

CMA - B - C - D - CMR

SINGLE IMPELLER CENTRIFUGAL ELECTRIC PUMPS

in cast iron

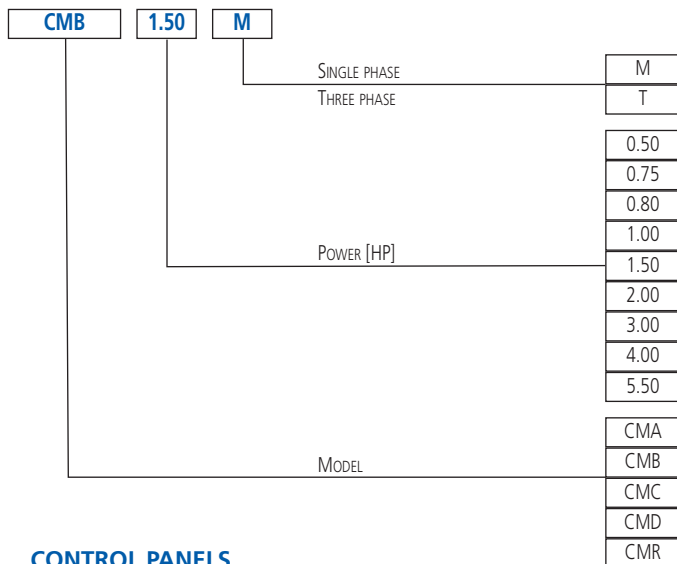


CMA-B-C-D



CMR

CMA-B-C-D - CMR IDENTIFICATION CODE



CONTROL PANELS

- 1EPBH

ACCESSORIES (on request)

- 5 litre 10 bar ¾ EPDM vessel
- 24 litre 8 bar 1" EPDM vessel
- 24 litre 10 bar 1" EPDM vessel
- PVC 5m key float with counter-weight
- PVC 10m key float with counter-weight
- SQUARE-D FSG-2 1.4÷4.6 bar G¼ F pressure switch
- FYG-22 2.8÷7 bar G¼ F pressure switch
- Presscomfort - Pressure regulator
- Press•o•Matic - Variable speed control system (230V±10% single phase - power supply three phase 220V output – maximum motor power 2.2 kW - 3 HP)
- E-drive - Frequency converter

Cast iron self-priming electric pumps.

APPLICATIONS

- Pressure boosting domestic plants
- Small-scale irrigation
- Moving non-aggressive liquids for civil and industrial use
- Washing plants
- Washing vehicles

TECHNICAL DETAILS

- Available with brass impeller (CMA 0.50 M GO, CMA 0.75 M GO, CMA 1.00 M GO)
- The CMR version is equipped with an open impeller
- They can be inserted into machinery for industrial use

PUMP TECHNICAL DATA

- Maximum working pressure:
 - 6 bar for CMA 0.50 - 0.75 - 1.00, CMB 0.75 - 1.00 - 1.50 - 2.00 - 3.00, CMC, CMD, CMR
 - 8 bar for CMA 1.50 - 2.00 - 3.00, CMB 4.00 - 5.50
- Maximum temperature of the liquid:
 - 40°C for CMA 0.50 - 0.75 - 1.00
 - 90°C for the rest of the range
- G1 suction connection for CMA 0.50 - 0.75 - 1.00, G1¼ for CMA 1.50 - 2.00 - 3.00, G2 for CMB - CMC, G2½ for CMD
- G1 discharge connection for CMA, G1¼ for CMB, G1½ for CMR, G2 for CMC, G2½ for CMD
- MEI>0,4 (CMA-CMC), MEI>0,1 (CMB-CMD) For further information please see our Data Book

MOTOR TECHNICAL DATA

- High efficiency motors IE2 starting from 0,75kW
- Self-ventilated 2 pole asynchronous motor
- Class of insulation F
- IP44 Protection degree
- 230V ±10%, 50Hz single phase voltage, 230/400V ±10%, 50Hz three phase voltage
- Permanent capacitor inserted and thermo-amperometric protection with automatic rearm incorporated for the single phase motor
- Protection under user's responsibility for the three phase version

MATERIALS

- Cast iron pump casing
- Mechanical seal in Carbon/Ceramic/NBR
- Impeller:
 - in PPE+PS reinforced with fibreglass for CMA 0.50 - 0.75 - 1.00
 - in brass for CMA 1.50 - 2.00 - 3.00, CMB 2.00 - 3.00 - 4.00 - 5.50, CMR 0.75-1.00
 - in cast iron for CMB 0.75 - 1.00 - 1.50, CMC, CMD
- Shaft:
 - in AISI 416 (integral) for CMA 0.50
 - in AISI 303 (part in contact with the liquid) for CMA CMA 0.75 - 1.00 - 1.50 - 2.00 - 3.00, CMB 0.75 - 1.00, 1.50 - 2.00 - 3.00, CMC 0.75 - 1.00
 - in AISI 304 (part in contact with the liquid) for CMB 4.00 - 5.50, CMD 4.00
- Bracket:
 - in aluminium for CMA 0.50 - 0.75 - 1.00, CMB 0.75 - 1.00, CMC 0.75 - 1.00, CMR 0.75-1.00
 - in cast iron for the rest of the range



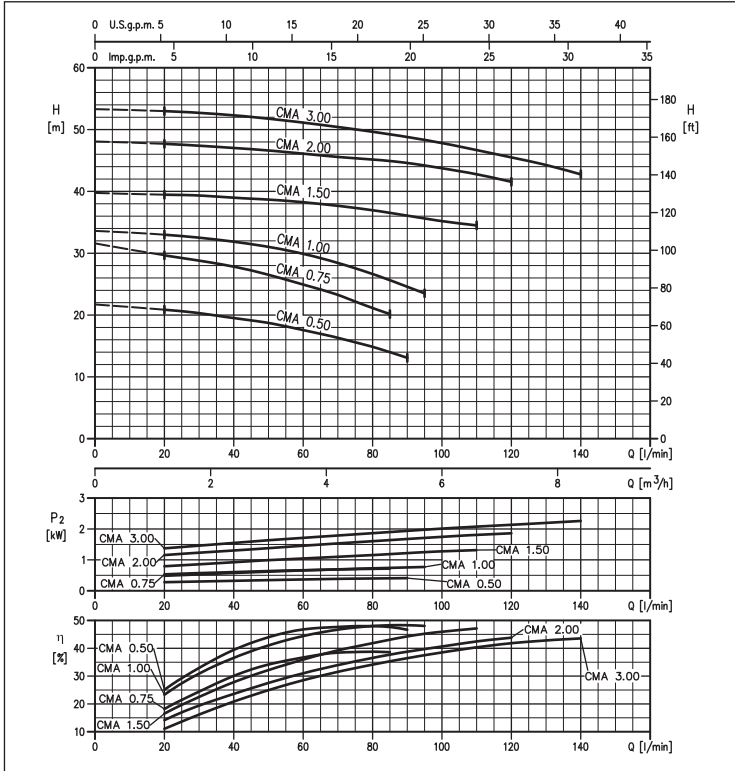
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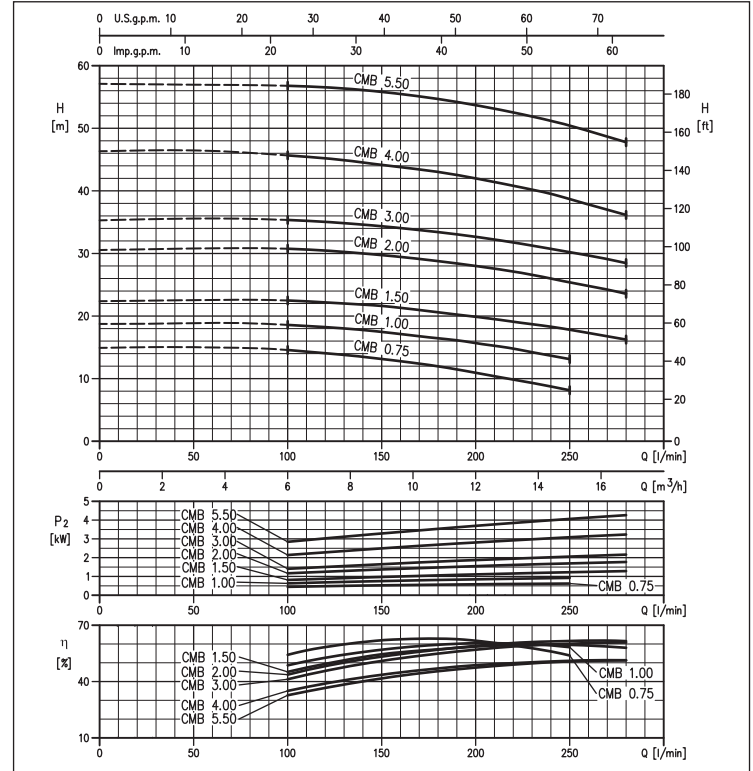
CMA range PERFORMANCE CURVES

(according to ISO 9906 Attachment A)



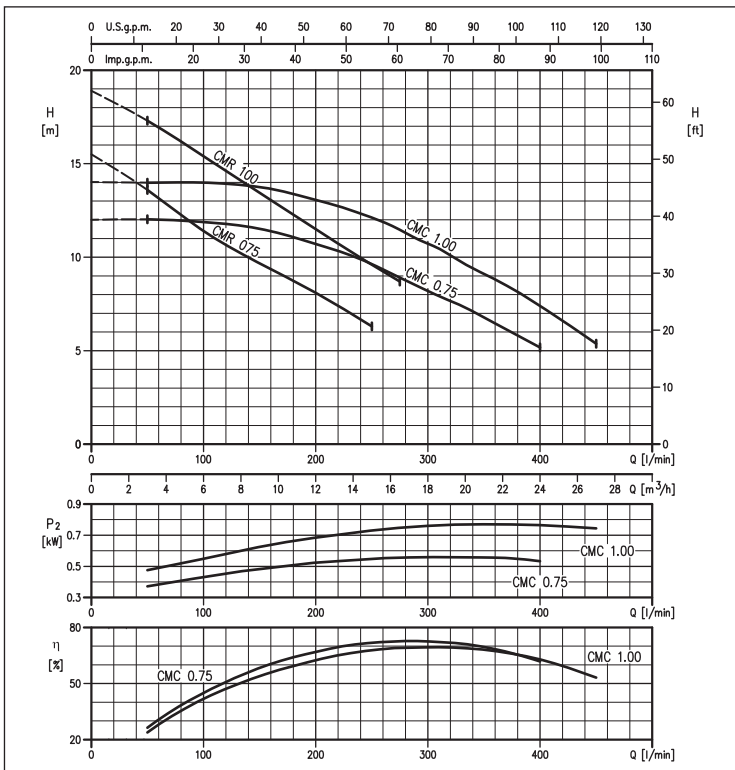
CMB range PERFORMANCE CURVES

(according to ISO 9906 Attachment A)



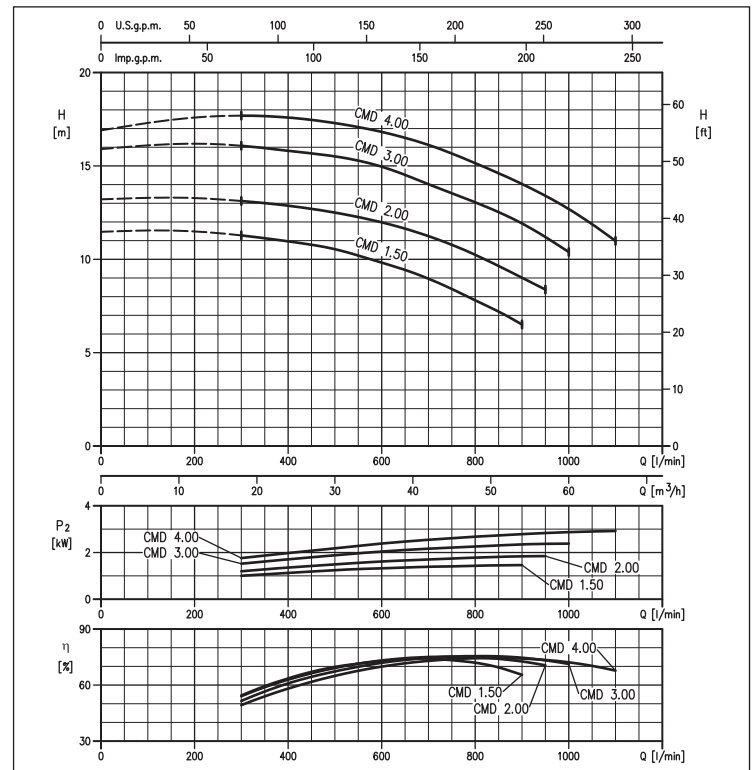
CMC-CMR range PERFORMANCE CURVES

(according to ISO 9906 Attachment A)



CMD range PERFORMANCE CURVES

(according to ISO 9906 Attachment A)



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CMA - B - C - D - CMR

SINGLE IMPELLER CENTRIFUGAL ELECTRIC PUMPS

in cast iron

CMA PERFORMANCE TABLE

Model		P ₂		Q=Flow rate										
Single phase 230V	Three phase 230/400V	[HP]	[kW]	l/min	20	40	60	80	85	90	95	110	120	140
				m ³ /h	1,2	2,4	3,6	4,8	5,1	5,4	5,7	6,6	7,2	8,4
				H=Head [m]										
CMA 0.50 M	CMA 0.50 T	0,5	0,37	20,9	19,5	17,6	14,9	14,0	13,1	-	-	-	-	-
CMA 0.75 M	CMA 0.75 T	0,75	0,55	29,7	27,8	24,9	21,1	20,2	-	-	-	-	-	-
CMA 1.00 M	CMA 1.00 T	1	0,75	33,0	31,9	29,9	26,6	25,6	24,6	23,5	-	-	-	-
CMA 1.50 M	CMA 1.50 T	1,5	1,1	39,5	39,0	38,3	37,0	36,5	36,1	35,6	34,5	-	-	-
CMA 2.00 M	CMA 2.00 T	2	1,5	47,5	47,0	46,0	45,0	45,0	44,5	44,0	43,0	42,0	-	-
-	CMA 3.00 T	3	2,2	53,0	52,5	51,0	49,5	49,0	49,0	48,5	46,5	45,5	42,5	42,5

CMB PERFORMANCE TABLE

Model		P ₂		Q=Flow rate					
Single phase 230V	Three phase 230/400V	[HP]	[kW]	l/min	100	150	200	250	280
				m ³ /h	6	9	12	15,1	16,9
				H=Head [m]					
CMB 0.75 M	CMB 0.75 T	0,75	0,55	14,6	13,2	10,9	8,1	-	-
CMB 1.00 M	CMB 1.00 T	1	0,75	18,6	17,5	15,7	13,1	-	-
CMB 1.50 M	CMB 1.50 T	1,5	1,1	22,5	21,6	20,0	17,8	16,2	-
CMB 2.00 M	CMB 2.00 T	2	1,5	30,8	29,7	28,0	25,4	23,6	-
-	CMB 3.00 T	3	2,2	35,4	34,4	32,7	30,2	28,5	-
-	CMB 4.00 T	4	3	45,5	44,0	42,0	37,8	36,2	-
-	CMB 5.50 T	5,5	4	57,0	56,0	53,5	50,5	48,0	-

CMC PERFORMANCE TABLE

Model		P ₂		Q=Flow rate						
Single phase 230V	Three phase 230/400V	[HP]	[kW]	l/min	50	100	200	300	400	450
				m ³ /h	3	6	12	18,1	24,1	27,1
				H=Head [m]						
CMC 0.75 M	CMC 0.75 T	0,75	0,55	12,0	11,9	10,7	8,3	5,2	-	-
CMC 1.00 M	CMC 1.00 T	1	0,75	14,0	14,0	13,1	10,8	7,4	5,4	-

CMD PERFORMANCE TABLE

Model		P ₂		Q=Flow rate							
Single phase 230V	Three phase 230/400V	[HP]	[kW]	l/min	250	400	600	800	900	950	1000
				m ³ /h	18	24	36	48	54	57	60
				H=Head [m]							
CMD 1.50 M	CMD 1.50 T	1,5	1,1	11,3	11,0	9,8	7,8	6,5	-	-	-
CMD 2.00 M	CMD 2.00 T	2	1,5	13,1	12,9	12,0	10,2	9,0	8,4	-	-
-	CMD 3.00 T	3	2,2	16,1	15,8	15,0	13,1	11,9	11,2	10,4	-
-	CMD 4.00 T	4	3	17,7	17,6	16,8	15,2	14,0	13,4	12,7	-

CMR PERFORMANCE TABLE

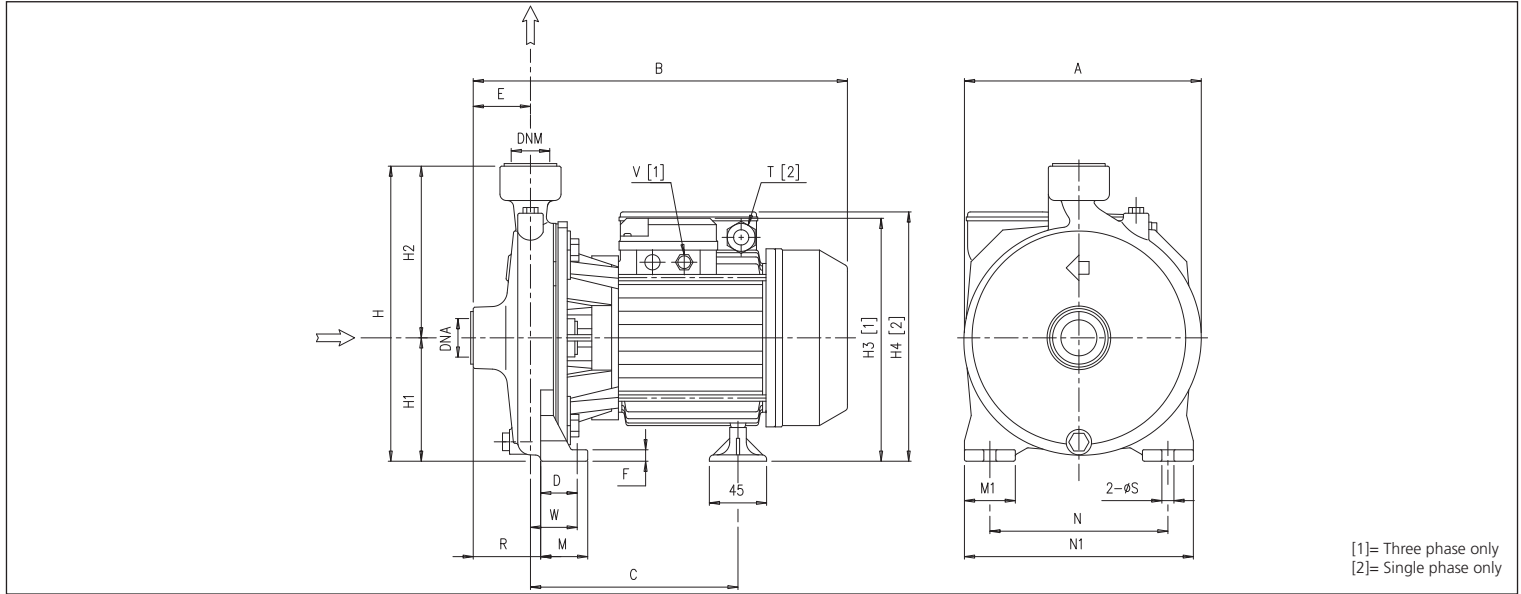
Model		P ₂		Q=Flow rate					
Single phase 230V	Three phase 230/400V	[HP]	[kW]	l/min	50	100	200	250	275
				m ³ /h	3	6	12	15	17,5
				H=Head [m]					
CMR 0.75 M	CMR 0.75 T	0,75	0,55	13,6	11,4	8,1	6,3	-	-
CMR 1.00 M	CMR 1.00 T	1	0,75	17,3	15,4	11,5	9,6	8,7	-

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CMA-B-C-D - CMR DIMENSIONS



DIMENSIONS TABLE

Model	Dimensions [mm]																			Weight [kg]			
	A	B	C	D	E	F	H	H1	H2	H3 [1]	H4 [2]	M	M1	N	N1	R	T [2]	V [1]	W		S	DNA	DNM
CMA 0.50 M	160	261,8	158,8	30	44	8	202	82	120	-	173	40	40	110	150	44	PG11	-	30	9,5	G 1	G 1	7,2
CMA 0.50 T	160	261,8	158,8	30	44	8	202	82	120	172,5	-	40	40	110	150	44	-	PG11	30	9,5	G 1	G 1	7,1
CMA 0.75 M	185	300,3	171,8	36,8	45	9	232	97	135	-	198	45	40	140	180	45	PG11	-	36,8	9,5	G 1	G 1	10,3
CMA 0.75 T	185	300,3	171,8	36,8	45	9	232	97	135	197,5	-	45	40	140	180	45	-	PG11	36,8	9,5	G 1	G 1	10,2
CMA 1.00 M	185	300,3	171,8	36,8	45	9	232	97	135	-	198	45	40	140	180	45	PG11	-	36,8	9,5	G 1	G 1	11,5
CMA 1.00 T	185	300,3	171,8	36,8	45	9	232	97	135	197,5	-	45	40	140	180	45	-	PG11	36,8	9,5	G 1	G 1	11,6
CMA 1.50 M	200	347,3	208,3	41,8	45,5	9	252	100	152	-	232	50	40	155	194	45,5	PG13,5	-	41,8	9,5	G 1 ¼	G 1	19,5
CMA 1.50 T	200	347,3	208,3	41,8	45,5	9	252	100	152	214	-	50	40	155	194	45,5	-	PG11	41,8	9,5	G 1 ¼	G 1	19,9
CMA 2.00 M	225	360,3	208,3	41,8	45,5	9	285	115	170	-	247	50	40	180	220	45,5	PG13,5	-	41,8	9,5	G 1 ¼	G 1	22,8
CMA 2.00 T	225	361	208,3	41,8	45,5	9	285	115	170	229	-	50	40	180	220	45,5	-	PG11	41,8	9,5	G 1 ¼	G 1	23,4
CMA 3.00 T	225	360,3	208,3	41,8	45,5	9	285	115	170	229	-	50	40	180	220	45,5	-	PG11	41,8	9,5	G 1 ¼	G 1	23,4
CMB 0.75 M	188	315,3	182,3	36,8	49,5	9	251,5	101,5	150	-	127,5	45	40	140	180	65,5	PG11	-	52,8	9,5	G 2	G 1 ¼	11,6
CMB 0.75 T	188	315,3	182,3	36,8	49,5	9	251,5	101,5	150	127	-	45	40	140	180	65,5	-	PG11	52,8	9,5	G 2	G 1 ¼	11,6
CMB 1.00 M	188	315,3	182,3	36,8	49,5	9	251,5	101,5	150	-	127,5	45	40	140	180	65,5	PG11	-	52,8	9,5	G 2	G 1 ¼	13,7
CMB 1.00 T	188	315,3	182,3	36,8	49,5	9	251,5	101,5	150	127	-	45	40	140	180	65,5	-	PG11	52,8	9,5	G 2	G 1 ¼	13,7
CMB 1.50 M	188	349,3	206,3	36,8	49,5	9	251,5	101,5	150	-	233,5	45	40	140	180	65,5	PG13,5	-	52,8	9,5	G 2	G 1 ¼	19,9
CMB 1.50 T	188	349,3	206,3	36,8	49,5	9	251,5	101,5	150	215,5	-	45	40	140	180	65,5	-	PG11	52,8	9,5	G 2	G 1 ¼	19,5
CMB 2.00 M	200	373,3	209,3	36,8	57,5	9	271,5	111,5	160	-	243,5	45	40	160	200	76,5	PG13,5	-	55,8	9,5	G 2	G 1 ¼	21,0
CMB 2.00 T	200	374	209,3	36,8	57,5	9	271,5	111,5	160	225,5	-	45	40	160	200	76,5	-	PG11	55,8	9,5	G 2	G 1 ¼	22,0
CMB 3.00 T	200	373,3	209,3	36,8	57,5	9	271,5	111,5	160	225,5	-	45	40	160	200	76,5	-	PG11	55,8	9,5	G 2	G 1 ¼	21,3
CMB 4.00 T	247	428,8	222,3	48	60	12	323,5	133,5	190	264,5	-	60	50	190	240	77,5	-	PG16	65,5	12	G 2	G 1 ¼	37,7
CMB 5.50 T	247	469	222,3	48	60	12	323,5	133,5	190	264,5	-	60	50	190	240	77,5	-	PG16	65,5	12	G 2	G 1 ¼	43,4
CMC 0.75 M	186	313,3	186,8	36,8	43	9	247	97	150	-	198	45	40	140	180	63,5	PG11	-	57,3	9,5	G 2	G 2	11,6
CMC 0.75 T	186	313,3	186,8	36,8	43	9	247	97	150	197,5	-	45	40	140	180	63,5	-	PG11	57,3	9,5	G 2	G 2	11,6
CMC 1.00 M	186	313,3	186,8	36,8	43	9	247	97	150	-	198	45	40	140	180	63,5	PG11	-	57,3	9,5	G 2	G 2	13,0
CMC 1.00 T	186	313,3	186,8	36,8	43	9	247	97	150	197,5	-	45	40	140	180	63,5	-	PG11	57,3	9,5	G 2	G 2	13,8
CMD 1.50 M	213	384,3	222,8	36,8	68	12	271,5	111,5	160	-	243,5	45	40	160	200	100,5	PG13,5	-	69,3	9,5	G 2 ½	G 2 ½	21,3
CMD 1.50 T	213	384,3	222,8	36,8	68	12	271,5	111,5	160	225,5	-	45	40	160	200	100,5	-	PG11	69,3	9,5	G 2 ½	G 2 ½	22,2
CMD 2.00 M	213	397,3	222,8	36,8	68	12	271,5	111,5	160	-	243,5	45	40	160	200	100,5	PG13,5	69,3	9,5	G	G 2 ½	G 2 ½	23,0
CMD 2.00 T	213	398	222,8	36,8	68	12	271,5	111,5	160	225,5	-	45	40	160	200	100,5	-	PG11	69,3	9,5	G 2 ½	G 2 ½	23,3
CMD 3.00 T	213	397,3	222,8	36,8	68	12	271,5	111,5	160	225,5	-	45	40	160	200	100,5	-	PG11	69,3	9,5	G 2 ½	G 2 ½	23,0
CMD 4.00 T	213	449,3	234,8	36,8	68	12	271,5	111,5	160	354	-	45	50	160	200	100,5	-	PG16	69,3	9,5	G 2 ½	G 2 ½	34,3
CMR 0.75 M	180	310,3	181,8	36,8	45	9	229	97	132	197,5	198	45	40	140	180	60,5	PG11	PG11	52,3	9,5	G 1 ½	G 1 ½	10,7
CMR 0.75 T	180	310,3	181,8	36,8	45	9	229	97	132	197,5	198	45	40	140	180	60,5	PG11	PG11	52,3	9,5	G 1 ½	G 1 ½	10,7
CMR 1.00 M	180	310,3	181,8	36,8	45	9	229	97	132	197,5	198	45	40	140	180	60,5	PG11	PG11	52,3	9,5	G 1 ½	G 1 ½	11,9
CMR 1.00 T	180	310,3	181,8	36,8	45	9	229	97	132	197,5	198	45	40	140	180	60,5	PG11	PG11	52,3	9,5	G 1 ½	G 1 ½	12,7

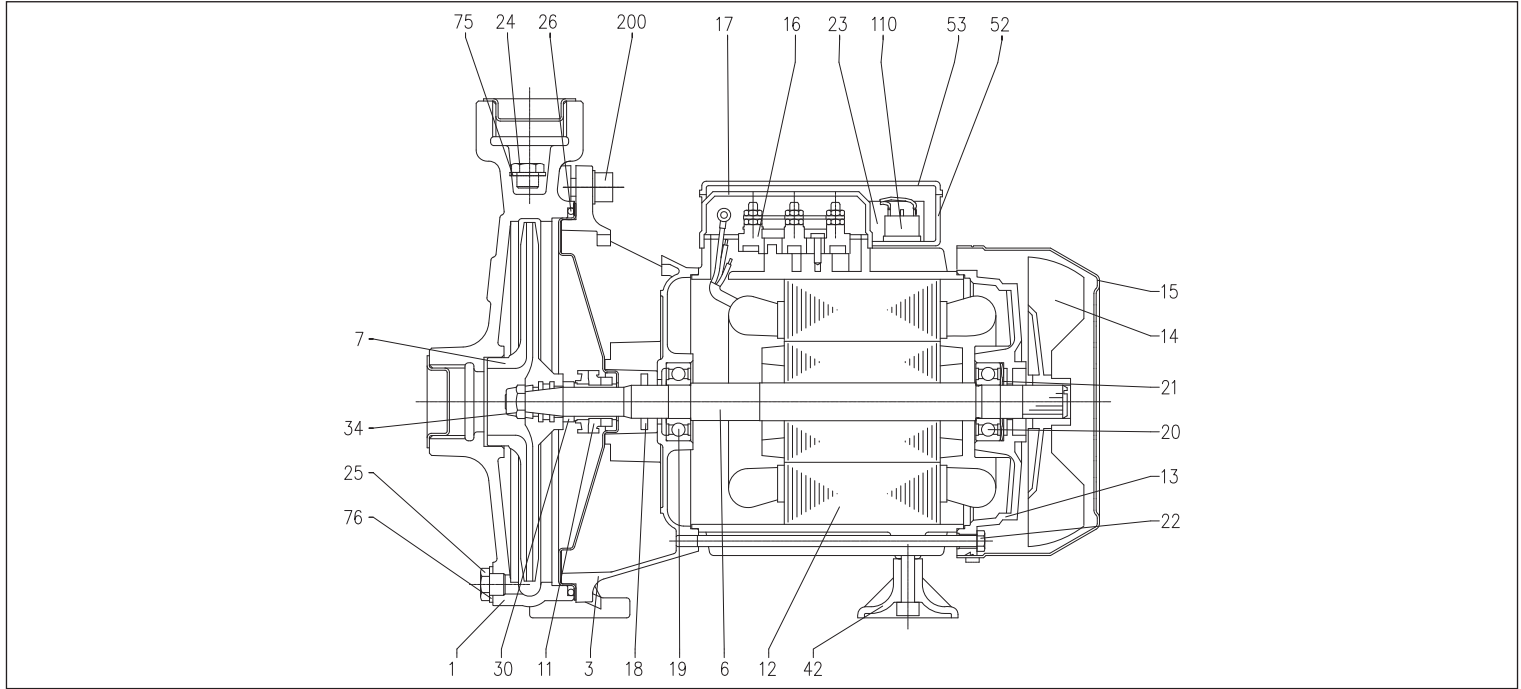
[1]= Three phase only
[2]= Single phase only

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SINGLE IMPELLER CENTRIFUGAL ELECTRIC PUMPS

in cast iron

SECTIONAL VIEW for CMA-B-C-D up to 1.00 HP



MATERIALS TABLE

Ref.	Name	Material	Ref.	Name	Material
1	Pump body	Cast iron	21	Adjusting ring	Steel C70
3	Motor support	Aluminium	22	Tie-rod	Galvanised Fe 42
4	Seal housing disc	AISI 304	23	Capacitor [2]	-
6	Shaft	[3]	24	Filler cap	Brass
7	Impeller	[4]	25	Drain plug	Brass
11	Mechanical seal	Carbon/Ceramic/NBR	26	O-Ring	NBR
12	Motor casing with stator	-	30	Seal spacer [5]	Brass
13	Motor cover	Aluminium	34	Impeller nut [6]	AISI 304
14	Fan	PA6	42	Foot	PP
15	Fan cover	Galvanised Fe P04	52	Capacitor-holder box [2]	ABS
16	Terminal box	-	53	Capacitor-holder box cover [2]	ABS
17	Terminal box cover [1]	Aluminium	75	Washer	Aluminium
18	Spray protector ring	NBR	76	Washer	Aluminium
19	Bearing (pump side)	-	110	Protector [2]	-
20	Bearing (motor side)	-	200	Screw (Pump body)	Zn stainless steel Cl. 8.8 ISO 898-1

[1]= For Three phase only

[3]= AISI 416 (integral) for CMA 0.50, AISI 303 (part in contact with the liquid) for the rest of the range

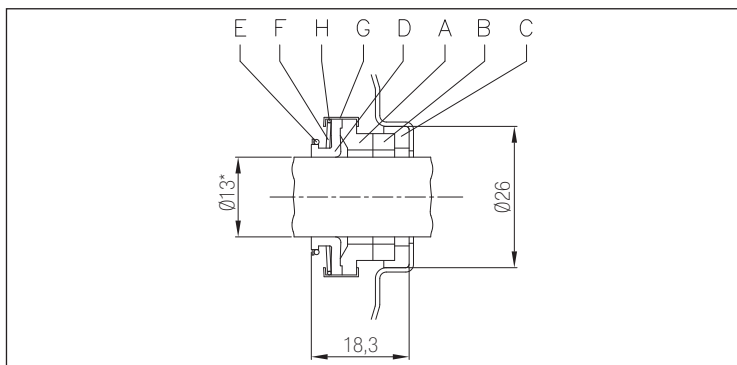
[5]= Solo CMA 0.50, CMB 0.75 - 1.00, CMC 0.75 - 1.00 only

[2]= For single phase only

[4]= PPE+PS reinforced with fibreglass per CMA, cast iron for CMB, CMC

[6]= Except for CMA 0.50

MECHANICAL SEAL per CMA-B-C-D up to 1.00 HP



MATERIALS TABLE

Ref.	Name	Material
A	Rotating part	Carbon
B	Fixed part	Ceramic
C	Gasket	NBR
D	Diaphragm	NBR
E	Ring	AISI 304
F	Spring	AISI 304
G	Structure/frame	AISI 304
H	Retainer ring	AISI 304

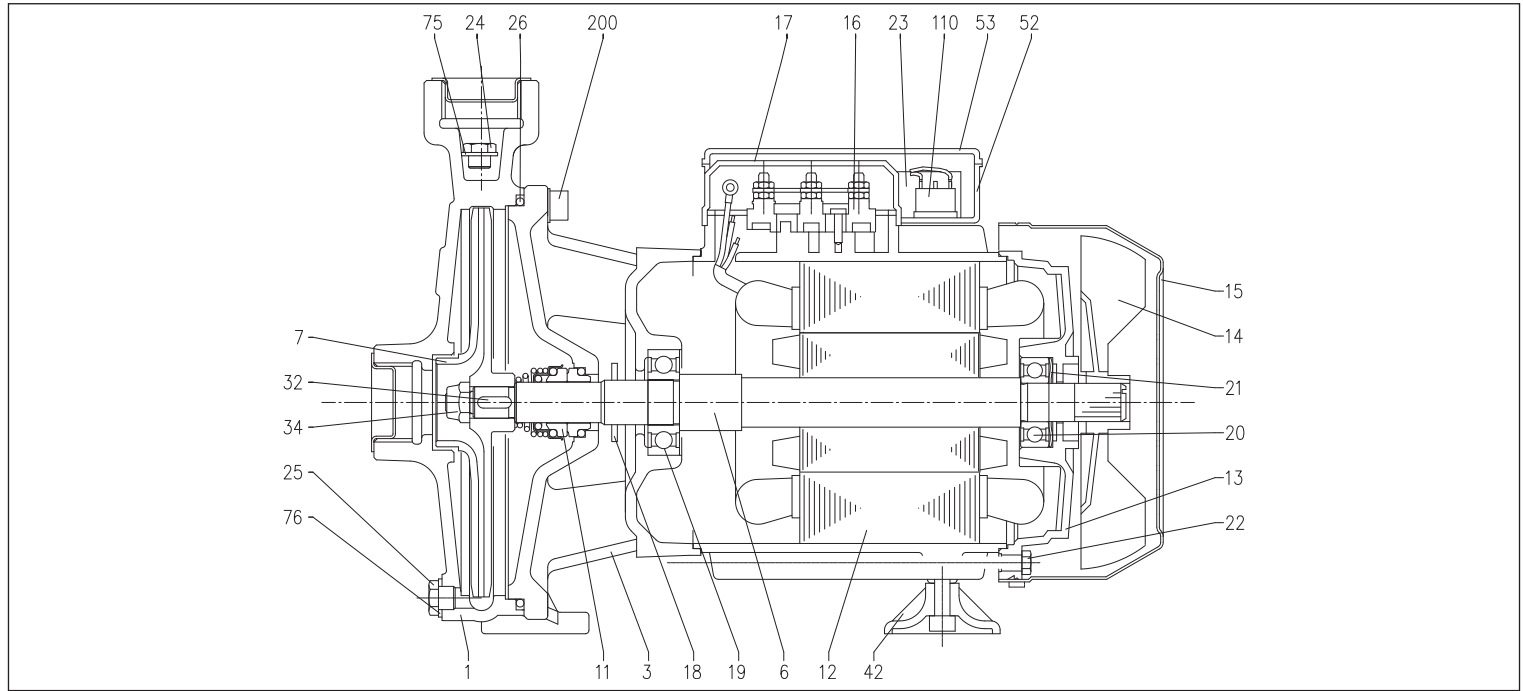
*= Ø12 per CMA 0.50

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in cast iron

SECTIONAL VIEW for CMA-B-C-D up to 1.50 HP and over



MATERIALS TABLE

Ref.	Name	Material	Ref.	Name	Material
1	Pump body	Cast iron	22	Tie-rod	Galvanised Fe 42
3	Motor support	Cast iron	23	Capacitor [2]	-
6	Rotor shaft	[3]	24	Filler cap	Brass
7	Impeller	[4]	25	Drain plug	Brass
11	Mechanical seal	Carbon/Ceramic/NBR	26	O-Ring	NBR
12	Motor case	-	32	Key	AISI 316
13	Motor cover [1]	Aluminium	34	Impeller nut	AISI 304
14	Fan	PA6	42	Foot	PP
15	Fan cover	Galvanised Fe P04	52	Capacitor-holder box [2]	ABS
16	Terminal box	-	53	Capacitor-holder box cover [2]	ABS
17	Terminal box cover [1]	Aluminium	75	Washer	Aluminium
18	Spray protector ring	NBR	76	Washer	Aluminium
19	Bearing (pump side)	-	110	Motorprotector	-
20	Bearing (motor side)	-	200	Screw (Pump body)	Zn stainless steel Cl. 8.8 ISO 898-1
21	Adjusting ring	Steel C70			

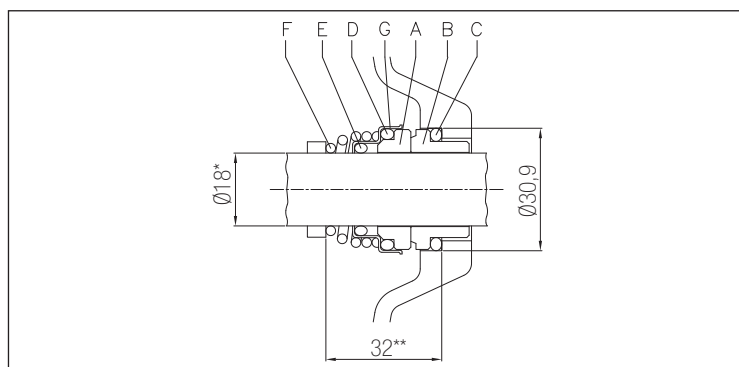
[1]= For Three phase only

[2]= For single phase only

[3]= AISI 303 (part in contact with the liquid) per CMA, CMB 1.50 - 2.00 - 3.00, CMD 1.50 - 2.00 - 3.00, AISI 304 (part in contact with the liquid) for CMB 4.00 - 5.50, CMD 4.00

[4]= Brass for CMA, CMB 2.00 - 3.00 - 4.00 - 5.50, cast iron for CMB 1.50, CMD

MECHANICAL SEAL for CMA-B-C-D up to 1.50 HP and over



MATERIALS TABLE

Ref.	Name	Material
A	Rotating part	Ceramic
B	Fixed part	Carbon
C	O-Ring	NBR
D	O-Ring	NBR
E	O-Ring	NBR
F	Spring	AISI 316
G	Structure/frame	AISI 304

*= Ø20 per CMB 4.00 - 5.50

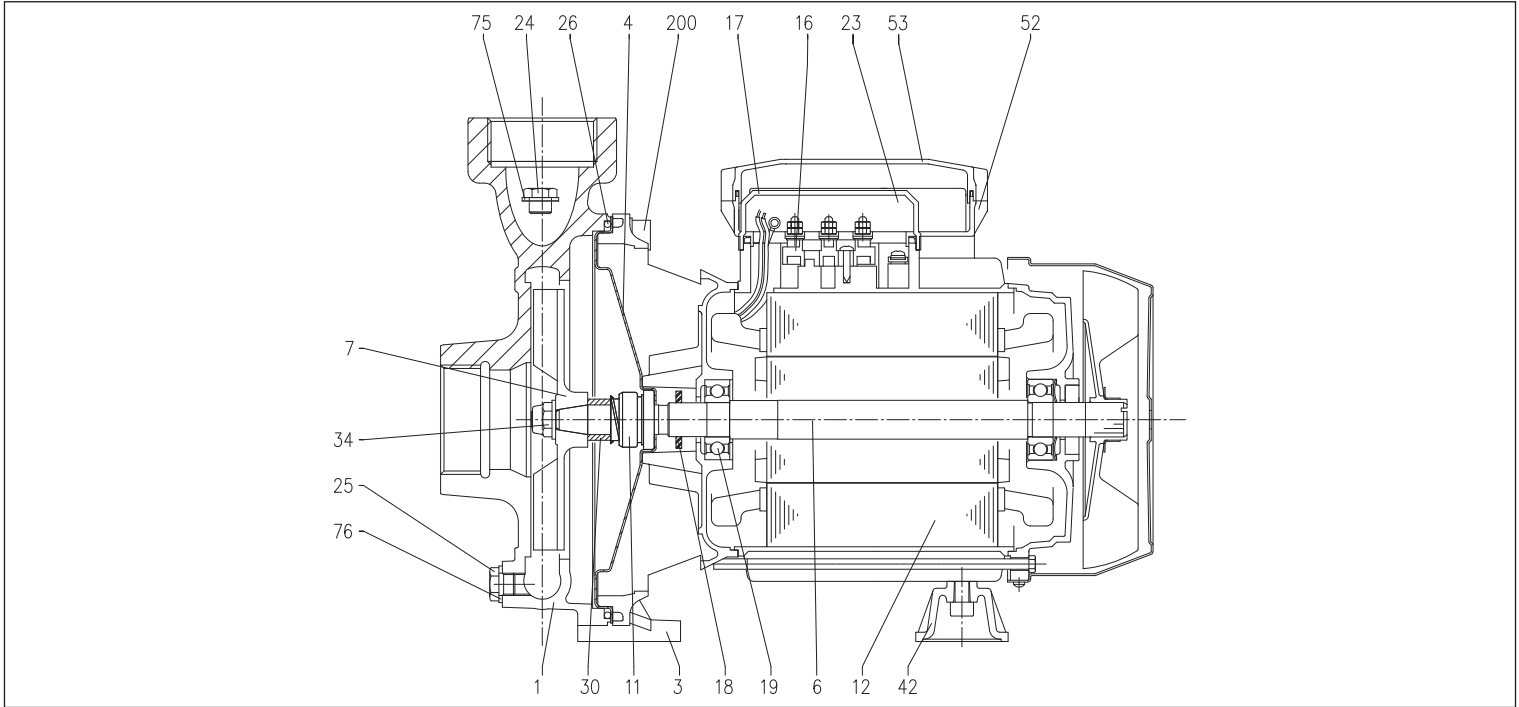
**= 33 per CMB 4.00 - 5.50

CMA - B - C - D - CMR

SINGLE IMPELLER CENTRIFUGAL ELECTRIC PUMPS

in cast iron

SECTIONAL VIEW for CMR

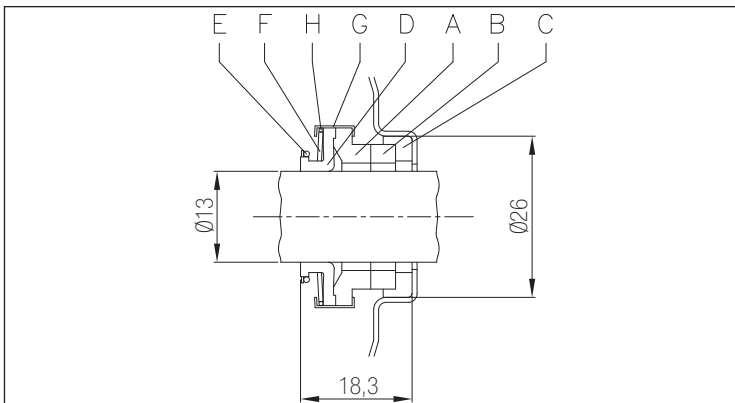


MATERIALS TABLE

Ref.	Name	Material	Ref.	Name	Material
1	Pump body	Cast iron	21	Adjusting ring	Steel C70
3	Motor support	Aluminium	22	Tie-rod	Galvanised Fe 42
4	Seal housing disc	AISI 304	23	Capacitor [2]	-
6	Rotor shaft	AISI 303 (part in contact with the liquid)	24	Filler cap	Brass
7	Impeller	Brass	25	Drain plug	Brass
11	Mechanical seal	Carbon/Ceramic/NBR	26	O-Ring	NBR
12	Motor case	-	30	Seal spacer	Brass
13	Motor cover [1]	Aluminium	34	Impeller nut	AISI 304
14	Fan	PP	42	Foot	PP
15	Fan cover	Galvanised Fe P04	52	Capacitor-holder box [2]	ABS
16	Terminal box	-	53	Capacitor-holder box cover [2]	ABS+NBR
17	Terminal box cover [1]	Aluminium	75	Washer	Aluminium
18	Spray protector ring	NBR	76	Washer	Aluminium
19	Bearing (pump side)	-	200	Screw (Pump body)	Zn stainless steel Cl. 8.8 ISO 898-1
20	Bearing (motor side)	-			

[1]= For Three phase only [2]= For single phase only

MECHANICAL SEAL for CMR



MATERIALS TABLE

Ref.	Name	Material
A	Rotating part	Carbon
B	Fixed part	Ceramic
C	Gasket	NBR
D	Diaphragm	NBR
E	Ring	AISI 304
F	Spring	AISI 304
G	Structure/frame	AISI 304
H	Retainer ring	AISI 304

SINGLE IMPELLER CENTRIFUGAL ELECTRIC PUMPS

in cast iron

CMA-B-C-D - CMR ELECTRIC DATA TABLE

Model		P ₂		Efficiency		Capacitor		Efficiency (%)			P ₁		Absorbed Current [A]		
Single phase 230V	Three phase 230/400V	[HP]	[kW]	Single phase	Three phase	Single phase μF	V _c	Three phase η %			Single phase [kW]	Three phase [kW]	Single phase 230V	Three phase 230V	Three phase 400V
CMA 0.50 M	CMA 0.50 T	0,5	0,37	-	-	10	450	-	-	-	0,66	0,63	3,2	2,4	1,4
CMA 0.75 M	CMA 0.75 T	0,75	0,55	-	-	16	450	-	-	-	1,02	0,97	4,7	3,2	1,8
CMA 1.00 M	CMA 1.00 T	1	0,75	-	IE2	20	450	77,2	80,9	81,3	1,35	1,11	6,2	3,4	2,0
CMA 1.50 M	CMA 1.50 T	1,5	1,1	-	IE2	40	450	79,7	82,5	83,0	1,73	1,80	8,0	5,6	3,2
CMA 2.00 M	CMA 2.00 T	2	1,5	-	IE2	40	450	80,3	83,4	83,8	2,4	2,33	10,3	7,6	4,4
-	CMA 3.00 T	3	2,2	-	IE2	-	-	83,0	84,4	83,8	-	2,77	-	8,5	4,9
CMB 0.75 M	CMB 0.75 T	0,75	0,55	-	-	14	450	-	-	-	0,98	0,95	4,5	3,0	1,7
CMB 1.00 M	CMB 1.00 T	1	0,75	-	IE2	20	450	77,2	80,9	81,3	1,33	1,17	6,0	3,4	2,0
CMB 1.50 M	CMB 1.50 T	1,5	1,1	-	IE2	40	450	79,7	82,5	83,0	1,77	1,80	8,2	5,6	3,2
CMB 2.00 M	CMB 2.00 T	2	1,5	-	IE2	40	450	80,3	83,4	83,8	2,3	2,09	10,3	7,0	4,0
-	CMB 3.00 T	3	2,2	-	IE2	-	-	83,0	84,4	83,8	-	2,63	-	8,2	4,7
-	CMB 4.00 T	4	3	-	IE2	-	-	83,1	86,3	86,8	-	3,76	-	11,8	6,8
-	CMB 5.50 T	5,5	4	-	IE2	-	-	84,3	87,2	87,8	-	4,56	-	15,1	8,7
CMC 0.75 M	CMC 0.75 T	0,75	0,55	-	-	14	450	-	-	-	0,92	0,9	4,2	2,8	1,6
CMC 1.00 M	CMC 1.00 T	1	0,75	-	IE2	20	450	77,2	80,9	81,3	1,15	0,92	5,3	3,0	1,7
CMD 1.50 M	CMD 1.50 T	1,5	1,1	-	IE2	40	450	79,7	82,5	83,0	1,86	1,80	8,5	5,6	3,2
CMD 2.00 M	CMD 2.00T	2	1,5	-	IE2	40	450	80,3	83,4	83,8	2,3	2,09	10,3	7,0	4,0
-	CMD 3.00 T	3	2,2	-	IE2	-	-	83,0	84,4	83,8	-	2,63	-	8,2	4,7
-	CMD 4.00 T	4	3	-	IE2	-	-	83,1	86,3	86,8	-	3,46	-	11,3	6,5
CMR 0.75 M	CMR 0.75 T	0,75	0,55	-	-	14	450	-	-	-	0,84	0,8	3,8	2,8	1,8
CMR 1.00 M	CMR 1.00 T	1	0,75	-	IE2	20	450	77,2	80,9	81,3	1,07	0,92	4,85	2,9	1,7

NOISE DATA TABLE

Model		P ₂		L _{pA} - dB(A)*
Single phase 230V	Three phase 230/400V	[HP]	[kW]	
CMA 0.50 M	CMA 0.50 T	0,5	0,37	<70
CMA 0.75 M	CMA 0.75 T	0,75	0,55	
CMA 1.00 M	CMA 1.00 T	1	0,75	
CMA 1.50 M	CMA 1.50 T	1,5	1,1	
CMA 2.00 M	CMA 2.00 T	2	1,5	
-	CMA 3.00 T	3	2,2	
CMB 0.75 M	CMB 0.75 T	0,75	0,55	<70
CMB 1.00 M	CMB 1.00 T	1	0,75	
CMB 1.50 M	CMB 1.50 T	1,5	1,1	
CMB 2.00 M	CMB 2.00 T	2	1,5	
-	CMB 3.00 T	3	2,2	
-	CMB 4.00 T	4	3	
-	CMB 5.50 T	5,5	4	72
CMC 0.75 M	CMC 0.75 T	0,75	0,55	<70
CMC 1.00 M	CMC 1.00 T	1	0,75	
CMD 1.50 M	CMD 1.50 T	1,5	1,1	<70
CMD 2.00 M	CMD 2.00T	2	1,5	
-	CMD 3.00 T	3	2,2	
-	CMD 4.00 T	4	3	72
CMR 0.75 M	CMR 0.75 T	0,75	0,55	<70
CMR 1.00 M	CMR 1.00 T	1	0,75	

* Mean value of several measures at 1m distance around the pump.
Tolerance ± 2,5 dB.