

NSCS 50-250/22/P45RCS4

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 65 /	PN 16 /	EN1092-2	
14	Discharge nozzle	DN 50 /	PN 16 /	EN1092-2	
15	Max. casing pressure	kPa			
16	Max. working pressure	kPa	162.6		
17	Impeller type	Radial impeller			
18	Head H(Q=0)	m	17		
19	Max. shaft power	kW	2.2		
20	Pump weight	kg			
21	Total weight	kg	72.0		

Materials

22		Pump		Shaft Seal	
23	Volute Casing	Cast Iron		Single mechanical seal, without shaft sleeve	
24	Casing Cover	Cast Iron		eMG12 - Ø28mm	BQ7EGG-WA
25	Impeller	Fabricated Stainless Steel		Mechanical seal diameter	28 mm
26	Shaft	Stainless steel		1. Rotating ring	Carbon graphite resin impregnated
27	Wear ring	Stainless steel		2. Stationary ring	SiC, silicon carbide, sintered press.less
28	Impeller lock nut and washer	Stainless steel		3. Secondary seal	Ethylene propylene rubber (EPDM)
29	Impeller key	Stainless steel		4. Springs	CrNiMo - Steel
30	Fill and drain plugs	Stainless steel		5. Others	EPDM - WRAS
31				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 100 B5 2,2 kW			
45	Rated power	2.2 kW	Rated current	4.64 A	
46	Nominal speed	1445 rpm	Rated voltage	400 V	
47	Frame size	100	Service factor	1	
48	Weight	kg 32.0	Degree of protection	IP55	

Remarks

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Block	NSCS 50-250/300/L25VCS4	Created on	11/27/2024		

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Performance curve

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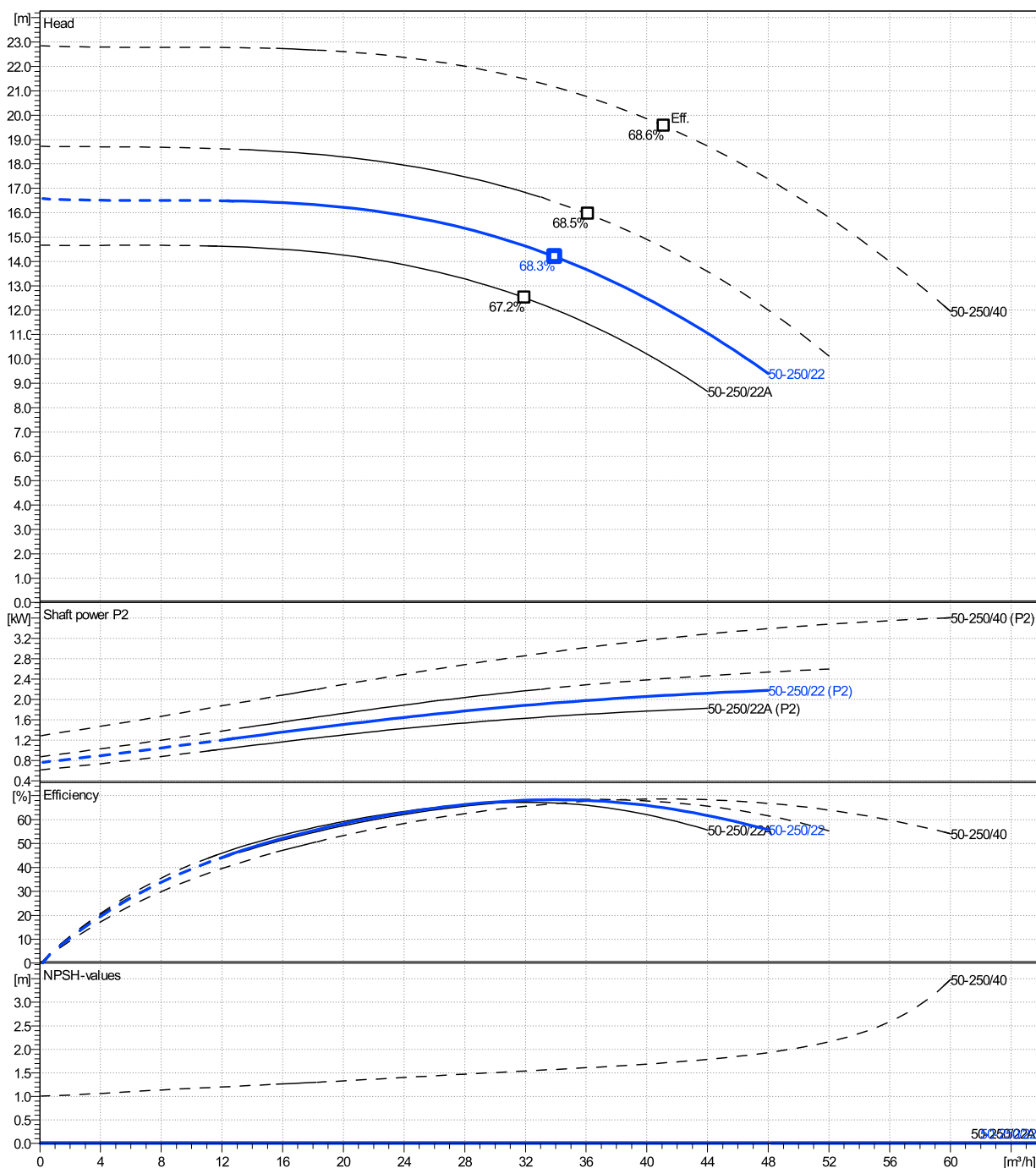
	Ø mm	Pump capacity Operating range			Pump head		Shaft power P2			Frequency		Hz
		Min. m³/h	Max. m³/h	η Max. m³/h	H(Q=0) m	η Max. m	P2(Q=0) kW	Max. kW	η Max. kW	Operating speed rpm	Nominal flow m³/h	
actual	220	12.8	48	33.9	16.6	14.2		2.18	1.93	1450	0	
Min.	0	/	/	31.9	14.7	12.5		/	1.63		0	
Max.	256	/	/	41.1	22.8	19.6		/	3.2		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: >=0,4



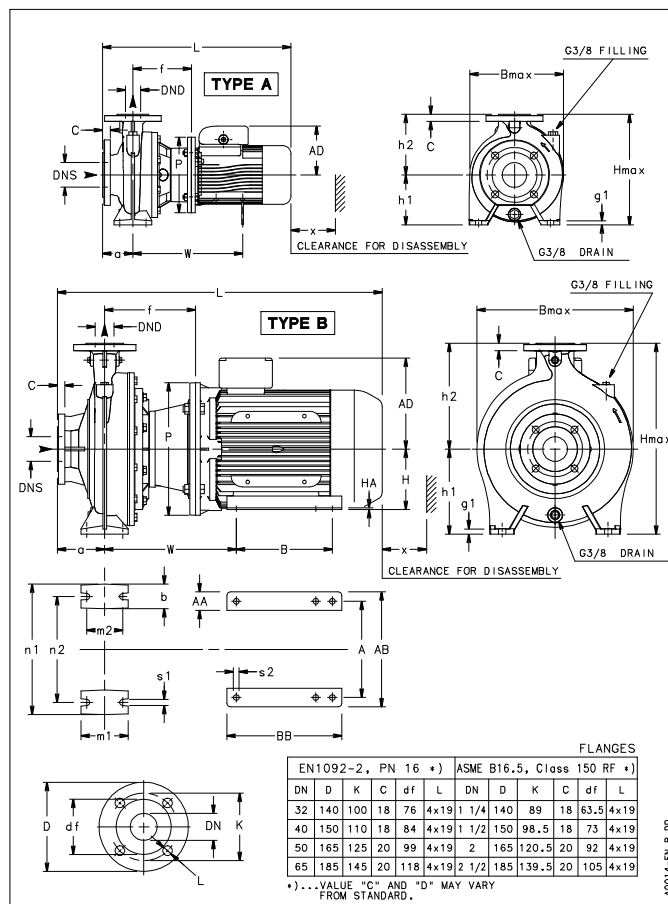
NSCS 50-250/22/P45RCS4

Dimensions

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Blockpump
4 poles motor
PLM 100 B5 2,2 kW

Electrical and dimensional data refer to IE3 motor



Dimensions [mm]

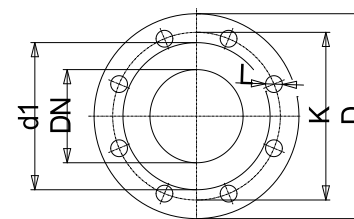
a	100
AD	168
b	65
Bmax	352
Bmax	358
DNd	50
DNs	65
f	165
g1	16
h1	180
h2	225
Hmax	405
L	587
m1	125
m2	95
n1	320
n2	250
P	250
s1	14
Type	A
Volumen	0.085109
w	285
x	110

Weight

Total weight	72 kg
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Connections

Suction nozzle		Discharge nozzle	
DN 65		DN 50	
PN 16		PN 16	
EN1092-2		EN1092-2	
C	20	C	20
D	185	D	165
df	118	df	99
DN	65	DN	50
K	145	K	125
L	4 x 19	L	4 x 19



Value C, D may vary from Standard

Dimensions and weight without obligation

Project Xylect-20260347
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