

ESHS 80-200/30/P46PSNA

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 / -10
4	Nominal head	ft	0	pH-value at t A	7
5	Static head	ft	0	Density at t A	lb/ft ³ 62.4
6	Inlet pressure	psi	0	Kin. viscosity at t A	ft ² /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	Standard, Grease lubrication [Std]				
10	Execution					
11	Design	Horizontal		Impeller Ø	Max. inch	7 5/16
12	Operating speed	1750 rpm	Stages 1		designed inch	6 15/16
13	Suction nozzle	DN 100 /	PN 16 /	Flow	Min. inch	6 15/16
14	Discharge nozzle	DN 80 /	PN 16 /		Nominal US g.p.m.	
15	Max. casing pressure	psi	174	Max- US g.p.m.	528.3	
16	Max. working pressure	psi	21.3	Min- US g.p.m.	198.1	
17	Impeller type	Radial impeller		Head	Nominal ft	
18	Head H(Q=0)	ft	49		at Qmax ft	18.7
19	Max. shaft power	hp	3.9		at Qmin ft	44.3
20	Pump weight	kg		Shaft power	hp	
21	Total weight	lb	158.7	Efficiency	%	
				NPSH 3%	ft	

Materials					
22		Pump		Shaft Seal	
23	Pump body	Stainless steel / AISI 316L		Single mechanical seal, without shaft sleeve	
24	Impeller	Stainless steel / ASTMCF8M		Uniten 3K	VBVGG
25	SEAL HOUSING	Stainless steel / AISI 316L		Mechanical seal diameter	1 1/8 inch
26	Wear ring	Stainless steel / AISI 316L		1. Rotating ring	Ceramic
27	Counterwear ring	Stainless steel / AISI 316L		2. Stationary ring	Carbon graphite resin impregnated
28	Rigid shaft coupling	Stainless steel / AISI 316L		3. Secondary seal	Fluorine rubber (FKM)
29	Impeller locknut and washer	Stainless steel / AISI 316		4. Springs	CrNiMo - Steel
30	Tab	Stainless steel / AISI 316L		5. Others	CrNiMo - Steel
31	Fill/drain plugs	Stainless steel / AISI 316		Gaskets of the pump	Fluorine rubber (FKM)
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Motor data					
Electrical and dimensional data refer to IE3 motor					
42	Manufacturer	Lowara PLM			
43	Specific design	IE3 3ph Flange Motor - Premium Efficiency			
44	Type	PLM 100 B5 3 kW			
45	Rated power	4.0231 hp	Rated current	6.66 A	
46	Nominal speed	1746 rpm	Rated voltage	380 V	
47	Frame size	100	Service factor	1	
48	Weight	lb 78.0	Degree of protection	IP55	

Remarks					
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Performance curve

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	Ø mm	Pump capacity Operating range η			Pump head H(Q=0) η		Shaft power P2 P2(Q=0) Max. η			Frequency Hz	
		Min. US g.p.m.	Max. US g.p.m.	Max. US g.p.m.	ft	ft	hp	hp	hp	rpm	
actual	6 15/16	198	528	374	49.2	32.9		3.9	3.88	Operating speed	1750
Min.	0	/	/	374	49.2	32.9		/	3.88	Nominal flow	US g.p.m. 0
Max.	7 5/16	/	/	376	55.5	39.6		/	4.77	Nominal head	ft 0
										Inlet pressure	psi 0
										Static head	ft 0

Power datas referred to:

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

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

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



