

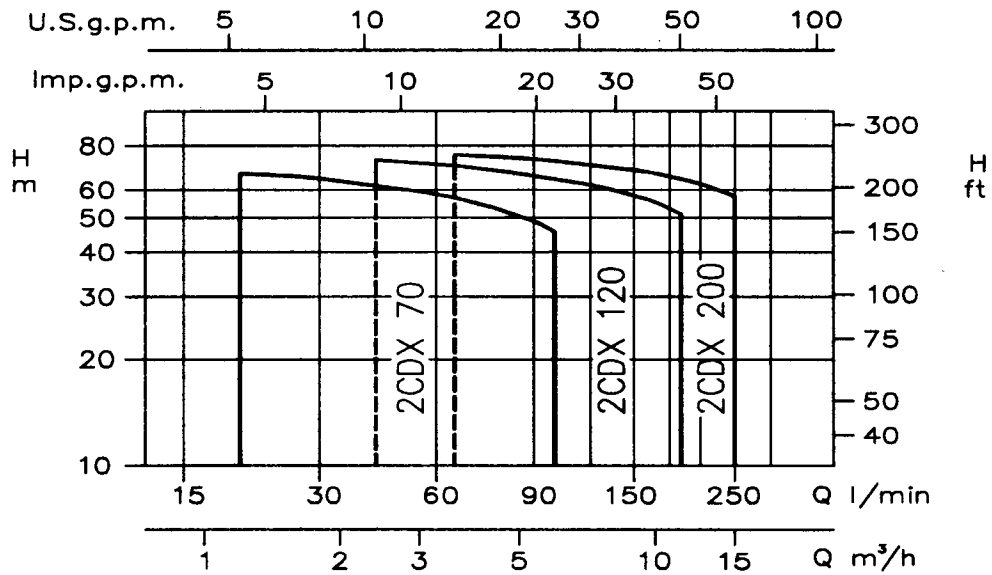
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PUMP		
Liquid handled	Type of liquid	Clean water
	Max. temperature (° C)	60 (CDX 70)
		90 110 (CDXH)
Maximum working pressure (bar)		8
Construction	Impeller	Closed centrifugal type
	Shaft seal type	Mechanical seal
	Bearing	Sealed ball bearing
Pipe Connection	Suction (inch)	from G1" 1/4 to G1" 1/2
	Discharge (inch)	G1"
Materials	Casing	AISI 304
	Impeller	AISI 304
	Casing cover	AISI 304
	Shaft seal	Ceramic/Carbon/NBR (for CDX)
		Ceramic/Carbon/Viton® (for CDXH)
		Sic/Sic/Viton® (optional)
Shaft	AISI 303 (Part in contact with liquid)	
Bracket	Aluminum	
Applicable standard of test		ISO 9906 grade 2

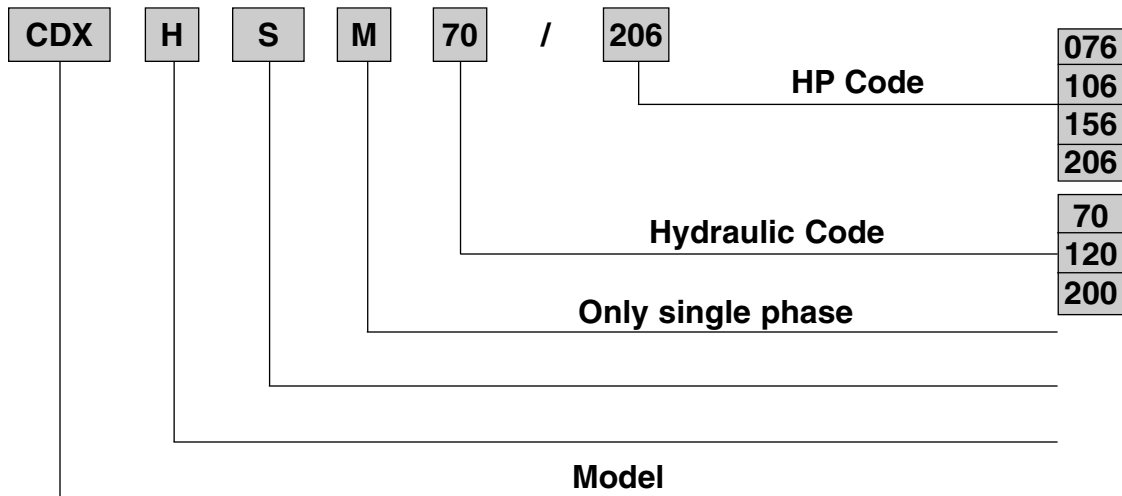
MOTOR		
Type	Electric - TEFC	
	Single Phase	Three Phase
No. of Poles	2	
Synchronous speed (min ⁻¹)	3600	
Insulation class	F	
Protection degree	IP 55	
Power rating	(kW)	0.55 ÷ 1.5
	(HP)	0.75 ÷ 2.0
Frequency (Hz)	60	
Voltage (V)	230	230/460
Capacitor	Built-in	-
Overload protection	Built-in	Provided by the user
Casing material	Aluminum	
Base material/motor support	Aluminum	
Dimensions of cable entry	PG 11 - PG 13.5 (see dimensions page 11)	



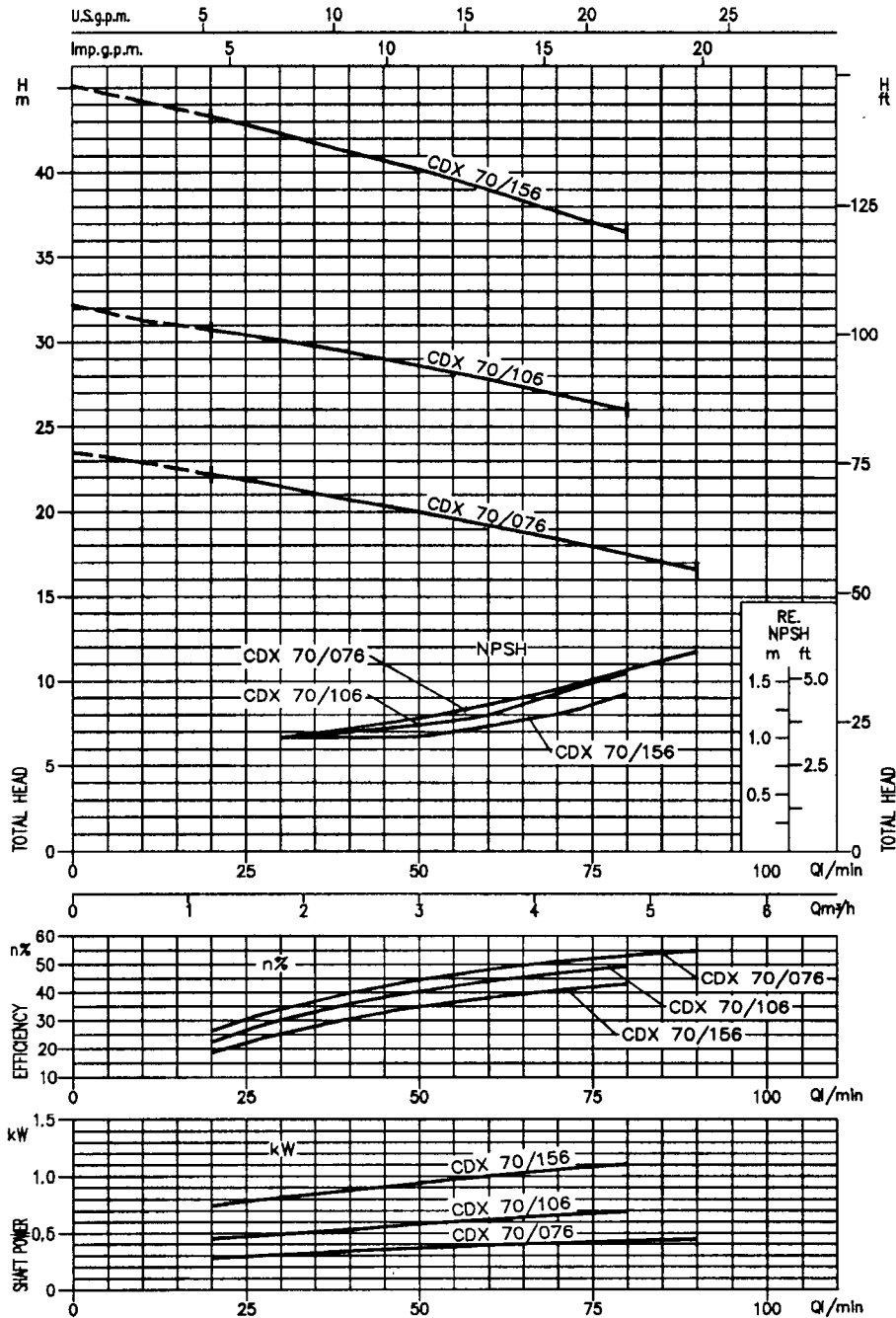


Pump type		kW	HP	Q=Capacity H = Total manometric head in meters										
Single phase 230V 60Hz	Three phase 230/460V 60Hz			l/min 20 m³/h 1.2	50 3	80 4.8	90 5.4	120 7.2	140 8.4	160 9.6	180 10.8	220 13.2	250 15	
CDXM 70/076	CDX 70/076	0.55	0.75	22.2	20	17.5	16.6	-	-	-	-	-	-	
CDXM 70/106	CDX 70/106	0.75	1	30.7	28.6	26	-	-	-	-	-	-	-	
CDXM 70/156	CDX 70/156	1.1	1.5	43.3	40.2	36.5	-	-	-	-	-	-	-	
CDXM 120/106	CDX 120/106	0.75	1	-	21.8	20.2	19.7	18.1	16.8	15.5	14	-	-	
CDXM 120/156	CDX 120/156	1.1	1.5	-	29.9	28.3	27.7	26.2	25	23.7	-	-	-	
CDXM 120/206	CDX 120/206	1.5	2	-	42.7	41	40.4	38.2	36.8	34.8	-	-	-	
CDXM 200/156	CDX 200/156	1.1	1.5	-	-	20.8	20.4	19.4	18.6	17.8	17	15.2	13.6	
CDXM 200/206	CDX 200/206	1.5	2	-	-	29.8	29.5	28.6	27.9	27.2	26.3	24.6	23.2	
CDXM 200/306	CDX 200/306	2.2	3	-	-	35.5	35.1	34	33.3	32.5	31.6	29.8	28.2	

Example:



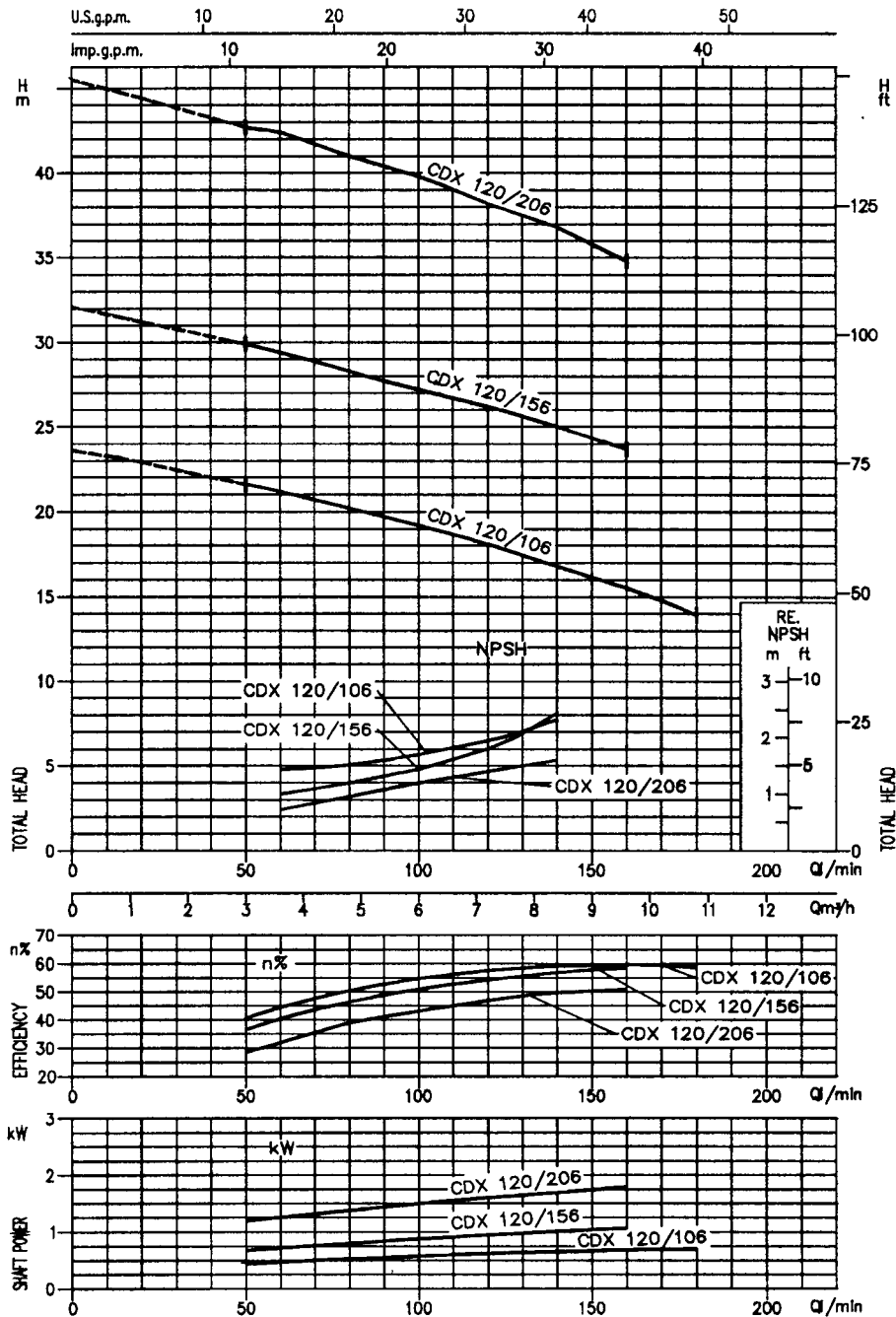
CDXM 70/076 - CDX 70/076 (0.55 kW). Impeller diameter = 115 mm
 CDXM 70/106 - CDX 70/106 (0.75 kW). Impeller diameter = 132 mm
 CDXM 70/156 - CDX 70/156 (1.10 kW). Impeller diameter = 157 mm



Synchronous speed: 3600 min⁻¹
 Temperature of water: 20°C
 Applicable standard of test: ISO 9906 grade 2



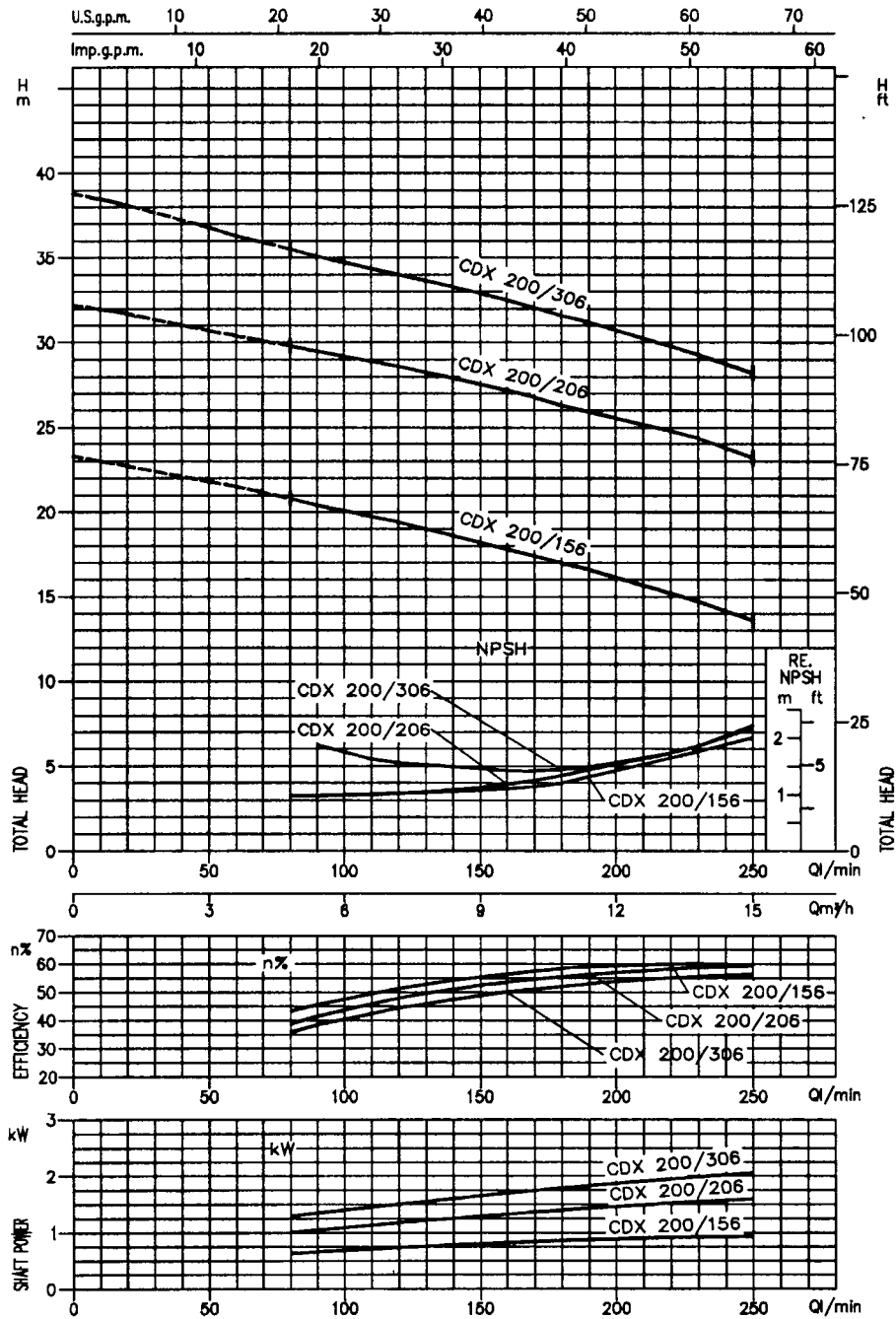
CDXM 120/106 - CDX 120/106 (0.75 kW). Impeller diameter = 115 mm
 CDXM 120/156 - CDX 120/156 (1.10 kW). Impeller diameter = 132 mm
 CDXM 120/206 - CDX 120/206 (1.50 kW). Impeller diameter = 157 mm



Synchronous speed: 3600 min⁻¹
 Temperature of water: 20°C
 Applicable standard of test: ISO 9906 grade 2

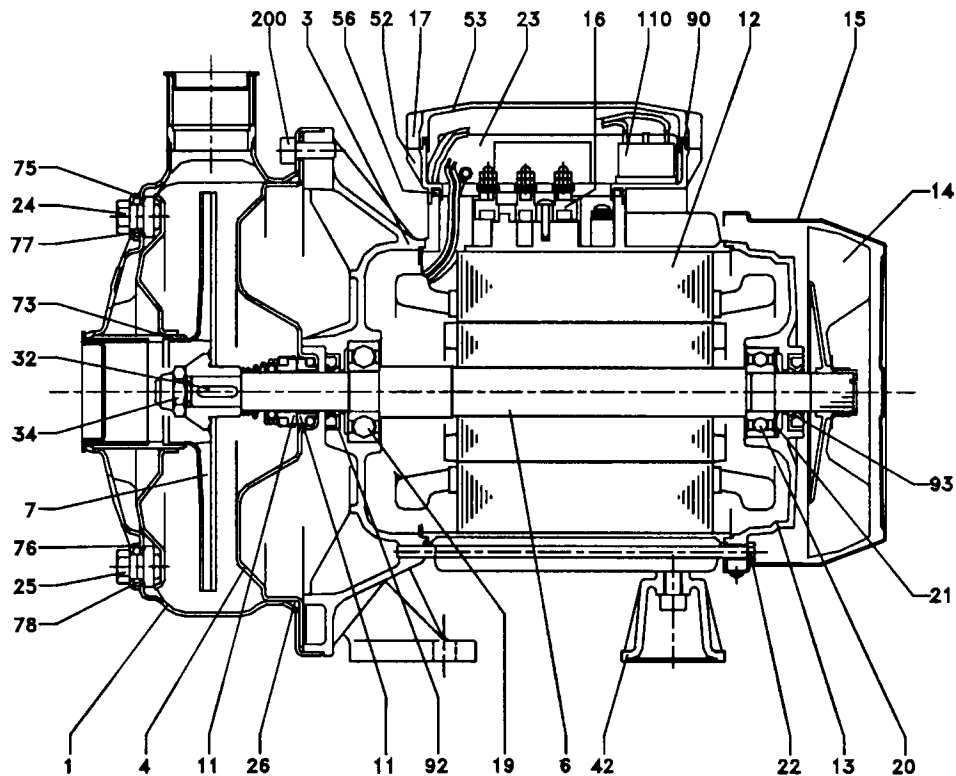


CDXM 200/156 - CDX 200/156 (1.1 kW). Impeller diameter = 115 mm
 CDXM 200/206 - CDX 200/206 (1.5 kW). Impeller diameter = 132 mm
 CDX 200/306 (2.2 kW). Impeller diameter = 144 mm



Synchronous speed: 3600 min⁻¹
 Temperature of water: 20°C
 Applicable standard of test: ISO 9906 grade 2

SECTIONAL VIEW

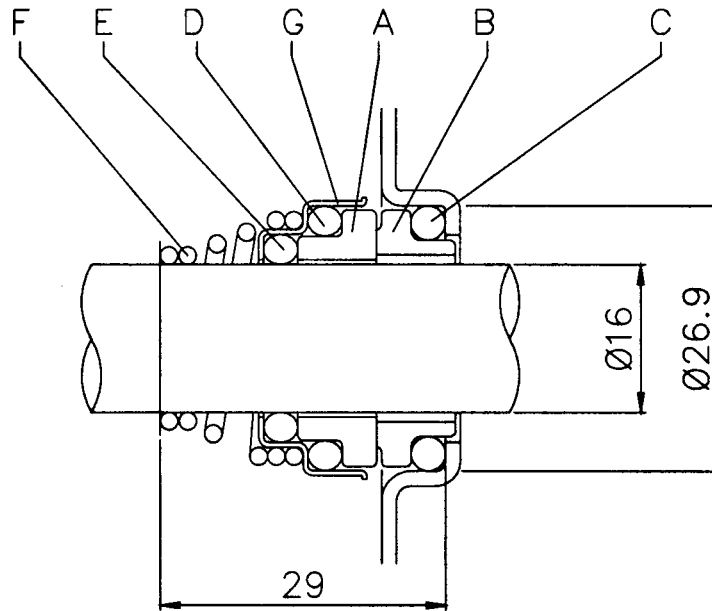


Part No.	Part Name	Material	QTY
1	Casing	AISI 304	1
3	Motor bracket	Aluminum	1
4	Casing cover	AISI 304	1
6	Shaft with rotor	AISI 303 (Part in contact w/ liquid)	1
7	Impeller	AISI 304	1
11	Mechanical seal [3] - [4]	Carbon/Ceramic/NBR	1
12	Motor frame with stator	-	1
13	Motor cover	Aluminum	1
14	Fan	Polypropylene	1
15	Fan cover	Fe P04 Zinked	1
16	Terminal board	-	1
17	Terminal box cover [2]	Aluminum	1
19	Pump side ball bearing	-	1
20	Fan side ball bearing	-	1
21	Adjusting ring	Steel C70	1
22	Tie rod	Fe 420 Zinked	4
23	Capacitor [1]	-	1
24	Priming plug	AISI303	1

Part No.	Part Name	Material	QTY
25	Drain plug	AISI 303	1
26	O-ring [3]	NBR	1
32	Key	AISI 304	1
34	Impeller nut	AISI 304	1
42	Motor support	Aluminum	1
52	Terminal box [1]	Polypropylene	1
53	Terminal box cover [1]	Polypropylene	1
56	Box gasket	NBR	1
73	Casing ring [3] [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
90	Cover gasket [1]	NBR	1
92	Lip seal	-	1
93	Lip seal	-	1
110	Protector [1]	-	1
200	Screw	Stainless steel A2 UNI7323	8

[1] Only for single phase
 [2] Only for three phase
 [3] VITON® for CDXH
 [4] Special version, see page 8
 [5] AISI 304 for CDX 70

MECHANICAL SEAL



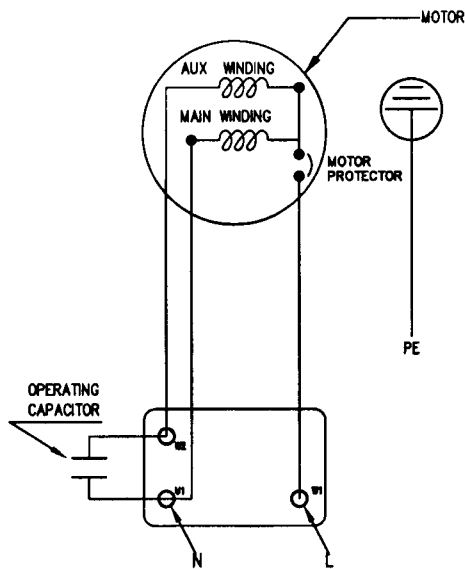
REF.	PART NAME	MATERIAL		
		Standard version CDX	Hot Water version CDXH	Optional
A	Rotary Seal Ring	Ceramic	Ceramic	Silicon carbide
B	Stationary Seal Ring	Carbon graphite	Carbon graphite	Silicon carbide
C	O-ring	NBR	VITON®	VITON®
D	O-ring	NBR	VITON®	VITON®
E	O-ring	NBR	VITON®	VITON®
F	Self driving spring	AISI 316	AISI 316	AISI 316
G	Frame	AISI 304	AISI 304	AISI 316

DIAGRAM AND ELECTRIC CONNECTIONS

SINGLE PHASE MOTOR

WITH INTERNAL MOTORPROTECTOR

FOR 0.75kW AND BELOW



WITH EXTERNAL MOTORPROTECTOR

FOR 1.5kW AND ABOVE

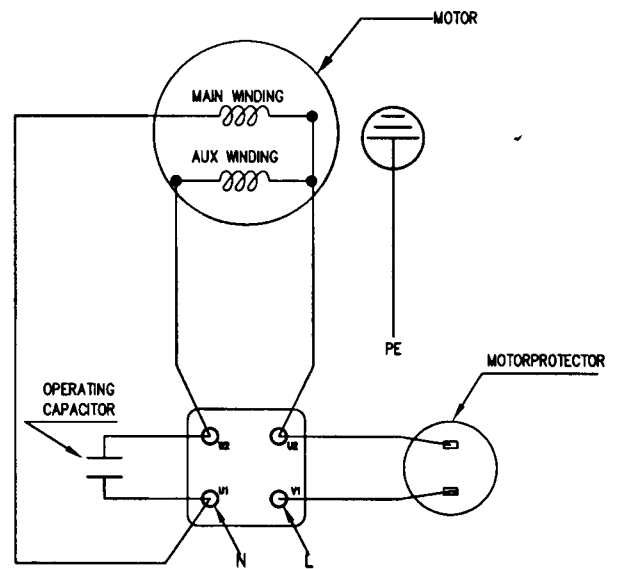
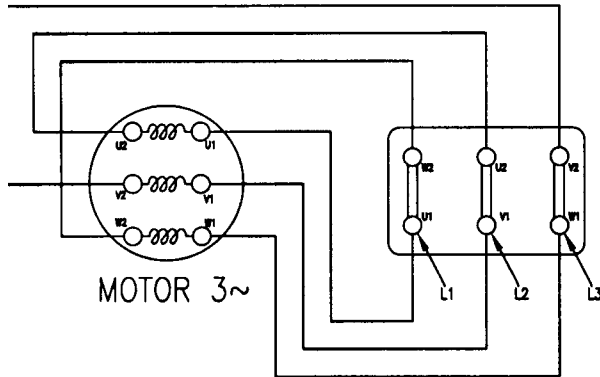


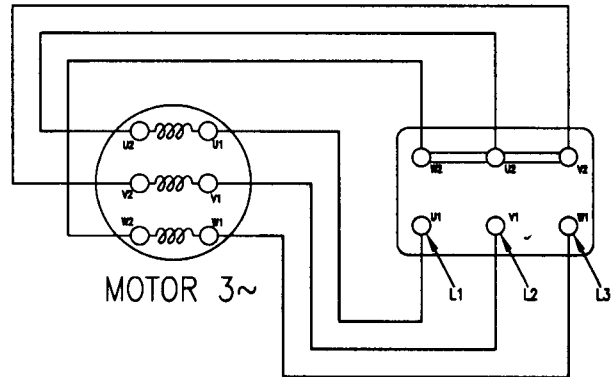
DIAGRAM AND ELECTRIC CONNECTIONS

THREE PHASE MOTOR

DELTA CONNECTION

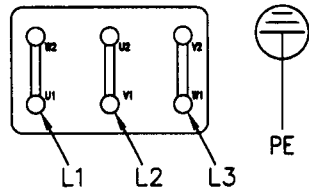


STAR CONNECTION

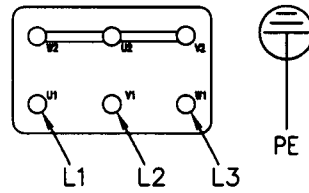


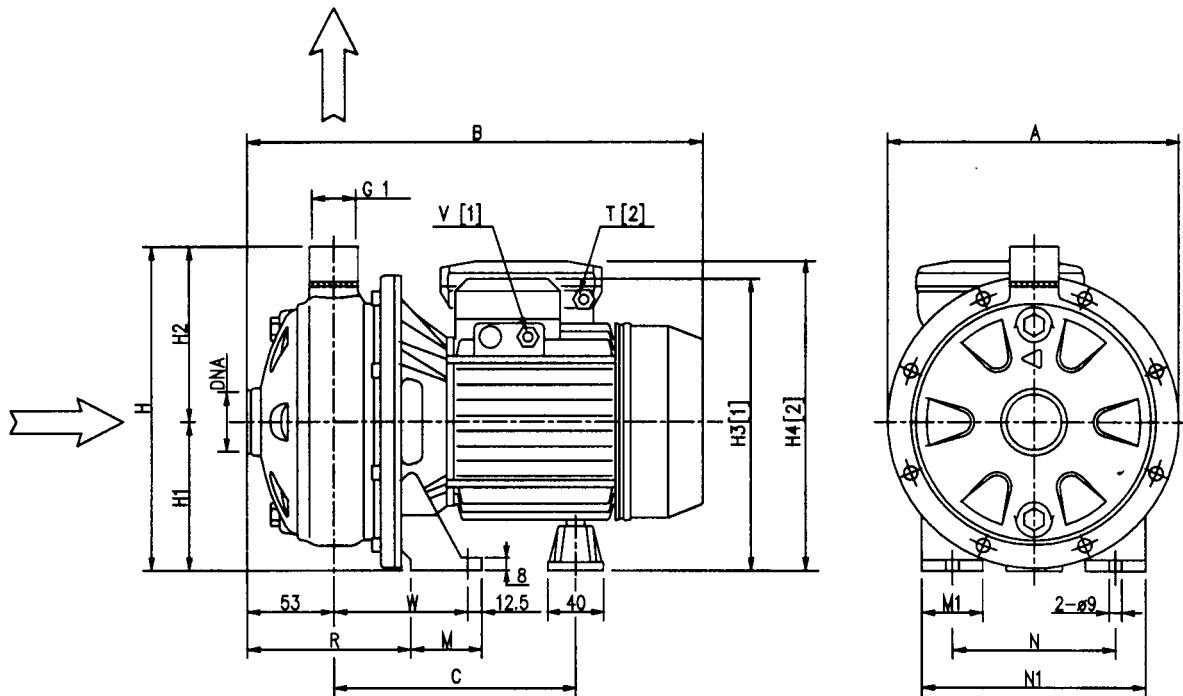
FOR MOTOR 4 kW AND BELOW

DELTA CONNECTION 220 V



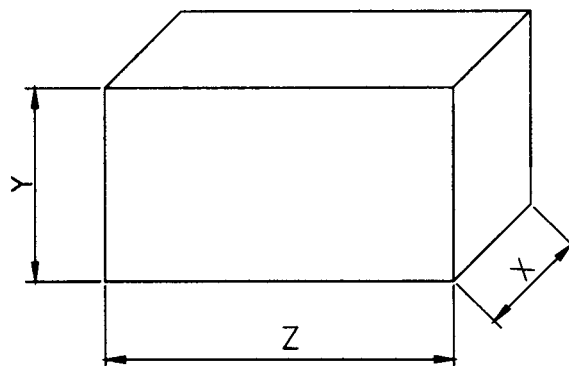
STAR CONNECTION 380 V





Pump type CDXM-CDX	A	B		Dimensions: mm														
		[1]	[2]	C	H	H ₁	H ₂	H ₃	H ₄	M	M ₁	N	N ₁	R	T	V	W	DNA
70/076	208	321.5	321.5	181	229.5	106	123.5	207	211	50	38	120	160	108	PG 11	PG 11	92.5	G 1 ^{3/4}
70/106	208	321.5	321.5	181	229.5	106	123.5	207	211	50	38	120	160	108	PG 11	PG 11	92.5	G 1 ^{3/4}
70/156	208	321.5	321.5	181	229.5	106	123.5	207	211	50	38	120	160	108	PG 11	PG 11	92.5	G 1 ^{3/4}
120/106	208	321.5	321.5	181	229.5	106	123.5	207	211	50	38	120	160	108	PG 11	PG 11	92.5	G 1 ^{3/4}
120/156	208	321.5	321.5	181	229.5	106	123.5	207	211	50	38	120	160	108	PG11	PG11	92.5	G 1 ^{3/4}
120/206	208	346	359	199.5	229.5	106	123.5	221.5	242.5	55	40	140	180	105.5	PG 13.5	PG 11	95	G 1 ^{3/4}
200/156	208	321.5	321.5	181	229.5	106	123.5	207	211	50	38	120	160	108	PG11	PG 11	92.5	G 1 ^{3/2}
200/206	208	346	359	199.5	229.5	106	123.5	221.5	242.5	55	40	140	180	105.5	PG 13.5	PG 11	95	G 1 ^{3/2}
200/306	232	359	-	199.5	250	118	132	233.5	-	55	40	140	180	105.5	-	PG 11	95	G 1 ^{3/2}

[1] – Three phase only
 [2] – Single phase only



Pump type		Packing [mm]			Weight [Kg]	
Single phase	Three phase	X	Y	Z	Single phase	Three phase
CDXM 70/076	CDX 70/076	215	265	332	9.5	9
CDXM 70/106	CDX 70/106	215	265	332	10.5	10
CDXM 70/156	CDX 70/156	215	265	332	13.7	13.7
CDXM 120/106	CDX 120/106	215	265	332	10.5	10
CDXM 120/156	CDX 120/156	215	265	332	12	12
CDXM 120/206	CDX 120/206	239	289	372	16.5	15
CDXM 200/156	CDX 200/156	215	265	332	12	11.5
CDXM 200/206	CDX 200/206	239	289	372	15.5	15
-	CDX 200/306	239	289	372	-	16.5

Pump type		Locked rotor current		
Single phase 230V 60Hz	Three phase 230/460V 60Hz	Single phase 230V 60Hz	Three phase 230/460V 60Hz	
CDXM 70/076	CDX 70/076	15	9.6	5.5
CDXM 70/106	CDX 70/106	22	15	8.5
CDXM 70/156	CDX 70/156	35	25	14.4
CDXM 120/106	CDX 120/106	22	15	8.5
CDXM 120/156	CDX 120/156	35	25	14.4
CDXM 120/206	CDX 120/206	63	44	25.5
CDXM 200/156	CDX 200/156	32	23	13.5
CDXM 200/206	CDX 200/206	63	44	25.5
–	CDX 200/306	–	47	27

Pump type		kW	HP	Ball Bearing		Capacitor		Input in [kW]		Full load current [A]		
Single phase 230V 60HZ	Three phase 230/460V 60HZ			Pump side	Fan side	Single phase µF	VI	Single phase	Three phase	Single phase	Three phase 230V 460V	
CDXM70/076	CDX 70/076	0.55	0.75	6203 ZZ	6202 ZZ	12.5	450	0.7	0.6	3.4	2.0	1.2
CDXM 70/106	CDX 70/106	0.75	1	6203 ZZ	6202 ZZ	14	450	1.1	0.9	5.1	2.9	1.7
CDXM 70/156	CDX 70/156	1.1	1.5	6203 ZZ	6202 ZZ	25	450	1.6	1.4	7.5	4.5	2.6
CDXM 120/106	CDX 120/106	0.75	1	6203 ZZ	6202 ZZ	14	450	1.1	0.9	5.2	2.9	1.7
CDXM 120/156	CDX 120/156	1.1	1.5	6203 ZZ	6202 ZZ	25	450	1.5	1.4	7.2	4.3	2.5
CDXM 120/206	CDX 120/206	1.5	2	6204 ZZ	6203 ZZ	35	450	2.3	2.2	11.3	6.9	4.0
CDXM 200/156	CDX 200/156	1.1	1.5	6203 ZZ	6202 ZZ	20	450	1.4	1.2	6.6	3.9	2.3
CDXM 200/206	CDX 200/206	1.5	2	6204 ZZ	6203 ZZ	35	450	2.1	1.9	10.0	6.2	3.6
–	CDX 200/306	2.2	3	6204 ZZ	6203 ZZ	–	–	–	2.6	–	8.2	4.7

