LOWARA
a xylem brand

NSCEX 40-250/220/204CS4

Technical data

Company name
Contact
Phone number
e-mail address

Operating data

1	Pumpe type	Horizontal		Fluid	Water, pure		
2	No. of pumps		1	Operating temperature t A		°C	4
3	Nominal flow	m³/h	0	pH-value at t A			7
4	Nominal head	m	0	Density at t A		kg/m³	1000
5	Static head	m	0	Vapor pressure at t A		kPa	100
6	Inlet pressure	kPa	0	Kin. viscosity at t A		mm²/s	1.569
7	Environmental temperature	°C	20	Altitude			0
8	Available system NPSH	m	0				

Pump data

9	Product version		[X] - Hydrovar X+
10	Operating speed		
11	Stages		1
12	Max. working pressure	kPa	1119.7
13	Head H(Q=0)	m	110
14	Power input P1(max)	kW	24
15	Total weight	kg	117.0
16	Power input	kW	
17	Overall efficiency	%	
18	Shaft power	kW	
19	Pump efficiency	%	
20	NPSH 3%	m	
21			

Materials

	Pump		Shaft Seal	
22				
23	Volute Casing	Cast Iron	Single mechanical seal, without shaft sleeve	
24	Casing Cover	Cast Iron	eMG12 - Ø22mm	BQ7EGG-WA
25	Impeller	Fabricated Stainless Steel		
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

42	Manufacturer	Xylem	Rated voltage		380-480V
43	Specific design	IE5 Three phase motor	Rated current		38,9-32,4 A
44	Type	EXM180B14/4.220DH2	Motor efficiency	@400V %	4/4: 92.6 3/4: 92.1 2/4: 91
45	Rated power	22 kW	Power factor	@400V	0.93
46	Nominal speed	3600 rpm	Weight	kg	81.4
47	Frame size	180			
48	Size	D			

Remarks

49	
50	
50	
52	

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Performance curve

Company name
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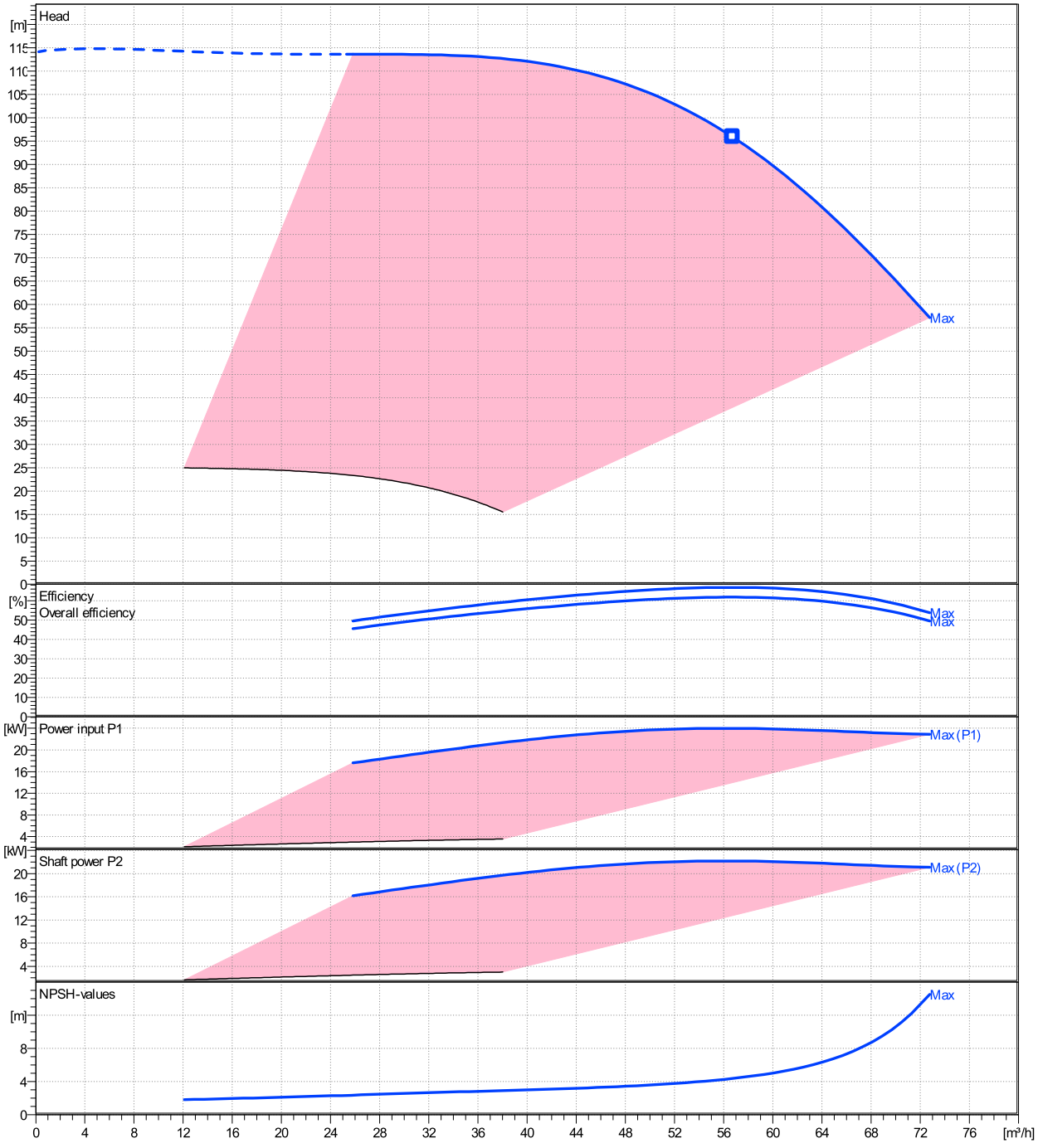
Ø	Pump capacity Operating range Min. m³/h	Max. m³/h	η Max. m³/h	Pump head H(Q=0) m	η Max. m			
Max.	25.8	72.8	56.7	114	95.9			

Frequency	Hz	50/60
Operating speed	rpm	
Nominal flow	m³/h	0
Nominal head	m	0
Inlet pressure	kPa	0
Static head	m	0

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

Power datas refered to:

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



Project	Xylect-20352649		Created by		Last update 7/22/2024
Block	NSCEX 40-250/220/204CS4		Created on	7/22/2024	

Program version: 74.0 - 01/07/2024 (Build 136)
Data version: 20/07/2024 09:47
User group(s): Xylem: United Kingdom - EXT

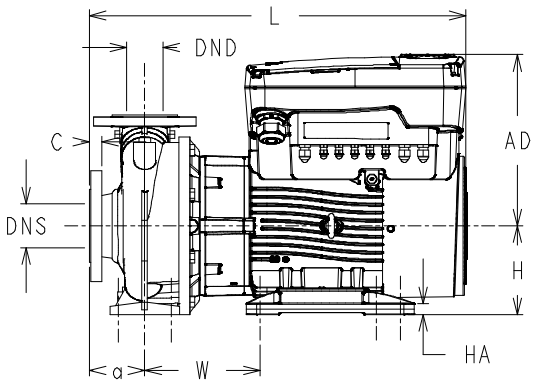
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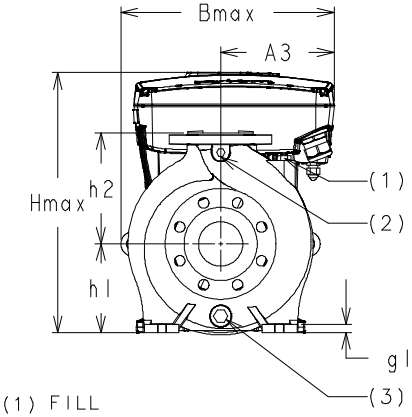
NSCEX 40-250/220/204CS4

Dimensions

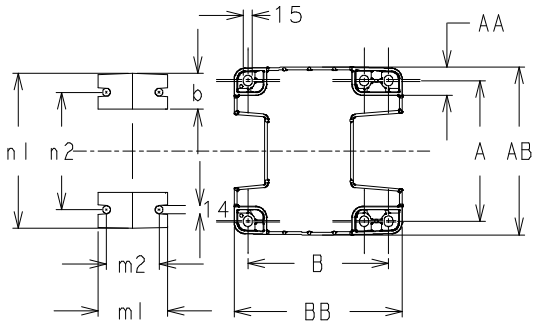
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[X] - Hydrovar X+
EXM180B14/4.220DH2



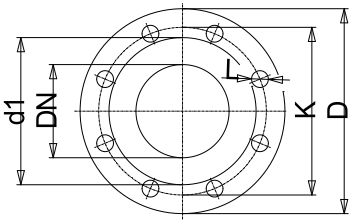


(1) FILL
(2) PRESSURE GAUGE CONNECTOR
(3) DRAIN



Dimensions			[mm]
(1)	G1/8	Hmax	492
(2)	G1/4	L	680
(3)	G3/8	m1	125
a	100	m2	95
A	241	n1	320
A3	205	n2	250
AA	50	Type	B
AB	294	W	221
AD	312	x	300
B	279		
b	65		
BB	338		
Bmax	385		
DND	40		
DNS	65		
g1	16		
H	180		
h1	180		
h2	225		
HA	22		

Weight	
Total weight	**117 kg**



Value C, D may vary from Standard

Connections			
EN1092-2		**EN1092-2**	
DN 65		**DN 40**	
PN 16		**PN 16**	
C	20	C	18
D	185	D	150
df	118	df	84
DN	65	DN	40
K	145	K	110

Dimensions and weight without obligation

Project	**Xylect-20352649**	**Created by**		**Last update**	**7/22/2024**
Block	**NSCEX 40-250/220/204CS4**	**Created on**	**7/22/2024**		

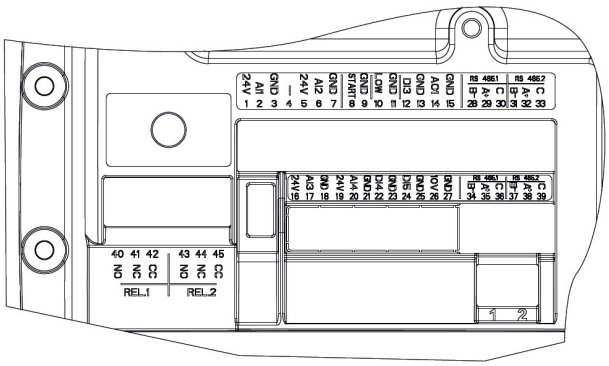
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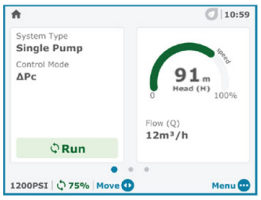
Technical data

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REF.	ITEM	DESCRIPTION	DEFAULT
1	Analog Input 1	Power supply +24 VDC, max. 60mA (total, terminals 1 + 5)	Pressure Sensor 1
2		Configurable Analog Input 1	
3		Electronic GND	
4	Not used	Internal use - Do not connect	
5	Analog Input 2	Power supply +24 VDC, max. 60mA (total, terminals 1 + 5)	Not used
6		Configurable Analog Input 2	
7		Electronic GND	
8	External Start/Stop	Start/Stop digital input, +24 VDC internal pull-up, 6mA contact current	-
9		Electronic GND	
10	External Lack of Water	Low water digital input, +24 VDC internal pull-up, 6mA contact current	-
11		Electronic GND	
12	Digital Input 3	Configurable Digital Input 3, +24 VDC internal pull-up, 6mA contact current	Solo Run
13		Electronic GND	
14	Analog Output	Configurable Analog Output	Motor Speed
15		Electronic GND	
16	Analog Input 3	Power supply +24 VDC, max. 60mA (total, terminals 16 and 19)	Not used
17		Configurable Analog Input 3	
18		Electronic GND	
19	Analog Input 4	Power supply +24 VDC, max. 60mA (total, terminals 16 and 19)	Not used
20		Configurable Analog Input 4	
21		Electronic GND	
22	Digital Input 4	Configurable Digital Input 4, +24 VDC internal pull-up, 6mA contact current	Not used
23		Electronic GND	
24	Digital Input 5	Configurable Digital Input 5, +24 VDC internal pull-up, 6mA contact current	Not used
25		Electronic GND	
26	10 VDC supply	Power supply +10 VDC, max. 3mA	-
27		Electronic GND	
28	Communication bus 1	RS485 port 1: RS485-1B N (-)	Multipump
29		RS485 port 1: RS485-1A P (+)	
30		RS485 port 1: RS485-COM	
31	Communication bus 2	RS485 port 2: RS485-2B N (-)	Modbus
32		RS485 port 2: RS485-2A P (+)	
33		RS485 port 2: RS485-COM	
34	Communication bus 1	RS485 port 1: RS485-1B N (-)	Multipump
35		RS485 port 1: RS485-1A P (+)	
36		RS485 port 1: RS485-COM	
37	Communication bus 2	RS485 port 2: RS485-2B N (-)	Modbus
38		RS485 port 2: RS485-2A P (+)	
39		RS485 port 2: RS485-COM	
40	Relay 1	Configurable relay 1: Normally Open	Running
41		Configurable relay 1: Normally Closed	
42		Configurable relay 1: Common Contact	
43	Relay 2	Configurable relay 2: Normally Open	Error
44		Configurable relay 2: Normally Closed	
45		Configurable relay 2: Common Contact	