

Technische Daten

Pumpenname

3M 50-200/11

Besteller	Datum 16-June-2017	Firma
Ansprechpartner	Art.-Nr. 1.1	Issued by
Telefon	Projekt	Telefon
E-Mail	Projektname EBARA Pump Selector-2092260	E-Mail

Betriebsdatenvorgabe

1	Pumpenbezeichnung	CENTRIFUGAL PUMPS	Fluid	Wasser, rein
2	Pumpenanzahl / Reserve	1 / 0	Mediumtemperatur °C	20
3	Förderstrom m³/h	0	Kinematische Viskosität mm²/s	1
4	Förderhöhe m	0	Dampfdruck bar	0,022
5	Geodätische Höhe m	0	PH Wert	7
6	Vordruck bar	0,1	Dichte kg/dm³	1
7	NPSH - Wert der Anlage	0	Feststoffe Gewichts %	0
8	Umgebungstemperatur °C	20	Aufstellungshöhe über NN m	1000

Pumpe

9	Pumpenname	3M 50-200/11	Frequenz Hz	50
10	Bauart	CENTRIFUGAL PUMPS	Installationsart	STANDARD
11	Hersteller	EPE	Lauf rad	Max. mm 200
12	Drehzahl 1/min	2900	Durchmesser	Entworfen mm 200
13	Anz. an Stufen	1		Min. mm 200
14	Anschluß Saugseite	DIN 2532	Förderstrom	in Betrieb m³/h
15	Anschluß Druckseite	DIN 2532		Max- m³/h 72
16	Max. Betriebsdruck bar	10		Min- m³/h 30
17	Nullförderhöhe bar	5,78	Förderhöhe	in Betrieb m
18	Gesamtgewicht kg	Siehe Größentabelle.		- (Qmax.) m 42,0
19	Wellenleistung kW			- (Qmin.) m 56,0
20			Max. Wellenleistung bei max. Lauf rad kW	11,16
21	NPSH - Wert m		Wirkungsgrad %	

Materialien

22	Flügelrad	AISI 304		
23	Spiralgehäuse	AISI 304		
24	Welle	AISI 304		
25				
26				
27				

Motor

28	Hersteller	EPE Standard	Isolierklasse	F
29	Typ	TEFC_3M50-200/11_400_Three Phase	Phasen	3~
30	Ausführung	IE3 / 50 Hz / Polpaarzahl 1	Baugröße	
31	Leistung kW	11	Gewicht kg	0
32	Polzahl	2	El. Spannung V	400
33	Drehzahl 1/min	2900	El. Stromstärke A	21,3
34	Schutzart	IP 55		
35				

Bemerkungen

Kennlinie

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Betriebsdatenvorgabe

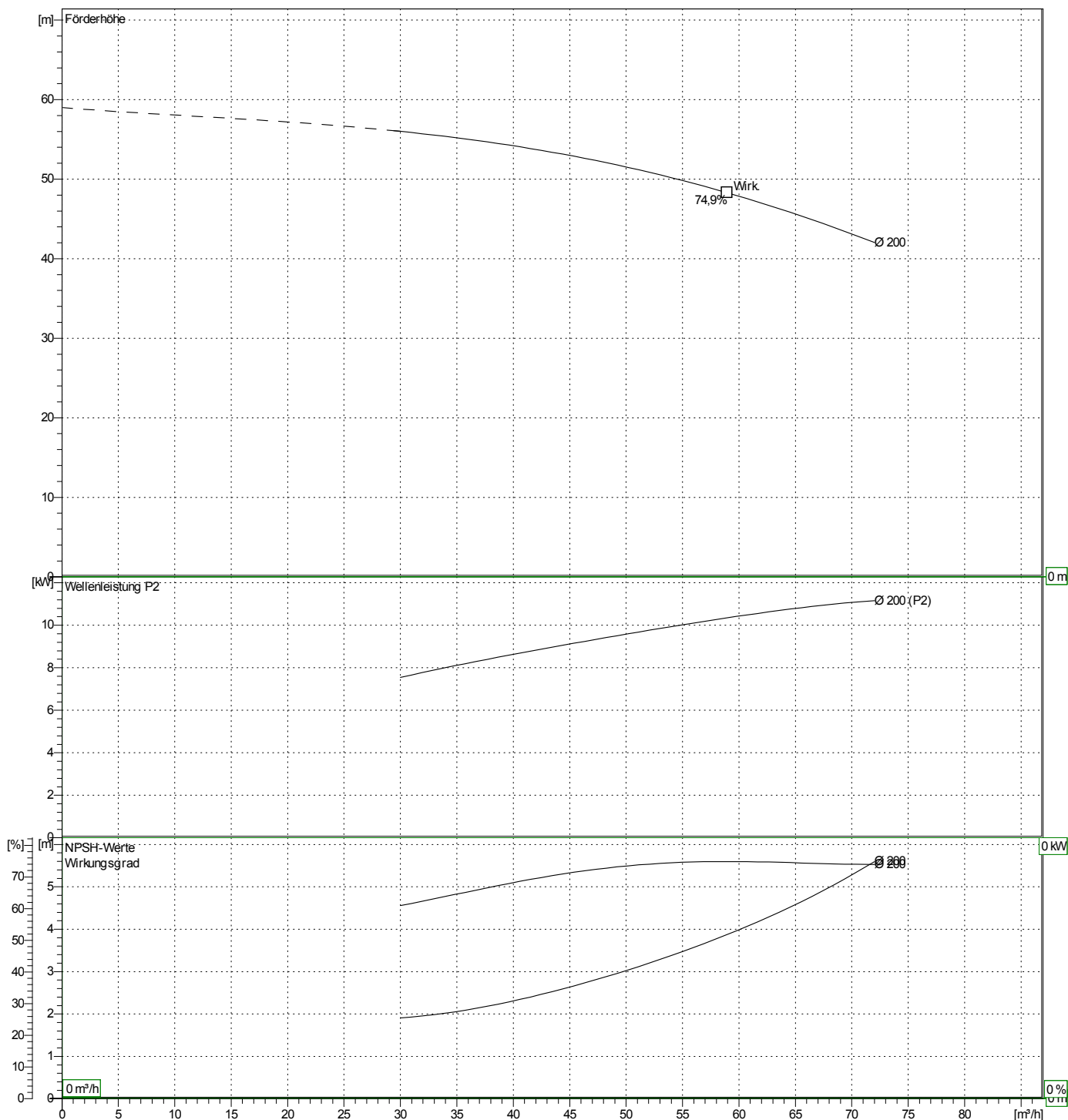
1	Förderstrom	m³/h	0
2	Förderhöhe	m	0
3	Geodätische Höhe	m	0

Pumpe

Betriebsförderstrom	m³/h	Frequenz	Hz	50
Betriebsförderhöhe	m	Polzahl		2
Laufgrad Durchmesser	mm	Drehzahl	1/min	
Entworfen	200			

Teststandard: ISO 9906:2012 - Grad3B

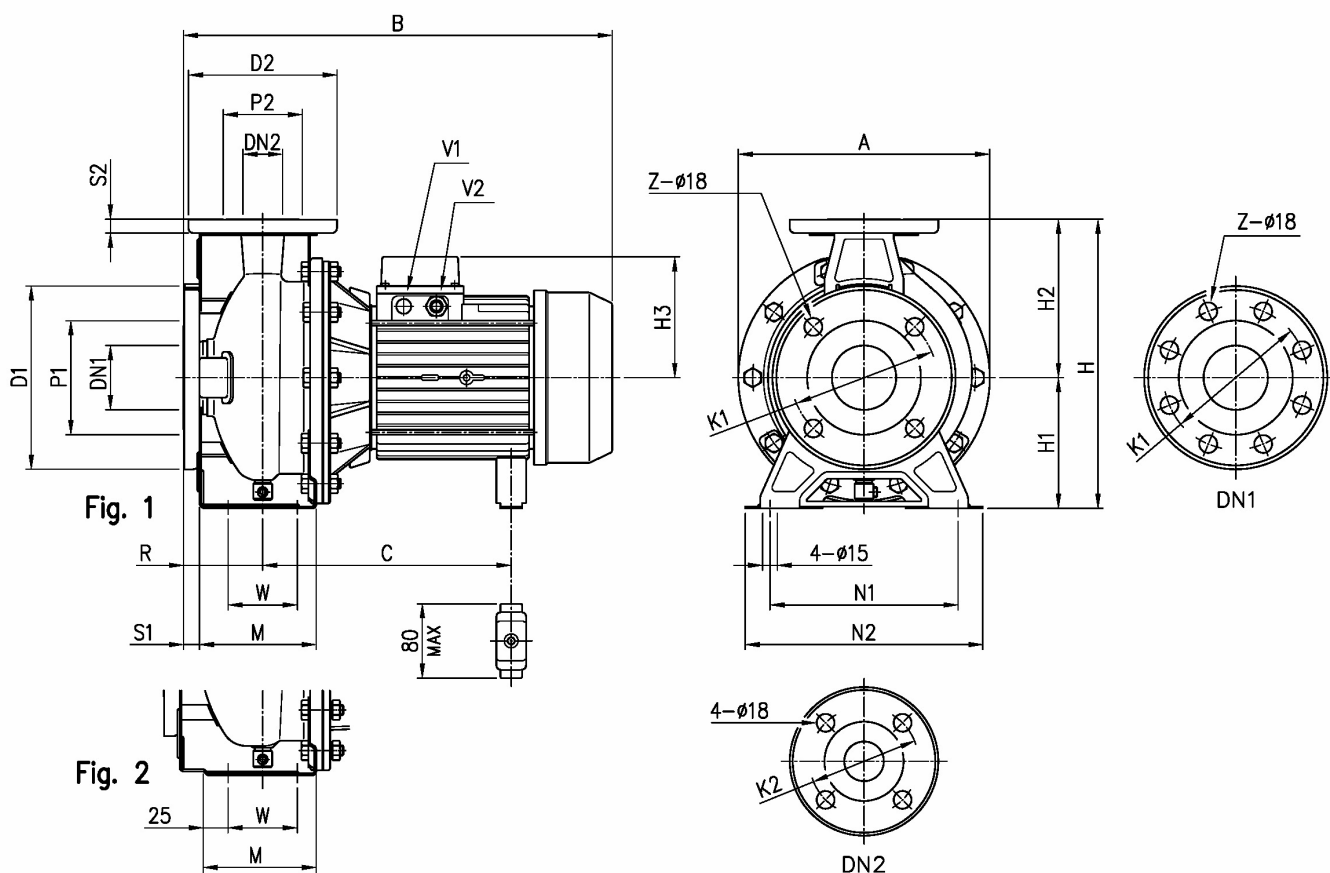
Wasser, rein [100%] ; 20°C; 0,9983kg/dm³; 1mm²/s



Abmessungen

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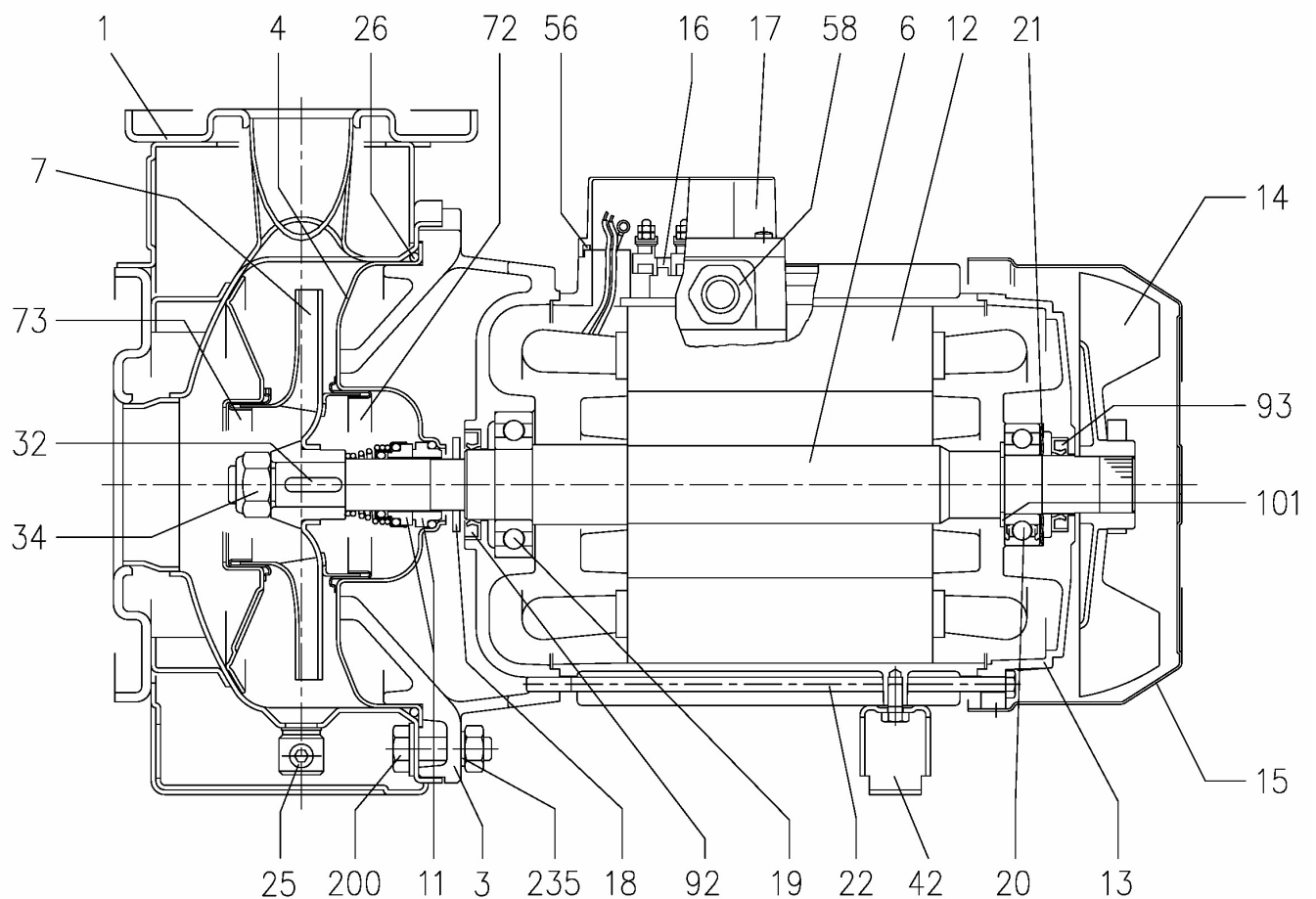


Abmessungen in mm				
1	A	296	H1	160
2	B	595	H2	200
3	C	359	H3	178
4	Dia D1	185	M	115
5	Dia D2	165	N1	212
6	Dia DN1	65	N2	265
7	Dia DN2	50	R	100
8	Dia K1	145	S1	16
9	Dia K2	125	S2	16
10	Dia P1	115	V2	PG 21
11	Dia P2	95	W	70
12	Fig	2	Weight P&M	69.6 kg
13	H	360	Z	4

(1/3) Konstruktion

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(2/3)

Konstruktion

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N°	PART NAME		MATERIAL		DIMENSIONS	STANDARD	Q.TY
			3M	3LM			
1	Casing		EN 1.4301 (AISI 304)	EN 1.4404 (AISI 316L)			1
3	Motor bracket		[9]				1
4	Casing cover		EN 1.4301 (AISI 304)	EN 1.4404 (AISI 316L)			1
6	Shaft with rotor-Part in contact with liquid		EN 1.4301 (AISI 304)	EN 1.4404 (AISI 316L)			1
7	Impeller		EN 1.4301 (AISI 304)	EN 1.4404 (AISI 316L)			1
11	Mechanical seal		Carbon/Ceramic/NBR	SiC/SiC/FPM	[8]		1
12	Motor frame with stator		-				1
13	Motor cover		Aluminium				1
14	Fan		PA				1
15	Fan cover		Fe P04 Galvanized				1
16	Terminal		-				1
17	Terminal box cover		Aluminium (three phase version)				1
18	Splash ring	Up to 11 kW	NBR	/	40x21.5x3	EBARA DRAWING	1
		15 kW and above			50x29.5x3		
19	Bearing		-		See table p.324		1
20	Bearing		-		See table p.324		1
21	Adjusting ring		Steel C70				1
22	Tie rod	Up to 3 kW	Fe 42 Galvanized		M5	EBARA DRAWING	4
		For 4 - 5.5 - 7.5 kW			M6		
		9.2 e 11kW			M8		
	Screw	15 kW and above	Galvanized Steel 8.8 strenght class ISO 898-1		M10x40		
25	Draing plug		EN 1.4401 (AISI 316) / PTFE		R 1/8" L=8	DIN 906	1
26	"O" ring	32-125, 40-125	NBR [7]	FPM	158.11x5.34	OR 6625	1
		32-160, 40-160, 50-125			183.52x5.34	OR 6720	
		32-200, 40-200, 50-160, 50-200, 65-160, 65-200			227.96x5.34	OR 6895	
32	Key	Up to 11 kW	EN 1.4401 (AISI 316)		A 6x6x25	UNI 6604	1
		15 kW and above			A 8x7x30		
34	Impeller nut	Up to 11kW	EN 1.4301 (AISI 304)	EN 1.4404 (AISI 316L)	M16x1.5	UNI 7474	1
		50-200/15			M18x1.5		
		15 kW and above			M20x1.5		
42	Foot		Aluminium / Galvanized steel			EBARA DRAWING	[1]
56	Box gasket		NBR				1
58	Fasting nut		-				[2]
72	Casing ring	[3]	EN 1.4301 (AISI 304)	EN 1.4404 (AISI 316L)			1
73	Casing ring		EN 1.4301 (AISI 304)	EN 1.4404 (AISI 316L)			1
92	Lip seal	Up to 3kW	-	-	25x40x7	DIN 3760 without spring	1
		From 4 to 7.5 kW			30x47X7		
		From 9.2 kW to 11 kW			40x55x7		
		From 15 kW to 22 kW			45x60x7		
093	Lip seal	Up to 4 kW	-	-	25x40x7	DIN 3760 without spring	1
		From 5.5 kW to 7.5 kW			30x47X7		
		From 9.2 kW to 11 kW			40x55x7		
		From 15 kW to 22 kW			45x60x7		
101	Snap ring (only 9.2 and 11kW)		Carbon tool steels TC 80		Ø 40	UNI 7435	1
200	Screw	32-125, 40-125	Stainless steel A2 70 class ISO 3506/1		M 8x30	UNI 5739	8
		40-160, 40-200, 50-125, 50-160, 50-200, 65-125, 65-160, 65-200			M 10x35		[4]
235	Washer	32-125, 40-125	EN 1.4301 (AISI 304)		8.4x17	UNI 6592	8
		40-160, 40-200, 50-125, 50-160, 50-200, 65-125, 65-160, 65-201			10.5x21		[4]
206	Screw for bracket [5]		Galvanized Steel 8.8 strenght class ISO 898-1		M 10x40	UNI 5739	4
244	Pin	[6]	-	EN 1.4301 (AISI 304)	4x15		1

[1] Quantity =0 for 65-160/15

Quantity =1 for 32-40-50 and 65 up to 11kW

Quantity =2 for 65-200/15, 65-200/18.5, 65-200/22

[2] Quantity =1 up to 11kW

Quantity =2 from 15kW to 22kW

[3] For version 32-200/3, 32-200/4, 32-200/5.5, 40-200/5.5, 40-200/7.5, 40-200/11, 50-160/5.5, 50-160/7.5, 50-200/9.2, 50-200/11, 50-200/15

[4] Quantity =10 for 32-160, 40-160, 50-125, 65-125

Quantity =12 for 32-200, 40-200, 50-160, 50-200, 65-160, 65-200

[5] For 15kW and above

[6] Only for 65-160/15 and 65-200

[7] FPM for H-HS-HW-HSW version

EPDM for E version, Q1AEGG, Q1Q1EGG, Q1U3EGG, U3CEGG, U3U3EGG (U3U3EGG not available for model 65-160/15 and 65-200)

[8] Special version: see CONSTRUCTION 3

[9] Cast iron EN-GJL-200-EN 1561 for 32-200/3 and models with 15, 18.5, 22 kW motor

Aluminum AL-EN-1706-AC-46000-D for all the others.