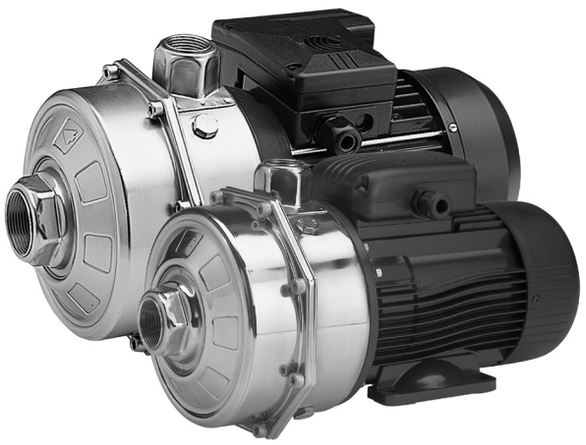
CA SERIES
GENERAL DESCRIPTION

Twin impeller centrifugal electric pumps made of stainless steel



MARKET SECTORS

CIVIL, AGRICULTURAL,
INDUSTRIAL.

APPLICATIONS

Version made of AISI 304

- Handling of chemically and mechanically non-aggressive water and liquids.
- Water supply.
- Irrigation.
- Water circulation (cold, hot, refrigerated).

Version made of AISI 316 (“..N”)

- Reverse osmosis (where demineralized water is used).
- Industrial washing.
- Thermal waters.
- Chlorine dispensing in swimming pools.

SPECIFICATION

PUMP

- Delivery up to **12,5 m³/h**.
- Head up to **62 m**.
- Temperature of pumped liquid:
  from -10°C to +85°C for CA standard version (NBR elastomers).
  from -10°C to +110°C for CA and CA..N (EPDM elastomer for N version, FPM elastomers for V version).
- Maximum operating **pressure**: 8 bar (PN 8).
- Hydraulic performance compliant with ISO 9906:2012 (Grade 3B). (ex ISO 9906:1999 - Annex A).
- Counter-clockwise rotation facing the pump from the suction port.

MOTOR

- Asynchronous, squirrel cage rotor, close construction, external ventilation.
- Protection class: **IP55.**
- **Class 155** (F) Insulation
- Performance to EN 60034-1 specifications.
- **Standard voltage**:
  - Single-phase version:
  220-240 V, 50 Hz
  - Three-phase version:
  220-240/380-415 V, 50 Hz.
- Condensate drain plugs in the standard version.

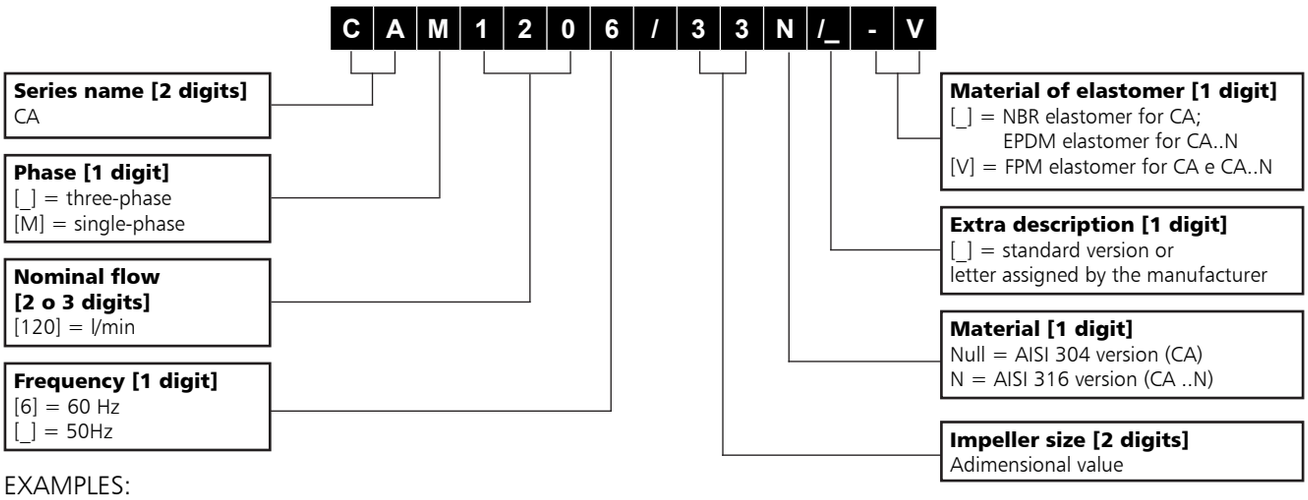
CONSTRUCTION CHARACTERISTICS

- Close-coupled, single-impeller centrifugal pump featuring axial suction and radial discharge.
- Compact construction, with pump coupled directly to motor; special motor shaft extension in common with the pump and supported by ball bearings.
- Threaded suction and discharge ports (Rp EN 10226-1 and ISO 7-1).
- High performance enclosed impeller made of **AISI 304** stainless steel (**AISI 316** for N version).
- **Mechanical seal** with Ceramic/Carbon rings, NBR elastomers, (EPDM for N version) other parts are made of AISI 304 stainless steel (AISI 316 for N version). Mounting dimensions according to EN 12756 (ex DIN 24960) and ISO 3069.
- **O-rings** made of NBR (EPDM for N version).
- Mounting pedestal on motor.

OPTIONAL FEATURES

- Different voltages.
- 60 Hz frequency (see 60 Hz catalog).
- Different material for the mechanical seal and O-rings.

CA SERIES
IDENTIFICATION CODE



EXAMPLES:

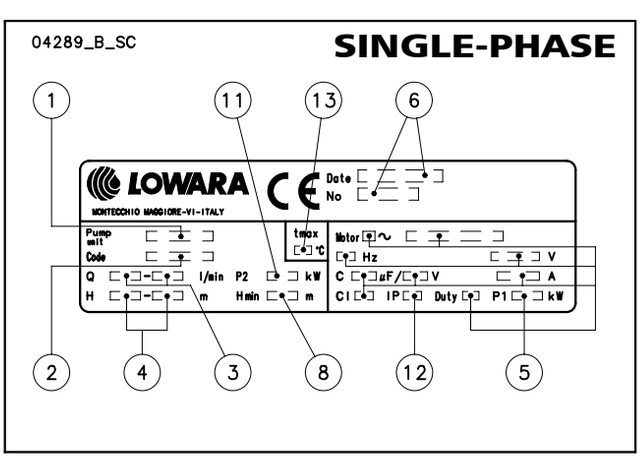
CAM120/33/B-V

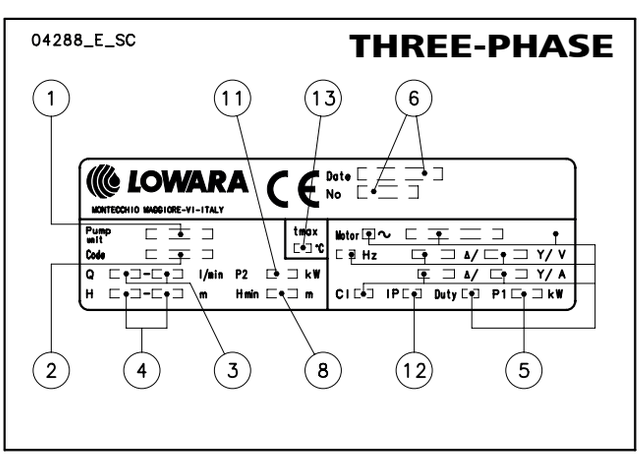
CA series electric pump, single-phase, nominal flow 120 l/min, frequency 50 Hz, two impellers size 3, stainless steel AISI 304 version, FPM elastomer.

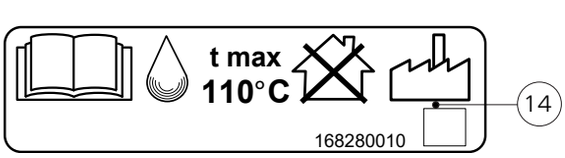
CA120/35N/B

CA series electric pump, three-phase, nominal flow 120 l/min, frequency 50 Hz, 1 impeller size 3 + 1 impeller size 5, stainless steel AISI 316 version, EPDM elastomer.

RATING PLATE





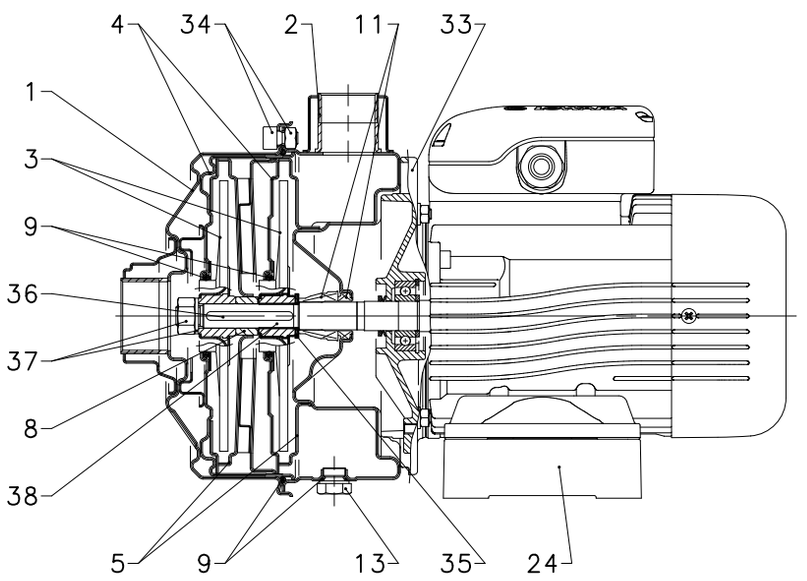


LEGEND

1 - Electric pump unit type
2 - Electric pump unit code
3 - Flow range
4 - Head range
5 - Electrical data
6 - Serial number (data + order number)
8 - Minimum head (EN 60335-2-41)
11 - Rated power
12 - Protection degree
13 - Maximum operating liquid temperature (uses as EN 60335-2-41)
14 - Maximum operating liquid temperature (for use other than EN 60335-2-41)

CA SERIES
ELECTRIC PUMP CROSS-SECTION AND MAIN COMPONENTS

02179_B_DS



VERSIONS
CA70/33
CA70/34
CA70/45
CA120/33
CA120/35
CA120/55
CA200/33
CA200/35
CA200/55

ca-caN-en_a_mo

CA VERSION

REF. N.	PART	MATERIAL	REFERENCE STANDARDS	
			EUROPE	USA
1	Suction flange	Stainless steel	EN 10088-1-X5CrNi18-10 (1.4301)	AISI 304
2	Pump body	Stainless steel	EN 10088-1-X5CrNi18-10 (1.4301)	AISI 304
3	Impeller	Stainless steel	EN 10088-1-X5CrNi18-10 (1.4301)	AISI 304
4	Diffuser cover	Stainless steel	EN 10088-1-X5CrNi18-10 (1.4301)	AISI 304
5	Diffuser cover	Stainless steel	EN 10088-1-X5CrNi18-10 (1.4301)	AISI 304
8	Impeller spacer	Stainless steel	EN 10088-1-X5CrNi18-10 (1.4301)	AISI 304
9	Elastomers	NBR (standard version)		
11	Mechanical seal	Ceramic / Carbon / NBR (standard version)		
13	Fill/drain plugs	Stainless steel	EN 10088-1-X5CrNiMo17-12-2 (1.4401)	AISI 316
24	Mounting pedestal	Aluminium	EN 1706-AC-AlSi11Cu2 (Fe) (AC46100)	-
33	Adapter	Aluminium	EN 1706-AC-AlSi11Cu2 (Fe) (AC46100)	-
34	Pump body fastening nuts and bolts	Zinc-plated steel		
35	Impeller shoulder washer	Stainless steel	EN 10088-1-X5CrNi18-10 (1.4301)	AISI 304
36	Key	Stainless steel	EN 10088-1-X5CrNiMo17-12-2 (1.4401)	AISI 316
37	Impeller lock nut and washer	Stainless steel	EN 10088-1-X5CrNi18-10 (1.4301)	AISI 304
38	Shaft extension	Stainless steel	EN 10088-1-X5CrNiMo17-12-2 (1.4401)	AISI 316

ca-ca-en_b_tm

CA..N VERSION

REF. N.	PART	MATERIAL	REFERENCE STANDARDS	
			EUROPE	USA
1	Suction flange	Stainless steel	EN 10088-1-X2CrNiMo17-12-2 (1.4404)	AISI 316L
2	Pump body	Stainless steel	EN 10088-1-X2CrNiMo17-12-2 (1.4404)	AISI 316L
3	Impeller	Stainless steel	EN 10088-1-X2CrNiMo17-12-2 (1.4404)	AISI 316L
4	Diffuser cover	Stainless steel	EN 10088-1-X2CrNiMo17-12-2 (1.4404)	AISI 316L
5	Diffuser	Stainless steel	EN 10088-1-X2CrNiMo17-12-2 (1.4404)	AISI 316L
8	Impeller spacer	Stainless steel	EN 10088-1-X5CrNiMo17-12-2 (1.4401)	AISI 316
9	Elastomers	EPDM (standard version)		
11	Mechanical seal	Ceramic / Carbon / EPDM (standard version)		
13	Fill/drain plugs	Stainless steel	EN 10088-1-X5CrNiMo17-12-2 (1.4401)	AISI 316
24	Mounting pedestal	Aluminium	EN 1706-AC-AlSi11Cu2 (Fe) (AC46100)	-
33	Adapter	Aluminium	EN 1706-AC-AlSi11Cu2 (Fe) (AC46100)	-
34	Pump body fastening nuts and bolts	Zinc-plated steel		
35	Impeller shoulder washer	Stainless steel	EN 10088-1-X2CrNiMo17-12-2 (1.4404)	AISI 316L
36	Key	Stainless steel	EN 10088-1-X5CrNiMo17-12-2 (1.4401)	AISI 316
37	Impeller lock nut and washer	Stainless steel	EN 10088-1-X5CrNiMo17-12-2 (1.4401)	AISI 316
38	Shaft extension	Stainless steel	EN 10088-1-X5CrNiMo17-12-2 (1.4401)	AISI 316

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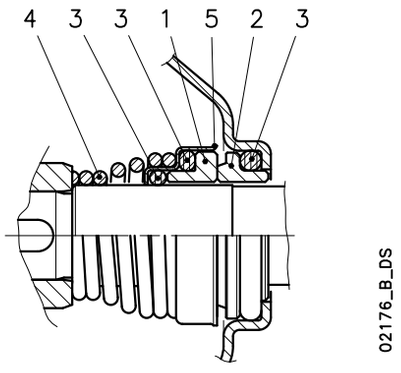
CA SERIES
MECHANICAL SEALS

Elastomer bellow seal with mounting dimensions according to EN 12756 and ISO 3069

CA-CA(N)



LIST OF MATERIALS

POSITION 1 - 2	POSITION 3	POSITION 4 - 5
B : Resin impregnated carbon	P : NBR	F : AISI 304
C : Special resin impregnated carbon	E : EPDM	G : AISI 316
Q_1 : Silicon carbide	V : FPM	
U_3 : Tungsten carbide		
V : Ceramic		

cea-ca_ten-mec-en_b_tm

SEAL TYPES

SERIES	TYPE	POSITION 1 ROTATING ASSEMBLY	POSITION 2 FIXED ASSEMBLY	POSITION 3 ELASTOMERS	POSITION 4 SPRINGS	POSITION 5 OTHER COMPONENTS	TEMPERATURE (°C)
CA	STANDARD MECHANICAL SEAL						
	VBPGF	V	B	P	G	F	-10...+85
	OTHER TYPES OF MECHANICAL SEAL						
	VBEGF	V	B	E	G	F	-10...+110
	VCEGG	V	C	E	G	G	
	Q_1Q_1EGF	Q_1	Q_1	E	G	F	
	U_3BEGF	U_3	B	E	G	F	
	U_3CEGF	U_3	C	E	G	F	
	U_3U_3EGF	U_3	U_3	E	G	F	
	VBVGF	V	B	V	G	F	
	VCVGF	V	C	V	G	F	
	Q_1Q_1VGF	Q_1	Q_1	V	G	F	
	U_3CVGF	U_3	C	V	G	F	
	U_3U_3VGF	U_3	U_3	V	G	F	
CA..N	STANDARD MECHANICAL SEAL						
	VBEGG	V	B	E	G	G	-10...+110
	OTHER TYPES OF MECHANICAL SEAL						
	VCEGG	V	C	E	G	G	-10...+110
	Q_1Q_1EGG	Q_1	Q_1	E	G	G	
	VCVGG	V	C	V	G	G	
	Q_1Q_1VGG	Q_1	Q_1	V	G	G	

ca_tipi-ten-mec-en_c_tc

CA SERIES
MOTORS (ErP 2009/125/EC)

- Short-circuit squirrel-cage motor, enclosed construction with external ventilation (TEFC).
- Rated power from 1,1 to 200 kW for 2-pole range and from 0,25 to 355 kW for 4-pole range.
- **IP55** protection degree.
- Insulation class **155 (F)**.
- Electrical performances according to EN 60034-1.
- **Supplied three-phase surface motors with IE2 efficiency level (for power < 0,75 kW) or IE3 efficiency level (for power ≥ 0,75 kW) as standard according to EN 60034-30:2009 and EN 60034-30-1:2014.**
- Metric cable gland according to EN 50262.
- PTC included in motors from IEC size 200 and above (one per phase, 155°C).
- **Single-phase** version:
  220-240 V 50 Hz
  Built-in automatic reset overload protection.
  Maximum ambient temperature: 40 °C.
- **Three-phase** version:
  220-240/380-415 V 50 Hz for power up to 3 kW.
  380-415/660-690 V 50 Hz for power above 3 kW.
  Overload protection to be provided by the user.
  Maximum ambient temperature: 40° or 50 °C, (depending on model and power)

From 1 July 2021 in accordance with the **Regulations (EU) 2019/1781 and 2021/341**, the three-phase 50 Hz, 60 Hz or 50/60 Hz **surface motors** with **power outputs ranging from 0,12 to 0,749 kW** must have a minimum level **IE2** efficiency; the ones with power outputs ranging **from 0,75 and 1000 kW** must have a minimum level of **IE3** efficiency.

From 1 July 2023, it will be introduced additional requirements.

The following tables also contain the mandatory information pursuant to Annex I, section 2, of the aforementioned Regulations.

SINGLE-PHASE MOTORS AT 50 Hz, 2 POLES

P_N kW	MOTOR TYPE	IEC SIZE	Construction Design	INPUT CURRENT In (A) 220-240 V	CAPACITOR µF	CAPACITOR V	DATA FOR 230 V 50 Hz VOLTAGE min^{-1}	Is / In	η %	cosφ	Tn Nm	Ts/Tn	Tm/Tn	Operating conditions ** Altitude Above Sea Level (m)	T. amb min/max °C	ATEX
0,75	SM71CA/1075	71	SPECIAL	4,90-4,85	20	450	2765	3,42	70,1	0,96	2,59	0,58	1,75	≤ 1000	-15 / 40	No
0,95	SM71CA/1095	71		6,25-5,89	25	450	2740	3,39	71,1	0,98	3,31	0,58	1,66			
1,1	SM80CA/1115	80		6,88-6,65	30	450	2800	3,89	74,7	0,96	3,75	0,46	1,72			
1,5	SM80CA/1155	80		9,21-8,58	40	450	2810	4,00	76,1	0,98	5,09	0,39	1,74			
1,85	PLM80CA/1225	90		12,5-11,6	70	450	2825	4,47	82,4	0,97	7,43	0,53	1,87			
2,2	PLM90CA/1225	90		12,5-11,6	70	450	2825	4,47	82,4	0,97	7,43	0,53	1,87			

*** Operating conditions to be referred to motor only. About electric pump, refer to limits in user's manual.*

ca-motm-2p50-en_b_te

LOWARA
a xylem brand

CA SERIES
THREE-PHASE MOTORS AT 50 Hz, 2 POLES

P_N kW	Manufacturer: Xylem Service Italia Srl, Reg. No. 07520560967, Montecchio Maggiore Vicenza - Italia. Model	IEC SIZE	Construction Design	N. of Poles	f_N Hz	Data for 400 V / 50 Hz Voltage: cosφ	Is / I_N	T_N Nm	T_s/T_N	T_m/T_n
0,75	SM80CA/307 PE	80	SPECIAL	2	50	0,78	7,38	2,48	3,57	3,75
0,95	SM80CA/311 PE	80				0,79	8,31	3,63	3,95	3,95
1,1	SM80CA/311 PE	80				0,79	8,31	3,63	3,95	3,95
1,5	SM80CA/315 PE	80				0,80	8,80	4,96	4,31	4,10
1,85	PLM90CA/322 E3	90				0,80	8,77	7,28	3,72	3,70
2,2	PLM90CA/322 E3	90				0,80	8,77	7,28	3,72	3,70
3	PLM90CA/330 E3	90				0,79	7,81	9,93	4,26	3,94

P_N kW	Voltage U_N V: Δ 220 V	Δ 230 V	Δ 240 V	Y 380 V	Y 400 V	Y 415 V	Δ 380 V	Δ 400 V	Δ 415 V	Y 660 V	Y 690 V	I_N (A)	n_N min^{-1}	Operating conditions **: Altitude Above Sea Level (m)	T. amb min/max °C	ATEX
0,75	2,96	2,94	2,96	1,71	1,70	1,71	1,70	1,69	1,70	0,98	0,98		2875 ÷ 2895	≤ 1000	-15 / 40	No
0,95	4,19	4,14	4,16	2,42	2,39	2,40	2,41	2,38	2,38	1,39	1,37		2870 ÷ 2900			
1,1	4,19	4,14	4,16	2,42	2,39	2,40	2,41	2,38	2,38	1,39	1,37		2870 ÷ 2900			
1,5	5,56	5,49	5,51	3,21	3,17	3,18	3,21	3,18	3,19	1,85	1,84		2870 ÷ 2895			
1,85	7,97	7,90	7,98	4,6	4,56	4,61	4,57	4,54	4,57	2,64	2,62		2880 ÷ 2900			
2,2	7,97	7,90	7,98	4,6	4,56	4,61	4,57	4,54	4,57	2,64	2,62		2880 ÷ 2900			
3	11,0	11,0	11,2	6,35	6,33	6,44	6,29	6,27	6,34	3,63	3,62		2865 ÷ 2895			

P_N kW	Efficiency η_N % — Δ 220 V Y 380 V: 4/4	3/4	2/4	Δ 230 V Y 400 V: 4/4	3/4	2/4	Δ 240 V Y 415 V: 4/4	3/4	2/4	Δ 380 V Y 660 V: 4/4	3/4	2/4	Δ 400 V Y 690 V: 4/4	3/4	2/4	Δ 415 V: 4/4	3/4	2/4	IE
0,75	82,5	83,1	81,3	82,8	82,7	80,1	82,6	82,0	78,9	82,5	82,0	78,9	82,5	82,0	78,9	82,5	82,0	78,9	
0,95	84,0	84,7	83,4	84,4	84,5	82,5	84,3	84,0	81,4	84,0	84,0	81,4	84,0	84,0	81,4	84,0	84,0	81,4	
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1,85	86,5	87,4	86,8	86,4	86,9	85,7	86,6	86,7	85,0	86,4	86,7	85,0	86,4	86,7	85,0	86,4	86,7	85,0	
2,2	86,5	87,4	86,8	86,4	86,9	85,7	86,6	86,7	85,0	86,4	86,7	85,0	86,4	86,7	85,0	86,4	86,7	85,0	
3	87,2	88,5	88,3	87,5	88,2	87,5	87,5	87,8	86,4	87,2	87,8	86,4	87,2	87,8	86,4	87,2	87,8	86,4	

** Operating conditions to be referred to motor only. About electric pump, refer to limits in user's manual.

ca-ie3-mott-2p50-en_b_te

AVAILABLE VOLTAGES FOR SM AND PLM MOTORS

	SINGLE-PHASE							
	50 Hz			60 Hz				
P_N kW	1 x 220-240	1 x 100	1 x 110-120	1 x 220-230	1 x 100	1x 110-115	1 x 120-127	1 x 200-210
0,75	s	o	o	s	o	o	o	o
0,95	s	o	o	s	o	o	o	o
1,1	s	-	o	s	-	o	-	o
1,5	s	-	-	s	-	o	-	o
2,2	s	-	-	s	-	-	-	-

	THREE-PHASE																	
	50 Hz							60 Hz								50/60 Hz		
P_N kW	3 x 220-230-240/380-400-415	3 x 380-400-415/660-690	3 x 200-208/346-360	3 x 255-265/440-460	3 x 290-300/500-525	3 x 440-460/-	3 x 500-525/-	3 x 220-230/380-400	3 x 255-265-277/440-460-480	3 x 380-400/660-690	3 x 440-460-480/-	3 x 110-115/190-200	3 x 200-208/346-360	3 x 330-346/575-600	3 x 575/-	3 x 230/400 50 Hz 3 x 265/460 60 Hz	3 x 400/690 50 Hz 3 x 460/- 60 Hz
0,75	s	o	o	o	o	o	o	s	o	o	o	o	o	o	o	o	o
0,95	s	o	o	o	o	o	o	s	o	o	o	o	o	o	o	o	o
1,1	s	o	o	o	o	o	o	s	o	o	o	o	o	o	o	o	o
1,5	s	o	o	o	o	o	o	s	o	o	o	o	o	o	o	o	o
2,2	s	o	o	o	o	o	o	s	o	o	o	o	o	o	o	o	o
3	s	o	o	o	o	o	o	s	o	o	o	o	o	o	o	o	o

s = Standard voltage o = voltage upon request - = Not available

ca-volt-lowa-en_b_te

CA SERIES PUMPS (ErP 2009/125/EC)

The **Commission Regulation (EU) No 547/2012** has implemented two directives with regard to ecodesign requirements for **some types of clean water pumps** placed on the market and put into service inside EU zone as self-alone units or integrated in other products.

For end-suction close-coupled in-line pumps (ESCC for the Regulation) the efficiency assessment refers to:
- just the pump and not the pump and motor assembly (electric or combustion);
- pumps with
- one impeller;
- a nominal pressure PN not higher than 16 bar (1600 kPa);
- a minimum nominal flow not less than 6 m^3/h;
- a maximum nominal power at the shaft not higher than 150 kW;
- a head not greater than 140 meters, with a speed of 2900 min^{-1}

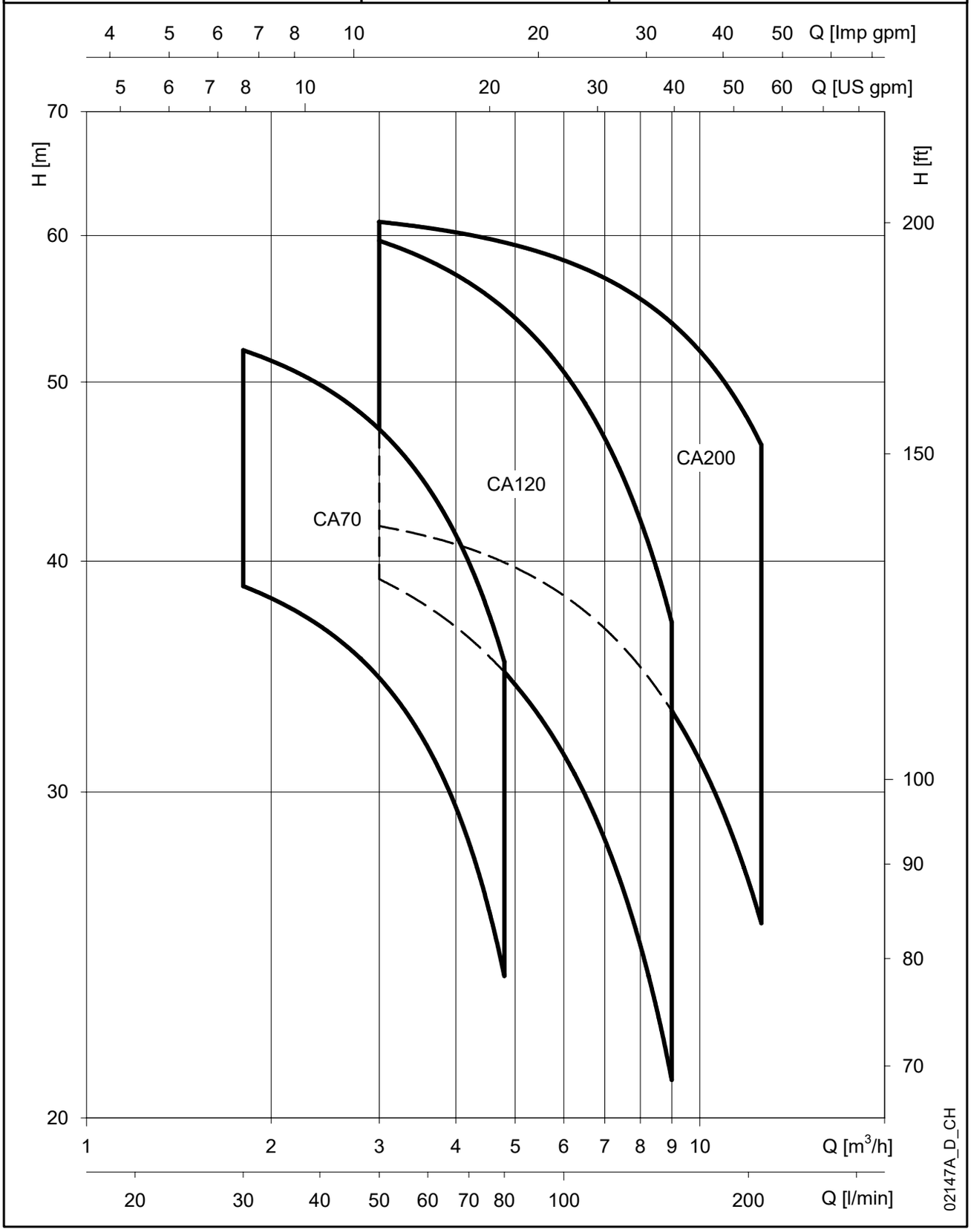
a head not greater than 90 meters, with a speed of 1450 min^{-1}
- use with clean water at a temperature ranging from -10°C to 120°C (the test is performed with cold water at a temperature not higher than 40°C).

According to the definitions established by the Regulations, **the CA Series does not fall into any of the subject categories, despite having a good hydraulic performance.**

LOWARA
a xylem brand

CA SERIES
HYDRAULIC PERFORMANCE RANGE AT 50 Hz, 2 POLES

CA	~ 2850 [rpm]	ISO 9906:2012 - Grade 3B



LOWARA
a xylem brand

CA SERIES
TABLE OF HYDRAULIC PERFORMANCES AT 50 Hz, 2 POLES

PUMP TYPE	RATED POWER		MEI ≥	Q = DELIVERY											
				l/min	0	30	40	50	60	70	80	100	120	150	180	210
				m^3/h	0	1,8	2,4	3	3,6	4,2	4,8	6	7,2	9	10,8	12,6
	kW	HP	(1)	H = TOTAL HEAD METRES COLUMN OF WATER												
CA70/33 *	0,75	1	-	42,9	38,8	36,9	34,6	31,7	28,2	23,9						
CA70/34 *	0,95	1,3	-	48,8	45,1	43,2	40,7	37,7	34,0	29,5						
CA70/45 *	1,1	1,5	-	56,2	52,0	49,8	47,1	43,9	39,9	35,3						
CA120/33 *	1,1	1,5	-	44,3			39,1	37,8	36,4	34,8	31,4	27,6	21,0			
CA120/35 *	1,5	2	-	54,0			49,4	48,1	46,6	44,9	41,2	36,8	29,3			
CA120/55 *	2,2	3	-	63,8			59,6	58,2	56,6	54,8	50,6	45,7	37,1			
CA200/33 *	1,85	2,5	-	43,2			41,8	41,2	40,6	39,9	38,3	36,4	33,2	29,5	25,5	
CA200/35 *	2,2	3	-	53,5			52,4	51,9	51,4	50,7	49,2	47,5	44,3	40,6	36,5	
CA200/55	3	4	-	62,6			61,0	60,6	60,1	59,5	58,2	56,6	53,8	50,4	46,2	

* A single-phase version (CAM) is also available (1) MEI Minimum Efficiency Index ca-2p50-en_e_th

Hydraulic performances in compliance with ISO 9906:2012 - Grade 3B (ex ISO 9906:1999 - Annex A)

ELECTRICAL DATA AT 50 Hz, 2 POLES

PUMP TYPE 1 ~	MOTOR TYPE	INPUT POWER* kW	INPUT CURRENT* 220-240 V A	CAPACIT. µF / 450 V
CAM70/33	SM71CA/1075	1,15	5,16	20
CAM70/34	SM71CA/1095	1,39	6,22	25
CAM70/45	SM80CA/1115	1,76	7,92	30
CAM120/33	SM80CA/1115	1,67	7,53	30
CAM120/35	SM80CA/1155	2,18	9,87	40
CAM120/55	PLM90CA/1225	2,54	11,5	70
CAM200/33	PLM90CA/1225	2,29	10,4	70
CAM200/35	PLM90CA/1225	2,94	12,6	70
-	-	-	-	-

PUMP TYPE 3 ~	MOTOR TYPE	INPUT POWER* kW	INPUT CURRENT* 220-240 V A	INPUT CURRENT* 380-415 V A
CA70/33	SM80CA/307 PE	1,05	3,24	1,87
CA70/34	SM80CA/311 PE	1,29	4,10	2,37
CA70/45	SM80CA/311 PE	1,64	4,90	2,83
CA120/33	SM80CA/311 PE	1,56	4,71	2,72
CA120/35	SM80CA/315 PE	2,06	6,18	3,57
CA120/55	PLM90CA/322 E3	2,56	7,97	4,60
CA200/33	PLM90CA/322 E3	2,33	7,45	4,30
CA200/35	PLM90CA/322 E3	3,14	9,30	5,37
CA200/55	PLM90CA/330 E3	3,77	11,7	6,76

*Maximum value in specified range. ca-2p50-en_g_te

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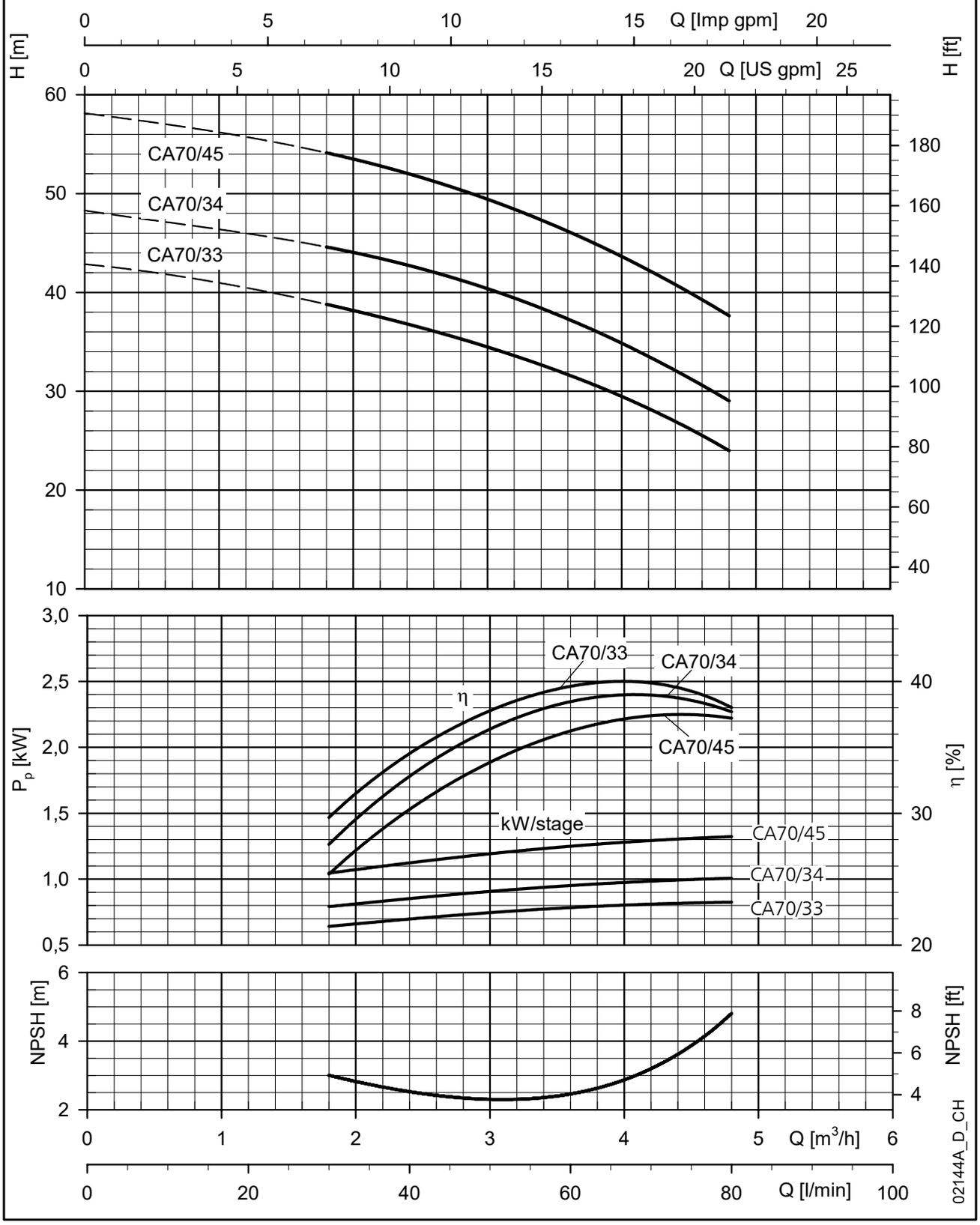
CA SERIES
OPERATING CHARACTERISTICS AT 50 Hz, 2 POLES

CA70	~ 2900 [rpm]	ISO 9906:2012 - Grade 3B



These performances are valid for liquids with density ρ = 1.0 Kg/dm³ and kinematic viscosity ν = 1 mm²/sec.

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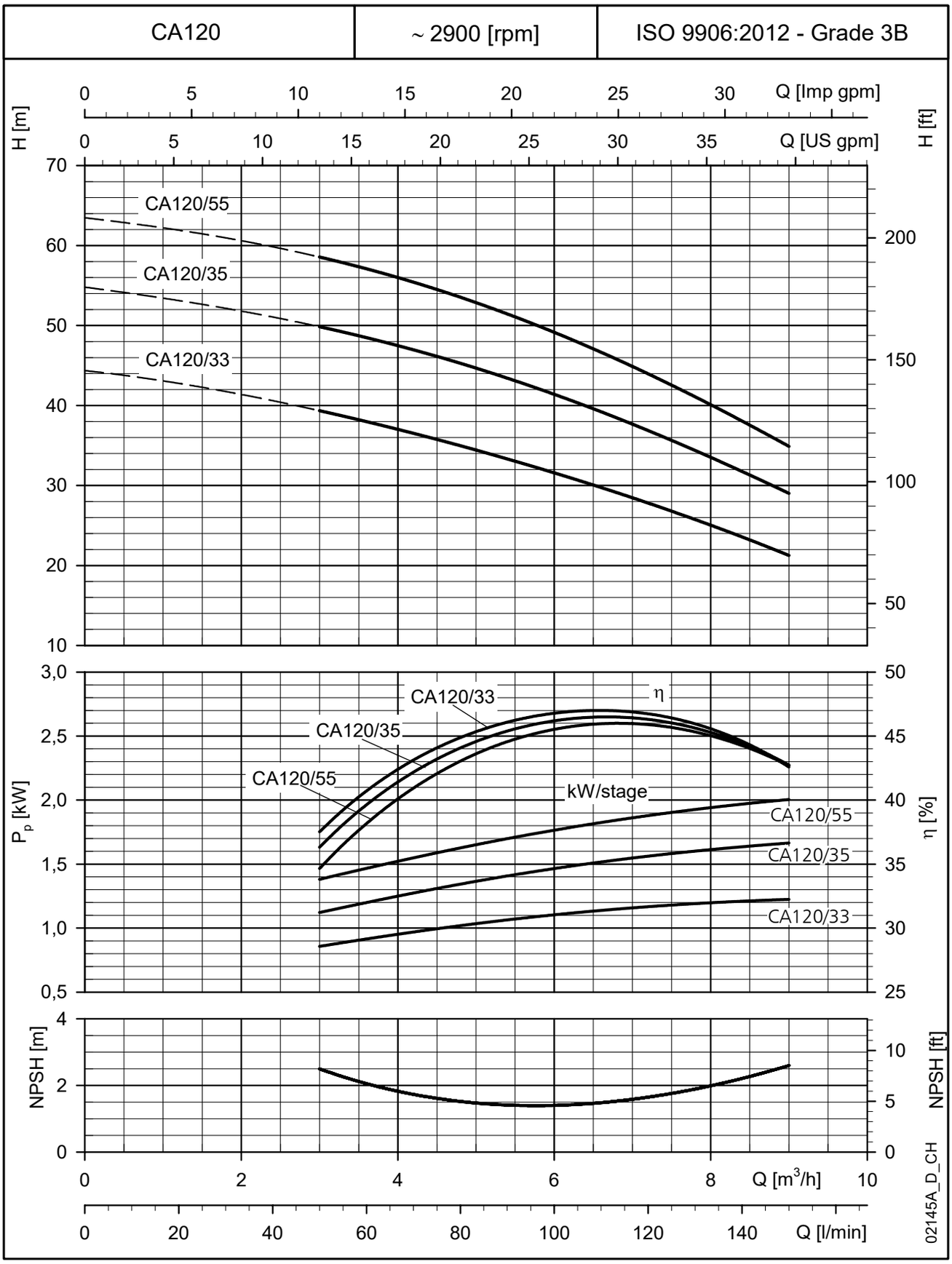
a xylem brand

CA SERIES
OPERATING CHARACTERISTICS AT 50 Hz, 2 POLES

CA120	~ 2900 [rpm]	ISO 9906:2012 - Grade 3B



These performances are valid for liquids with density ρ = 1.0 Kg/dm³ and kinematic viscosity ν = 1 mm²/sec.

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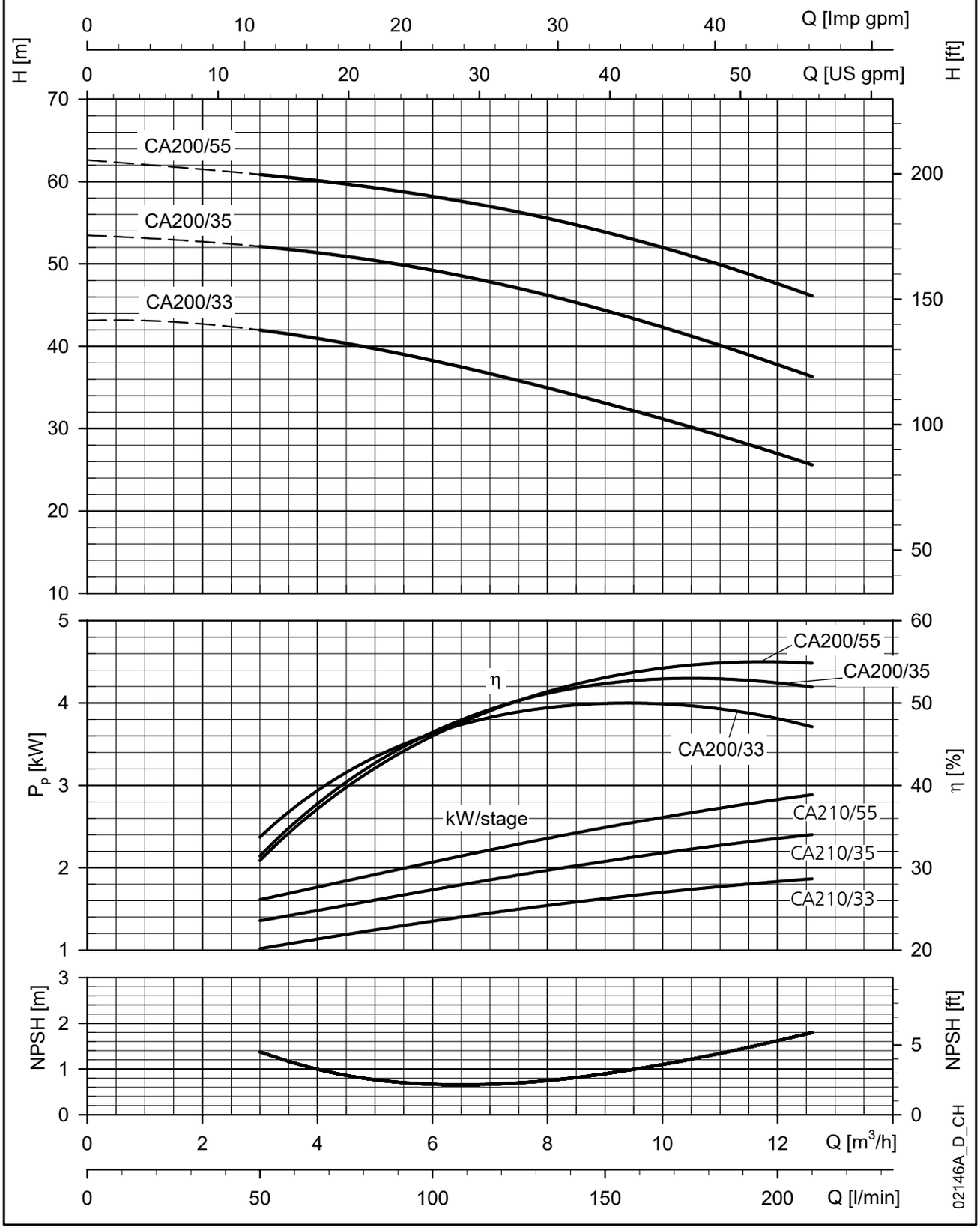
CA SERIES
OPERATING CHARACTERISTICS AT 50 Hz, 2 POLES

CA200	~ 2900 [rpm]	ISO 9906:2012 - Grade 3B



These performances are valid for liquids with density ρ = 1.0 Kg/dm³ and kinematic viscosity ν = 1 mm²/sec.

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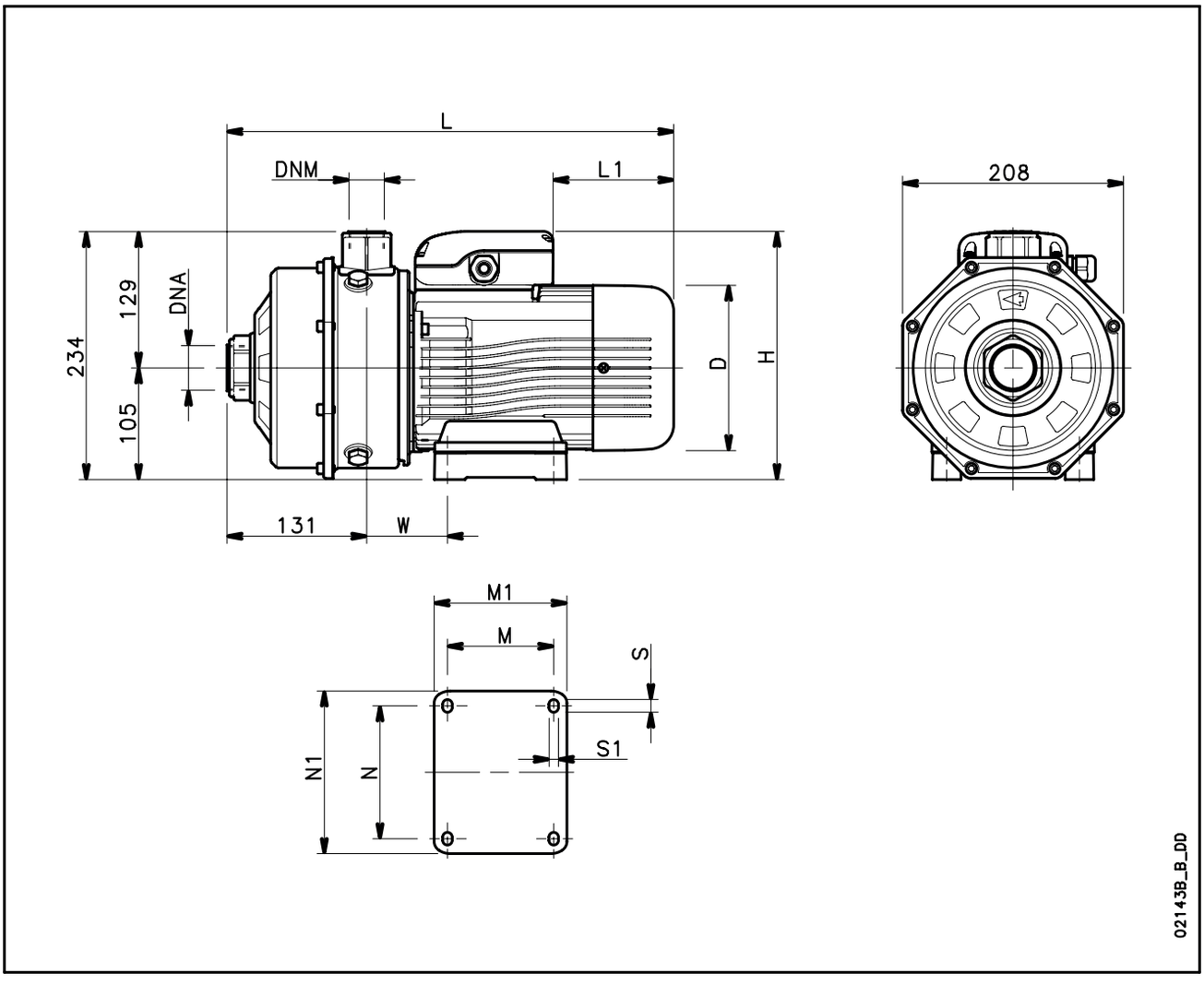
CA SERIES
DIMENSIONS AND WEIGHTS AT 50 Hz



PUMP TYPE	DIMENSIONS (mm)											DNA	DNM	WEIGHT
	D	H	L	L1	M	M1	N	N1	S	S1	W			kg
CAM 70/33/B	140	226	383	76	90	113	112	135	12	7	66	Rp 1¼	Rp 1	15
CAM 70/34/B	140	235	383	31	90	113	112	135	12	7	66	Rp 1¼	Rp 1	15,8
CAM 70/45/B	156	242	420	69	100	125	125	153	12	9	76	Rp 1¼	Rp 1	18,5
CAM 120/33/B	156	242	420	69	100	125	125	153	12	9	76	Rp 1¼	Rp 1	18,4
CAM 120/35/B	156	242	420	69	100	125	125	153	12	9	76	Rp 1¼	Rp 1	20,2
CAM 120/55/P	174	265	454	58	125	155	140	170	13	10	98	Rp 1¼	Rp 1	27
CAM 200/33/P	174	265	454	58	125	155	140	170	13	10	98	Rp 1½	Rp 1	27
CAM 200/35/P	174	265	454	58	125	155	140	170	13	10	98	Rp 1½	Rp 1	27
CA 70/33/D	155	234	420	114	100	125	125	153	12	9	76	Rp 1¼	Rp 1	16,7
CA 70/34/D	155	234	420	114	100	125	125	153	12	9	76	Rp 1¼	Rp 1	17,4
CA 70/45/D	155	234	420	114	100	125	125	153	12	9	76	Rp 1¼	Rp 1	18,7
CA 120/33/D	155	234	420	114	100	125	125	153	12	9	76	Rp 1¼	Rp 1	18,7
CA120/35/D	155	234	420	114	100	125	125	153	12	9	76	Rp 1¼	Rp 1	20,4
CA 120/55/D	174	239	454	172	125	155	140	170	13	10	98	Rp 1¼	Rp 1	25
CA 200/33/D	174	239	454	172	125	155	140	170	13	10	98	Rp 1½	Rp 1	25
CA 200/35/D	174	239	454	172	125	155	140	170	13	10	98	Rp 1½	Rp 1	25
CA 200/55/D	174	239	454	172	125	155	140	170	13	10	98	Rp 1½	Rp 1	27