



Model CMA/CMB

Single Impeller Cast Iron Pumps



Single Impeller centrifugal pumps manufactured in cast iron. Suitable for boosting or transfer of water, small scale irrigation, etc.

Specifications

- Single impeller centrifugal pump
- Maximum working pressure: 6 bar
- Maximum liquid temperature: 40 °C (CMA), 90 °C (CMB)

Materials

- Pump casing: Cast Iron
- Impeller: Noryl (CMA), Cast Iron (CMB 1.50), Brass (CMB 2.00-5.50)
- Shaft: 303 Stainless Steel (304 SS 4.00 & 5.50)(wetted part)
- Bracket: Aluminium (CMA, CMB 1.50), Cast Iron (CMB 2.00-5.50)
- Mechanical seal: Carbon/Ceramic/NBR

Motor Data

- TEFC, 2 pole, 50 Hz
- Insulation class F
- IP44 protection
- 1 Phase - 230 Volt
- 3 Phase - 230/400 Volt (dual voltage motors)
- Automatic thermal overload protection (1 Phase only)

Range

- 25 to 32 mm Ø discharge
- 0.75 to 1.5 kW - 1 Phase
- 2.2 to 4.0 kW - 3 Phase

Supply

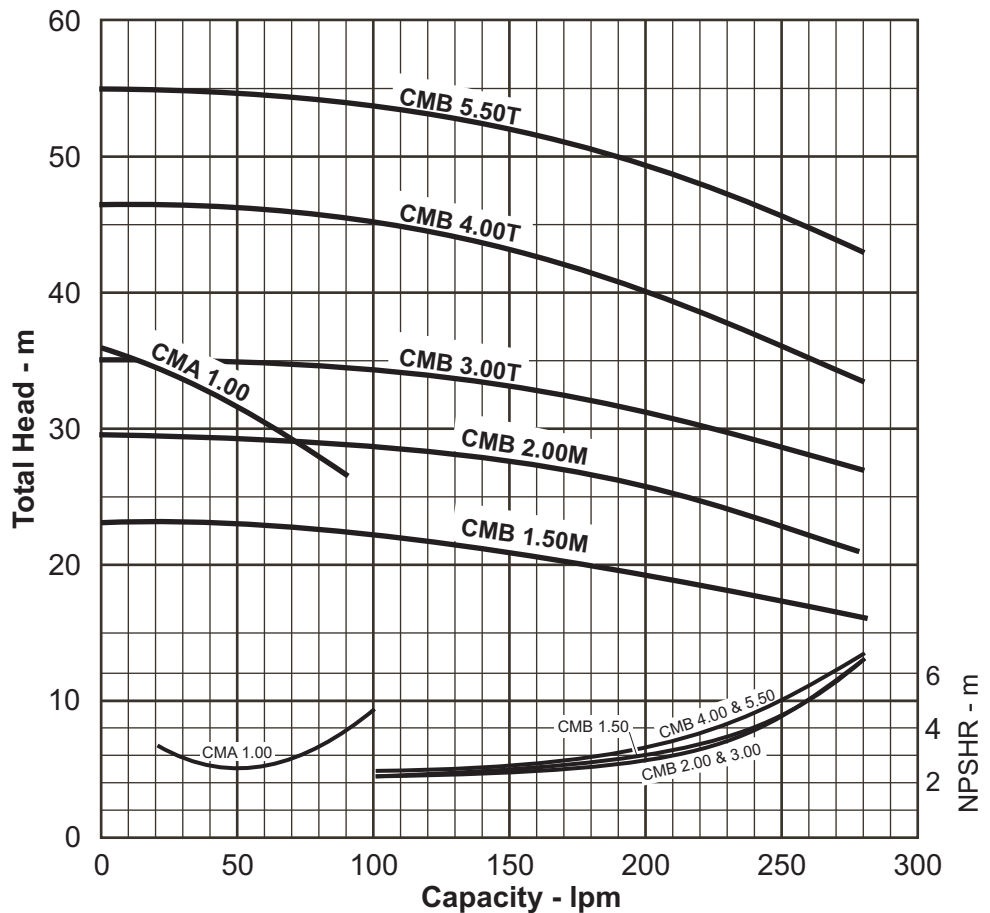
- 1.8 m cable with 3 pin plug (1 Phase models only)

Performance Curve

Synchronous Speed:
3000 rpm

Water temp:
20 °C

Applicable standard of test :
ISO 9906 Annex A



Model Code

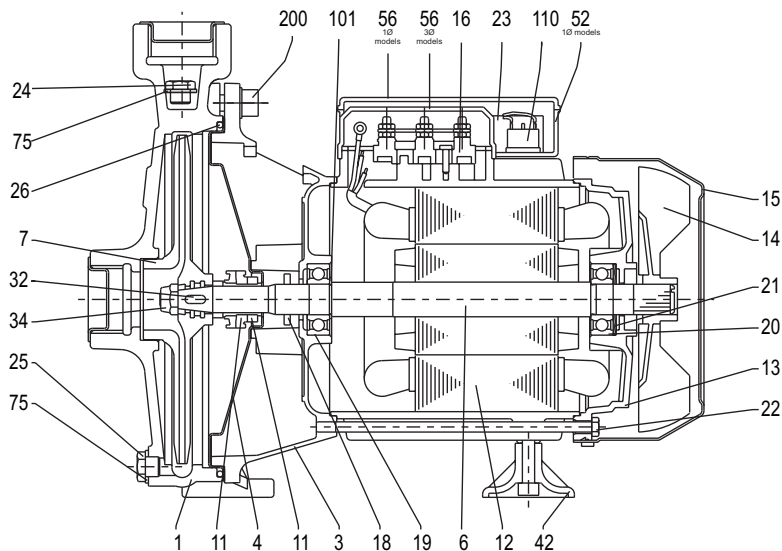
CMB 2.00 M
 M= Single Phase
 T= Three Phase
 Motor Size (HP)
 Model CMA or CMB

Performance Table

Pump Model	Motor Output	Power Supply	Capacitor		Full Load Current	Capacity - lpm												
			µF	Vc		20	40	60	80	100	140	180	220	250	280			
CMA 1.00 M	0.75 kW	230 V Single Phase	20 µF	450 Vc	6.2 A	34.5	32.8	30.6	27.6									
CMB 1.50 M	1.1 kW		35 µF	450 Vc	8.5 A					22.4	21.1	19.8	18	17.1	16			
CMB 2.00 M	1.5 kW		40 µF	450 Vc	10.8 A					28.7	27.7	26.3	24.5	22.8	21			
CMB 3.00 T	2.2 kW	400 V Three Phase	—	—	4.7 A					34.5	33.7	32.1	30.3	28.8	27			
CMB 4.00 T	3.0 kW		—	—	6.5 A					45	43.4	41.5	38.4	36.2	33.5			
CMB 5.50 T	4.0 kW		—	—	8.7 A					54	52.3	50.4	48.1	45.7	43			

Sectional Drawing

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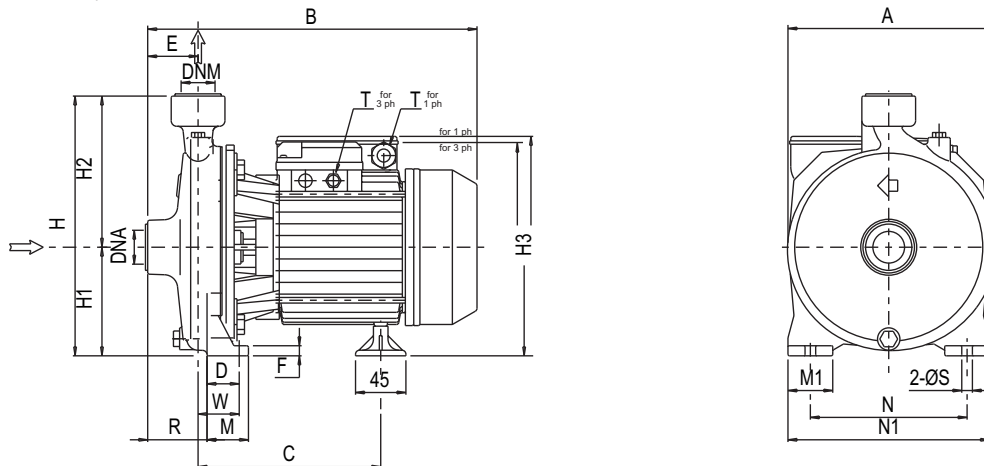
No.	Description	Material			Qty	No.	Description	Material			Qty	No.	Description	Material			Qty
		CMA 1.00M	CMB 1.50M	CMB other				CMA 1.00M	CMB 1.50M	CMB other				CMA 1.00M	CMB 1.50M	CMB other	
1	Casing	Cast Iron			1	16	Terminal block	-			1	32	Key	316 S/St			1
3	Motor bracket	Alum	Cast Iron		1	18	Splash ring	NBR			1	34	Impeller nut	304 S/St			1
4	Casing cover	304 S/St			1	19	Pump side bearing	Sealed ball			1	42	Foot	PVC			1
6	Shaft with rotor	303 S/Steel [#]			1	20	Fan side bearing	Sealed ball			1	52	Terminal box (for 1Ø)	ABS			1
7	Impeller	PPE*	Cast Iron	Brass	1	21	Adjusting ring	Steel C70			1	56	Terminal cover (for 1Ø)	ABS			1
11	Mechanical seal	Car/Cer/NBR			1	22	Tie rod	Fe 420 (Gal)			4	75	Washer	Aluminium			2
12	Motor frame & stator	-			1	23	Capacitor (1Ø models only)	-			1	101	Seeger ring	420 S/Steel			1
13	Motor cover	Aluminium			1	24	Priming plug	Brass			1	110	Protector (1Ø models only)	-			1
14	Fan	Polyamide			1	25	Drain plug	Brass			1	200	Screw	Zn Steel			4
15	Fan cover	Fe P04 (Gal)			1	26	O-Ring	NBR			1						

PPE* = PPE + PS Glass Fibre [#]Wetted part only (304 S/Steel for CMB 4.00 & 5.50)

Dimensions

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Units: mm unless otherwise specified



Pump Model	Dimensions																			Weight kg	
	A	B	C	D	E	F	H	H1	H2	H3	M	M1	N	N1	R	T	W	S	DNA		DNM
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	1"	1"	12.0
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	2"	1 1/4"	20.5
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	2"	1 1/4"	21.0
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	2"	1 1/4"	21.5
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	2"	1 1/4"	43.5
CMB 5.50 T	247	469.0	222.3	48	60	12	323.5	133.5	190	264.5	60	50	190	240	77.5	PG16	65.5	12	2"	1 1/4"	47

Specifications subject to change without notice



EBARA PUMPS AUSTRALIA PTY. LTD.

Data Sheet
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