

NSCF 200-400/1600/L45VDC4 E4

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	Advanced, Grease lubrication [Std]										
10	Execution	Standard coupling			Impeller Ø	Max.	mm	409				
11	Design	Horizontal				designed	mm	409				
12	Operating speed	1490 rpm	Stages	1		Min.	mm	328				
13	Suction nozzle	DN250	/	PN16	/	EN1092-2	Nominal	m³/h				
14	Discharge nozzle	DN200	/	PN16	/	EN1092-2	Flow	Max-	m³/h	960		
15	Max. casing pressure	kPa				Min-	m³/h	170				
16	Max. working pressure	kPa	590				Head	Nominal	m			
17	Impeller type	Radial impeller						at Qmax	m	37		
18	Head H(Q=0)	m	60							at Qmin	m	59.9
19	Max. shaft power	kW	132.1				Shaft power		kW			
20	Pump weight	kg	363				Efficiency		%			
21	Total weight	kg	1,687.3				NPSH 3%		m			

Materials

22	Pump		Shaft Seal	
23	Volute Casing	Ductile Iron, EN-GJS-400-15, ASTM A536 40-60-18	Single mechanical seal, without shaft sleeve	
24	Impeller	Cast Iron, EN 1561 - GJL-200, ASTM Class 30	eMG12 - Ø70mm	BQ7EGG-WA
25	Casing Cover	Ductile Iron, EN-GJS-400-15, ASTM A536 40-60-18	Mechanical seal diameter 70 mm	
26	Shaft	Stainless steel, 1.4057, AISI 431	1. Rotating ring	Carbon graphite resin impregnated
27	Wear ring	Stainless steel, 1.4301, AISI 304	2. Stationary ring	SiC, silicon carbide, sintered press.less
28	Impeller lock nut and washer	A4 (1.4401)	3. Secondary seal	Ethylene propylene rubber (EPDM)
29	Impeller key	Stainless steel, 1.4571, AISI 316Ti	4. Springs	CrNiMo - Steel
30	Fill and drain plugs	Galvanized carbon steel, EN 10277-3, AISI 1213 / 1215	5. Others	EPDM - WRAS
31	Bearing bracket	Cast Iron, EN 1561 - GJL-250, ASTM Class 35	Gaskets of the pump Ethylene propylene rubber (EPDM)	
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Motor data

Electrical and dimensional data refer to IE4 motor

Coupling

42	Manufacturer	Lowara		Manufacturer	Flender	
43	Specific design	IE4 3ph Surface Motor - Super Premium Efficiency		Series	Standard Coupling - N-EUPEX - Type B	
44	Type	3MGS 315 M B3 160 kW E4		Shaft diameter	Pump 60 mm	Motor 80 mm
45	Rated power	160 kW	Rated current	280 A	Frame size	200
46	Nominal speed	1490 rpm	Rated voltage	400 V	Spacer length	mm 4
47	Frame size	315 M	Service factor	1	Weight	kg 16.0
48	Weight	kg 1,068.3	Degree of protection	IP55	Coupling protection	GR.COUPLGUARD ES60-310-23 A4 3.5 kg

Base plate

49	Name	FRAME 60NSC80A-400-315	Remarks
50	Weight	kg 236.5	

Project	Xylect-20100394	Created by		Last update	12/14/2024
Block	NSCF 200-400/1600/L45VDC4 E4	Created on	12/14/2024		

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Performance curve

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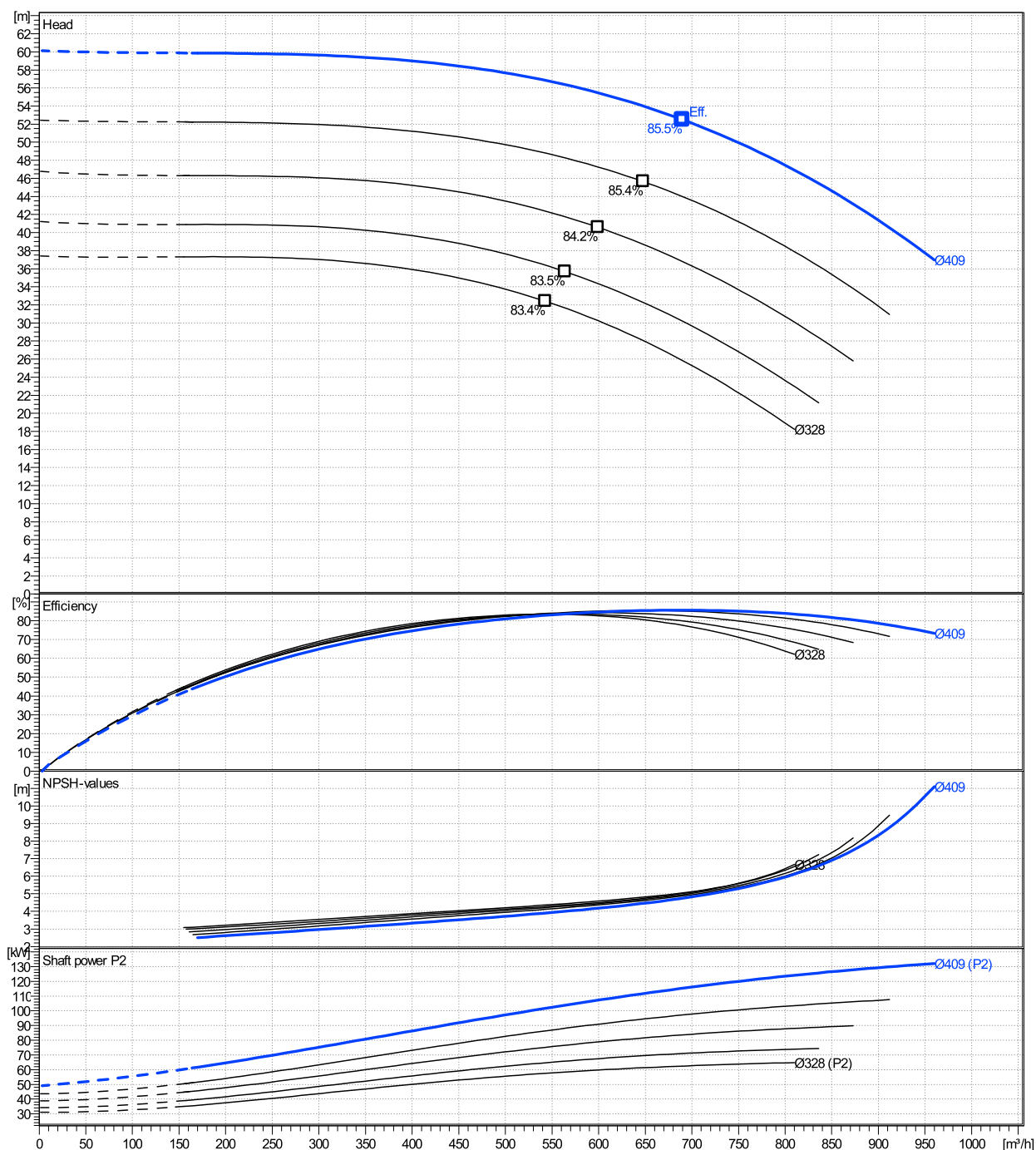
	Ø mm	Pump capacity			Pump head		Shaft power P2			Frequency	Hz	50
		Operating range Min. m³/h	Max. m³/h	η Max. m³/h	H(Q=0) m	η Max. m	P2(Q=0) kW	Max. kW	η Max. kW	Operating speed	rpm	1490
actual	409	170	960	690	60.1	52.5		132	115	Nominal flow	m³/h	0
Min.	0	/	/	543	37.4	32.4		/	57.5	Nominal head	m	0
Max.	409	/	/	690	60.1	52.5		/	115	Inlet pressure	kPa	0
										Static head	m	0

Power datas referred to:

hydr. Performance acceptance acc. To EN ISO 9906 Class Grade 2B

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

MEI: 0,51 - according to Ecodesign Directive 2009/125/EC and Regulation (EU) No.547/2012



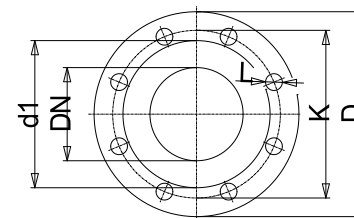
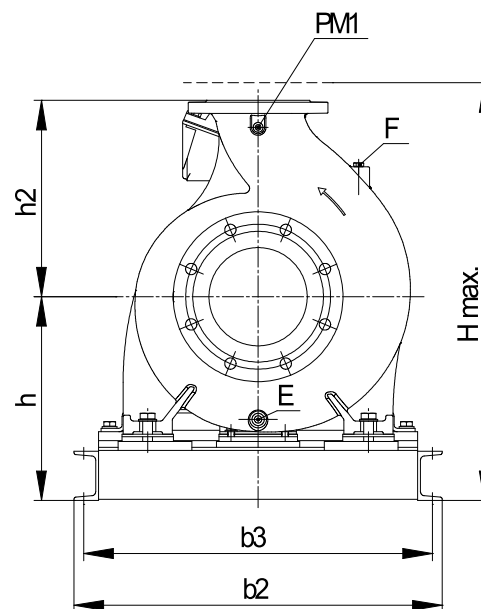
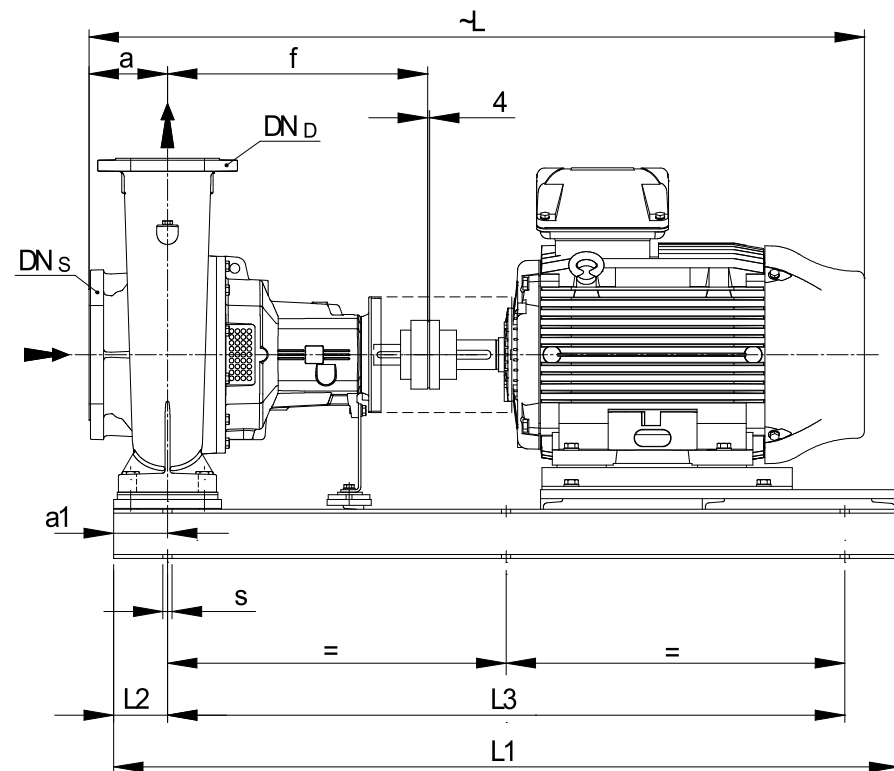
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Dimensions

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Frame mounted
Standard coupling
3MGS 315 M B3 160 kW E4

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Value C, D may vary from Standard

Dimensions		[mm]	
a	180		
a1	165		
b2	860		
b3	810		
CTO	0		
DNd	200		
DNs	250		
E	1/2"		
F	-		
f	770		
Guard	314		
h	585		
h2	500		
Hmax	1110		
L	2109.5		
L1	2000		
L2	165		
L3	1670		
PM1	1/2"		
s	6xØ26		
Trim	0		
Volumen	2.0137		

Weight

Total weight	1687.3 kg
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Connections

Suction nozzle		Discharge nozzle	
DN250		DN200	
PN16		PN16	
EN1092-2		EN1092-2	
C	32	C	30
D	405	D	345
d1	319	d1	266
K	355	K	295
L	28	L	23
z	12	z	12

Dimensions and weight without obligation

Project Xylect-20100394
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