

NSCS50-250/220/P26PCS4

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 at t A	°F	39.2
3	Nominal flow	US g.p.m. 0	Max / Min Operating Temperature mech. Seal	°F	120 / -25
4	Nominal head	ft 0	pH-value at t A		7
5	Static head	ft 0	Density at t A	lb/ft ³	62.4
6	Inlet pressure	psi 0	Kin. viscosity at t A	ft ² /s	1.689E-5
7	Environmental temperature	°F 68	Vapor pressure at t A	psi	14.5
8	Available system NPSH	ft 0	Altitude		0

Pump data					
9	Lubrication	Standard, Grease lubrication [Std]			
10	Execution	2 poles motor			
11	Design	Horizontal			
12	Operating speed	3500 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	psi		Impeller Ø	Max. inch 9 1/8
16	Max. working pressure	psi	106.4		designed inch 7 15/16
17	Impeller type	Radial impeller			Min. inch 7 15/16
18	Head H(Q=0)	ft	250	Flow	Nominal US g.p.m.
19	Max. shaft power	hp	28.4		Max- US g.p.m. 396.3
20	Pump weight	kg		Min- US g.p.m. 92.5	
21	Total weight	lb	On demand	Head	Nominal ft
					at Qmax ft 179.8
				at Qmin ft 249.1	
				Shaft power	hp
				Efficiency	%
				NPSH 3%	ft

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	1 1/8 inch
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)
32					
33					
34					
35					
36					
37					
38					
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 180R B35 22 kW			
45	Rated power	29.502 hp	Rated current	42.1 A	
46	Nominal speed	3546 rpm	Rated voltage	380 V	
47	Frame size	180R	Service factor	1	
48	Weight	lb 266.8	Degree of protection	IP55	

Remarks					
49					
50					
50					
52					

Project	Xylect-20178266	Created by		Last update	1/10/2025
Block	NSCS50-250/370/L26UCS4	Created on	1/10/2025		

NSCS50-250/220/P26PCS4

Performance curve

Company name
Contact
Phone number
e-mail address

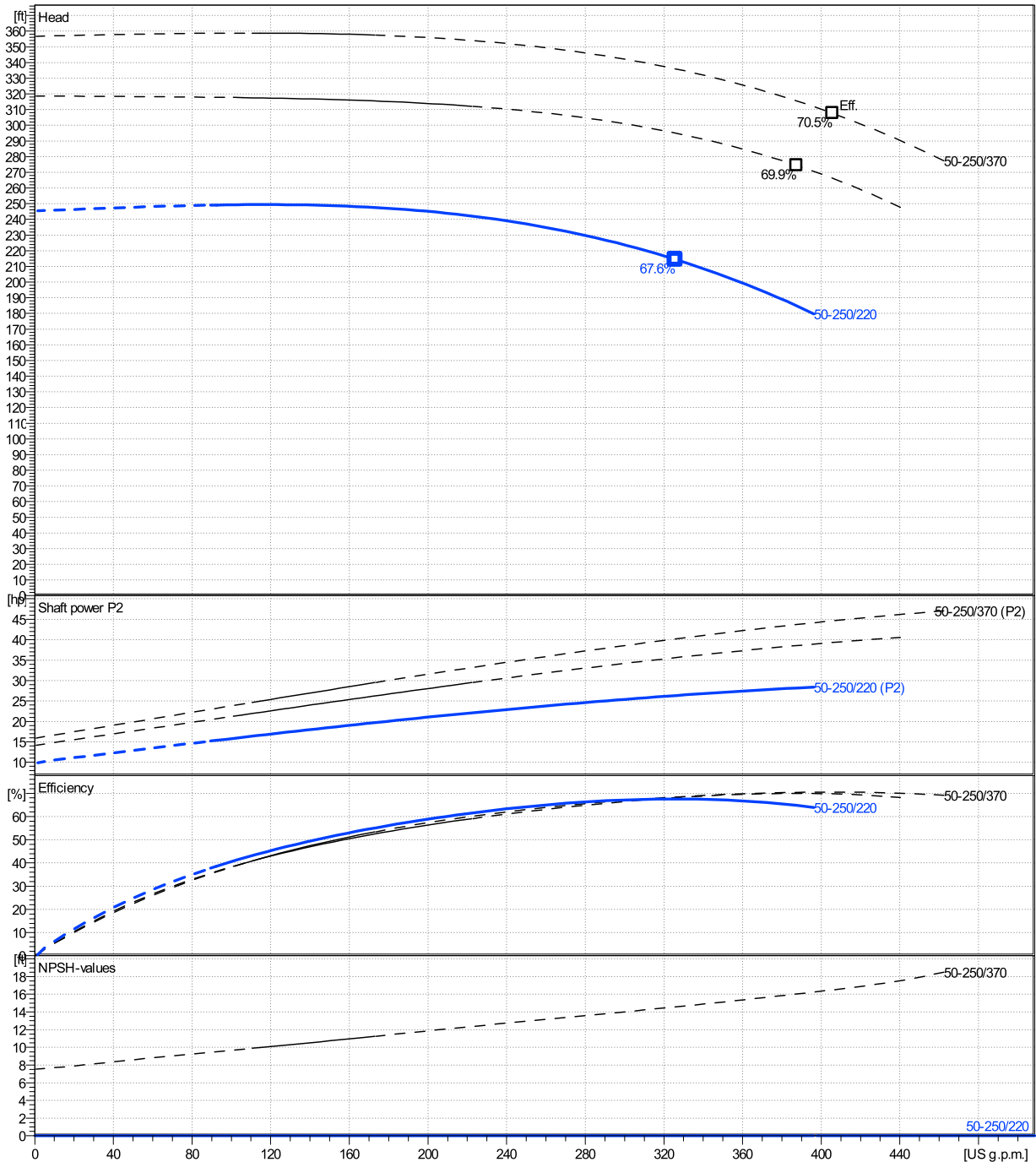
	Ø mm	Pump capacity Operating range η			Pump head H(Q=0) η		Shaft power P2 P2(Q=0) Max. η			Frequency Hz	
		Min. US g.p.m.	Max. US g.p.m.	Max. US g.p.m.	ft	ft	hp	hp	hp	rpm	
actual	7 15/16	92.5	396	326	245	214	28.4	26.3	26.3	3500	0
Min.	0	/	/	326	245	214	/	26.3	26.3		0
Max.	9 1/8	/	/	406	357	308	/	44.6	44.6		0

Power datas referred to:

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

Water, pure [100%]; 39.2°F; 62.4lb/ft³; 1.69E-5ft²/s

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



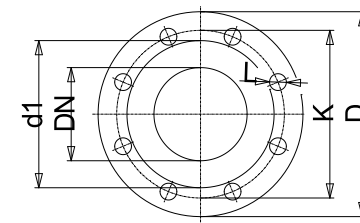
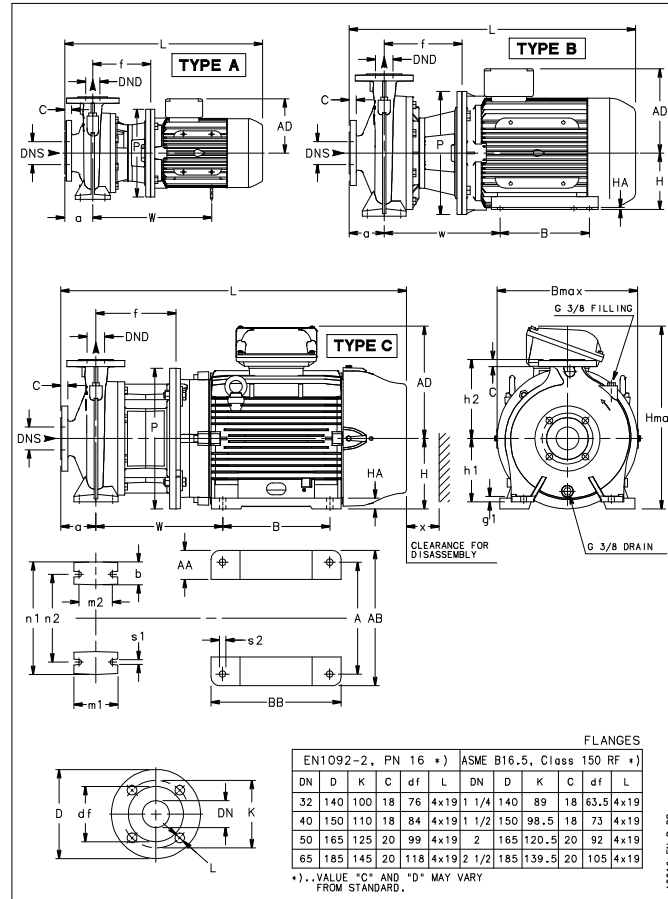
NSCS50-250/220/P26PCS4

Dimensions

Company name
Contact
Phone number
e-mail address

Blockpump B35
2 poles motor
PLM 180R B35 22 kW

Electrical and dimensional data refer to IE3 motor



Value C, D may vary from Standard

Dimensions [inch]

a	3 ⁵ / ₁₆		
AD	9 ⁷ / ₁₆		
b	2 ⁹ / ₁₆		
DNd	1 ¹⁵ / ₁₆		
DNS	2 ⁹ / ₁₆		
g1	5 ⁵ / ₈		
h1	7 ⁷ / ₁₆		
h2	8 ⁷ / ₈		
Hmax	16 ⁹ / ₁₆		
m1	4 ¹⁵ / ₁₆		
m2	3 ³ / ₄		
n1	12 ⁵ / ₈		
n2	9 ¹³ / ₁₆		
P	13 ³ / ₄		
s1	9 ⁹ / ₁₆		
x	4 ⁵ / ₁₆		

Weight

Total weight	On demand kg
---------------------	---------------------

Connections

Suction nozzle		Discharge nozzle	
DN 65		DN 50	
PN 16		PN 16	
EN1092-2		EN1092-2	
C	1 ³ / ₁₆	C	1 ³ / ₁₆
D	7 ⁵ / ₁₆	D	6 ¹ / ₂
df	4 ⁵ / ₈	df	3 ⁷ / ₈
DN	2 ⁹ / ₁₆	DN	1 ¹⁵ / ₁₆
K	5 ¹¹ / ₁₆	K	4 ¹⁵ / ₁₆
L	4 x 19	L	4 x 19

Dimensions and weight without obligation

Project	Xylect-20178266
Block	NSCS50-250/370/L26UCS4

Created by
Created on 1/10/2025

Last update 1/10/2025