

Technische Daten

Pumpenname 3M 40-200/5.5

Besteller	Datum 21-December-2016	Firma
Ansprechpartner	Art.-Nr. 1.1	Issued by
Telefon	Projekt	Telefon
E-Mail	Projektname EBARA Pump Selector-2075257	E-Mail

Requested data

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 kPa	2,2
5	Geodätische Höhe m	0	PH Wert	7
6	Vordruck kPa	10	Dichte kg/m³	1000
7	Available system NPSH	0	Feststoffe Weight %	0
8	Umgebungstemperatur °C	20	Aufstellungshöhe über NN m	1000

Pumpe

9	Pumpenname	3M 40-200/5.5	Frequenz Hz	50
10	Bauart	CENTRIFUGAL PUMPS	Installationsart	STANDARD
11	Hersteller	EPE	Lauf- Durchmesser	Max. mm 183
12	Drehzahl rpm	2900		Designed mm 183
13	No. of Stage	1		Min. mm 183
14	Anschluß Saugseite	DIN 2532	Förderstrom	Operating m³/h
15	Anschluß Druckseite	DIN 2532		Max- m³/h 42
16	Max Working Pressure kPa	1000		Min- m³/h 12
17	Shut-off head kPa	460,10	Förderhöhe	Operating m
18	Gesamtgewicht kg	See the table of "Dimensions".		- (Qmax.) m 31,1
19	Wellenleistung kW			- (Qmin.) m 45,7
20			Max. Shaft Power at max. impeller kW	5,25
21	NPSH - Wert m		Efficiency %	

Materials

22	Impeller	AISI 304		
23	Casing	AISI 304		
24	Shaft	AISI 304		
25				
26				
27				

Motor

28	Hersteller	EPE Standard	Isolierklasse	F
29	Typ	TEFC_3M40-200/5.5_400_Three Phase	Phasen	3~
30	Ausführung	IE3 / 50 Hz / Polpaarzahl 1	Baugröße	
31	Leistung kW	5,5	Gewicht kg	0
32	Polzahl	2	El. Spannung V	400
33	Drehzahl rpm	2900	El. Stromstärke A	10,6
34	Schutzart	IP 55		
35				

Remarks

Kennlinie

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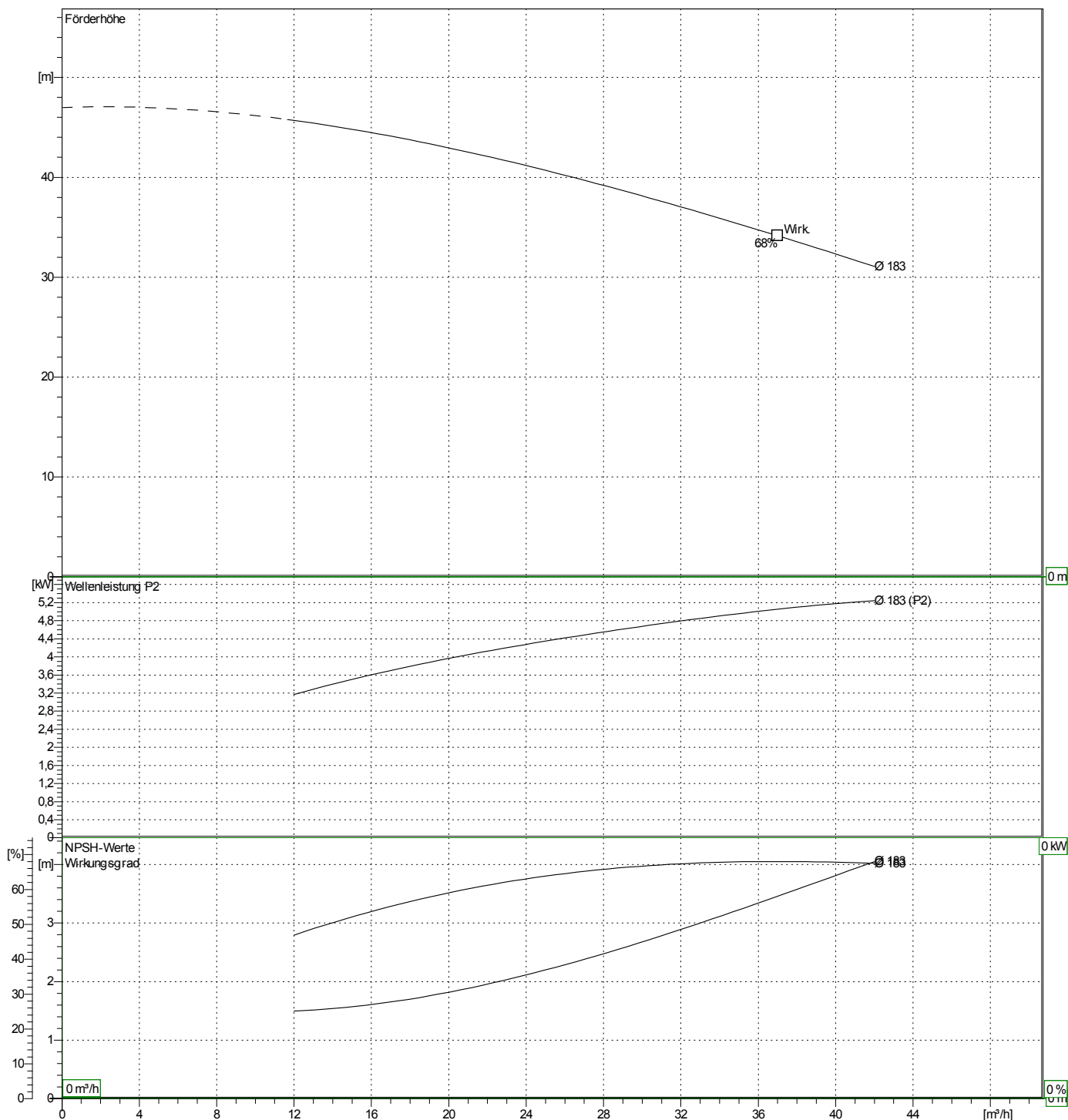
1	Förderstrom	m³/h	0
2	Förderhöhe	m	0
3	Geodätische Höhe	m	0

Pumpe

Operating Flow	m³/h	Frequenz	Hz	50
Operating Head	m	Polzahl		2
Laufgrad Durchmesser	mm	Drehzahl	rpm	

Test standard: ISO 9906:2012 - Grade3B

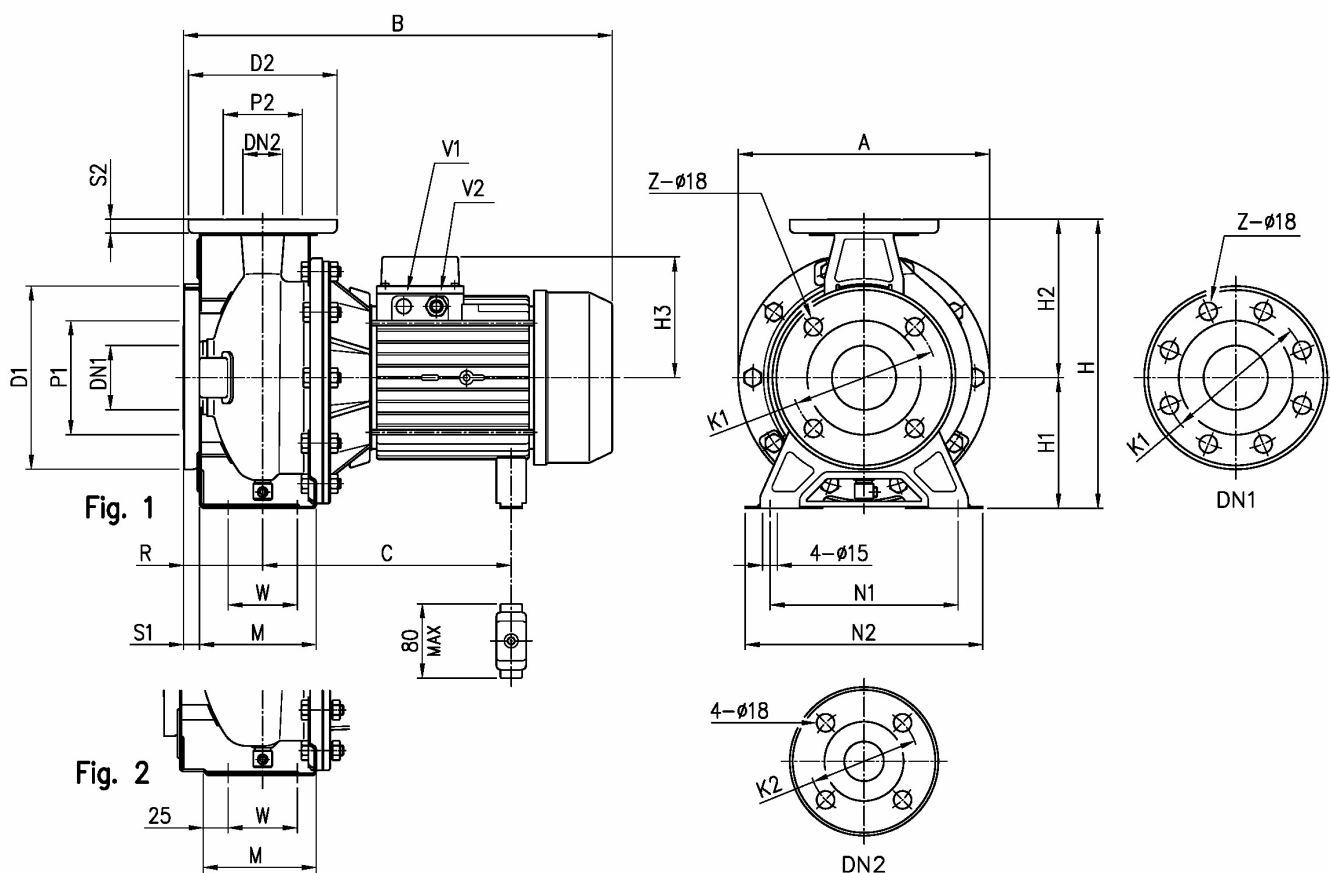
Wasser, rein [100%] ; 20°C; 998,3kg/m³; 1mm²/s



Abmessungen

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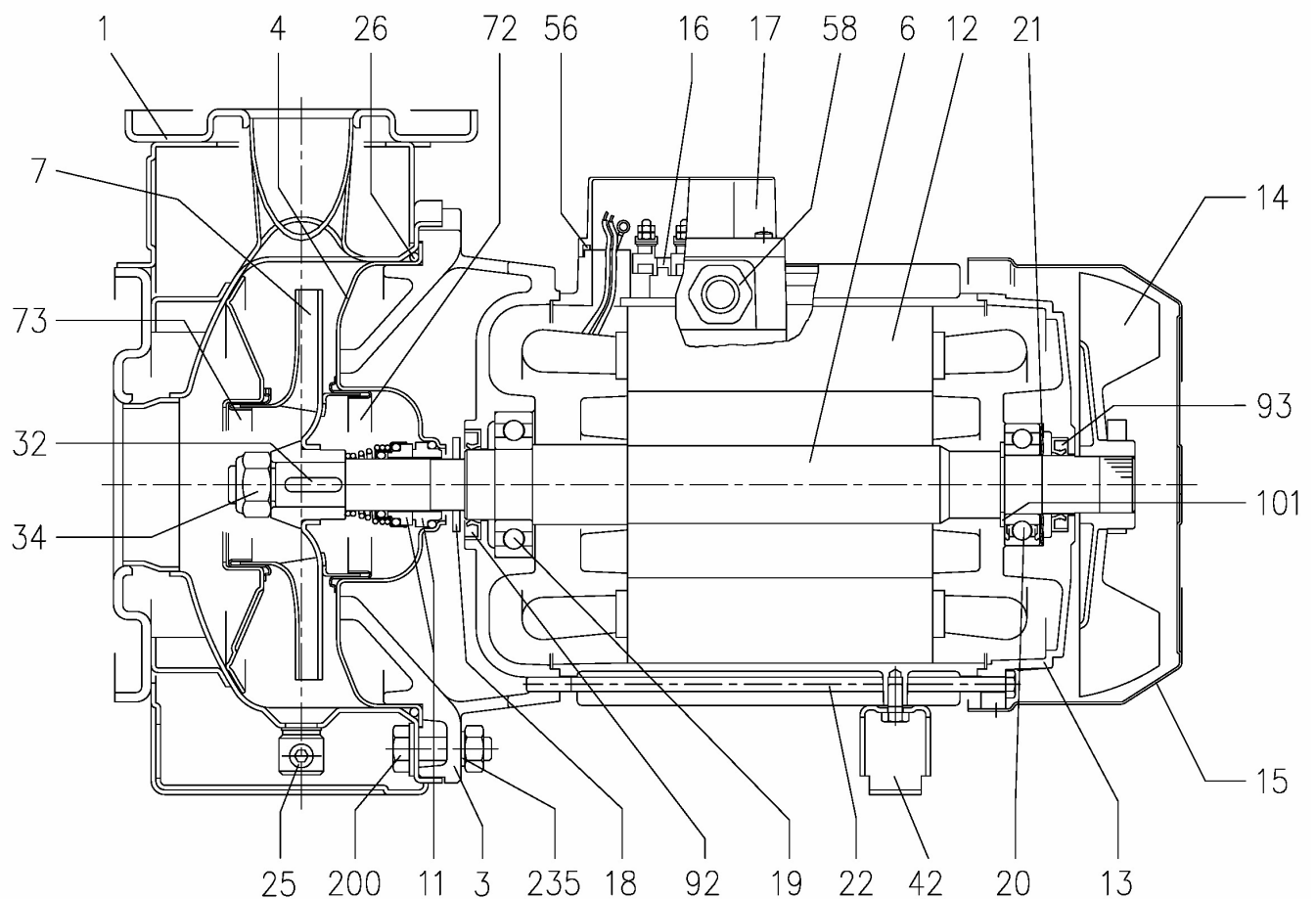


Abmessungen in mm							
1	A	296	H1	160	Z	4	
2	B	539	H2	180			
3	C	275	H3	150			
4	Dia D1	185	M	115			
5	Dia D2	150	N1	212			
6	Dia DN1	65	N2	265			
7	Dia DN2	40	R	100			
8	Dia K1	145	S1	16			
9	Dia K2	110	S2	14			
10	Dia P1	115	V1	M20X1.5			
11	Dia P2	80	V2	PG 16			
12	Fig	2	W	70			
13	H	340	Weight P&M	52.5 kg			

(1/3) Konstruktion

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(2/3)

Konstruktion

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N°	PART NAME		MATERIAL		DIMENSIONS	STANDARD	Q.TY
			3M	3LM			
001	Casing		EN 1.4301 (AISI 304)	EN 1.4404 (AISI 316L)			1
003	Motor bracket		[10]				1
004	Casing cover		EN 1.4301 (AISI 304)	EN 1.4404 (AISI 316L)			1
006	Shaft with rotor-Part in contact with liquid		EN 1.4301 (AISI 304)	EN 1.4404 (AISI 316L)			1
007	Impeller		EN 1.4301 (AISI 304)	EN 1.4404 (AISI 316L)			1
011	Mechanical seal	[9]	Carbon/Ceramic/NBR	SiC/SiC/FPM			1
012	Motor frame with stator		-				1
013	Motor cover		Aluminium				1
014	Fan		PA				1
015	Fan cover		Fe P04 Galvanized				1
016	Terminal		-				1
017	Terminal box cover		Aluminium (three phase version)				1
018	Splash ring	Up to 11 kW	NBR	/	40x21.5x3	EBARA DRAWING	[1]
		15 kW and above			50x29.5x3		
019	Bearing		-				1
020	Bearing		-				1
021	Adjusting ring		Steel C70				1
022	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	UNI 5739		
25	Drainig plug		EN 1.4401 (AISI 316) / PTFE		R 1/8" L=8	DIN 906	1
026	"O" ring	32-125, 40-125	NBR [8]	FPM	158.11x5.34	OR 6625	1
		32-160, 40-160, 50-125, 65-160			183.52x5.34	OR 6720	
		32-200, 40-200,50-160, 50-200, 65-160, 65-200			227.96x5.34	OR 6895	
032	Key	Up to 11 kW	EN 1.4401 (AISI 316)		A 6x6x25	UNI 6604	1
		15 kW and above			A 8x7x30		
034	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		
042	Foot		Aluminium / Galvanized steel			EBARA DRAWING	[2]
056	Box gasket		NBR				1
058	Fasting nut		-				[3]
072	Casing ring [4]		EN 1.4301 (AISI 304)	EN 1.4404 (AISI 316L)			1
073	Casing ring		EN 1.4301 (AISI 304)	EN 1.4404 (AISI 316L)			1
092	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		[5]
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		[5]
206	Screw for bracket [6]		Galvanized Steel 8.8 strenght class ISO 898-1		M 10x40	UNI 5739	4
244	Pin [7]		-	EN 1.4301 (AISI 304)	4x15		1

[1] Not for L version

[2] 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

[3] Quantity =1 up to 11kW

Quantity =2 from 15kW to 22kW

[4] 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

[5] 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

[6] For 15kW and above

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

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

EPDM for E version

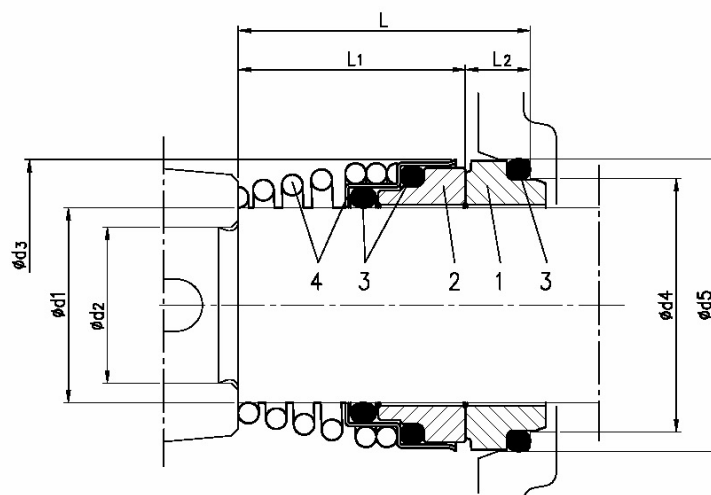
[9] Special version see CONSTRUCTION 3

[10] 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.

(3/3) Konstruktion

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Version	Pumpp type	Dimensions								Material			
		d1	d2	d3	d4	d5	L	L1	L2	1 Stationary seal ring	2 Rotary seal ring	3 Rubber	4 Frame + Spring
Standard	32-125/160/200												
	40-125/160/200												
	50-125/160/200												
	65-125	22	19	38	31	37	37.5	27.5	10	Carbon	Ceramic	NBR	EN 1.4401 (AISI 316)
	65-160/7.5												
	65-160/9.2												
	65-160/11												
	65.160/15	30	24	46	39	45	42.5	32.5	10				
	65-200												