

Technical data

Pump name

CDM 70/12

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	CDM 70/12	Frequency	Hz 50
10	Design	CENTRIFUGAL PUMPS	Installation type	STANDARD
11	Manufacturer	EBARA	Impeller Diameter	Max. mm 176
12	Speed rpm	2800		Designed mm 176
13	No. of Stage	1		Min. mm 176
14	Connection Suction side	UNI ISO 228-1	Flow	Operating m³/h
15	Connection Discharge side	UNI ISO 228-1		Max- m³/h 4.8
16	Max Working Pressure kPa	800		Min- m³/h 1.2
17	Shut-off head kPa	362.35	Head	Operating m
18	Total weight kg	See the table of "Dimensions".		- (Qmax.) m 26.5
19	Shaft power kW			- (Qmin.) m 35.0
20			Max. Shaft Power at max. impeller	kW 0.96
21	Required pump NPSH m		Efficiency	%

Materials

22	Impeller	AISI 304		
23	Casing	AISI 304		
24	Shaft	AISI 303 (Wet extension)		
25				
26				
27				

Motor

28	Manufacturer	EPE Standard	Insulation class	F
29	Type	TEFC_CDM 70/12_230_Single Phase	Phases	1~
30	Specific design	- / 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 6.5
34	Degree of protection	IP 55		
35				

Remarks

Performance curve

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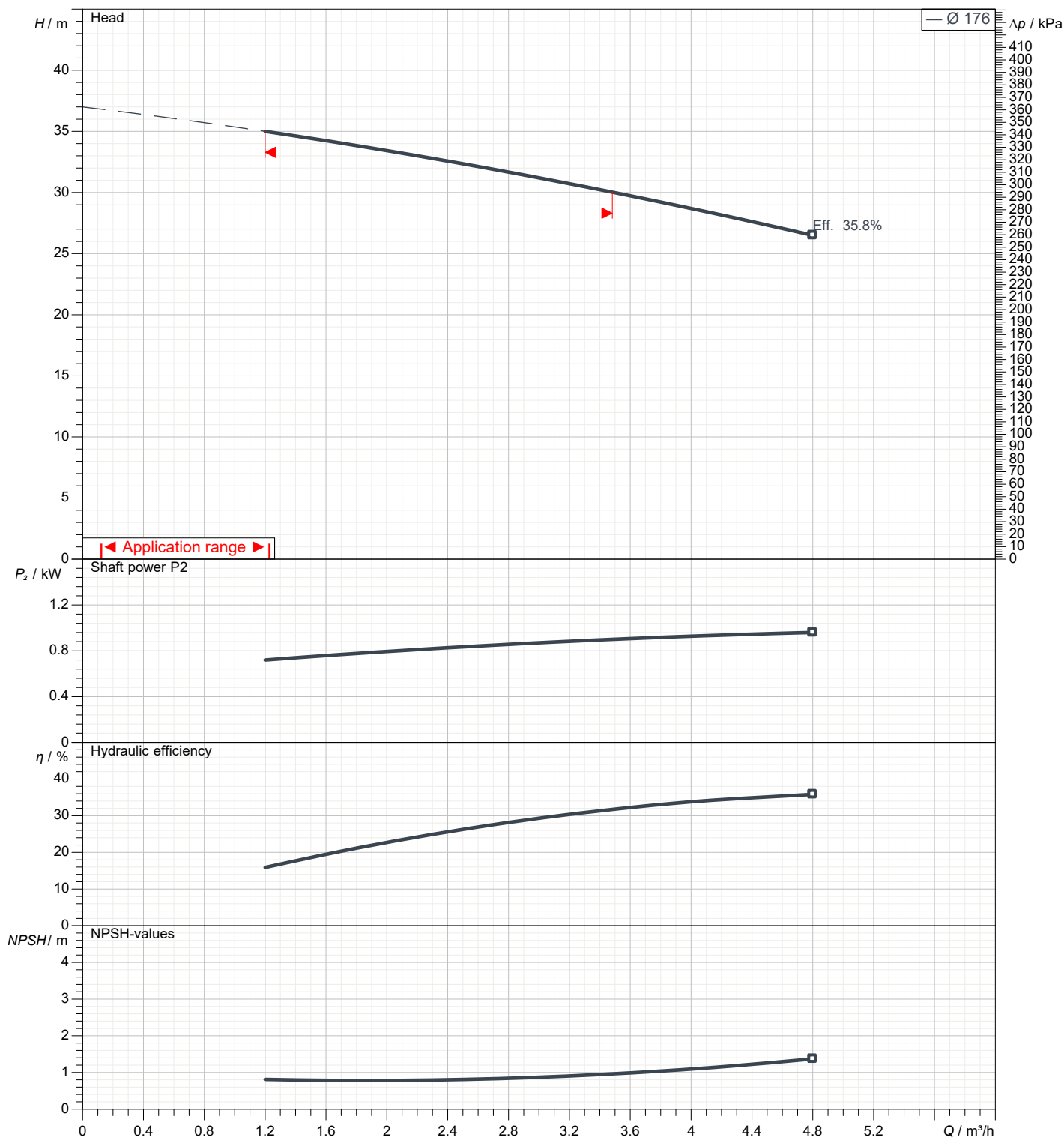
Requested data

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	176	Speed	rpm	2800

Pump

Test standard: ISO 9906:2012 - Grade3B

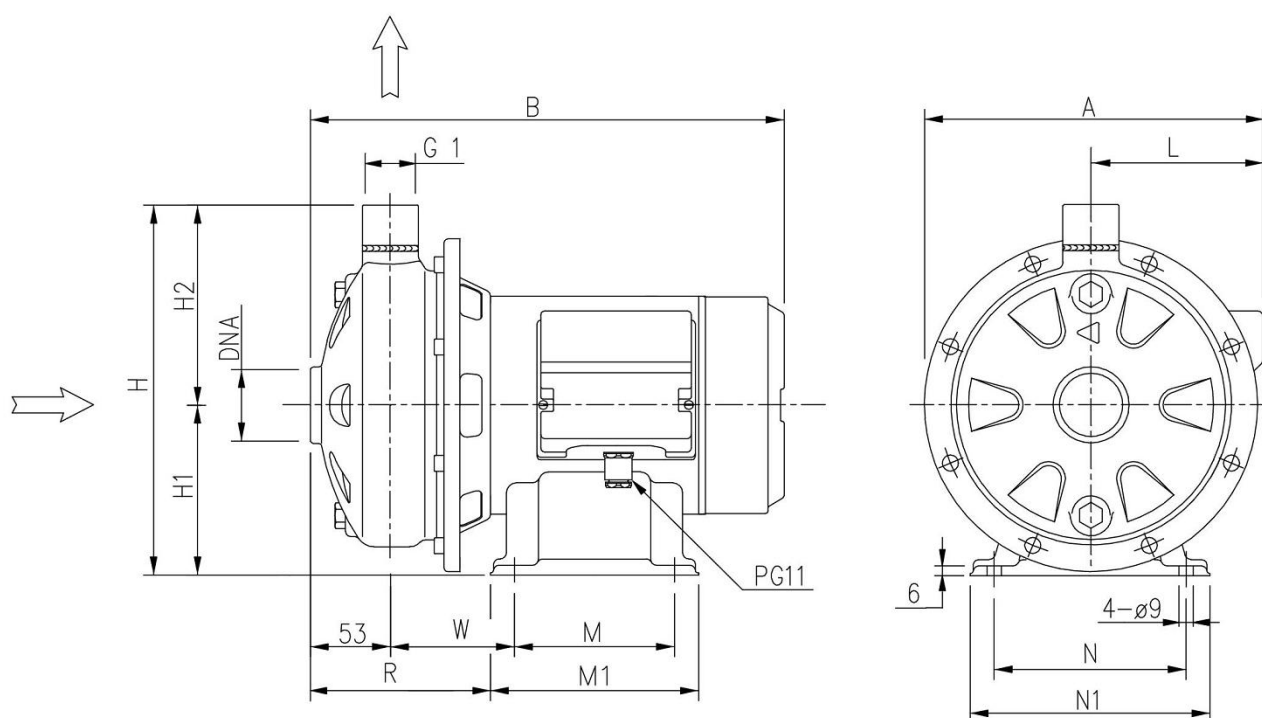
Water; 20°C; 998.3kg/m³; 1cSt



Dimensions

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Dimensions in mm								
1	A	208						
2	B	328						
3	DNA	G 1" 1/4						
4	H	229.5						
5	H1	106						
6	H2	123.5						
7	L	104						
8	M	100						
9	M1	130						
10	N	120						
11	N1	150						
12	R	135.5						
13	W	97.5						
14	Weight P&M	[13].2kg						
15								

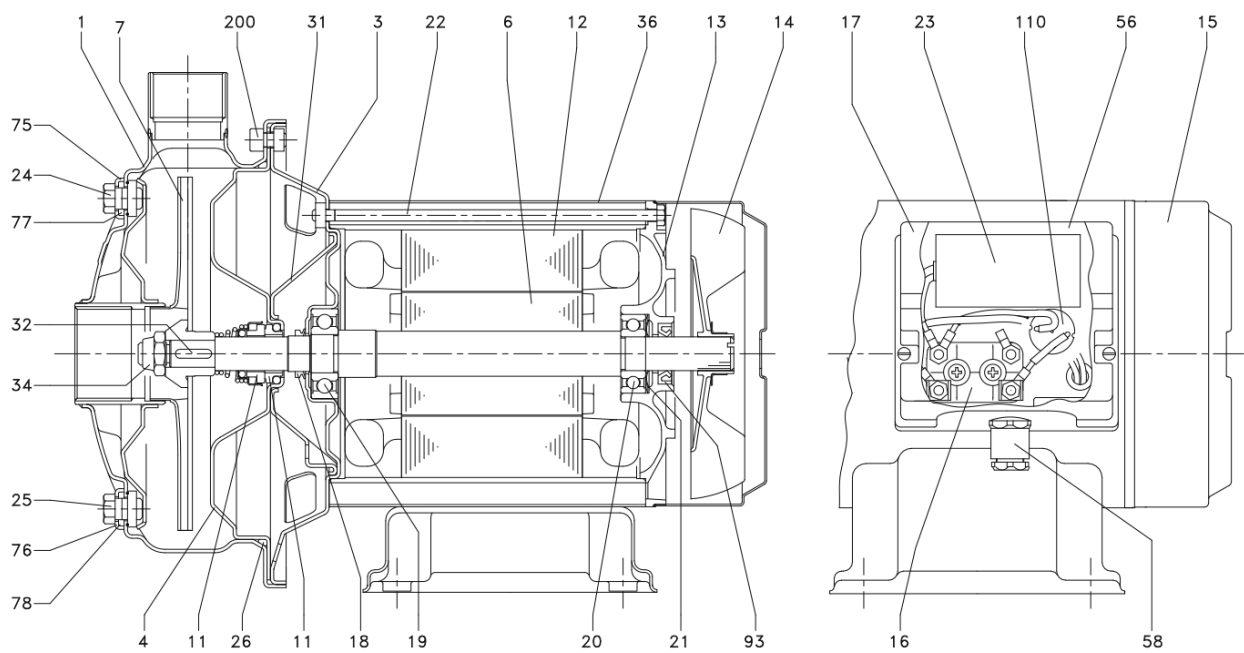
(1/3)

Construction

Pump name

CDM 70/12

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(2/3)**Construction****Pump name** CDM 70/12

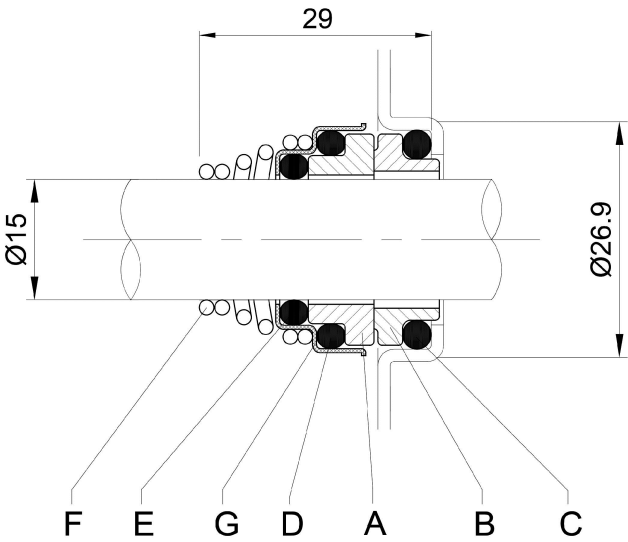
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N°	PART NAME		MATERIAL	DIMENSION	STANDARD	Q.TY
1	Casing		AISI 304			1
3	Motor bracket		AISI 304			1
4	Casing cover		AISI 304			1
6	Shaft with rotor		AISI 303 (Wet extension)			1
7	Impeller		AISI 304			1
11	Mechanical seal	[3]	Ceramic/Carbon/NBR			1
12	Motor frame with stator		-			1
13	Motor cover		Aluminium			1
14	Fan		PA			1
15	Fan cover		AISI 304			1
16	Terminal board		-			1
17	Terminal box cover		PA66 glass fibre reinforced class V-0			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 Galvanized			4
23	Capacitor	[1]	-			1
24	Priming plug		AISI 304			1
25	Drain plug		AISI 304			1
26	O-ring	[2]	NBR			1
31	Thrust flange		AISI 304			1
32	Key		AISI 316	4x4x14	UNI 6604	1
34	Impeller nut		Stainless steel A2-70	M10X1,25	UNI 7474	1
36	Motor casing		AISI 304			1
56	Box gasket		NBR			1
58	Cable entry		-			1
73	Casing ring		-			1
75	Washer		AISI 304			1
76	Washer		AISI 304			1
77	O-ring	[2]	NBR			1
78	O-ring	[2]	NBR			1
93	Lip seal		NBR			1
110	Protector	[1]	-			1
200	Screw	120/07	Stainless steel A2-70	M6X12	UNI 5931	8
		70/12, 120/20		M8X14		

[1] Only for single phase

[2] FPM for H-HS-HW-HSW
EPDM for E and Special Mechanical Seal[3] 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