

NSCF 80-200/450/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			
11	Design	Horizontal			
12	Operating speed	2900 rpm	Stages	1	
13	Suction nozzle	DN 100 / PN 16 / EN1092-2	Impeller Ø	Max.	mm 219
14	Discharge nozzle	DN 80 / PN 16 / EN1092-2		designed	mm 219
15	Max. casing pressure	kPa	Flow	Min.	mm 181
16	Max. working pressure	kPa 665.3		Nominal	m³/h
17	Impeller type	Radial impeller	Head	Max-	m³/h 282
18	Head H(Q=0)	m 68		Min-	m³/h 65
19	Max. shaft power	kW 38.3		Nominal	m
20	Pump weight	kg 83	Shaft power	at Qmax	m 43.7
21	Total weight	kg 398.8		at Qmin	m 67.7
			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)
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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 7B 1400X610 BLU			
50	Weight	kg	54.2	Remarks	

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Performance curve

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	Ø mm	Pump capacity			Pump head		Shaft power P2			Frequency		Hz
		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		
actual	219	65	282	218	67.8	56.1		38.3	39.9	Nominal flow	m³/h	0
Min.	0	/	/	186	43.5	33.1		/	21.1	Nominal head	m	0
Max.	219	/	/	218	67.8	56.1		/	39.9	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



