

Technical data

Pump name

CDXM 120/07

Customer	Date 2021-05-12	Company
Contact	Item no.	Issued by
Phone	Project	Phone
E-mail	Project ID	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	cSt 1.005
4	Head m		Vapour pressure	kPa 2.34
5	Geodetic head m		PH value	
6	Inlet pressure (pin) kPa	0	Density	kg/m³ 998.3
7	Available system NPSH		Solids	Weight % 0
8	Ambient temperature °C	20		

Pump

9	Pump name	CDXM 120/07	Frequency	Hz 50
10	Design	CENTRIFUGAL PUMPS	Installation type	STANDARD
11	Manufacturer	EBARA	Impeller Diameter	Max. mm 132
12	Speed rpm	2800		Designed mm 132
13	No. of Stage	1		Min. mm 132
14	Connection Suction side	UNI ISO 228-1	Flow	Operating m³/h
15	Connection Discharge side	UNI ISO 228-1		Max- m³/h 10.8
16	Max Working Pressure kPa	800		Min- m³/h 3
17	Shut-off head kPa	220.32	Head	Operating m
18	Total weight kg	See the table of "Dimensions".		- (Qmax.) m 12.5
19	Shaft power kW			- (Qmin.) m 20.5
20			Max. Shaft Power at max. impeller	kW 0.65
21	Required pump NPSH m		Efficiency	%

Materials

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

Motor

28	Manufacturer	EPE Standard	Insulation class	F
29	Type	TEFC_CDXM 120/07_230_Single Phase	Phases	1~
30	Specific design	- / 50 Hz / Pole pairs 1	Frame size	
31	Rated power kW	0.55	Weight	kg
32	Number of poles	2	Electric voltage	V 230
33	Speed rpm	2800	Electric current	A 4.6
34	Degree of protection	IP 55		
35				

Remarks

Performance curve

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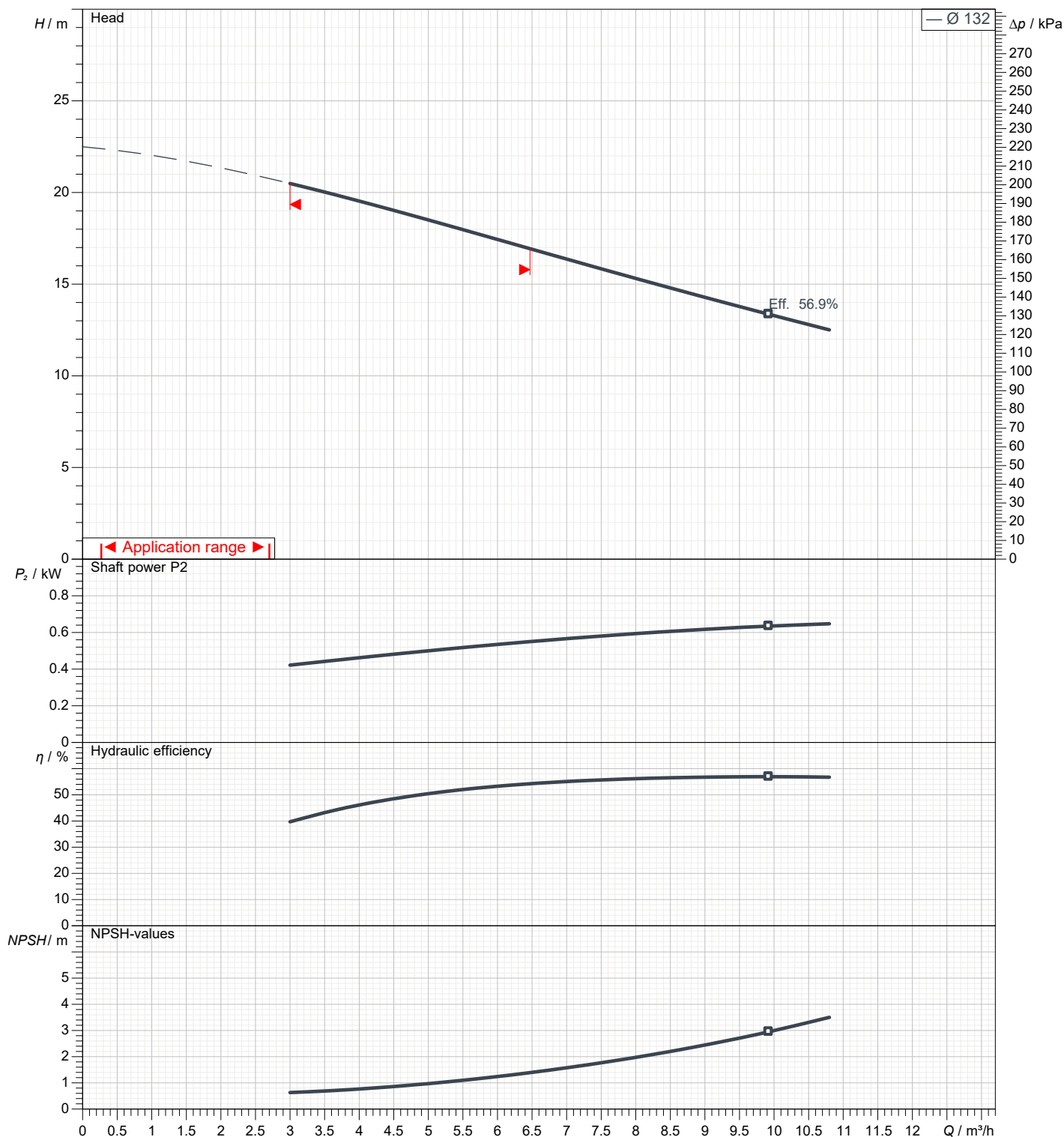
Requested data

1	Flow	m³/h		Operating Flow	m³/h		Frequency	Hz	50
2	Head	m		Operating Head	m		Number of poles		2
3	Geodetic head	m		Impeller Diameter Designed	mm	132	Speed	rpm	2800

Pump

Test standard: ISO 9906:2012 - Grade3B

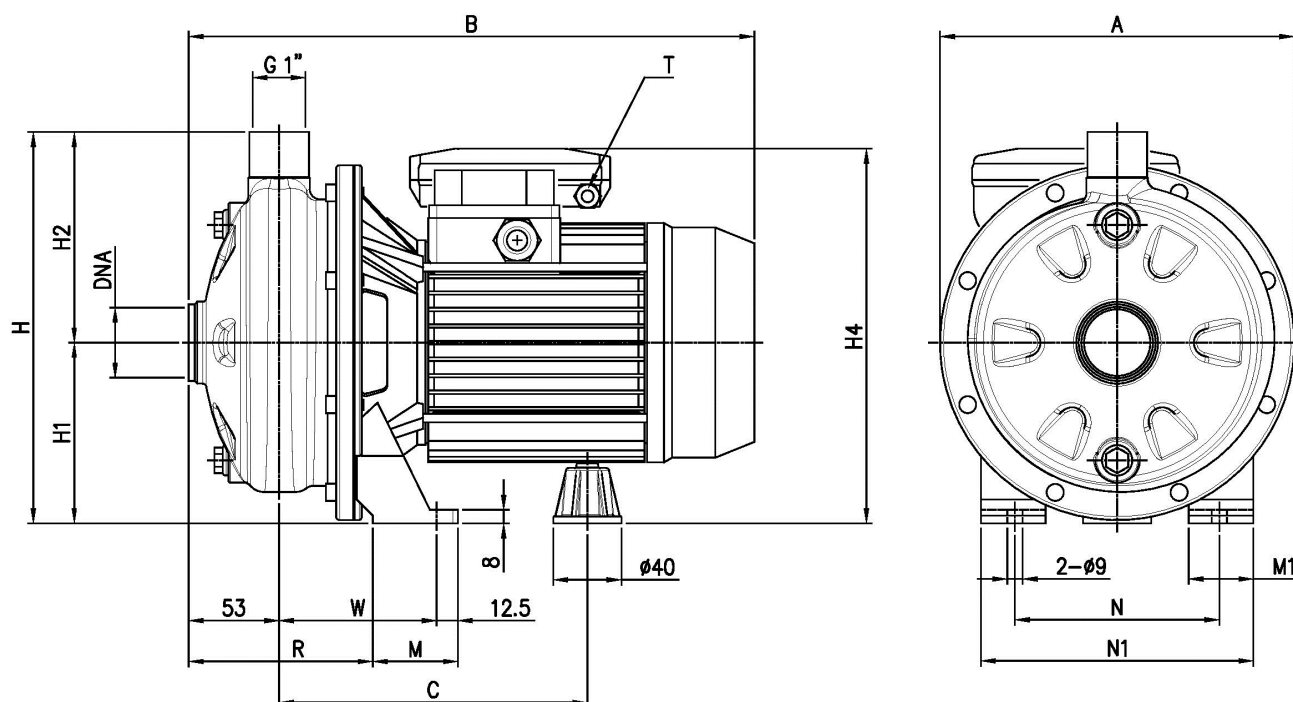
Water; 20°C; 998.3kg/m³; 1cSt



Dimensions

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Dimensions in		mm						
1	A	208	Weight P&M	9,6 kg				
2	B	321						
3	C	181						
4	DNA	G1 1/4						
5	H	229.5						
6	H1	106						
7	H2	123.5						
8	H4	216						
9	M	50						
10	M1	38						
11	N	120						
12	N1	160						
13	R	108						
14	T	PG11						
15	W	92.5						

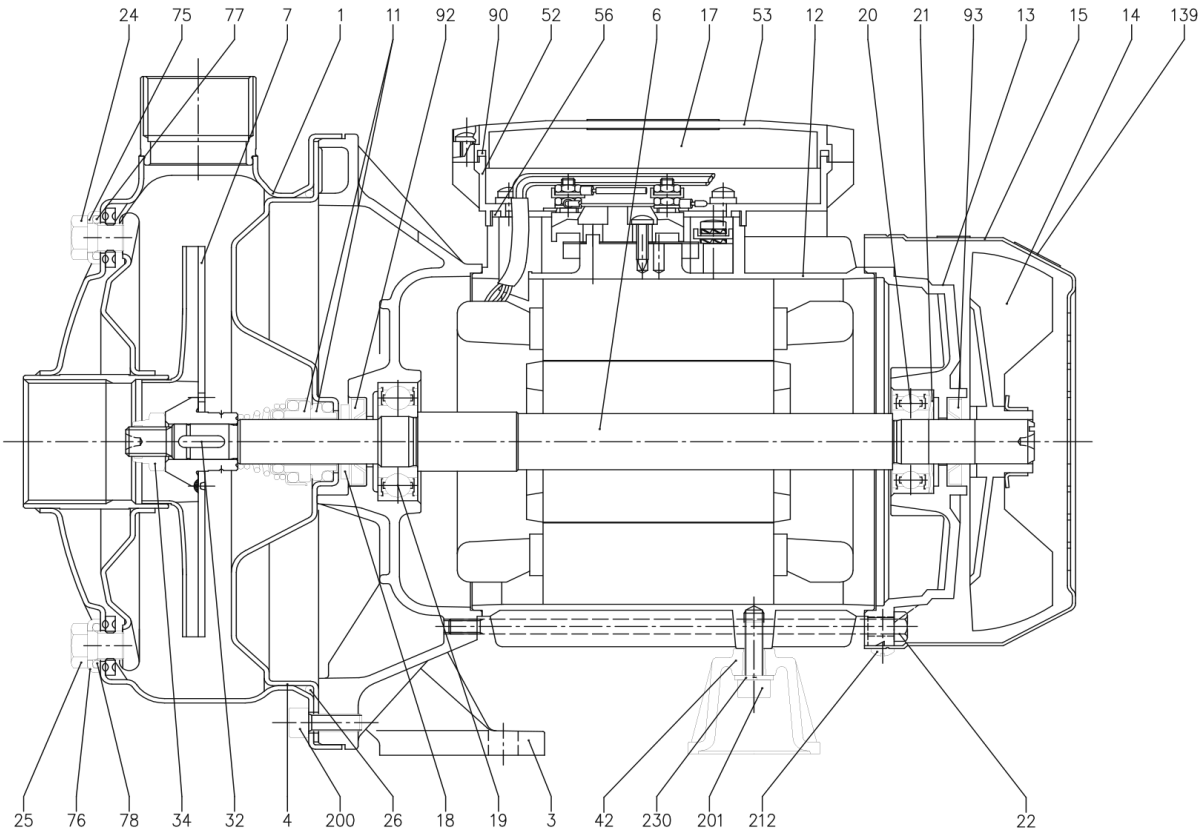
(1/3)

Construction

Pump name

CDXM 120/07

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(2/3)

Construction

Pump name CDXM 120/07

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N°	PART NAME	MATERIAL	Q.TY
1	Casing	AISI 304 / AISI 316L [4]	1
3	Motor bracket	Aluminium	1
4	Casing cover	AISI 304 / AISI 316L [4]	1
6	Shaft with rotor	AISI 303 / AISI 316L [4] (Wet extension)	1
7	Impeller	AISI 304 / AISI 316L [4]	1
11	Mechanical seal [5]	Carbon/Ceramic/NBR	1
12	Motor frame with stator	-	1
13	Motor cover	Aluminium	1
14	Fan	PA	1
15	Fan cover	Fe P04 Zincate	1
17	Terminal box cover [2]	Aluminium	1
18	Splash ring	NBR	1
19	Pump side ball bearing	-	1
20	Fan side ball bearing	-	1
21	Adjusting ring	Steel C70	1
22	Tie rod	Fe 420 Zincate	4
24	Priming plug	AISI 304 / AISI 316 [4]	1
25	Drain plug	AISI 304 / AISI 316 [4]	1
26	O-ring [3]	NBR	1
32	Key	AISI 316	1
34	Impeller nut	AISI 304 / AISI 316 [4]	1
42	Motor support	Aluminium	1
52	Terminal box [1]	ABS class V-0	1
53	Terminal box cover [1]	ABS class V-0	1
56	Box gasket	NBR	1
73	Casing ring	-	1
75	Washer	AISI 304	1
76	Washer	AISI 304	1
77	O-ring [3]	NBR	1
78	O-ring [3]	NBR	1
90	Terminal box cover gasket [1]	NBR	1
92	Lip seal	-	1
93	Lip seal	-	1
200	Screw	Stainless steel A2 UNI7323	8

[1] Only for single phase

[2] Only for three phase

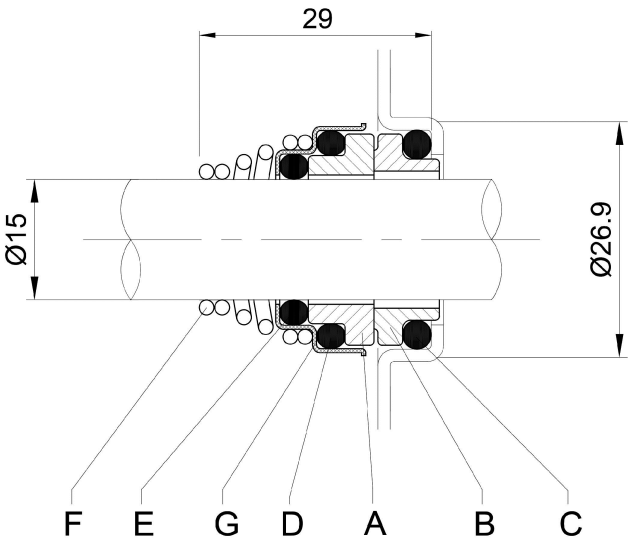
[3] FPM for CDX H-HS-HW-HSW

EPDM for CDX E and Special Mechanical Seal

[4] Only for "L" version

[5] See **CONSTRUCTION 3**

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REF	PART NAME	MATERIAL Standard and L version
A	Rotary seal ring	Ceramic
B	Stationary seal ring	Carbon graphite
C	O-Ring	NBR
D	O-Ring	NBR
E	O-Ring	NBR
F	Self-driving spring	AISI 316
G	Frame	AISI 304