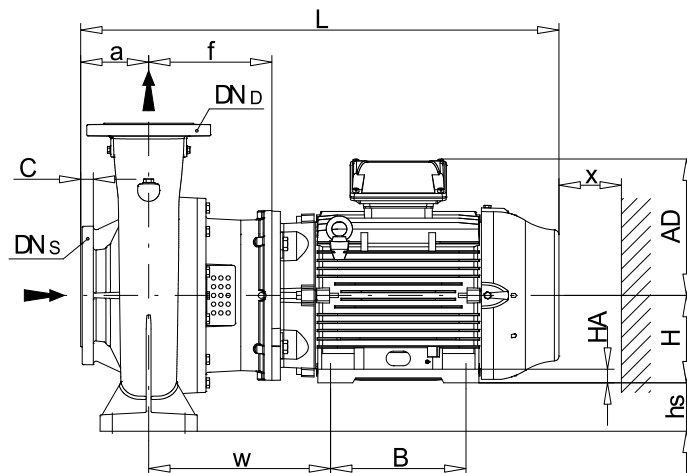
NSCS 100-315/110/P45VCC4

Dimensions

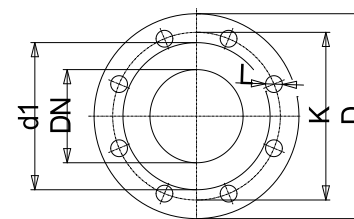
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Blockpump
Standard Design (Type B)
PLM 160 B35 11 kW

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	140	L	874
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	481	Trim	0
CTO	0	Type	B
DNd	100	Volumen	0.23752
DNs	125	w	348
E	3/8"	x	140
f	240		
F	3/8"		
g1	26		
H	160		
h1	250		
h2	315		
h3	0		
HA	5		
Hmax	565		
hs	90		
K	15		

Weight

Total weight 236 kg

Connections

Suction nozzle		Discharge nozzle	
DN125		DN100	
PN10/16		PN10/16	
EN1092-2		EN1092-2	
C	26	C	24
D	255	D	230
d1	184	d1	157
K	210	K	180
L	19	L	19
z	8	z	8

Dimensions and weight without obligation

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