

Technical data

Pump name (*See Product description)EVM32 1-0F6/4

Customer	Date 2024-07-01	Company
Contact	Item no.	Issued by
Phone	Project	Phone
E-mail	Project ID Project redenumit 2024-07-01 19:11:	E-mail

Requested data

1	Pump type	VERTICAL MULTISTAGE PUMPS	Fluid	Water
2	Number of pumps / Reserve	1 / 0	Liquid temperature °C	20
3	Flow m³/h		Kin. viscosity mm²/s	1.005
4	Head m		Vapour pressure bar	0.0234
5	Geodetic head m		PH value	
6	Inlet pressure (pin) bar	0	Density kg/m³	998.3
7	Available system NPSH		Solids Weight %	0
8	Ambient temperature °C	20		

Pump

9	Pump name	(*See Product description)EVM32 1-0F6/4.0	Frequency Hz	60
10	Design	VERTICAL MULTISTAGE PUMPS	Installation type	Round flange
11	Manufacturer	EBARA	Impeller Diameter	Max. mm - Designed mm Min. mm -
12	Speed rpm	3480		
13	No. of Stage	1		
14	Connection Suction side		Flow	Operating m³/h
15	Connection Discharge side			Max- m³/h 48 Min- m³/h 15
16	Max Working Pressure bar	16		
17	Shut-off head bar	3.40	Head	Operating m - (Qmax.) m 16.5 - (Qmin.) m 31.3
18	Total weight kg	See the table of "Dimensions".		
19	Shaft power kW			
20			Max. Shaft Power at max. impeller kW	3.45
21	Required pump NPSH m		Efficiency %	

Materials

22	Impeller	AISI 304		
23	Intermediate casing	AISI 304		
24	Bottom casing	ASTMCF8		
25	Shaft	AISI 316L		
26				
27				

Motor

28	Manufacturer	ETM	Insulation class	F
29	Type	TEFC_EVM32 1-0F6/4.0_220_Three Phase	Phases	3~
30	Specific design	IE3 / 60 Hz / Pole pairs 1	Frame size	112 M
31	Rated power kW	4	Weight kg	28.5
32	Number of poles	2	Electric voltage V	220
33	Speed rpm	3525	Electric current A	13.5
34	Degree of protection	IP 55		
35				

Remarks

Performance curve

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Requested data

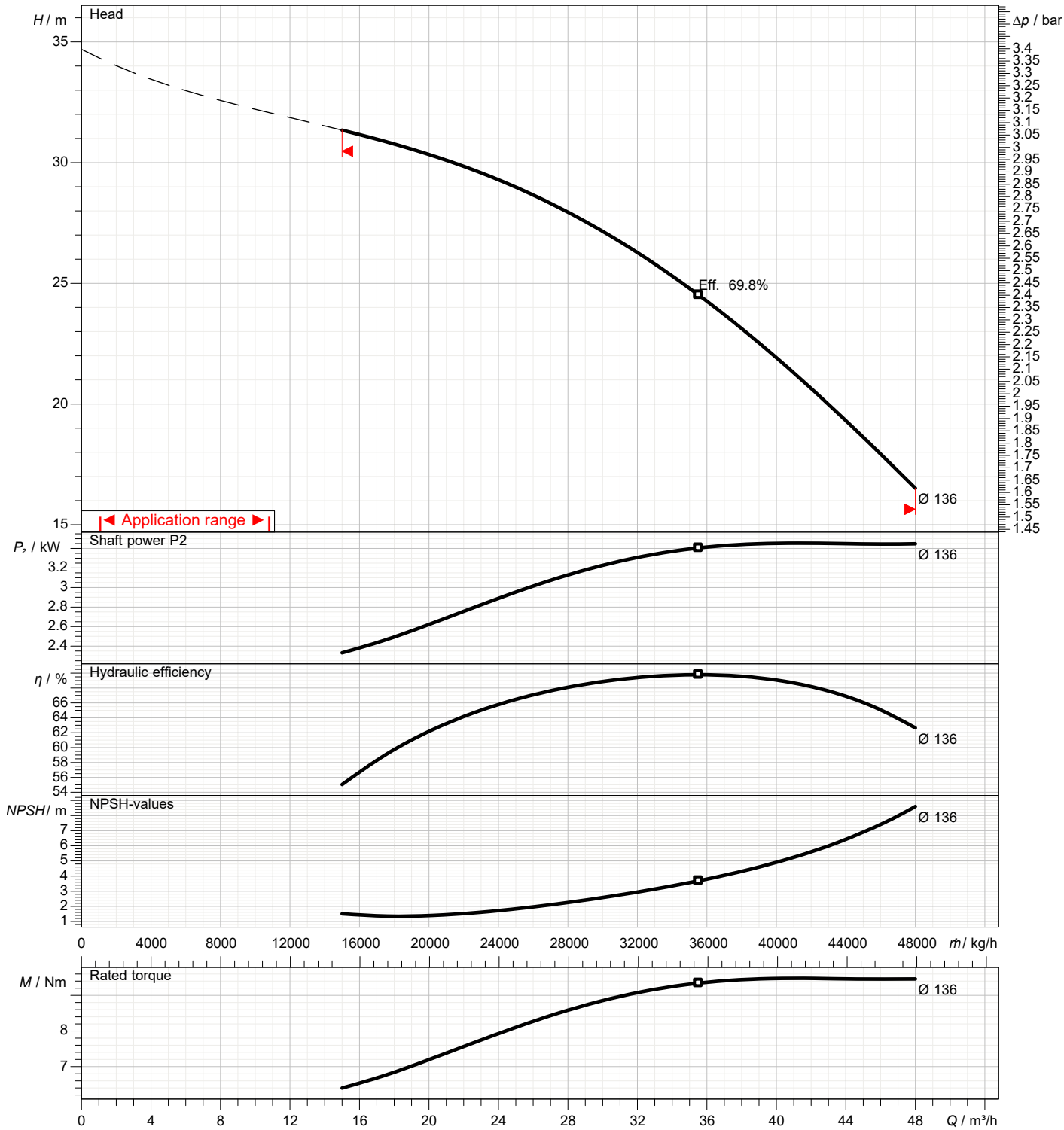
1	Flow	m³/h	
2	Head	m	
3	Geodetic head	m	

Pump

Operating flow	m³/h		Impeller Diameter Designed	mm	
Operating head	m		Frequency	Hz	60
			Speed	rpm	3480

Test standard: ISO 9906:2012 - Grade3B

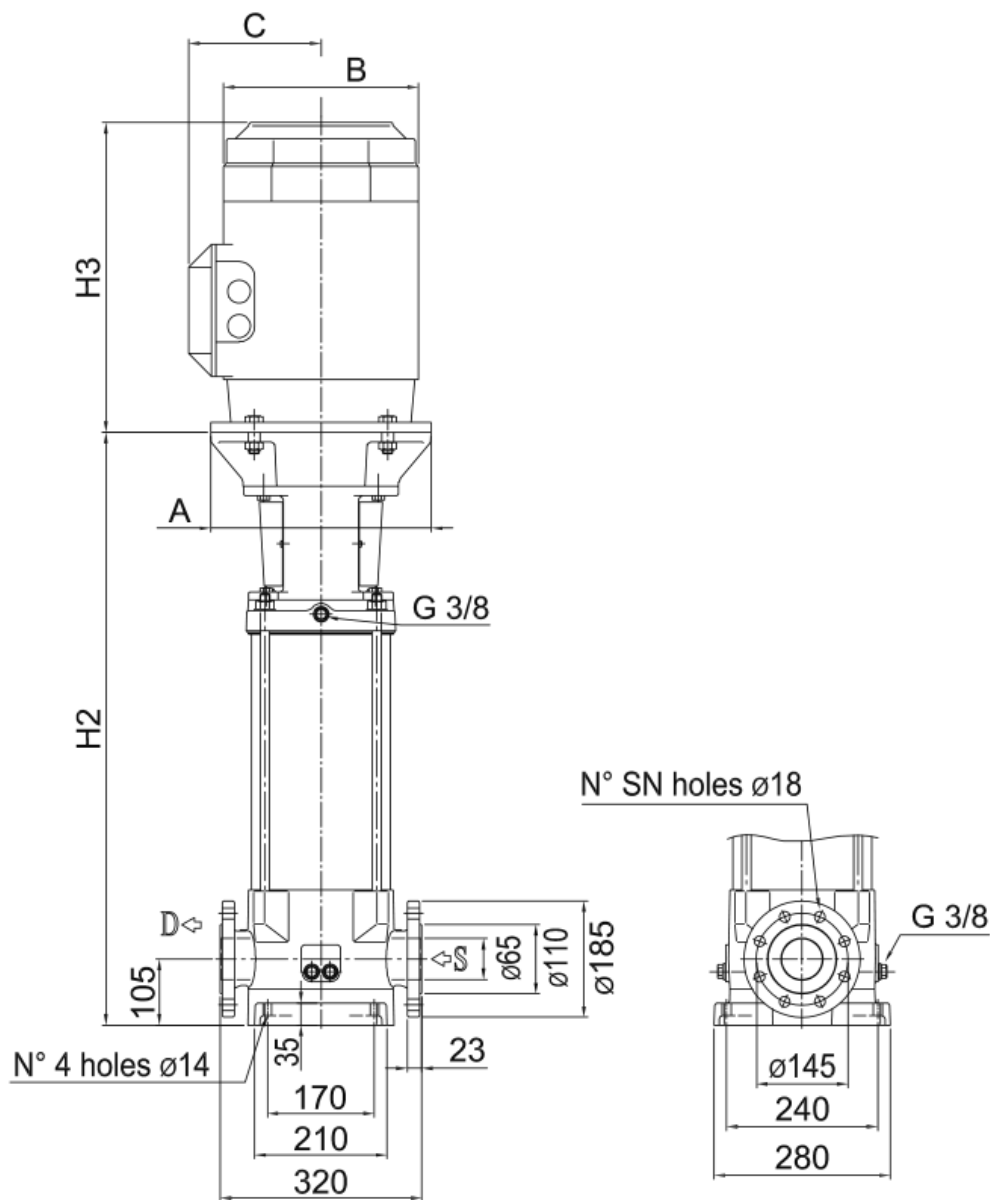
Water; 20°C; 998.3kg/m³; 1mm²/s



Dimensions

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Dimensions in mm								
1	A	160						
2	B	193						
3	C	138						
4	H2	503						
5	H3	364						
6	SN	4						
7	Weight P&M	[82].5 kg						
8								
9								
10								
11								
12								
13								
14								
15								

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Construction

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N°	PART NAME	MATERIAL		DIMENSIONS	STANDARD
		EVM	EVML		
5-1	Suction casing	EN 1.4301 (AISI 304)	EN 1.4404 (AISI 316L)		
5-3	Intermediate casing bearing	EN 1.4301 (AISI 304)	EN 1.4404 (AISI 316L)		
5-4	Discharge casing	EN 1.4301 (AISI 304)	EN 1.4404 (AISI 316L)		
6	Bottom casing	EN 1.4308 (ASTM CF8)	EN 1.4408 (ASTM CF8M)		
7	Outer casing	EN 1.4301 (AISI 304)	EN 1.4404 (AISI 316L)		
21	Impeller	EN 1.4301 (AISI 304)	EN 1.4404 (AISI 316L)		
31	Shaft	EN 1.4404 (AISI 316L)			
43-1	Shaft sleeve (mechanical seal)	EN 1.4301 (AISI 304)	EN 1.4404 (AISI 316L)		
43-3	Shaft sleeve (bearing)	EN 1.4301 (AISI 304)	EN 1.4404 (AISI 316L)		
43-4	Shaft sleeve (adjustment)	EN 1.4301 (AISI 304)	EN 1.4404 (AISI 316L)		
43-5	Shaft sleeve (last stage)	EN 1.4301 (AISI 304)	EN 1.4404 (AISI 316L)		
44-1	Shaft sleeve bearing	Tungsten carbide			
45	Flange holder	EN 1.402 (AISI 420)			
47	Ring Holder	EN 1.4301 (AISI 304)	EN 1.4404 (AISI 316L)		
48	Impeller nut	A2-70 UNI 7323 with inox insert	A4-70 UNI 7323 with inox insert	M16	
52-1	Bearing	Tungsten carbide			
75	O-Ring (plug)	EPDM	FPM		
75-1	O-Ring (plug)	EPDM	FPM		
107	Liner ring	PTFE / EN 1.4301 (AISI 304)	PTFE / EN 1.4404 (AISI 316L)		
111-1	Mechanical seal	[1]			
111-2	Mechanical seal cartridge	EN 1.4301 (AISI 304)	EN 1.4404 (AISI 316L)		
111-3	Mechanical seal seat	EN 1.4301 (AISI 304)	EN 1.4404 (AISI 316L)		
111-4	Seal holder	Brass OT 58 UNI 5705	EN 1.4404 (AISI 316L)		
111-5	Adjusting ring	EN 1.4301 (AISI 304)	EN 1.4401 (AISI 316)		
115-1	O-Ring (outer casing)	EPDM	FPM	D.208.91 X5.34	
115-4	O-Ring (cartridge sleeve)	EPDM	FPM	D. 24.99X3.53	
115-5	O-Ring (seal cover)	EPDM	FPM	D.44.04X3.53	
120-1	Tie-rod	Galvanized steel 6.8 strenght class ISO 898/1			
120-3	Screw (mechanical seal)	A2-70 UNI 7323		M5X10	UNI 5731
120-5	Screw for coupling	EVM32 1 EVM32 3 to 10	Galvanized steel 8.8 strenght class ISO 898/1	M8X20	UNI 5931
				M10X30	UNI 5739
				M8X20	UNI 5931
120-6	Screw for coupling	EVM32 1 to 3-3 EVM32 3-0 to 10-3	Galvanized steel 8.8 strenght class ISO 898/1	M12X30	UNI 5931
120-10	Screw (base plate)		Galvanized steel 8.8 strenght class ISO 898/1	M12X40	UNI 5739
120-13	Screw for motor	EVM32 1 EVM32 2-0 to 3-3 EVM32 3-0 to 10-3	Galvanized steel 8.8 strenght class ISO 898/1	M8X20	UNI 5739
				M12X30	UNI 5739
				M16X65	UNI 5739
128-1	Nut for tie rod	Galvanized steel		M 16	UNI 5588
130-1	Set screw	A2-70 UNI 7323		M6X8	UNI 5923
130-2	Screw for coupling guard	A2-70 UNI 7323		M5X6	UNI 7687
130-3	Set screw (mechanical seal)	A2-70 UNI 7323		M6X6	UNI 5923
130-4	Set screw (coupling pin)	Carbon steel		M 10X10	UNI 5923
131-1	Pin for shaft	Carbon Steel			
135-1	Washer (Tie rod)	Galvanized steel		17X30X3	UNI 6592
137-1	Impeller spacer	EN 1.4301 (AISI 304)	EN 1.4401 (AISI 316)		
140	Coupling	Brass OT 58 UNI 5705			
160	Base	Cast iron EN-GJL-200-EN 1561			
162	Motor bracket	Cast iron EN-GJL-200-EN 1561			
212	Plug	EN 1.4301 (AISI 304)	EN 1.4404 (AISI 316L)		
212-1	Plug	EN 1.4301 (AISI 304)	EN 1.4404 (AISI 316L)		
245	Coupling guard	EN 1.4301 (AISI 304)			
273	Plug Washer	EN 1.4301 (AISI 304)	EN 1.4404 (AISI 316L)		
273-1	Plug Washer	EN 1.4301 (AISI 304)	EN 1.4404 (AISI 316L)		
274-1	C-type snap ring (mechanical seal)	EN 1.4301 (AISI 304)	EN 1.4401 (AISI 316)	Ø 26	UNI 7435
613	Flange	Carbon steel			

[1] See CONSTRUCTION 4

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Construction

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Pump Type	N°																															
	5-2	5-3	11	21	21-1	39-1	43-2	43-3	43-4	44-1	51	52-1	56	70-1	107	111-5	120-4	120-5	120-7	120-8	128-3	129	135-3	135-4	136	140	140-1	140-2	150	274-2	274-3	
EVM(L)32 1-0F6/4.0	/	1	/	1	/	/	/	1	1	1	/	1	/	/	1	1	2	2	/	/	/	/	/	/	/	1	/	/	/	/	/	/

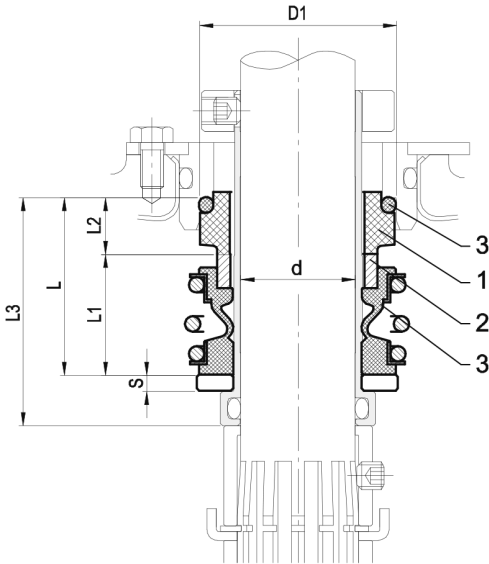
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Size [mm]	Max operating pressure [bar]	d [mm]	D1 [mm]	L [mm]	L1 [mm]	L2 [mm]	L3 [mm]	S [mm]	Material		
									1 Stationary Seal Ring	2 Rotary Seal Ring	3 Rubber
25	25	25	43	39	26.5	12.5	50	3.5	Carbon graphite	Silicon carbide	FPM