LOWARA
a xylem brand

NSCS125-400/900/L46UCC4 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	°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/ft³	62.4	
6	Inlet pressure	psi	0	Kin. viscosity at t A	ft²/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	42					
10	Execution	Standard Design (Type B)		Impeller Ø	Max.	inch	15 1/4
11	Design	Horizontal			designed	inch	15 1/4
12	Operating speed	1780 rpm	Stages 1		Min.	inch	13 3/8
13	Suction nozzle	DN150 / PN10/16 / EN1092-2		Flow	Nominal	US g.p.m.	
14	Discharge nozzle	DN125 / PN10/16 / EN1092-2			Max-	US g.p.m.	1926.3
15	Max. casing pressure	psi			Min-	US g.p.m.	217.1
16	Max. working pressure	psi	109.8	Head	Nominal	ft	
17	Impeller type		Radial impeller		at Qmax	ft	161.2
18	Head H(Q=0)	ft	250		at Qmin	ft	253.4
19	Max. shaft power	hp	115.5	Shaft power		hp	
20	Pump weight	kg		Efficiency		%	
21	Total weight	lb	On demand	NPSH 3%		ft	

Materials

	Pump		Shaft Seal	
22				
23	Volute Casing	Cast Iron, EN 1561 - GJL-250, ASTM Class 35	Single mechanical seal, without shaft sleeve	
24	Impeller	Cast Iron, EN 1561 - GJL-200, ASTM Class 30	eMG12 - Ø48mm	BQ7EGG-WA
25	Casing Cover	Cast Iron, EN 1561 - GJL-250, ASTM Class 35	Mechanical seal diameter	1 7/8 inch
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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33				
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Motor data

Electrical and dimensional data refer to IE4 motor

42	Manufacturer	Lowara		
43	Specific design	IE4 3ph Flange Motor - Super Premium Efficiency		
44	Type	3MGS 280 M B35 90 kW E4		
45	Rated power	120.69 hp	Rated current	165 A
46	Nominal speed	1788 rpm	Rated voltage	380 V
47	Frame size	280 M	Service factor	1
48	Weight lb	1,808.9	Degree of protection	IP55

Remarks

49	
50	
50	
52	

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Performance curve

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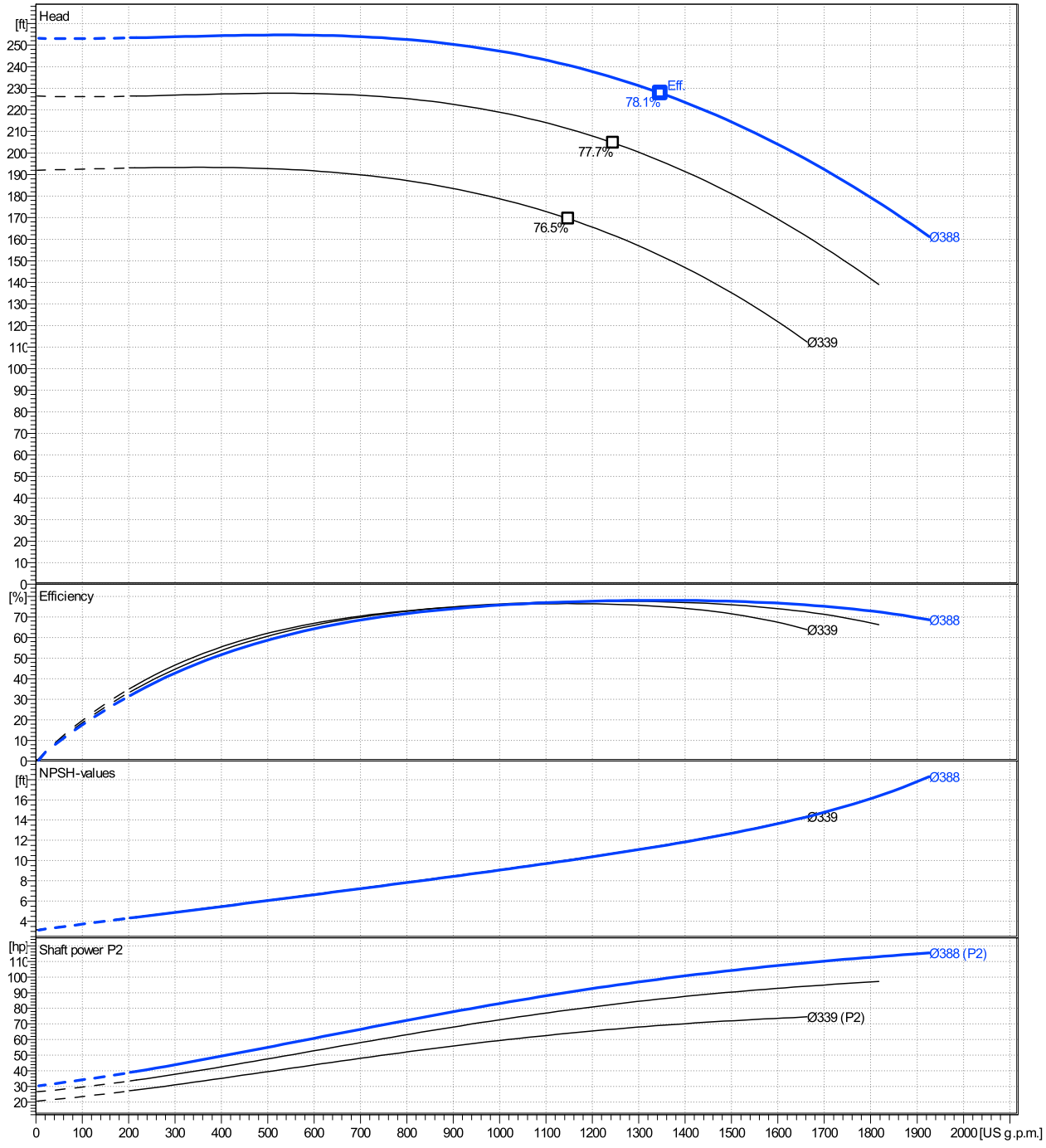
	Ø	Pump capacity Operating range Min.	Max.	η Max.	Pump head H(Q=0)	η Max.	Shaft power P2 P2(Q=0)	Max.	η Max.			
	mm	US g.p.m.	US g.p.m.	US g.p.m.	ft	ft	hp	hp	hp			
actual	15 1/4	217	1930	1350	253	228		115	98.7	Frequency	Hz	60
Min.	0	/	/	1150	192	169		/	64	Operating speed	rpm	1780
Max.	15 1/4	/	/	1350	253	228		/	98.7	Nominal flow	US g.p.m.	0
										Nominal head	ft	0
										Inlet pressure	psi	0
										Static head	ft	0

Power datas refered to:

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

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

MEI: >=0,70 - according to Ecodesign Directive 2009/125/EC and Regulation (EU) No.547/2012



Project	Xylect-20178897		**Created by**		**Last update** 1/10/2025
Block	NSCS125-400/900/L46UCC4 E4		**Created on**	1/10/2025	

Program version: 75.0 - 06/11/2024 (Build 274)
Data version: 15/12/2024 18:59
User group(s): Xylem:United Kingdom - EXT

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Dimensions

Company name
Contact
Phone number
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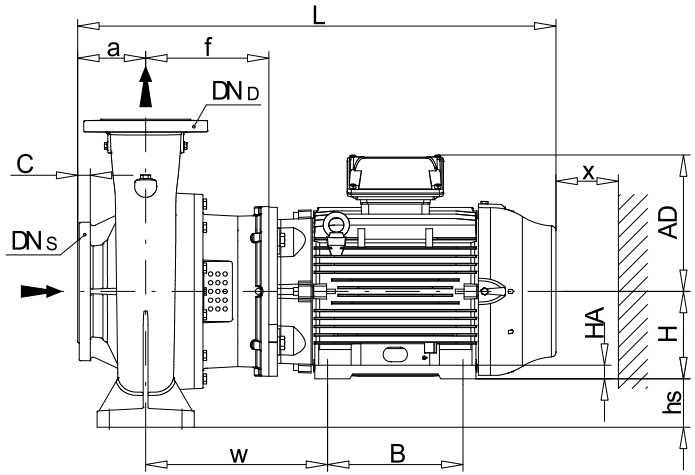
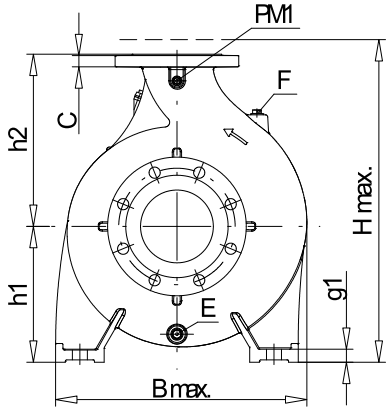
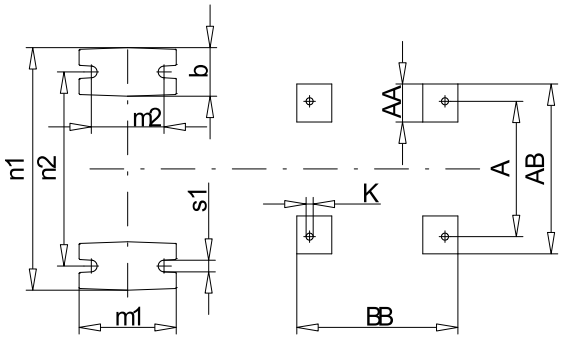
Blockpump
Standard Design (Type B)
3MGS 280 M B35 90 kW E4

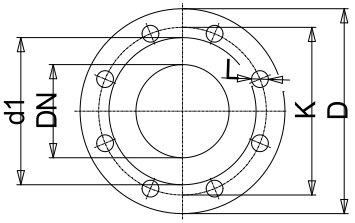
Electrical and dimensional data refer to IE4 motor







PM1..Pressure gauge connector
E....Drain
F....Filling



Value C, D may vary from Standard

Dimensions [inch]

a	$5^{1}/_{2}$	m1	$7^{7}/_{8}$
A	18	m2	$5^{7}/_{8}$
AA	$4^{5}/_{16}$	n1	$19^{11}/_{16}$
AB	$23^{7}/_{8}$	n2	$15^{3}/_{4}$
AD	$16^{1}/_{4}$	P	$21^{5}/_{8}$
b	$3^{15}/_{16}$	PM1	1/4"
B	$16^{1}/_{2}$	s1	$^{7}/_{8}$
BB	$19^{5}/_{16}$	Trim	
Bmax	$23^{7}/_{8}$	Type	B
CTO		w	$18^{11}/_{16}$
DNd	$4^{15}/_{16}$	x	$5^{1}/_{2}$
DNs	$5^{7}/_{8}$		
E	3/8"		
f	$11^{3}/_{16}$		
F	3/8"		
g1	$1^{1}/_{32}$		
H	$11^{1}/_{32}$		
h1	$12^{3}/_{8}$		
h2	$15^{3}/_{4}$		
h3			
HA	$1^{3}/_{4}$		
Hmax	$28^{11}/_{16}$		
hs	$1^{3}/_{8}$		
K	$^{15}/_{16}$		

Weight

Total weight	On demand kg

Connections

Suction nozzle		Discharge nozzle	
DN150		DN125	
PN10/16		PN10/16	
EN1092-2		EN1092-2	
C	$1^{1}/_{32}$	C	$1^{1}/_{32}$
D	$11^{1}/_{4}$	D	$10^{1}/_{16}$
d1	$8^{5}/_{16}$	d1	$7^{1}/_{4}$
K	$9^{7}/_{16}$	K	$8^{1}/_{4}$
L	$^{7}/_{8}$	L	$^{3}/_{4}$
z	$^{5}/_{16}$	z	$^{5}/_{16}$

Dimensions and weight without obligation

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