

NSCF 80-250/450/L25VCC4

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	[F] = 2 poles motor unit with standard cuopling			Impeller Ø	Max.	mm	259	
11	Design	Horizontal				designed	mm	227	
12	Operating speed	2900 rpm	Stages	1		Min.	mm	214	
13	Suction nozzle	DN 100	/	PN 16	/	EN1092-2	Nominal	m³/h	
14	Discharge nozzle	DN 80	/	PN 16	/	EN1092-2	Max-	m³/h	246.2
15	Max. casing pressure	kPa	725.3			Flow	Min-	m³/h	55
16	Max. working pressure	kPa							
17	Impeller type	Radial impeller			Head	Nominal	m		
18	Head H(Q=0)	m	74	at Qmax		m	52		
19	Max. shaft power	kW	44.4	at Qmin		m	75.2		
20	Pump weight	kg	86	Shaft power		kW			
21	Total weight	kg	402.2	Efficiency		%			
				NPSH 3%		m			

Materials

22	Pump		Shaft Seal	
23	Volute Casing	Cast Iron	Single mechanical seal, without shaft sleeve	
24	Casing Cover	Cast Iron	eMG12 - Ø38mm	BQ7EGG-WA
25	Impeller	Cast Iron	Mechanical seal diameter	38 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)
32				
33				
34				
35				
36				
37				
38				
39				
40				
41				

Motor data

Electrical and dimensional data refer to IE3 motor

Coupling

42	Manufacturer	Lowara		Manufacturer	Flender	
43	Specific design	IE3 3ph Surface Motor - Premium Efficiency		Series	Standard Coupling - N-EUPEX - Type B	
44	Type	3MAS 225 M B3 45 kW		Shaft diameter	Pump 32 mm	Motor 55 mm
45	Rated power	45 kW	Rated current	76.4 A	Frame size	125
46	Nominal speed	2975 rpm	Rated voltage	400 V	Spacer length	mm 3
47	Frame size	225 M	Service factor	1	Weight	kg 5.2
48	Weight	kg 255.7	Degree of protection	IP55	Coupling protection	COUPLGUARD 190KS95-16 4571 0.7 kg

Base plate

49	Name	BASE 7C 1400X610 BLU		Remarks		
50	Weight	kg	54.6			

Project	Xylect-20101351	Created by		Last update	12/15/2024
Block	NSCF 80-250/750/L25VCC4 E4	Created on	12/15/2024		

NSCF 80-250/450/L25VCC4

Performance curve

Company name
Contact
Phone number
e-mail address

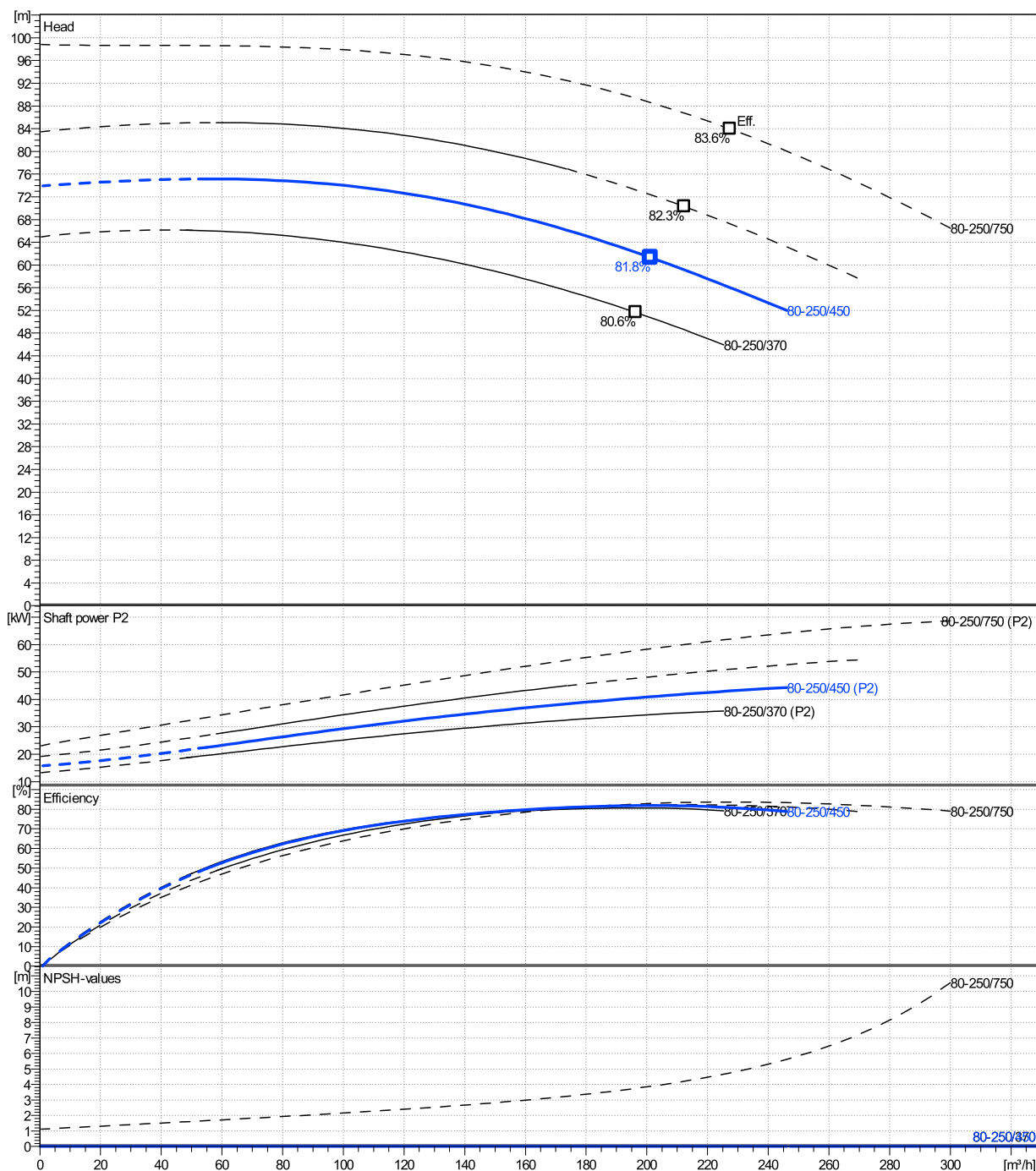
	Ø mm	Pump capacity Operating range			Pump head		Shaft power P2			Frequency		Hz
		Min. m³/h	Max. m³/h	η Max. m³/h	H(Q=0) m	η Max. m	P2(Q=0) kW	Max. kW	η Max. kW	Operating speed	rpm	
actual	227	55	246	201	73.9	61.3		44.4	41	Nominal flow	m³/h	0
Min.	0	/	/	196	65	51.6		/	34.1	Nominal head	m	0
Max.	259	/	/	227	98.8	83.9		/	62.1	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



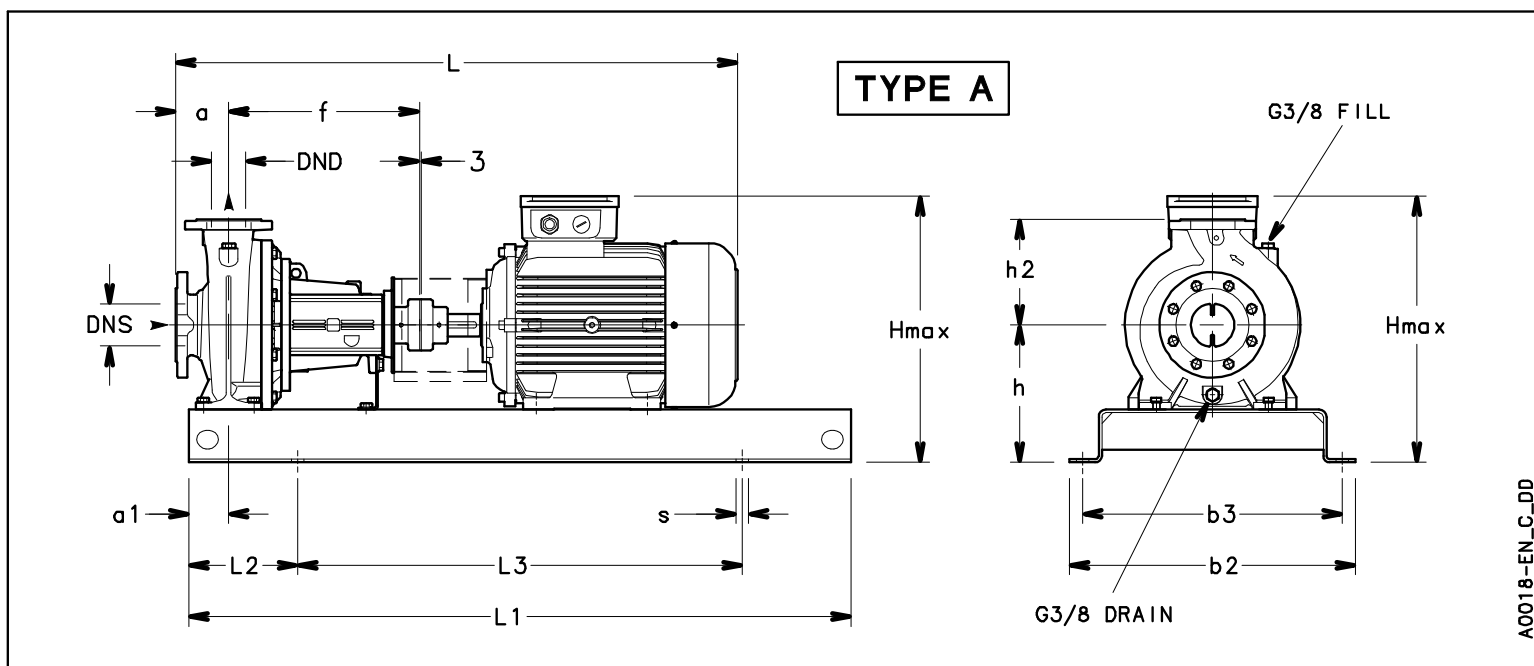
NSCF 80-250/450/L25VCC4

Dimensions

Company name
Contact
Phone number
e-mail address

Frame mounted
[F] = 2 poles motor unit with standard coupling
3MAS 225 M B3 45 kW

Electrical and dimensional data refer to IE3 motor



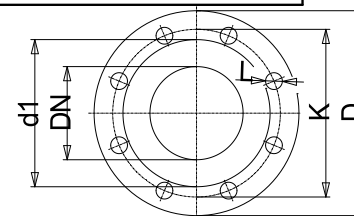
Dimensions		[mm]
a	125	
a1	90	
AD	323	
b2	610	
b3	550	
DND	80	
DNS	100	
f	470	
Guard	193	
h	365	
h2	280	
Hmax	688	
L	1409	
L1	1400	
L2	230	
L3	940	
s	4xØ28	
Type	A	
Volumen	0.59133	
x	3	

Weight

Total weight	402.2 kg
--------------	----------

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

Project	Xylect-20101351	Created by		Last update	12/15/2024
Block	NSCF 80-250/750/L25VCC4 E4	Created on	12/15/2024		