

Technical Data

Pump Name

MD 50-250/18.56

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
3	Flow	m³/h	Kin. viscosity	mm²/s
4	Head	m	Vapour pressure	bar
5	Geodetic head	m	PH value	
6	Inlet pressure (pin)	bar	Density	kg/m³
7	Available system NPSH		Solids	Weight %
8	Ambient temperature	°C		

Pump

9	Pump Name	MD 50-250/18.56	Frequency	Hz	60
10	Design	CENTRIFUGAL PUMPS	Installation type		STANDARD
11	Manufacturer	EBARA	Impeller Diameter	Max.	mm
12	Speed	rpm		Designed	mm
13	No. of Stage	1		Min.	mm
14	Connection	Suction side	Flow	Operating	m³/h
15	Connection	Discharge side		Max-	m³/h
16	Max Working Pressure	bar		Min-	m³/h
17	Shut-off head	bar	Head	Operating	m
18	Total weight	kg		- (Qmax.)	m
19	Shaft power	kW		- (Qmin.)	m
20			Max. Shaft Power at max. impeller	kW	18.75
21	Required pump NPSH	m	Efficiency	%	

Materials

22	Impeller	Cast iron/Bronze		
23	Casing	Cast iron		
24	Shaft	AISI 304 (wet extension)		
25				
26				
27				

Motor

28	Manufacturer	EPE Standard	Insulation class	F
29	Type	TEFC_MD 50-250/18.56_660_Three Phase	Phases	3~
30	Specific design	- / 60 Hz / Pole pairs 1	Frame size	
31	Rated power	kW	Weight	kg
32	Number of poles	2	Electric voltage	V
33	Speed	rpm	Electric current	A
34	Degree of protection	IP 55		
35				

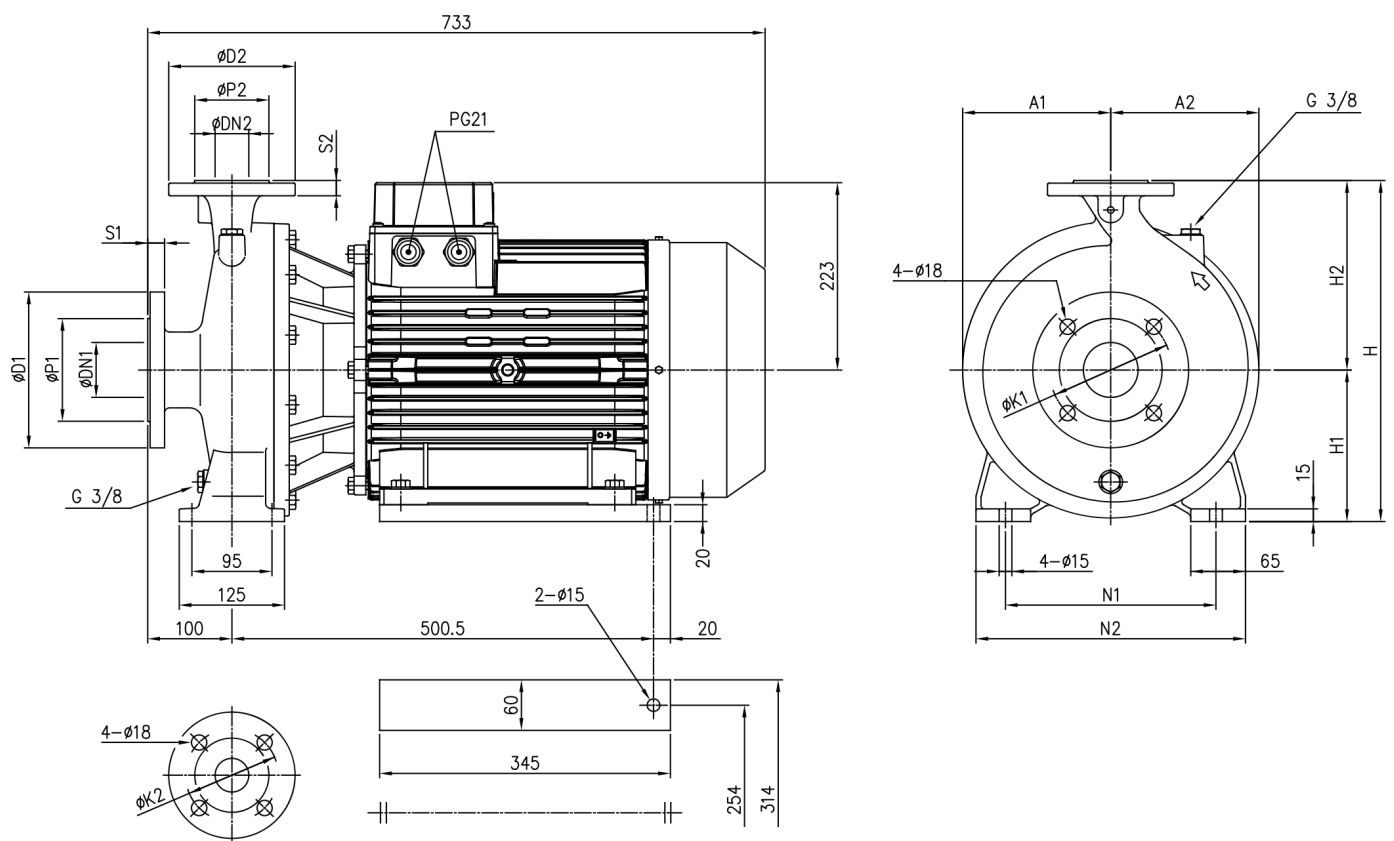
Remarks

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Dimensions

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Dimensions in mm								
1	A1	176	S1	20				
2	A2	176	S2	20				
3	Dia D1	185	Weight P&M	129 kg				
4	Dia D2	165						
5	Dia DN1	65						
6	Dia DN2	50						
7	Dia K1	145						
8	Dia K2	125						
9	Dia P1	122						
10	Dia P2	102						
11	H	405						
12	H1	180						
13	H2	225						
14	N1	250						
15	N2	320						

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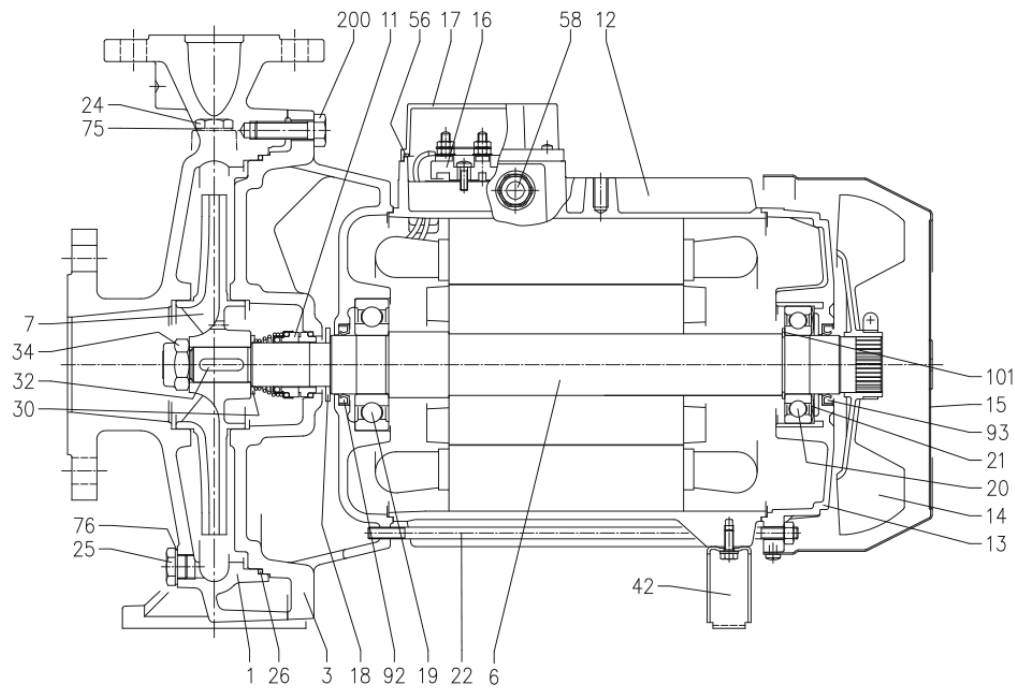
Construction

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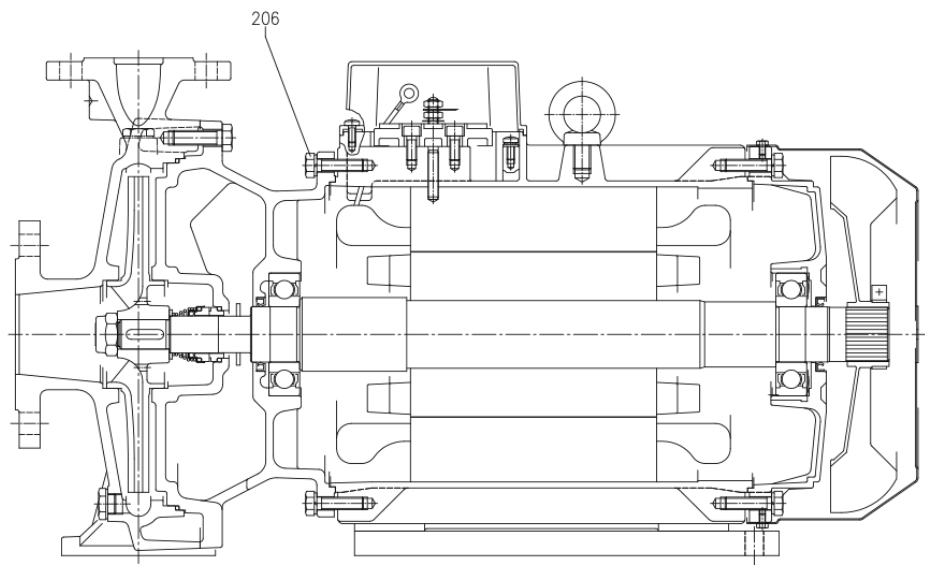
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UP TO 11 kW



15 kW AND ABOVE



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N°	PART NAME	MATERIAL	DIMENSIONS	STANDARD	Q.TY
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	Bronze			1
11	Mechanical seal [1]	Carbon/Ceramic/NBR			1
12	Motor frame with stator	-			1
13	Motor cover	Aluminium			1
14	Fan	PP			1
15	Fan cover	Fe P04 Zincate			1
16	Terminal box	-			1
17	Terminal box cover	Aluminium			1
18	Splash ring	NBR	Up to 7.5 kW 40x21.5x3	EPE DRAWING	1
			9.2 kW and above 50x29.5x3		
19	Pump side ball bearing	-			1
20	Fan side ball bearing	-			1
21	Adjusting ring	Steel C70			1
22	Tie rod Up to 11 kW	Fe 42 Zincate		EPE DRAWING	4
	Screw 15kW and above	Zn. steel 8.8 strenght class ISO 898/1		UNI 5739	
24	Priming plug	Brass		EPE DRAWING	1
25	Drain plug	Brass		EPE DRAWING	1
26	O-ring	NBR [2]	277x3.53	EPE DRAWING	1
30	Spacer	AISI 304	22.5x26.9x2.5 (up to 7.5kW)	EPE DRAWING	1
			30.5x40x2.5 (9.2 kW and above)		
32	Key	AISI 316	6x6x25 (up to 7.5kW)	UNI 6604	1
			8x7x30 (9.2 kW and above)		
34	Impeller nut	AISI 304	M16x1.5 (up to 7.5kW)	UNI 7474	1
			M20x1.5 (9.2 kW and above)		
42	Foot	Fe P04		EPE DRAWING	1
56	Box gasket	NBR			1
58	Cable entry	-			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	-	7.5 kW 30x47x7	DIN 3760 without spring	1
			9.2 kW 40x55x7		
			From 15 to 22 kW 45x60x7		
93	Lip seal	-	7.5 kW 30x47x7	DIN 3760 without spring	1
			9.2 kW 40x55x7		
			From 15 to 22 kW 45x60x7		
101	Snap ring (only for 9.2-11 kW)	Carbon tool steels TC 80	Ø 40	UNI 7435	1
200	Screw	Zn. steel 8.8 strenght class ISO 898/1	M12x40	UNI 5739	12
206	Screw From 15kW and above	Zn. steel 8.8 strenght class ISO 898/1	M10x40	UNI 5739	4

[1] See CONSTRUCTION 3

[2] FPM for H-HS-HSW-HW version
EPDM for E version

* On request

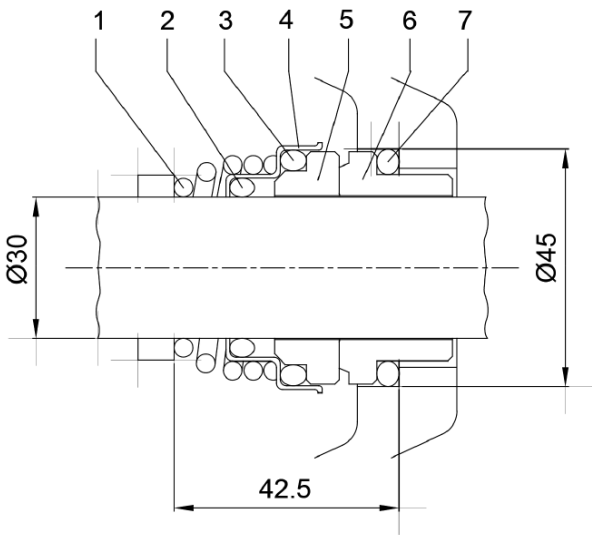
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REF	PART NAME	MATERIAL Standard version
1	Self driving spring	AISI 316
2	O Ring	NBR
3	Frame	AISI 304
4	O Ring	NBR
5	Rotary seal ring	ceramic
6	Stationary seal ring	carbon graphite
7	O Ring	NBR