

# Technical Data

Pump Name

CDXM 120/12

Customer	Date	2024-06-13	Company
Contact	Item no.		Issued by
Phone	Project		Phone
E-mail	Project ID	Proiect redenumit 2024-06-13 13:12:02	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	CDXM 120/12	Frequency	Hz	50
10	Design	CENTRIFUGAL PUMPS	Installation type		STANDARD
11	Manufacturer	EBARA	Impeller Diameter	Max. mm	157
12	Speed rpm	2800		Designed mm	157
13	No. of Stage	1		Min. mm	157
14	Connection Suction side	UNI ISO 228-1	Flow	Operating m³/h	
15	Connection Discharge side	UNI ISO 228-1		Max- m³/h	9.6
16	Max Working Pressure bar	8		Min- m³/h	3
17	Shut-off head bar	3.06	Head	Operating m	
18	Total weight kg	See the table of "Dimensions".		- (Qmax.) m	21.0
19	Shaft power kW			- (Qmin.) m	29.3
20			Max. Shaft Power at max. impeller	kW	1.16
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 120/12_230_Single Phase	Phases	1~
30	Specific design	IE2 / 50 Hz / Pole pairs 1	Frame size	
31	Rated power kW	0.9	Weight	kg
32	Number of poles	2	Electric voltage	V 230
33	Speed rpm	2800	Electric current	A 5.4
34	Degree of protection	IP 55		
35				

## Remarks

# Performance Curve

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### Requested data

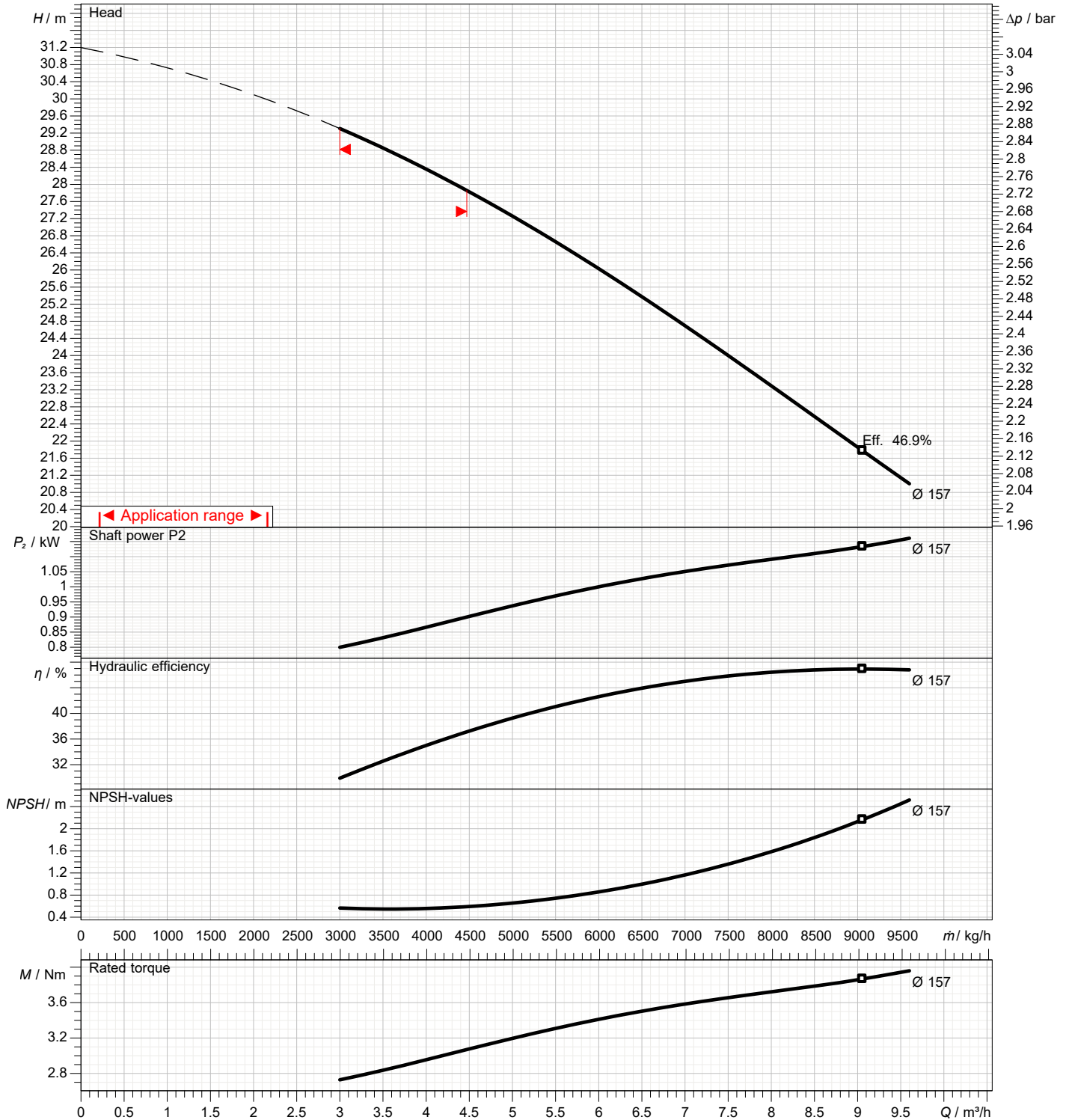
1	Flow	m³/h	
2	Head	m	
3	Geodetic head	m	

### Pump

Operating flow	m³/h		Frequency	Hz	50
Operating head	m		Number of poles		2
Impeller diameter designed	mm	157	Speed	rpm	2800

Test standard: ISO 9906:2012 - Grade3B

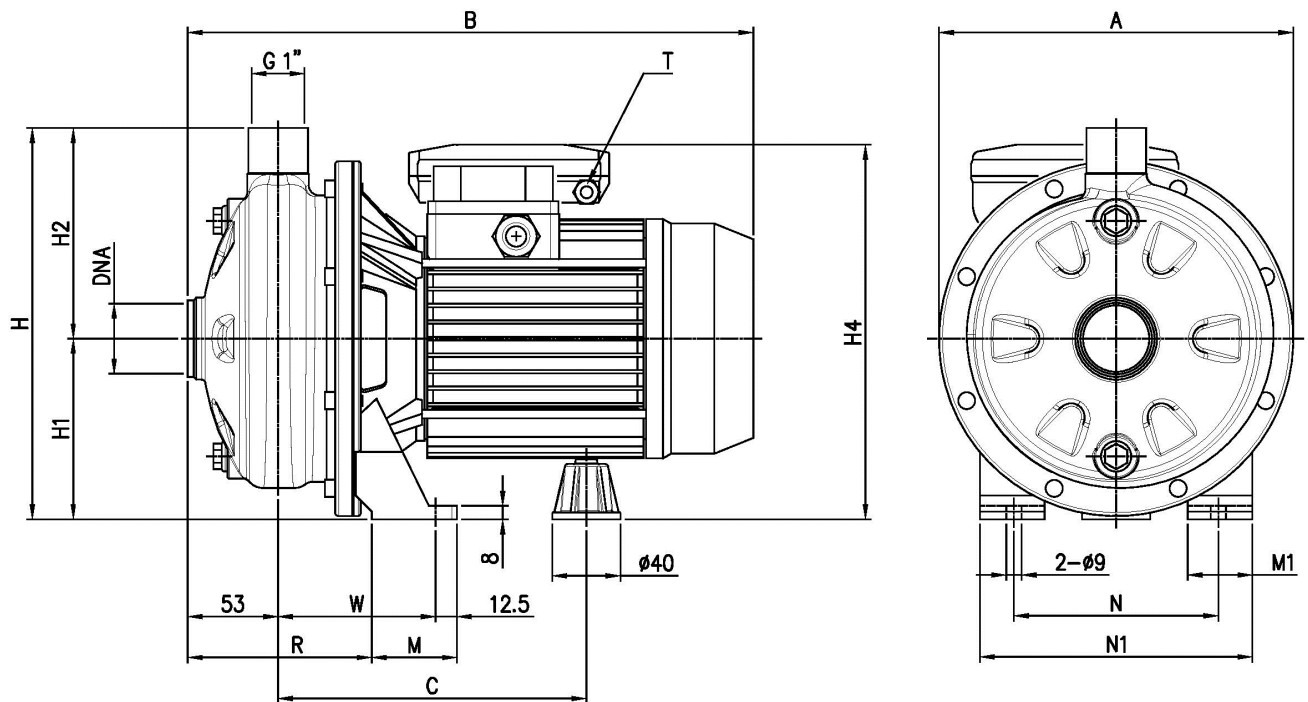
Water; 20°C; 998.3kg/m³; 1mm²/s



# Dimensions

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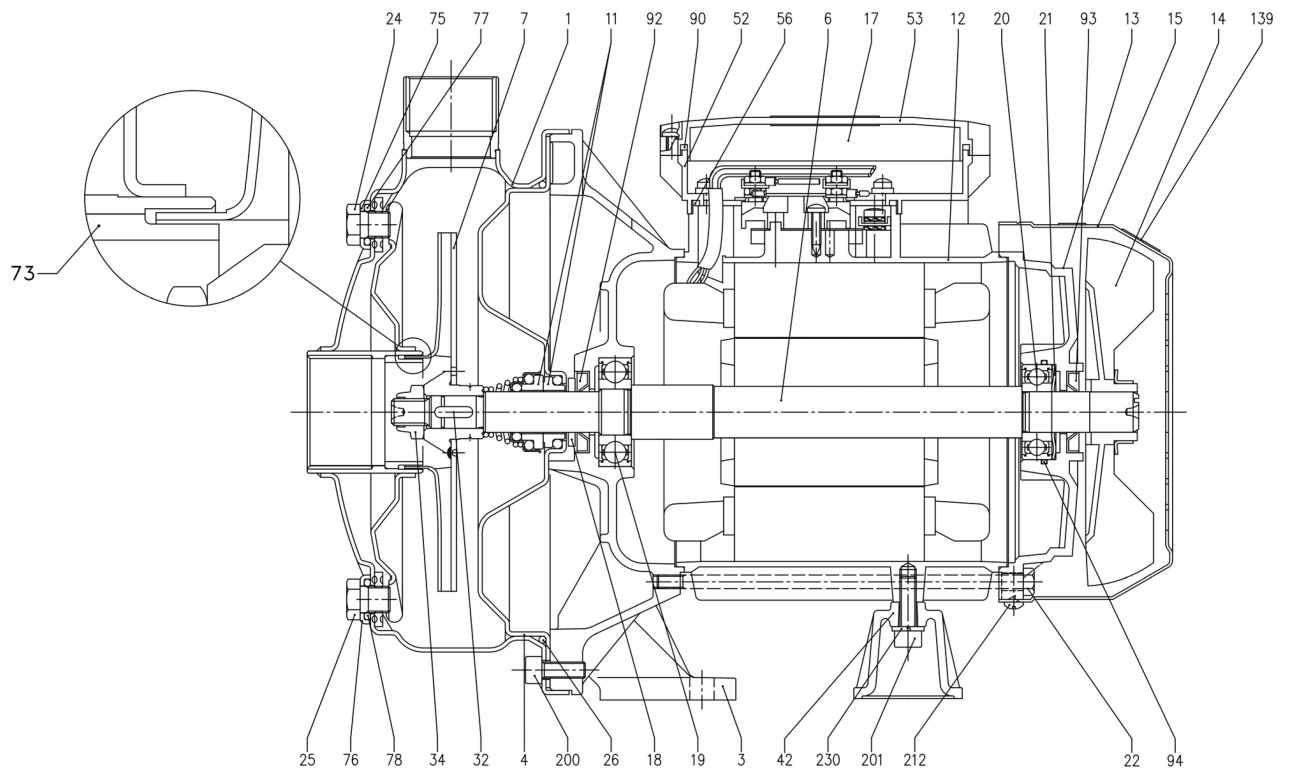


Dimensions in		mm							
1	A	208	Weight P&M	12 kg					
2	B	333							
3	C	181							
4	DNA	G1 1/4							
5	H	229.5							
6	H1	106							
7	H2	123.5							
8	H4	235							
9	M	50							
10	M1	38							
11	N	120							
12	N1	160							
13	R	108							
14	T	PG11							
15	W	92.5							

# (1/3) Construction

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(2/3)

# Construction

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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

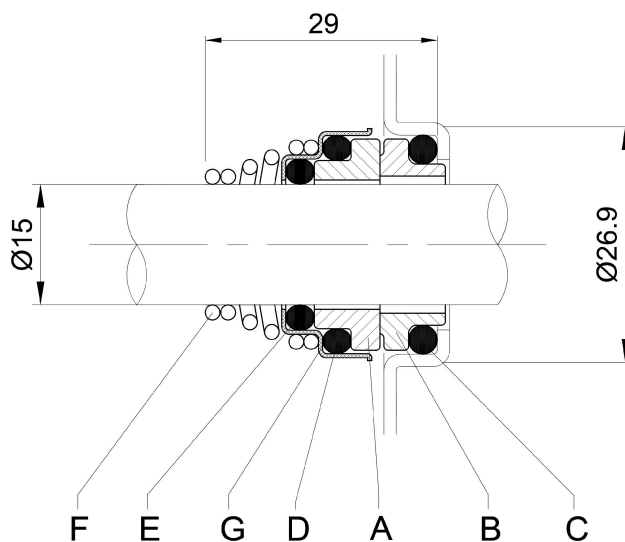
N°	PART NAME	MATERIAL	Q.TY
25	Drain plug	AISI 304 / AISI 316 [4]	1
26	O-ring [3]	NBR	1
32	Key	AISI 316	1
34	Impeller nut	AISI 304 / AISI 316 [4]	1
42	Motor support	Aluminium	1
52	Terminal box [1]	ABS class V-0	1
53	Terminal box cover [1]	ABS class V-0	1
56	Box gasket	NBR	1
73	Double ring	AISI 304 / AISI 316 [4]	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
94	O-ring [6]	NBR	1
200	Screw	Stainless steel A2 UNI7323	8

- [1] Only for single phase
- [2] Only for three phase
- [3] FPM for H-HS-HW-HSW  
EPDM for E and Special Mechanical Seal
- [4] Only for "L" version
- [5] See CONSTRUCTION 3
- [6] Only for CDX 120/12 and CDX 200/12 (three phase) models

# (3/3) Construction

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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