

Technical Data

Pump Name

MD 40-125/1.56

Customer	Date	2024-07-02	Company
Contact	Item no.		Issued by
Phone	Project		Phone
E-mail	Project ID	Proiect redenumit 2024-07-02 22:34:28	E-mail

Requested data

1	Pump type	CENTRIFUGAL 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	MD 40-125/1.56	Frequency Hz	60
10	Design	CENTRIFUGAL PUMPS	Installation type	STANDARD
11	Manufacturer	EBARA	Impeller Diameter	Max. mm 125
12	Speed rpm	3350		Designed mm 125
13	No. of Stage	1		Min. mm 125
14	Connection Suction side	DIN 2532	Flow	Operating m³/h
15	Connection Discharge side	DIN 2532		Max- m³/h 36
16	Max Working Pressure bar			Min- m³/h 6
17	Shut-off head bar	2.05	Head	Operating m
18	Total weight kg	See the table of "Dimensions".		- (Qmax.) m 10.3
19	Shaft power kW			- (Qmin.) m 20.6
20			Max. Shaft Power at max. impeller kW	1.59
21	Required pump NPSH m		Efficiency %	

Materials

22				
23				
24				
25				
26				
27				

Motor

28	Manufacturer	EPE Standard	Insulation class	F
29	Type	TEFC_MD 40-125/1.56_380_Three Phase	Phases	3~
30	Specific design	- / 60 Hz / Pole pairs 1	Frame size	
31	Rated power kW	1.5	Weight kg	
32	Number of poles	2	Electric voltage V	380
33	Speed rpm	3450	Electric current A	3.2
34	Degree of protection	IP 55		
35				

Remarks

Performance Curve

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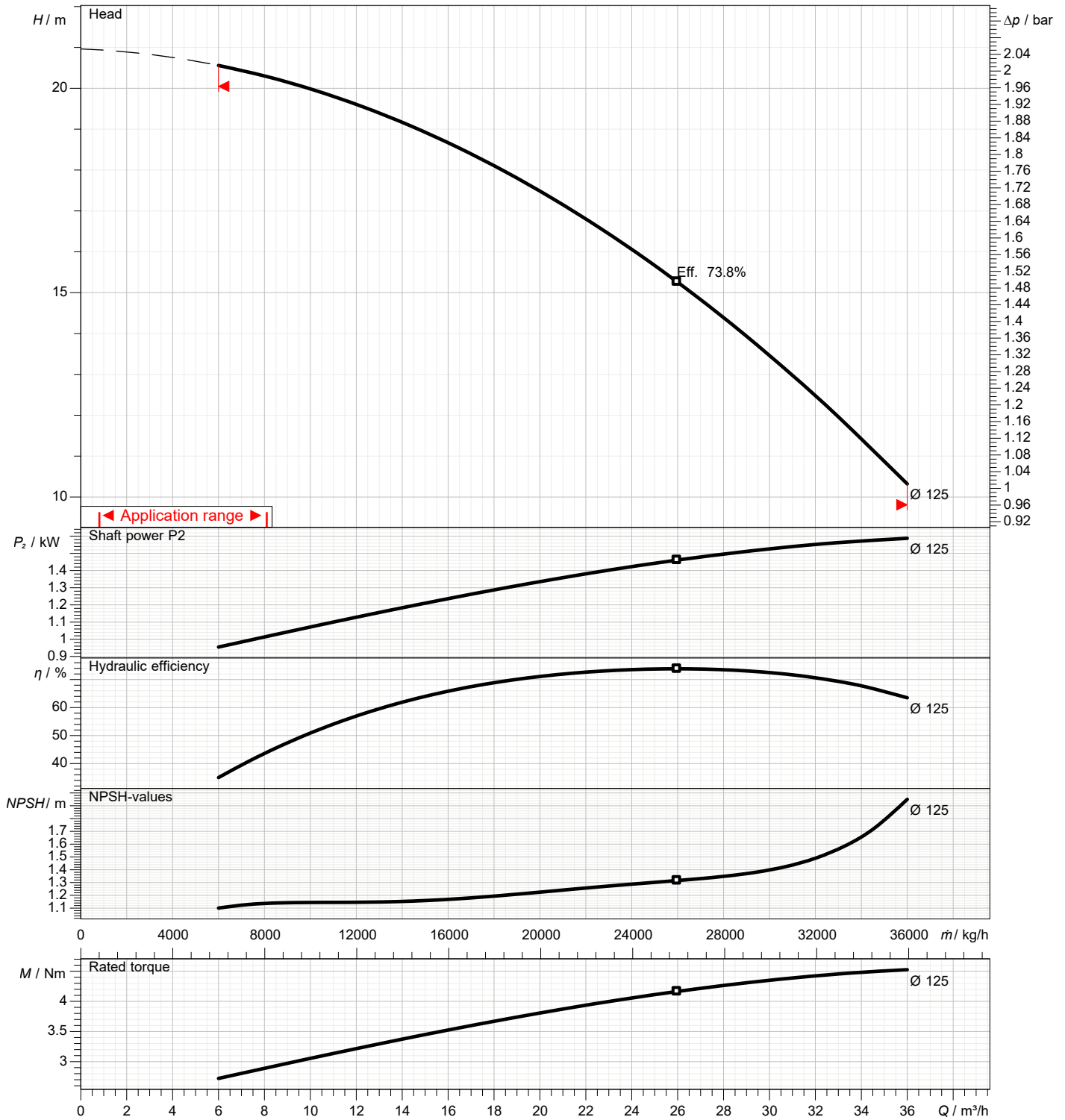
1	Flow	m³/h	
2	Head	m	
3	Geodetic head	m	

Pump

Operating flow	m³/h		Frequency	Hz	60
Operating head	m		Number of poles		2
Impeller diameter designed	mm	125	Speed	rpm	3350

Test standard: ISO 9906:2012 - Grade3B

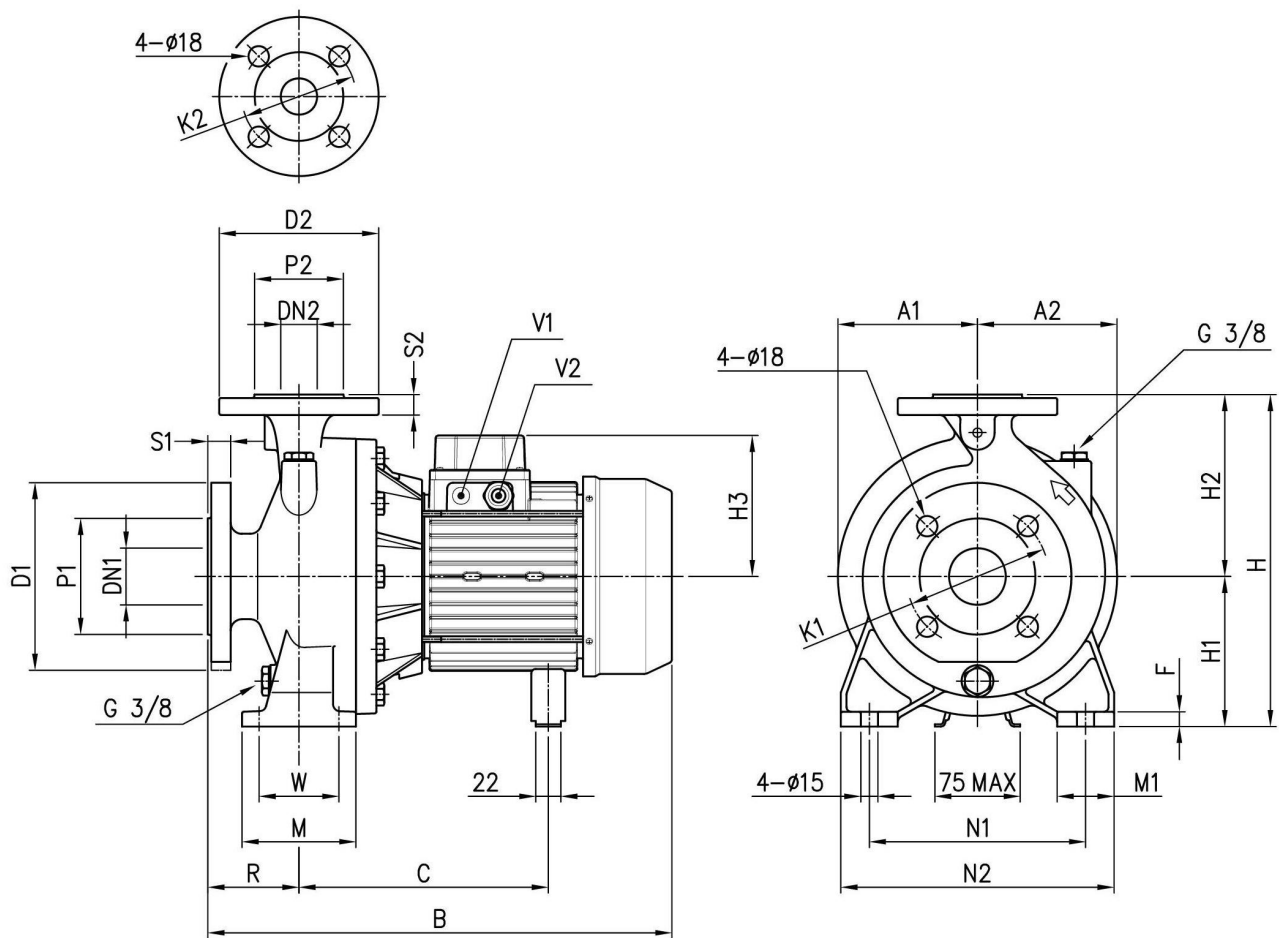
Water; 20°C; 998.3kg/m³; 1mm²/s



Dimensions

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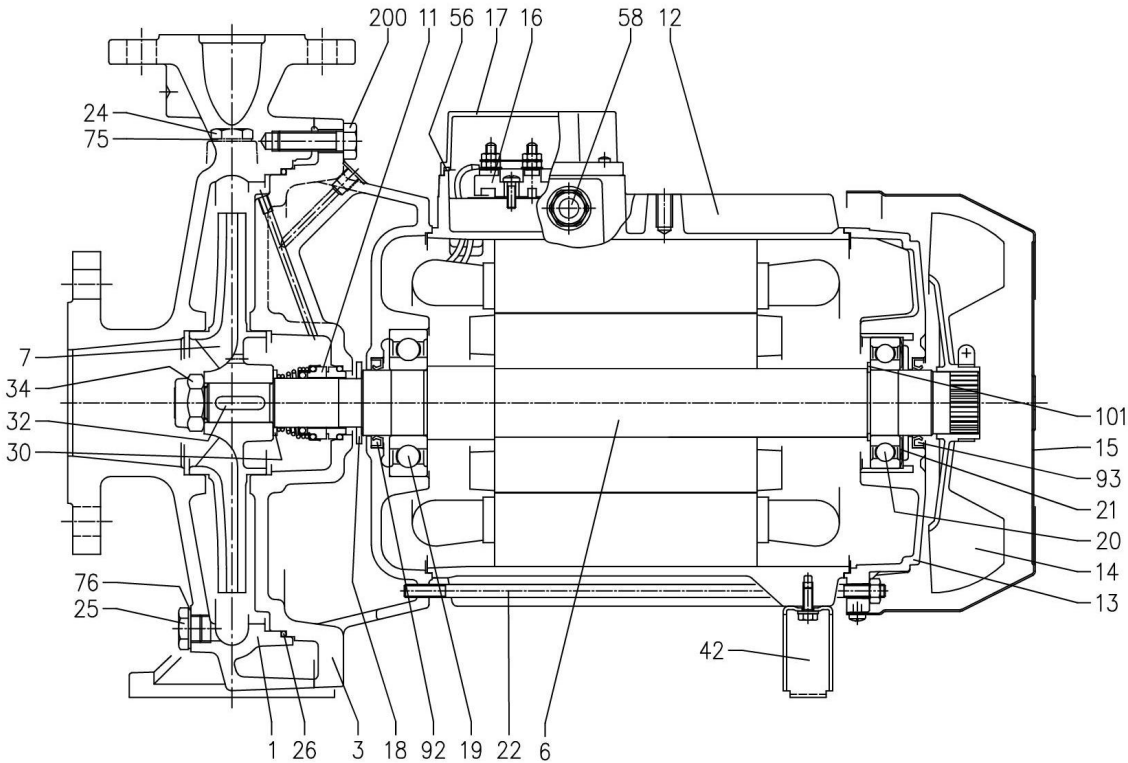
Dimensions in mm							
1	A1	104	M	100			
2	A2	111	M1	50			
3	B	407	N1	160			
4	C	-11	N2	210			
5	D1	185	P1	122			
6	D2	150	P2	88			
7	DN1	65	R	80			
8	DN2	40	S1	20			
9	F	13	S2	18			
10	H	252	V2	[PG 13].5			
11	H1	112	W	70			
12	H2	140	Weight kg	33			
13	H3	124					
14	K1	145					
15	K2	110					

(1/2)
Construction

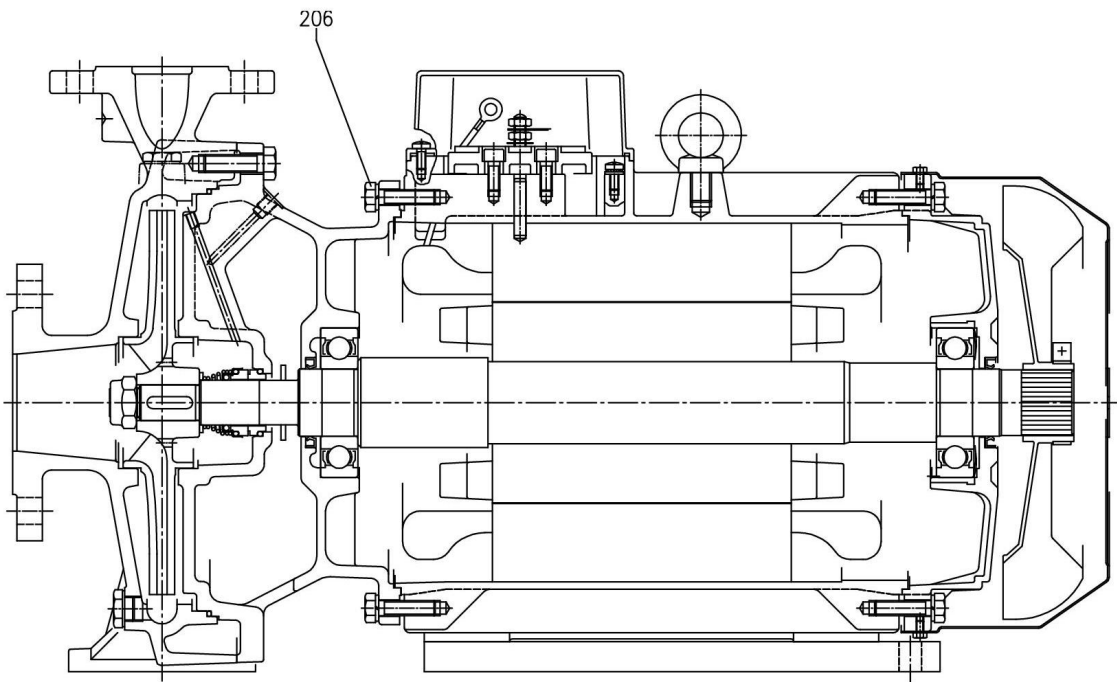
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UP TO 13 kW



15 kW AND ABOVE (NO 65-160/156)



(2/2)

Construction

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N°	PART NAME	MATERIAL	DIMENSIONS	STANDARD	N. FOR 1 UNIT
1	Casing	Cast iron EN-GJL-200-EN 1561			1
3	Motor bracket	Cast iron EN-GJL-200-EN 1561			1
6	Shaft with rotor	AISI 304 (Part in contact with liquid)			1
7	Impeller	Md xx-125, Md xx-160, Mdx-200 Md xx-250	Cast iron EN-GJL-200-EN 1561		1
11	Mechanical seal	Bronze			1
12	Motor frame with stator	Carbon/Ceramic/NBR			1
13	Motor cover	-			1
14	Fan	Aluminium			1
15	Fan cover	PP			1
16	Terminal box	Fe P04 Zincate			1
17	Terminal box cover	-			1
18	Splash ring	Up to 7.5 kW 9.2 kW and above	40x21.5x3 50x29.5x3	EPE DRAWING	1
19	Pump side ball bearing	-			1
20	Fan side ball bearing	-			1
21	Adjusting ring	Steel C70			1
22	Tie rod	Up to 13 kW and MD 65-160/15	Fe 42 Zincate	EPE DRAWING	4
24	Screw	15kW and above	Zn. steel 8.8 strenght class ISO 898/1	UNI 5739	1
25	Priming plug	Brass		EPE DRAWING	1
26	Drain plug	Brass		EPE DRAWING	1
26	O-ring	Md xx-125 Md xx-160 Md xx-200 Md xx-250	147x3,53 176x3,53 220x3,53 277x3,53	EPE DRAWING	1
30	Spacer	AISI 304	22,5x26,9x2,5 (up to 7,5kW) 30,5x40x2,5 (9,2 kW and above)	EPE DRAWING	1
32	Key	AISI 316	6x6x25 (up to 7,5kW) 8x7x30 (9,2 kW and above)	UNI 6604	1
34	Impeller nut	AISI 304	M16x1,5 (up to 7,5kW) M20x1,5 (9,2 kW and above)	UNI 7474	1
42	Foot	Fe P04		EPE DRAWING	1
56	Box gasket	NBR			1
58	Cable entry[2]	-			1
75	Washer	Aluminium	Ø 17 - G3/8		1
76	Washer	Aluminium	Ø 17 - G3/8		1
85*	Kit counterflange	Flange	Zincate steel	EPE DRAWING	2
		Screw for flange	AISI 304	UNI 5737	8
		Gasket	EPDM		2
92	Lip seal	Up to 3 kW From 4 to 7,5 kW From 9,2 to 13 kW and 65-160/15 From 15 to 22 kW	25x40x7 30x47x7 40x55x7 45x60x7	DIN 3760 without spring	1
93	Lip seal	Up to 4 kW From 5,5 to 7,5 kW From 9,2 to 13 kW and 65-160/15 From 15 to 22 kW	25x40x7 30x47x7 40x55x7 45x60x7	DIN 3760 without spring	1
101	Snap ring (only for 9,2-11-13 kW)	Carbon tool steels TC 80	Ø 40	UNI 7435	1
200	Screw	Md xx-125 Md xx-160 Md xx-200 Md xx-250	M8x30 M10x35 M12x40	UNI 5739	8 10 12
206	Screw	From 15kW and above (no 65-160/15)	Zn. steel 8.8 strenght class ISO 898/1	UNI 5739	12 4

[1] Only for single-phase

[2] Only for three-phase

*On request