Technical data

Pump name 2CDX 70/12

Customer	Date 23-June-2020	Company
Contact	Item no.	Issued by
Phone	Project	Phone
E-mail	Project ID	E-mail

Requested data

1	Pump type	CENTRIFUGAL PUMPS	Fluid		Water, clean
2	Number of pumps / Reserve	1 / 0	Liquid temperature	K	293
3	Flow m³/h	0	Kin. viscosity	mm²/s	1
4	Head m	0	Vapour pressure	kPa	2.2
5	Geodetic head m	0	PH value		7
6	Inlet pressure (pin) kPa	10	Density	kg/m³	1000
7	Available system NPSH	0	Solids	Weight %	0
8	Ambient temperature K	290			

Pump

9	Pump name	2CDX 70/12	Frequency		Hz	50
10	Design	CENTRIFUGAL PUMPS	Installation type			STANDARD
11	Manufacturer	EPE	Impeller Diameter	Max.	mm	-
12	Speed 1/min	2800		Designed	mm	153(No.1) / 132(No.1)
13	No. of Stage	2		Min.	mm	-
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	470.08	Head	Operating	m	
18	Total weight kg	See the table of "Dimensions".		- (Qmax.)	m	30.0
19	Shaft power kW			- (Qmin.)	m	44.5
20			Max. Shaft Power at max. impeller		kW	1.06
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_2CDX 70/12_230_Three Phase	Phases		3~
30	Specific design	IE3 / 50 Hz / Pole pairs 1	Frame size		
31	Rated power kW	0.9	Weight	kg	0
32	Number of poles	2	Electric voltage	V	230
33	Speed 1/min	2800	Electric current	A	4.3
34	Degree of protection	IP 55			
35					

Remarks

EBARA

Performance curve

Pump name 2CDX 70/12

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Requested data

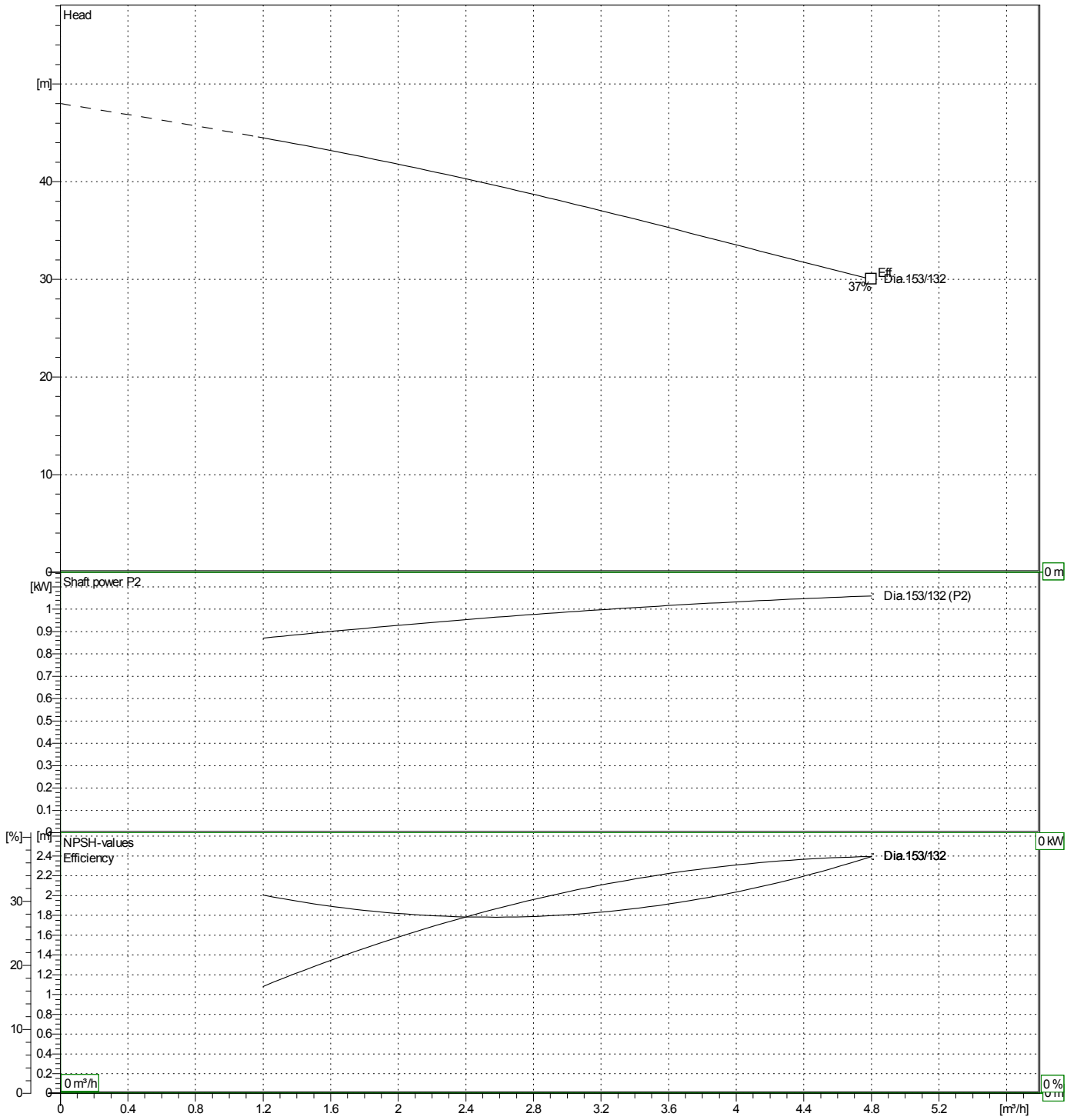
1	Flow	m³/h	0
2	Head	m	0
3	Geodetic head	m	0

Pump

Operating Flow	m³/h		Impeller Diameter Designed	mm	153(No.1) / 132(No.1)
Operating Head	m		Frequency	Hz	50
			Speed	1/min	

Test standard: ISO 9906:2012 - Grade3B

Water, clean [100%] ; 293K; 998.3kg/m³; 1mm²/s

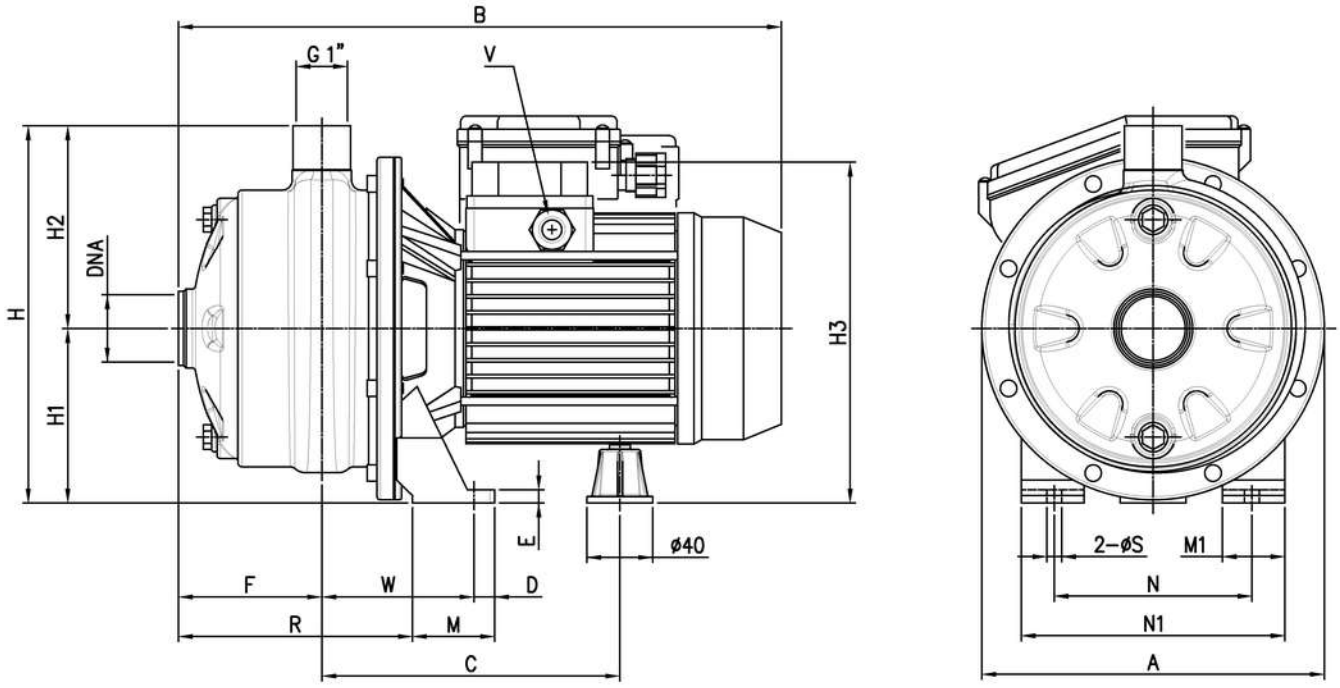


EBARA

Dimensions

Pump name 2CDX 70/12

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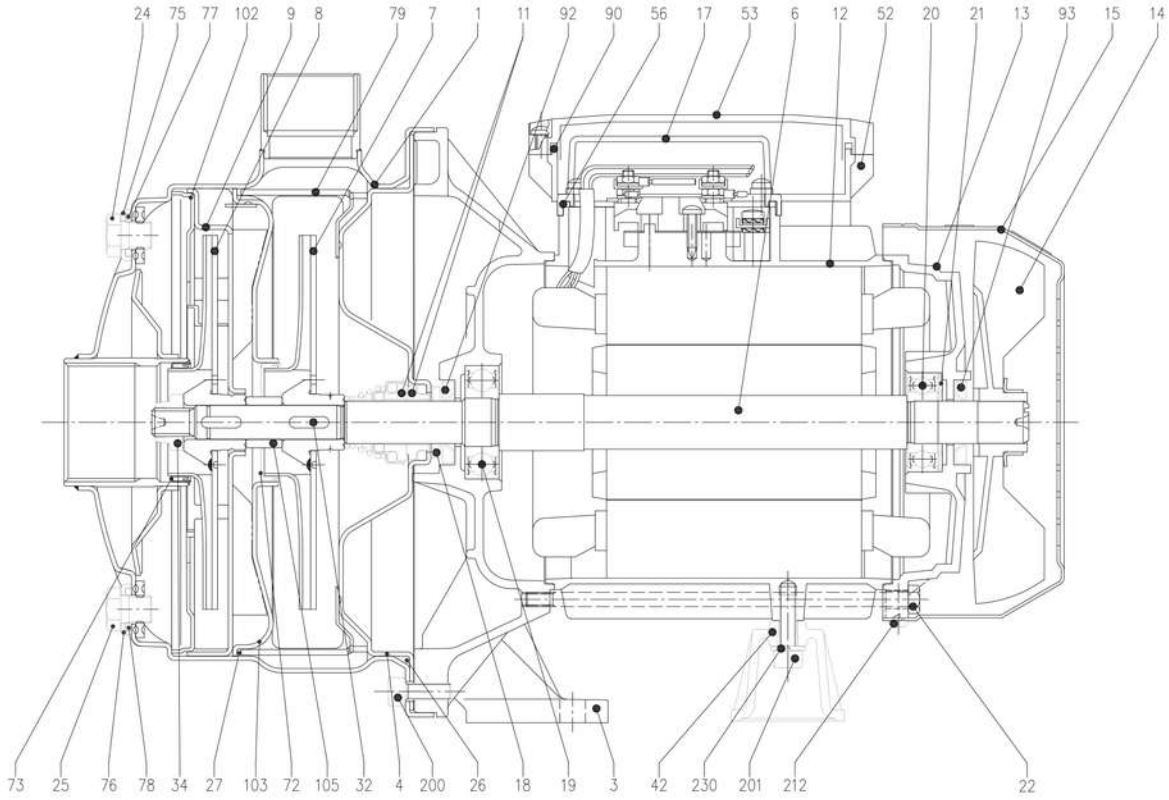
Dimensions in mm								
1	A	208	N	140				
2	B	366	N1	160				
3	C	181	R	142				
4	D	12.5	S	9				
5	DNA	G1 1/4	V	M16X1.5				
6	E	8	W	95				
7	F	89	Weight P&M	13.7 kg				
8	H	229						
9	H1	106						
10	H2	123						
11	H3	207						
12	M	50						
13	M1	40						

EBARA

(1/3)
Construction

Pump name 2CDX 70/12

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EBARA

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Construction

Pump name 2CDX 70/12

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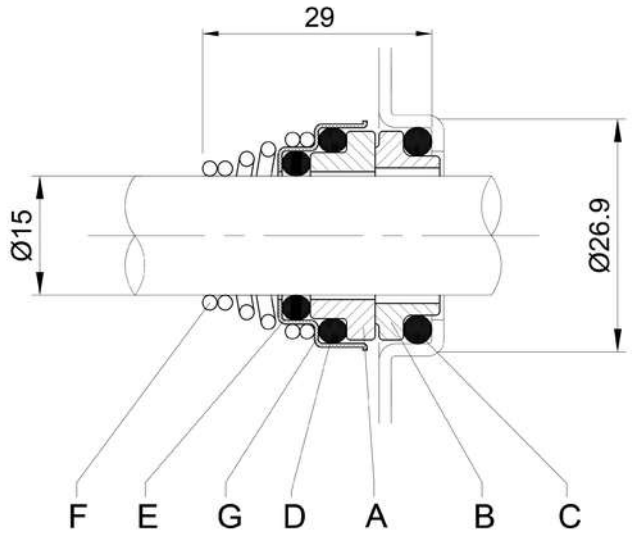
N°	PART NAME	MATERIAL	DIMENSION	STANDARD	Q.TY
1	Casing	AISI 304 / AISI 316L [6]			1
3	Motor bracket	[4]			1
4	Casing cover	AISI 304 / AISI 316L [6]			1
6	Shaft with rotor	AISI 303 / AISI 316L [6] (Wet extension)			1
7	Impeller	AISI 304 / AISI 316L [6]			1
8	Impeller	AISI 304 / AISI 316L [6]			1
9	Diffuser	AISI 304 / AISI 316L [6]			1
11	Mechanical seal [7]	Ceramic/Carbon/NBR			1
12	Motor frame with stator	-			1
13	Motor cover	Aluminium			1
14	Fan	PA			1
15	Fan cover	Fe P04 Galvanized			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 Galvanized			4
24	Priming plug	AISI 304 / AISI 316 [6]			1
25	Drain plug	AISI 304 / AISI 316 [6]			1
26	O-ring [3]	NBR			1
27	O-ring [3]	NBR			1
32	Key	AISI 316			2
34	Impeller nut	Stainless steel A2-70	M10X1,25	UNI 7474	1
42	Motor support	Aluminium			1
52	Capacitor box [1]	ABS class V-0			1
53	Capacitor box cover [1]	ABS class V-0			1
56	Box gasket	NBR			1
72	Casing ring [5]	NBR			1
73	Casing ring [5]	NBR			1
75	Washer	AISI 304			1
76	Washer	AISI 304			1
77	O-ring [3]	NBR			1
78	O-ring [3]	NBR			1
79	Space diffuser	AISI 304 / AISI 316 [6]			1
90	Terminal box cover gasket [1]	NBR			1
92	Lip seal	NBR			1
93	Lip seal	NBR			1
102	Suction cover	AISI 304 / AISI 316 [6]			1
103	Conveyor cover	AISI 304 / AISI 316 [6]			1
105	Sleeve	AISI 304 / AISI 316 [6]			1
200	Screw 70/10, 120/15, 120/20, 200/30	Stainless steel A2-70	M6X16	UNI 5931	8
	Screw 70/12, 70/15, 70/20, 120/30, 120/40, 200/40, 200/50		M8X18		
201	Screw	Zn. Steel cl.8.8		UNI 5931	1
212	Screw	Stainless steel A2	3.5X9.5	UNI 6954	4
230	Washer	Steel C70	6,4	UNI 1751	1

[1] Only for single phase
[2] Only for three phase
[3] FPM for H-HS-HW-HSW
EPDM for E and Special Mechanical Seals
[4] Material: Aluminium for version up to 1.5 kW included
Cast iron for version 2.2 kW and above
[5] FPM for H-HS-HW-HSW
[6] Only for "L" version
[7] See **CONSTRUCTION 3**

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Construction

Pump name 2CDX 70/12

Customer	Date 23-June-2020	Company
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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