

NSCS 80-250/110/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	Standard, Grease lubrication [Std]		
10	Execution	4 poles motor		
11	Design	Horizontal		
12	Operating speed	1450 rpm	Stages	1
13	Suction nozzle	DN 100 /	PN 16 /	EN1092-2
14	Discharge nozzle	DN 80 /	PN 16 /	EN1092-2
15	Max. casing pressure	kPa		
16	Max. working pressure	kPa 236.1		
17	Impeller type	Radial impeller		
18	Head H(Q=0)	m 24		
19	Max. shaft power	kW 8.8		
20	Pump weight	kg		
21	Total weight	kg 197.0		

Materials

22		Pump		Shaft Seal
23	Volute Casing	Cast Iron		Single mechanical seal, without shaft sleeve
24	Casing Cover	Cast Iron		eMG12 - Ø38mm
25	Impeller	Cast Iron		Mechanical seal diameter
26	Shaft	Stainless steel		1. Rotating ring
27	Wear ring	Stainless steel		2. Stationary ring
28	Impeller lock nut and washer	Stainless steel		3. Secondary seal
29	Impeller key	Stainless steel		4. Springs
30	Fill and drain plugs	Stainless steel		5. Others
31				Gaskets of the pump
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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 80-250/750/L25VCC4 E4	Created on	11/26/2024		

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Performance curve

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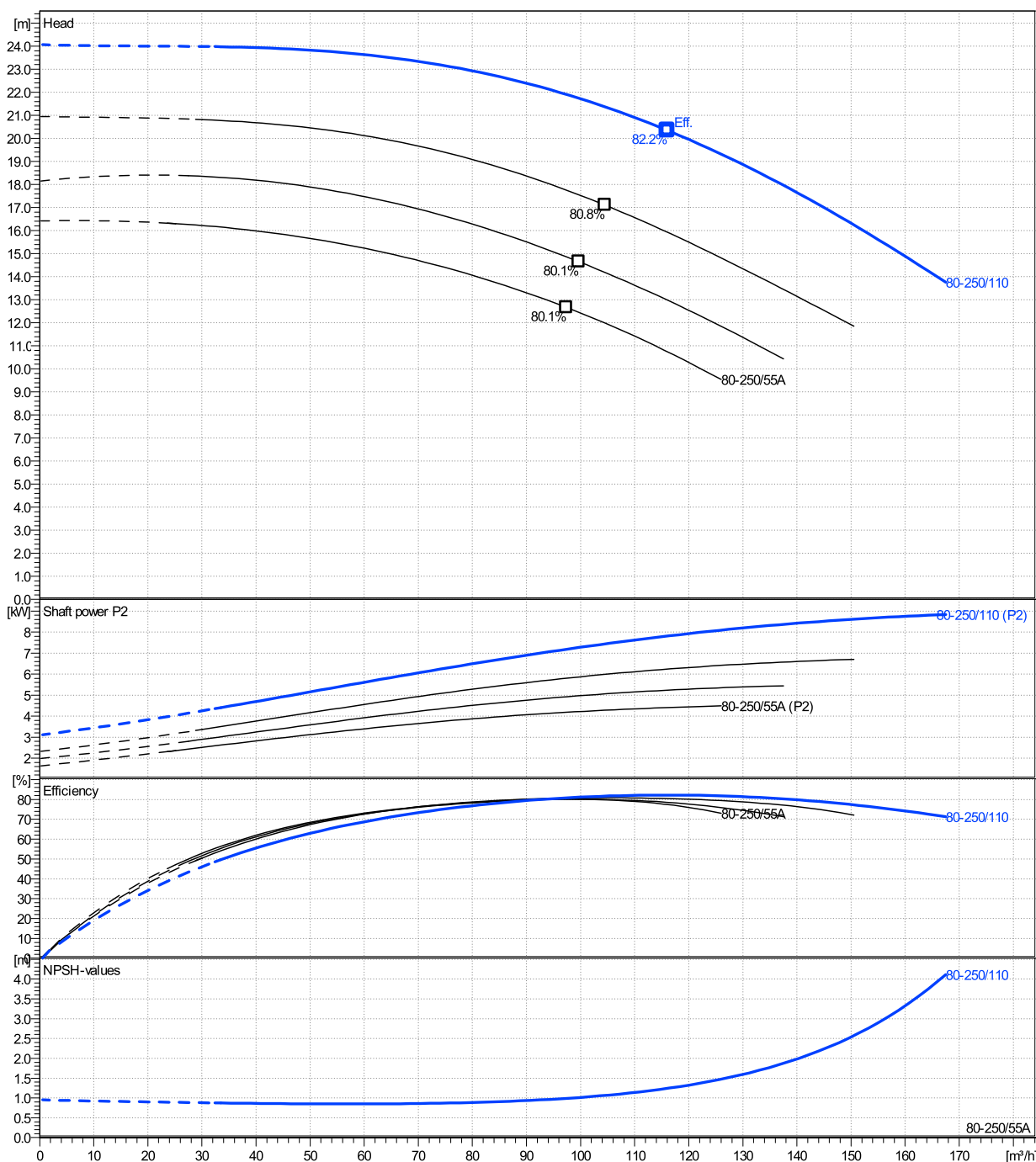
	Ø mm	Pump capacity Operating range			Pump head		Shaft power P2			Frequency		Hz
		Min. m³/h	Max. m³/h	η Max. m³/h	H(Q=0) m	η Max. m	P2(Q=0) kW	Max. kW	η Max. kW	Operating speed	rpm	
actual	259	33.5	168	116	24.1	20.3		8.83	7.81	Nominal flow	m³/h	0
Min.	0	/	/	97.4	16.4	12.7		/	4.18	Nominal head	m	0
Max.	259	/	/	116	24.1	20.3		/	7.81	Inlet pressure	kPa	0
										Static head	m	0

Power datas referred to:

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

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

MEI: >=0,4



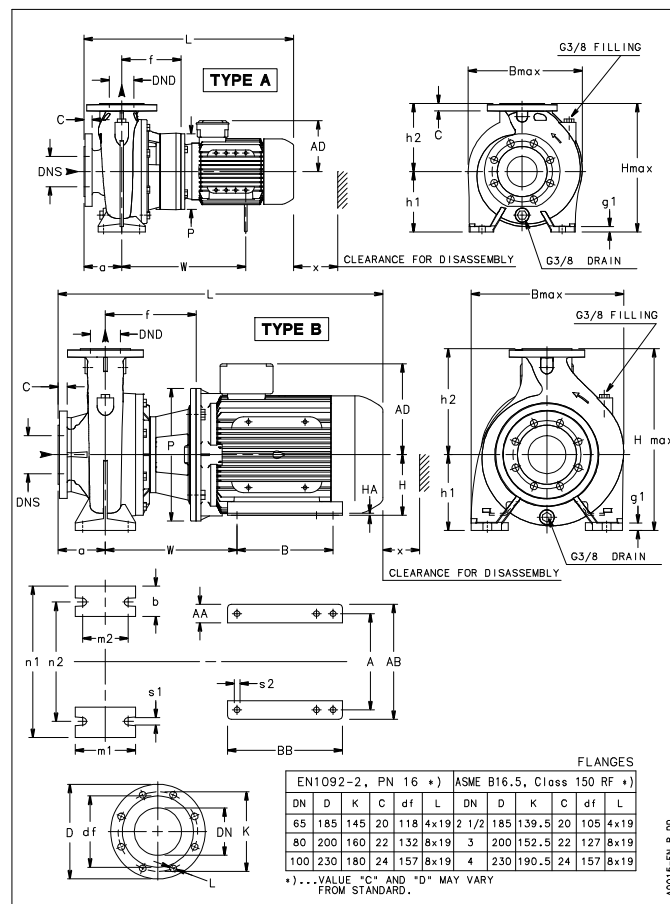
NSCS 80-250/110/P45VCC4

Dimensions

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Blockpump B35
4 poles motor
PLM 160 B35 11 kW

Electrical and dimensional data refer to IE3 motor



Dimensions [mm]

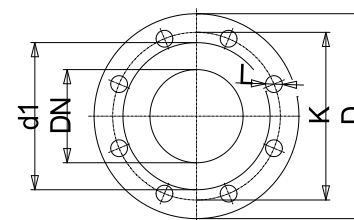
a	125
AD	240
b	80
Bmax	400
DNd	80
DNs	100
f	240
g1	21
h1	200
h2	280
Hmax	480
L	859
m1	160
m2	120
n1	400
n2	315
P	350
s1	20
Type	B
Volumen	0.18967
w	348
x	152

Weight

Total weight	197 kg
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Connections

Suction nozzle		Discharge nozzle	
DN 100		DN 80	
PN 16		PN 16	
EN1092-2		EN1092-2	
C	24	C	22
D	230	D	200
df	157	df	132
DN	100	DN	80
K	180	K	160
L	8 x 19	L	8 x 19



Value C, D may vary from Standard

Dimensions and weight without obligation

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Created by
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