

NSCS 80-250/75/P45VCC4

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	4 poles motor			
11	Design	Horizontal			
12	Operating speed	1450 rpm	Stages	1	
13	Suction nozzle	DN 100 /	PN 16 /	EN1092-2	
14	Discharge nozzle	DN 80 /	PN 16 /	EN1092-2	
15	Max. casing pressure	kPa		Impeller Ø	Max. mm 259
16	Max. working pressure	kPa 205.5			designed mm 241
17	Impeller type	Radial impeller			Min. mm 214
18	Head H(Q=0)	m 21		Flow	Nominal m³/h
19	Max. shaft power	kW 6.7			Max- m³/h 150.5
20	Pump weight	kg			Min- m³/h 30.1
21	Total weight	kg 133.0		Head	Nominal m
					at Qmax m 11.9
					at Qmin m 20.8
				Shaft power	kW
				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					
42	Manufacturer	Lowara			
43	Specific design	IE3 3ph Flange Motor - Premium Efficiency			
44	Type	PLM 132 B5 7,5 kW			
45	Rated power	7.5 kW	Rated current	15.2 A	
46	Nominal speed	1455 rpm	Rated voltage	400 V	
47	Frame size	132	Service factor	1	
48	Weight	kg 66.6	Degree of protection	IP55	

Remarks					
49					
50					
50					
52					

NSCS 80-250/75/P45VCC4

Performance curve

Company name
Contact
Phone number
e-mail address

	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	1450
actual	241	30.1	150	104	21	17.1	6.7	5.98	Nominal flow	m³/h	0	
Min.	0	/	/	97.4	16.4	12.7	/	4.18	Nominal head	m	0	
Max.	259	/	/	116	24.1	20.3	/	7.81	Inlet pressure	kPa	0	
									Static head	m	0	

Power datas referred to:

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

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

MEI: >=0,4



