

GENERAL DESCRIPTION

Single impeller centrifugal electric pumps made of stainless steel

MARKET SECTORS

CIVIL, AGRICULTURAL,
INDUSTRIAL.

APPLICATIONS

CEA Version made of AISI 304

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

CEA Version made of AISI 316 ("..N")

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

CIE

- Heating systems.
- Cooling systems.
- Ventilation systems.

SPECIFICATION

PUMP

- Delivery up to **31 m³/h**.
- Head up to **32 m**.
- Maximum ambient temperature:
 - **45 °C** with single-phase motor
 - **40 °C** with three-phase motor
- Temperature of pumped liquid: from -10°C to +110°C
- 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** as motor (EN 60034-1).
 - IPX5** as electric pump (EN 60335-1).
- **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.
- Rotating assembly with back pull-out design, eliminating the need to disconnect the pump body from the pipe line.
- Threaded suction and discharge ports (Rp ISO 7).
- Victaulic® connections available on request.
- High performance enclosed impeller made of **AISI 304** stainless steel (**AISI 316** for N version).
- **Mechanical seal** with Ceramic/Graphite rings, EPDM elastomers, 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** in EPDM
- **CIE version:**
 - SiC/SiC/EPDM mechanical seal,
 - motor with reinforced bearing (only for SM motors),
 - without fill/drain plugs for HVAC applications.

OPTIONAL FEATURES

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

TYPICAL APPLICATIONS ELECTRIC PUMPS

Residential and Commercial Applications:

- Humidifiers
- Water supply.
- Heating, Cooling and Ventilation systems
- Water re-circulation
- Cooling towers
- Cooling systems
- Temperature control
- Chillers
- Induction heating
- Heat exchangers
- Water heating

General Industry:

- Spray booths
- Light chemical transfer
- Booster systems
- Commercial washers
- Car washer

Water Purification:

- Filtration
- De-ionized water
- Water treatment
- Commercial and residential pools

Plastic Industry:

- Temperature Regulators
- Extrusion machines
- Manufacture of polymers

Agricultural Applications:

- Irrigation
- Greenhouses
- Water supply



Medical:

- Laser cooling
- Massage
- Medical chillers
- Sanitary equipment

Machine Tool:

- Degreasing
- Parts washing
- Chemical treatment
- Heat treatment

Graphics:

- Film washing
- Cooling processes

Marine Sector:

- Water on board ships

Computers:

- Circuit board washing
- Unit cooling

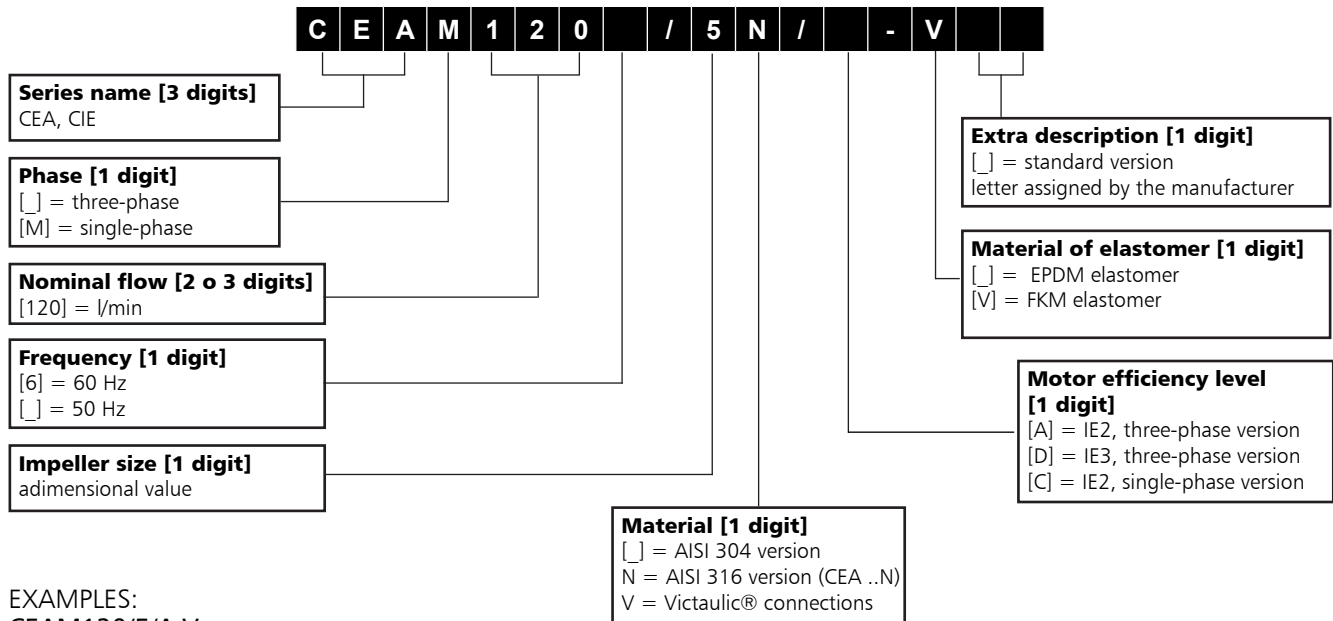
Food and Drink:

- Food processing
- Bottle washing
- Citrus processing
- Dish-washing
- Brewing
- Sanitary ware



CEA-CIE SERIES

IDENTIFICATION CODE



EXAMPLES:

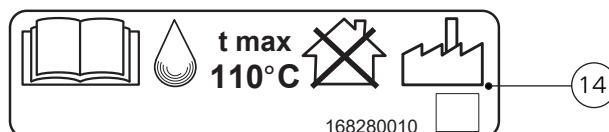
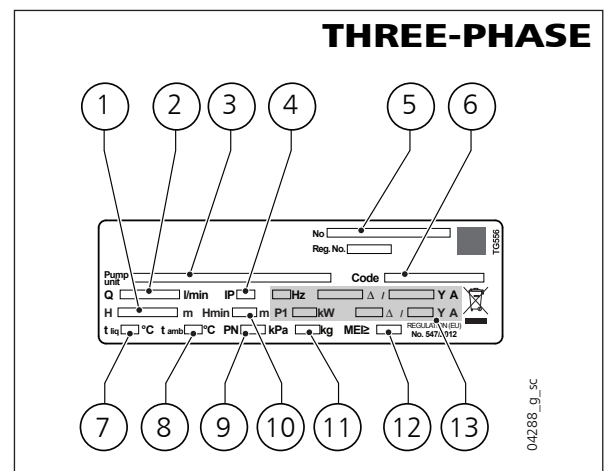
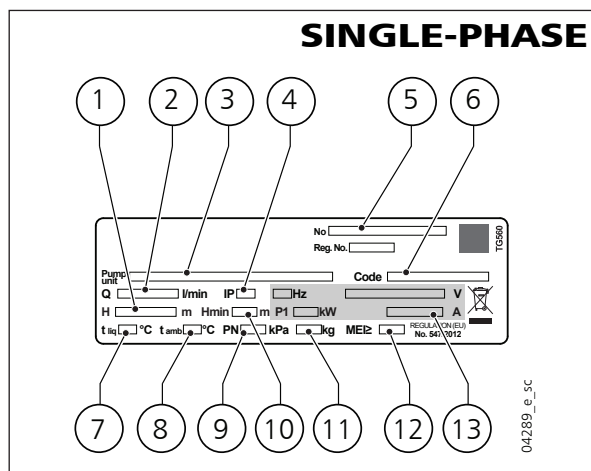
CEAM120/5/A-V

CEA series electric pump, single-phase, nominal flow 120 l/min, frequency 50 Hz, 1 impeller size 5, AISI 304 version, FKM (FPM) elastomers.

CIE370/1V/D

CIE series electric pump, three-phase, nominal flow 370 l/min, frequency 50 Hz, 1 impeller size 1, AISI 304 version and Victaulic® connections, EPDM elastomers.

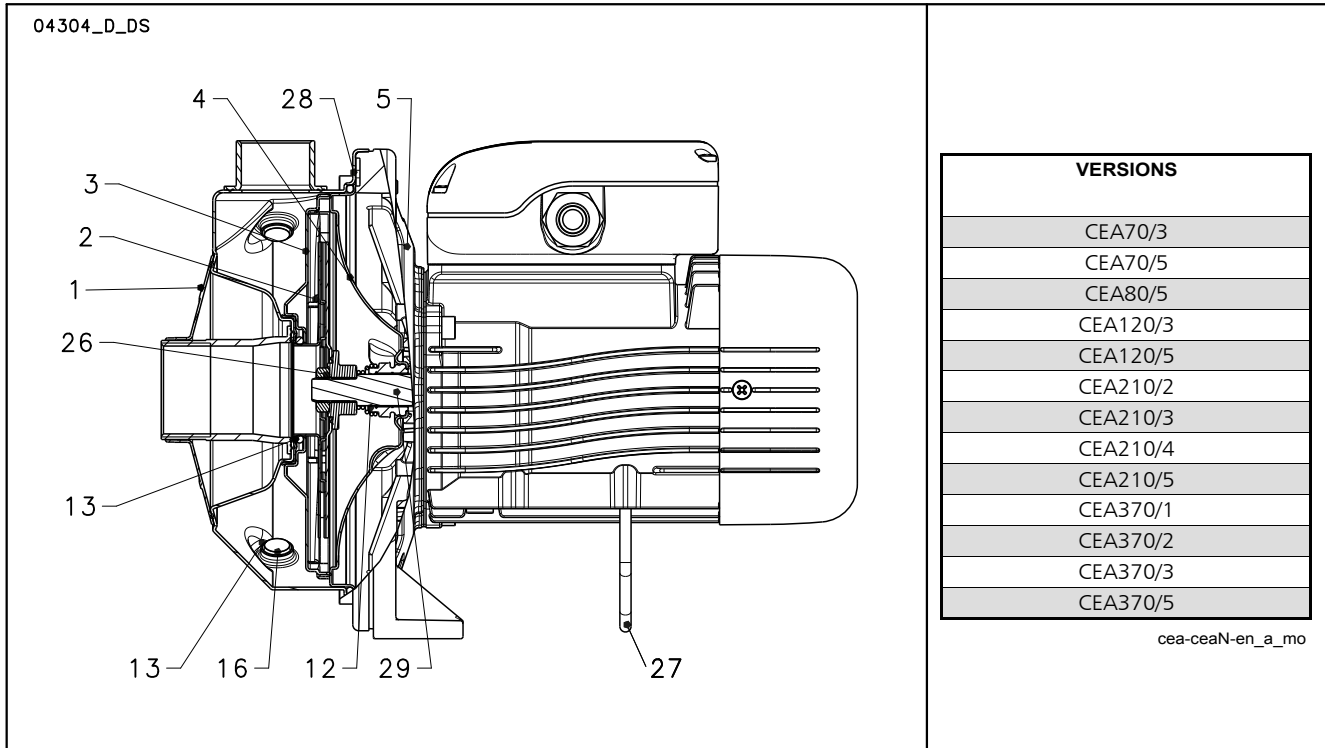
RATING PLATE



LEGEND

- | | |
|--|--|
| 1 - Head range | 8 - Maximum operating ambient temperature |
| 2 - Flow range | 9 - Maximum operating pressure |
| 3 - Electric pump unit type | 10 - Minimum head (EN 60335-2-41) |
| 4 - Electric pump unit type | 11 - Weight |
| 5 - Serial number (data + order number) | 12 - MEI Index (Regulation (EU) No 547/2012 - 50 Hz) |
| 6 - Electric pump unit code | 13 - Electrical data |
| 7 - Maximum operating liquid temperature (uses as EN 60335-2-41) | 14 - Maximum operating liquid temperature (for use other than EN 60335-2-41) |

ELECTRIC PUMP CROSS-SECTION AND MAIN COMPONENTS



CEA VERSION

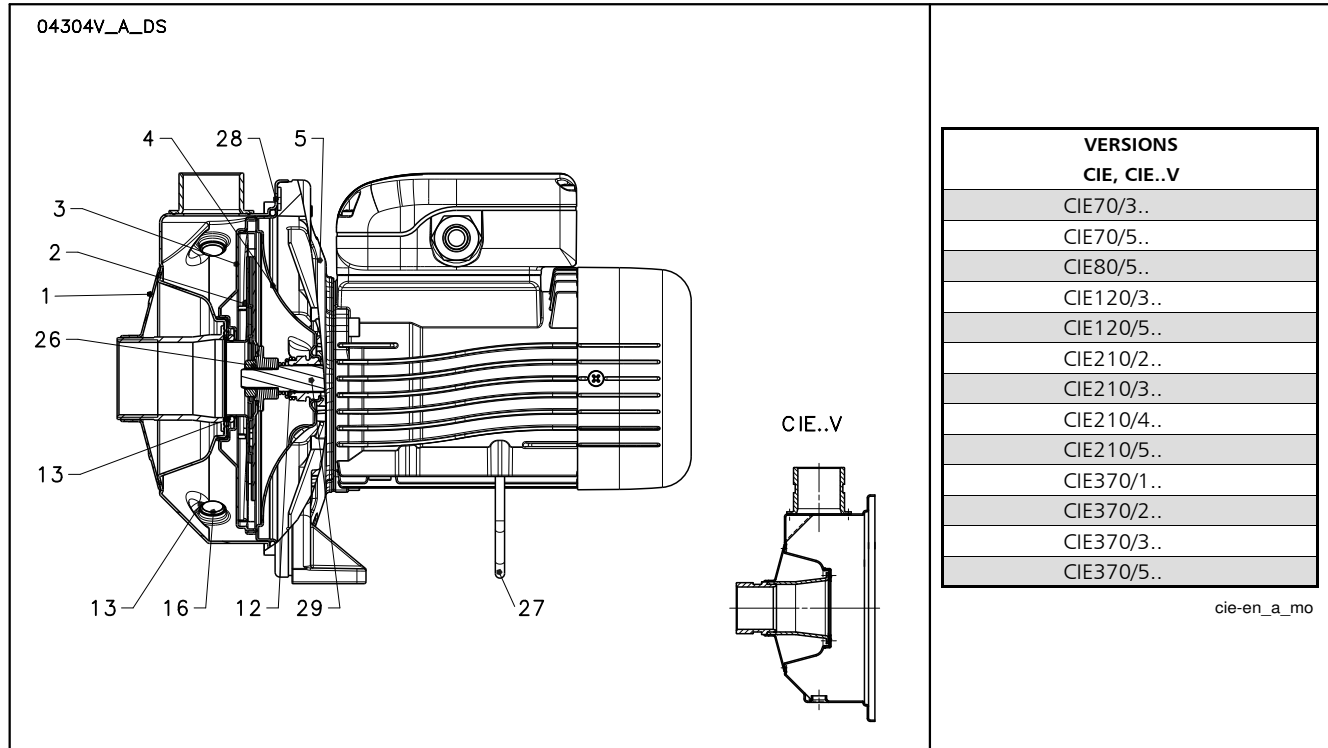
REF. N.	PART	MATERIAL	REFERENCE STANDARDS	
			EUROPE	USA
1	Pump body	Stainless steel	EN 10088-1-X5CrNi18-10 (1.4301)	AISI 304
2	Impeller	Stainless steel	EN 10088-1-X5CrNi18-10 (1.4301)	AISI 304
3	Diffuser	Stainless steel	EN 10088-1-X5CrNi18-10 (1.4301)	AISI 304
4	Seal housing	Stainless steel	EN 10088-1-X5CrNi18-10 (1.4301)	AISI 304
5	Adapter	Aluminium	EN 1706-AC-ALSi8Cu3 (Fe) (AC46200)	-
12	Mechanical seal	Ceramic / Graphite / EPDM (standard version)		
13	Elastomers	EPDM (standard version)		
16	Fill/drain plugs	Stainless steel	EN 10088-1-X5CrNiMo17-12-2 (1.4401)	AISI 316
26	Impeller lock nut	Stainless steel	EN 10088-1-X5CrNiMo17-12-2 (1.4401)	AISI 316
27	Support foot	Galvanized steel		
28	Pump body fastening nuts and bolts	Galvanized steel		
29	Shaft extension	Stainless steel	EN 10088-1-X5CrNiMo17-12-2 (1.4401)	AISI 316

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CEA..N VERSION

REF. N.	PART	MATERIAL	REFERENCE STANDARDS	
			EUROPE	USA
1	Pump body	Stainless steel	EN 10088-1-X2CrNiMo17-12-2 (1.4404)	AISI 316L
2	Impeller	Stainless steel	EN 10088-1-X2CrNiMo17-12-2 (1.4404)	AISI 316L
3	Diffuser	Stainless steel	EN 10088-1-X2CrNiMo17-12-2 (1.4404)	AISI 316L
4	Seal housing	Stainless steel	EN 10088-1-X2CrNiMo17-12-2 (1.4404)	AISI 316L
5	Adapter	Aluminium	EN 1706-AC-ALSi8Cu3 (Fe) (AC46200)	-
12	Mechanical seal	Ceramic / Graphite / EPDM (standard version)		
13	Elastomers	EPDM (standard version)		
16	Fill/drain plugs	Stainless steel	EN 10088-1-X5CrNiMo17-12-2 (1.4401)	AISI 316
26	Impeller lock nut	Stainless steel	EN 10088-1-X5CrNiMo17-12-2 (1.4401)	AISI 316
27	Support foot	Galvanized steel		
28	Pump body fastening nuts and bolts	Galvanized steel		
29	Shaft extension	Stainless steel	EN 10088-1-X5CrNiMo17-12-2 (1.4401)	AISI 316

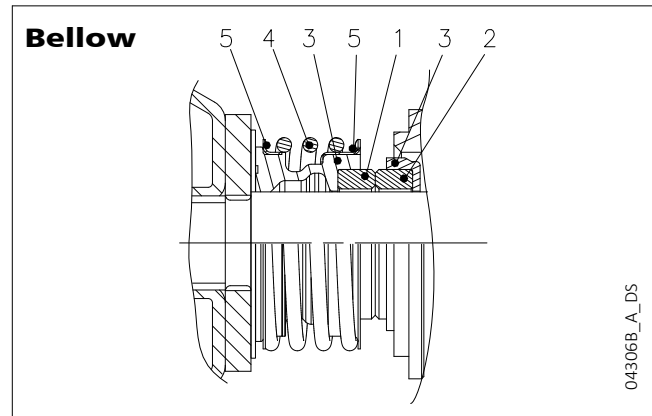
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ELECTRIC PUMP CROSS-SECTION AND MAIN COMPONENTS

CIE VERSION

REF. N.	PART	MATERIAL	REFERENCE STANDARDS	
			EUROPE	USA
1	Pump body	Stainless steel	EN 10088-1-X5CrNi18-10 (1.4301)	AISI 304
2	Impeller	Stainless steel	EN 10088-1-X5CrNi18-10 (1.4301)	AISI 304
3	Diffuser	Stainless steel	EN 10088-1-X5CrNi18-10 (1.4301)	AISI 304
4	Seal housing	Stainless steel	EN 10088-1-X5CrNi18-10 (1.4301)	AISI 304
5	Adapter	Aluminium	EN 1706-AC-ALSi8Cu3 (Fe) (AC46200)	-
12	Mechanical seal	Silicon carbide / Silicon carbide / EPDM (standard version)		
13	Elastomers	EPDM (standard version)		
16	Fill/drain plugs	Stainless steel	EN 10088-1-X5CrNiMo17-12-2 (1.4401)	AISI 316
26	Impeller lock nut	Stainless steel	EN 10088-1-X5CrNiMo17-12-2 (1.4401)	AISI 316
27	Support foot	Galvanized steel		
28	Pump body fastening nuts and bolts	Galvanized steel		
29	Shaft extension	Stainless steel	EN 10088-1-X5CrNiMo17-12-2 (1.4401)	AISI 316

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Mechanical seal with mounting dimensions according to EN12756 (ex DIN 24960) and ISO 3069.



POSITION 1 - 2	POSITION 3	POSITION 4 - 5
V : Ceramic	E : EPDM	G : AISI 316
B : Graphite	V : FPM (FKM)*	
Q : Silicon Carbide	K : FFKM	
U : Carburoid tungsteno		

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SERIES	TYPE	CONSTRU- CTION	POSITION					TEMPERATURE (°C)
			1 ROTATING ASSEMBLY	2 FIXED ASSEMBLY	3 ELASTOMERS	4 SPRINGS	5 OTHER COMPONENTS	
CEA	STANDARD MECHANICAL SEAL							
	VBEGG ^{a)}	PUSHER	V	B	E	G	G	-10...+110
	OTHER TYPES OF MECHANICAL SEAL							
	VBVGG	PUSHER	V	B	V	G	G	-10...+110
	QQEGG	BELLOW	Q	Q	E	G	G	
	UQEGG	PUSHER	U	Q	E	G	G	
	UQVGG	PUSHER	U	Q	V	G	G	
	QQVGG	BELLOW	Q	Q	V	G	G	
	QQKGG ^{b)}	PUSHER	Q	Q	K	G	G	
CEA..N	STANDARD MECHANICAL SEAL							
	VBEGG ^{a)}	PUSHER	V	B	E	G	G	-10...+110
	OTHER TYPES OF MECHANICAL SEAL							
	VBVGG	PUSHER	V	B	V	G	G	-10...+110
	QQEGG	BELLOW	Q	Q	E	G	G	
	QQVGG	BELLOW	Q	Q	V	G	G	
	QQKGG ^{b)}	PUSHER	Q	Q	K	G	G	

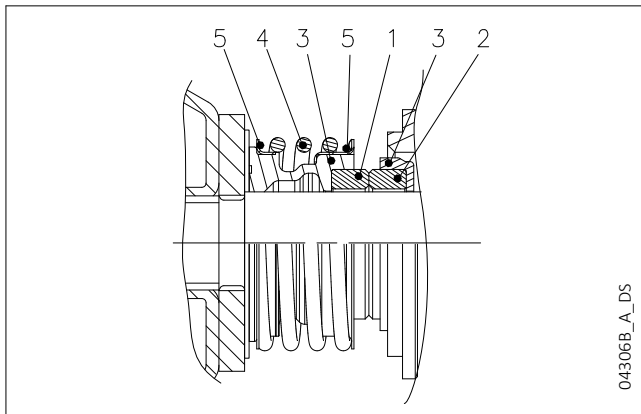
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service@linn-pumpen.de

CIE SERIES

MECHANICAL SEAL

Mechanical seal with mounting dimensions according to EN12756 (ex DIN 24960) and ISO 3069.



LIST OF MATERIALS

POSITION 1 - 2	POSITION 3	POSITION 4 - 5
Q : Silicon carbide	E : EPDM V : FPM (FKM)*	G : AISI 316

* For hot water: max 80°C

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SEAL TYPES

TYPE	POSITION					TEMPERATURE (°C)
	1	2	3	4	5	
	ROTATING ASSEMBLY	FIXED ASSEMBLY	ELASTOMERS	SPRINGS	OTHER COMPONENTS	
STANDARD MECHANICAL SEAL						
QQEGG	Q	Q	E	G	G	-10...+110
QQVGG	Q	Q	V	G	G	-10...+110

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MOTORS (ErP 2009/125/EC)

- Short-circuit squirrel-cage motor, enclosed construction with external ventilation (TEFC).
- **IP55** protection degree.
- Insulation class **155 (F)**.
- Electrical performances according to EN 60034-1.
- Supplied **single-phase** surface motors with **IE2** efficiency level
- Supplied **three-phase** surface motors with **IE2** efficiency level (power < 0,75 kW) or **IE3** efficiency level (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.
- **Single-phase** version:
0,4 to 1,5 kW (2-pole)
220-240 V 50 Hz
Built-in automatic reset overload protection
Maximum ambient temperature: 45 °C.
- **Three-phase** version:
0,4 to 3 kW (2-pole)
220-240/380-415 V 50 Hz
Overload protection to be provided by the user.
Maximum ambient temperature: 40 °C.

From 1 July 2023 in accordance with the **Regulations (EU) 2019/1781 and (EU) 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 to 74,9 kW** must have a minimum level of **IE3** efficiency. The single-phase **surface motors** with **power outputs ranging from 0,12 kW** must have a minimum level **IE2** efficiency.

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)	CAPACITOR		DATA FOR 230 V 50 Hz VOLTAGE							OPERATING CONDITIONS **			
				In (A)											Altitude	T. amb	ATEX
				220-240 V	μF	V	min ⁻¹	Is / In	η %	cosφ	Tn	Ts/Tn	Tm/Tn	asl	min/max		
0,4	SM63BG/1045 .. E2	63	SPECIAL	2,52-2,41	16	450	2800	3,24	70,4	0,99	1,36	0,66	1,98	≤ 1000	-15/45	No	
0,55	SM71BG/1055 .. E2	71		3,33-3,19	16	450	2810	4,16	74,1	0,99	1,87	0,69	2,13				
0,75	SM80BG/1075 .. E2	80		4,38-4,27	25	450	2865	5,11	77,4	0,97	2,50	0,40	2,26				
1,1	SM80BG/1115 .. E2	80		6,26-5,93	30	450	2860	4,78	79,6	0,98	3,67	0,50	2,14				
1,5	PLM90CEA-CO/1155 E2	90		8,41-7,87	50	450	2890	6,71	81,3	0,97	4,95	0,59	2,78				

** Operating conditions related only to the motor. For the electric pump refer to the IOM.

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THREE-PHASE MOTORS AT 50 Hz, 2 POLES

P _N kW	Model	IEC SIZE	Construction Design	N. of Poles	f _N Hz	Data for 400 V / 50 Hz Voltage				
						cosφ	I _s / I _N	T _N Nm	T _s /T _N	T _m /T _N
0,4	SM63BG/304	63	SPECIALE	2	50	0,64	4,35	1,37	4,14	4,10
0,55	SM71BG/305	71				0,71	6,25	1,84	3,96	3,97
0,75	SM80BG/307 PE	80				0,78	7,38	2,48	3,57	3,75
1,1	SM80BG/311 PE	80				0,79	8,31	3,63	3,95	3,95
1,5	SM80BG/315 PE	80				0,80	8,80	4,96	4,31	4,10
2,2	PLM90BG/322 E3	90				0,80	8,77	7,28	3,72	3,70
3	PLM90BG/330 E3	90				0,79	7,81	9,93	4,26	3,94

P _N kW	Voltage U _N V											n _N min ⁻¹	Operating conditions **		
	Δ			Y			Δ			Y			Altitude Above Sea Level (m)	T. amb min/max °C	ATEX
	220 V	230 V	240 V	380 V	400 V	415 V	380 V	400 V	415 V	660 V	690 V				
	I _N (A)														
0,4	2,03	2,18	2,32	1,17	1,26	1,34	-	-	-	-	-	2745 ÷ 2800	≤ 1000	-15 / 40	No
0,55	2,46	2,49	2,56	1,43	1,44	1,48	-	-	-	-	-	2835 ÷ 2865			
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			
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			
2,2	7,97	7,90	7,98	4,60	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																		IE
	Δ 220 V Y 380 V			Δ 230 V Y 400 V			Δ 240 V Y 415 V			Δ 380 V Y 660 V			Δ 400 V Y 690 V			Δ 415 V			
	4/4	3/4	2/4	4/4	3/4	2/4	4/4	3/4	2/4	4/4	3/4	2/4	4/4	3/4	2/4	4/4	3/4	2/4	
0,4	70,4	73,2	68,9	70,4	70,3	64,5	70,4	67,2	60,2	-	-	-	-	-	-	-	-	-	2
0,55	74,1	74,2	70,4	74,1	73,6	68,8	74,1	72,7	67,1	-	-	-	-	-	-	-	-	-	
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	3
1,1	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	
1,5	85,6	86,5	85,8	85,9	86,4	84,9	86,0	86,0	84,0	85,6	86,0	84,0	85,6	86,0	84,0	85,6	86,0	84,0	
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.

cea-IE3-mott-2p50-en_c_te

AVAILABLE VOLTAGES

SINGLE-PHASE	50 Hz	60 Hz
PN kW	1 x 220-240	1 x 220-230
0,40	s	-
0,55	s	s
0,75	s	s
1,1	s	-
1,5	s	-

THREE-PHASE	50 Hz			60 Hz				50/60 Hz	
PN kW	3 x 220-230-240/380-400-415	3 x 380-400-415/660-690	3 x 440-460/-	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 230/400 50 Hz 3 x 265/460 60 Hz	3 x 400/690 50 Hz 3 x 460/- 60 Hz
0,40	s	o	o	s	o	o	o	o	o
0,55	s	o	o	s	o	o	o	o	o
0,75	s	o	o	s	o	o	o	o	o
1,1	s	o	o	s	o	o	o	o	o
1,5	s	o	o	s	o	o	o	o	o
2,2	s	o	o	s	o	o	o	o	o
3	s	o	o	s	o	o	o	o	o

s = Standard voltage

o = voltage upon request

cea-volt-lowa-en_e_te

Please contact the sales network to check other available voltages.

Tolerances on nominal voltages
• 50 Hz:

± 10% on the single voltage value shown on the rating plate.
± 5% on voltage range shown on the rating plate.

• 60 Hz:

± 10% on the voltage values shown on the rating plate.

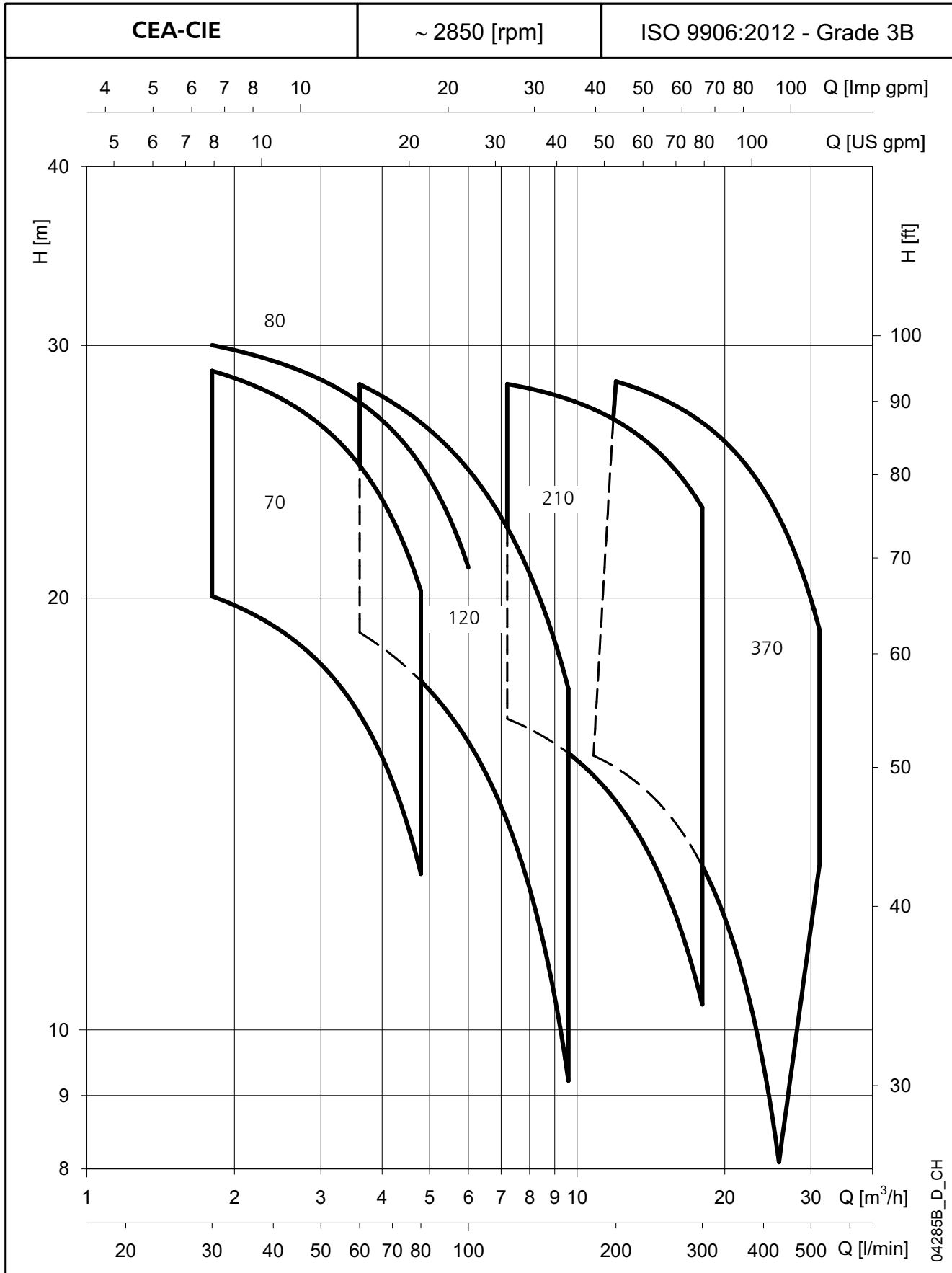
HYDRAULIC PERFORMANCE RANGE AT 50 Hz, 2 POLES


TABLE OF HYDRAULIC PERFORMANCES AT 50 Hz, 2 POLES

PUMP TYPE CEA.. CIE..	VERSION	MOTOR		ELECTRIC PUMP			η MEI (1)	Q = DELIVERY									
		P _N kW	TYPE	* P ₁ kW	* I			l/min 0 m³/h 0	30	45	60	75	90	105	120	135	160
					220-240 V A	380-415 V A											
H = TOTAL HEAD IN METRES OF COLUMN OF WATER																	
70/3	1 ~	0,4	SM63BG/1045	0,55	2,33	-	-	22,2	20,2	18,8	16,8	14,1					
70/5		0,75	SM80BG/1075	0,91	4,05	-	-	31,9	29,7	28,3	26,0	22,8					
80/5		1,1	SM80BG/1115	1,06	4,70	-	-	32,6	30,6	29,6	28,3	26,5	24,1				
120/3		0,55	SM71BG/1055	0,79	3,47	-	0,40	22,3			18,7	17,6	16,5	15,1	13,6	11,9	8,7
120/5		1,1	SM80BG/1115	1,30	5,73	-	0,40	32,1			28,5	27,4	26,1	24,6	22,9	21,0	17,6
70/3	3 ~	0,4	SM63BG/304	0,61	2,51	1,45	-	22,1	20,0	18,7	16,6	13,8					
70/5		0,55	SM71BG/305	0,88	2,86	1,65	-	31,1	28,8	27,2	24,8	21,5					
80/5		0,75	SM80BG/307 PE	0,98	3,08	1,78	-	32,1	30,0	28,9	27,4	25,5	23,0				
120/3		0,55	SM71BG/305	0,82	2,74	1,58	0,40	22,5			18,9	17,9	16,8	15,5	14,0	12,3	9,1
120/5		1,1	SM80BG/311 PE	1,28	4,10	2,37	0,40	31,9			28,2	27,0	25,7	24,1	22,4	20,5	17,1

PUMP TYPE CEA.. CIE..	VERSION	MOTOR		ELECTRIC PUMP			η MEI $\geq$ (1)	Q = DELIVERY									
		P _N kW	TYPE	* P ₁ kW	* I			l/min 0 m³/h 0	120	140	160	180	200	250	300	301	302
					220-240 V	380-415 V											
					A	A											
H = TOTAL HEAD IN METRES OF COLUMN OF WATER																	
210/2	1 ~	1,1	SM80BG/1115	1,11	4,91	-	0,40	17,9	16,9	16,5	16,1	15,6	15,0	14,4	13,7	12,9	11,1
210/3		1,1	SM80BG/1115	1,37	6,09	-	0,40	20,7	19,6	19,3	18,9	18,4	17,9	17,3	16,7	15,9	14,2
210/4		1,5	PLM90CEA-CO/1155 E2	1,81	8,23	-	0,40	25,6	24,9	24,5	24,1	23,7	23,1	22,4	21,7	20,9	19,1
210/2	3 ~	0,75	SM80BG/307 PE	1,04	3,22	1,86	0,40	17,7	16,5	16,1	15,6	15,1	14,4	13,8	13,0	12,2	10,4
210/3		1,1	SM80BG/311 PE	1,35	4,24	2,45	0,40	20,8	19,7	19,4	19,0	18,6	18,0	17,5	16,8	16,1	14,4
210/4		1,5	SM80BG/315 PE	1,73	5,46	3,15	0,40	25,6	24,8	24,5	24,1	23,6	23,0	22,4	21,6	20,8	19,0
210/5		2,2	PLM90BG/322 E3	2,20	7,35	4,24	0,40	29,0	28,2	27,9	27,5	27,1	26,6	26,0	25,4	24,7	23,1

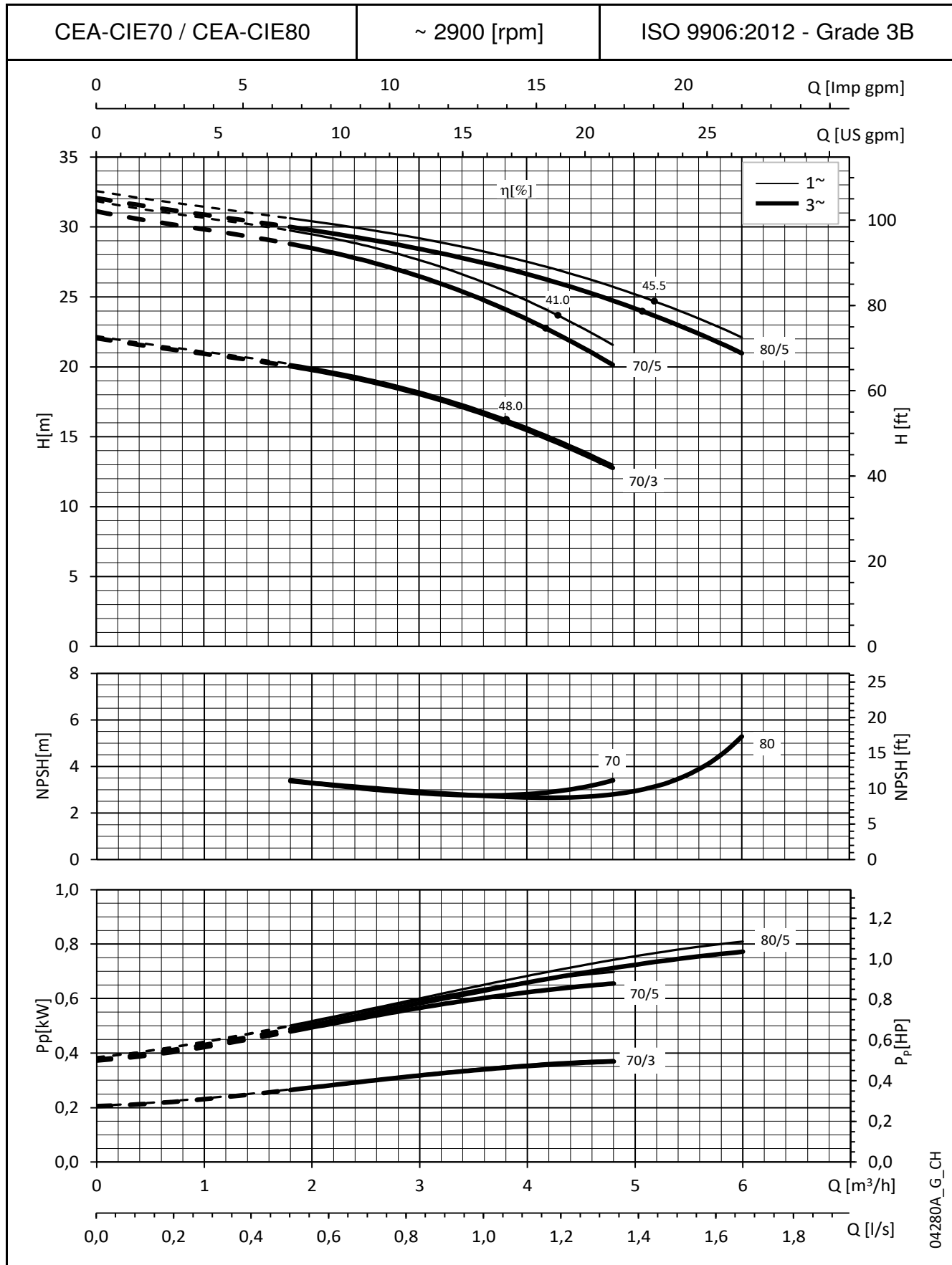
PUMP TYPE CEA.. CIE..	VERSION	MOTOR		ELECTRIC PUMP			η MEI (1)	Q = DELIVERY										
		P _N kW	TYPE	* P ₁ kW	* I			l/min 0 m³/h 0	180	200	250	300	350	400	430	480	520	
					220-240 V A	380-415 V A												
H = TOTAL HEAD IN METRES OF COLUMN OF WATER																		
370/1	1 ~	1,1	SM80BG/1115	1,43	6,32	-	0,40	16,3	15,5	14,7	13,7	12,4	10,9	9,1				
370/2		1,5	PLM90CEA-CO/1155 E2	1,95	8,87	-	0,40	20,4		18,8	17,9	16,9	15,6	14,1	12,3			
370/1	3 ~	1,1	SM80BG/311 PE	1,40	4,35	2,51	0,40	16,3	15,5	14,8	13,8	12,6	11,0	9,2				
370/2		1,5	SM80BG/315 PE	1,95	5,94	3,43	0,40	20,4		18,7	17,9	16,8	15,5	13,9	12,1			
370/3		2,2	PLM90BG/322 E3	2,45	7,84	4,53	0,40	24,4		22,5	21,7	20,7	19,5	18,1	16,3	14,3	13,0	
370/5		3	PLM90BG/330 E3	3,26	10,10	5,86	0,40	30,3		27,9	27,1	26,2	25,0	23,6	22,0	20,2	19,0	

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

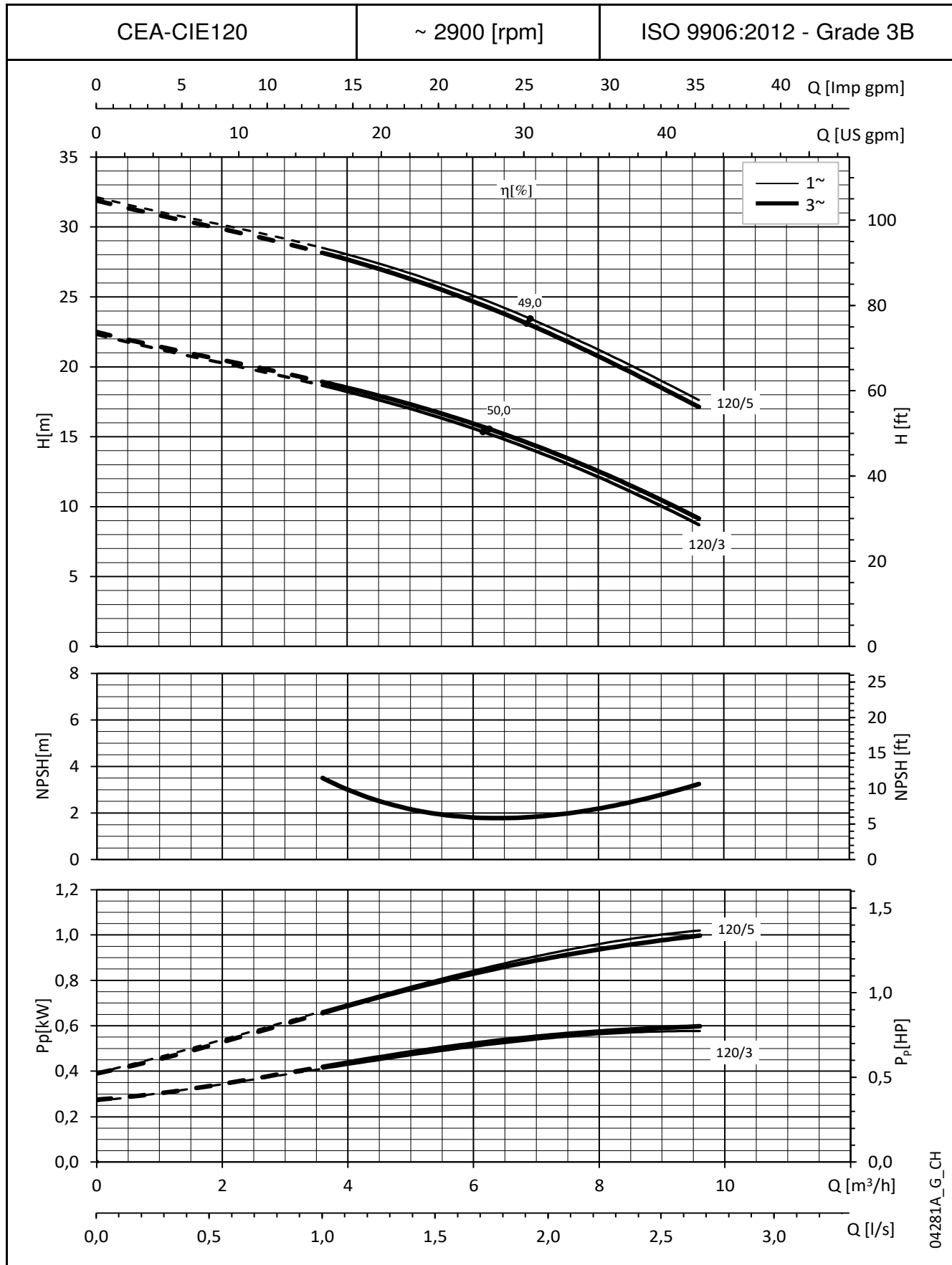
(1) Minimum efficiency index MEI

cea-cie_2p50-en_b_th

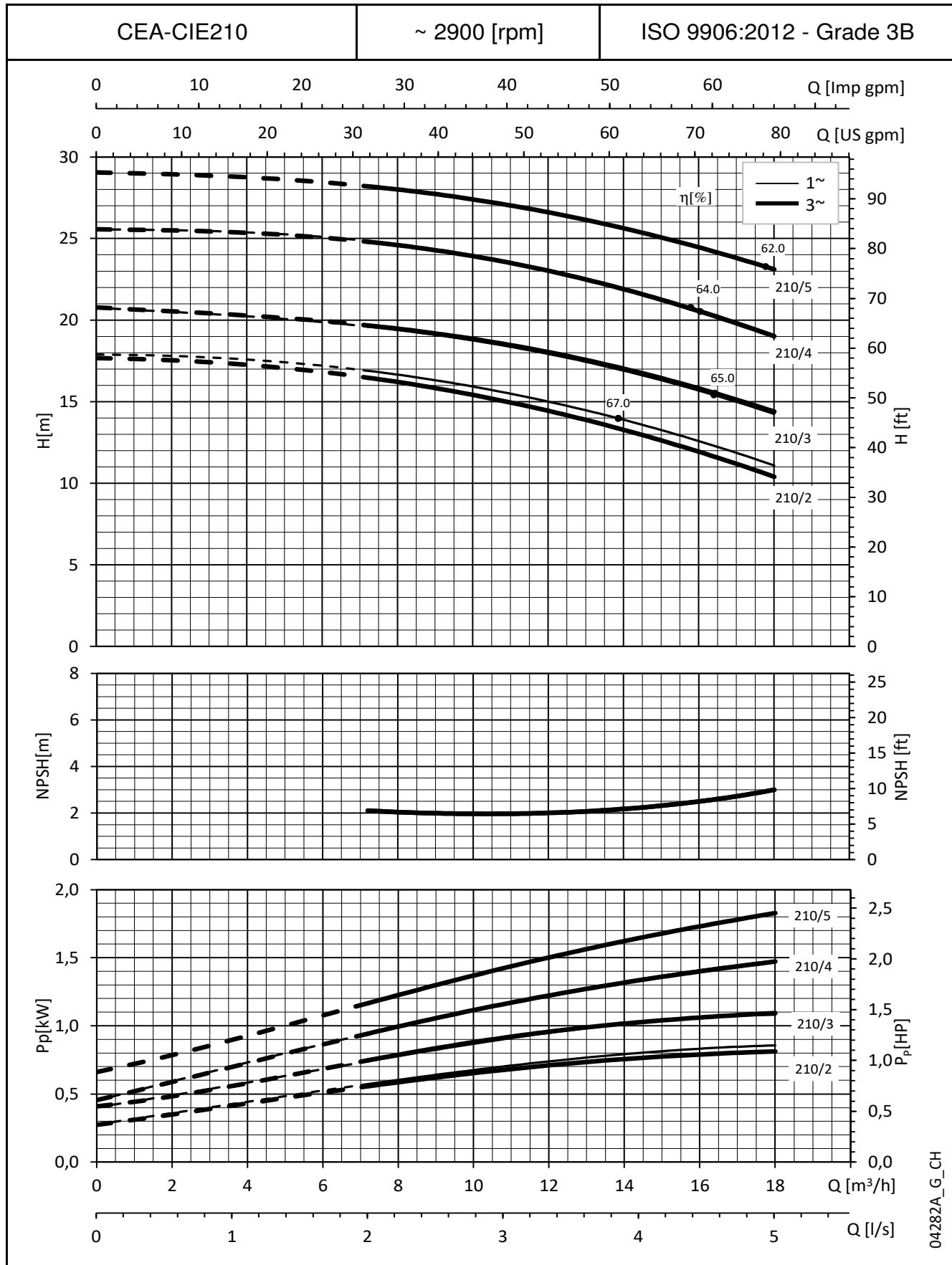
* Maximum value in specified range: P₁ = input power; I = input current.

OPERATING CHARACTERISTICS AT 50 Hz, 2 POLES


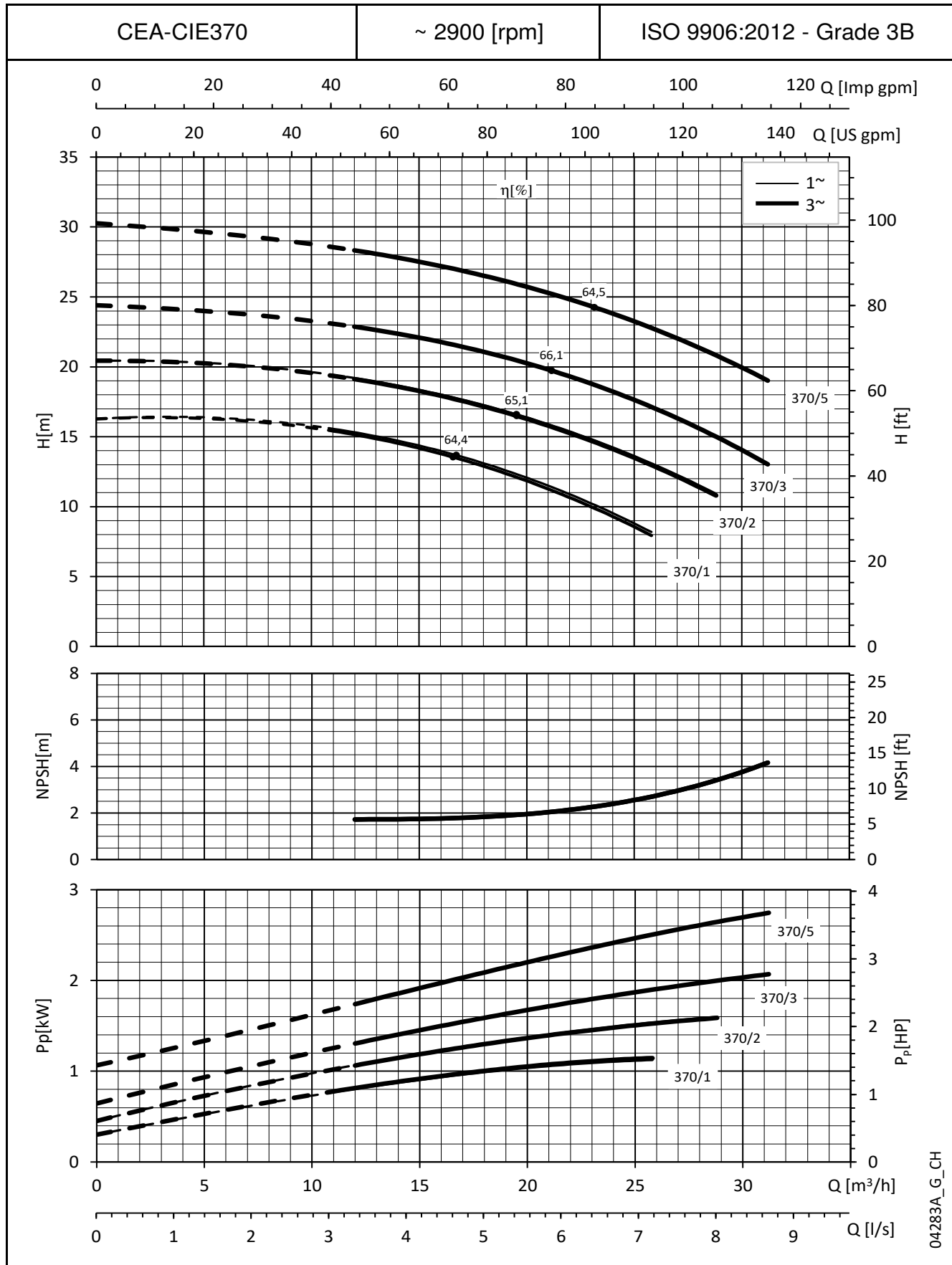
These performances are valid for liquids with density $\rho = 1.0 \text{ Kg/dm}^3$ and kinematic viscosity $\nu = 1 \text{ mm}^2/\text{sec}$.

OPERATING CHARACTERISTICS AT 50 Hz, 2 POLES


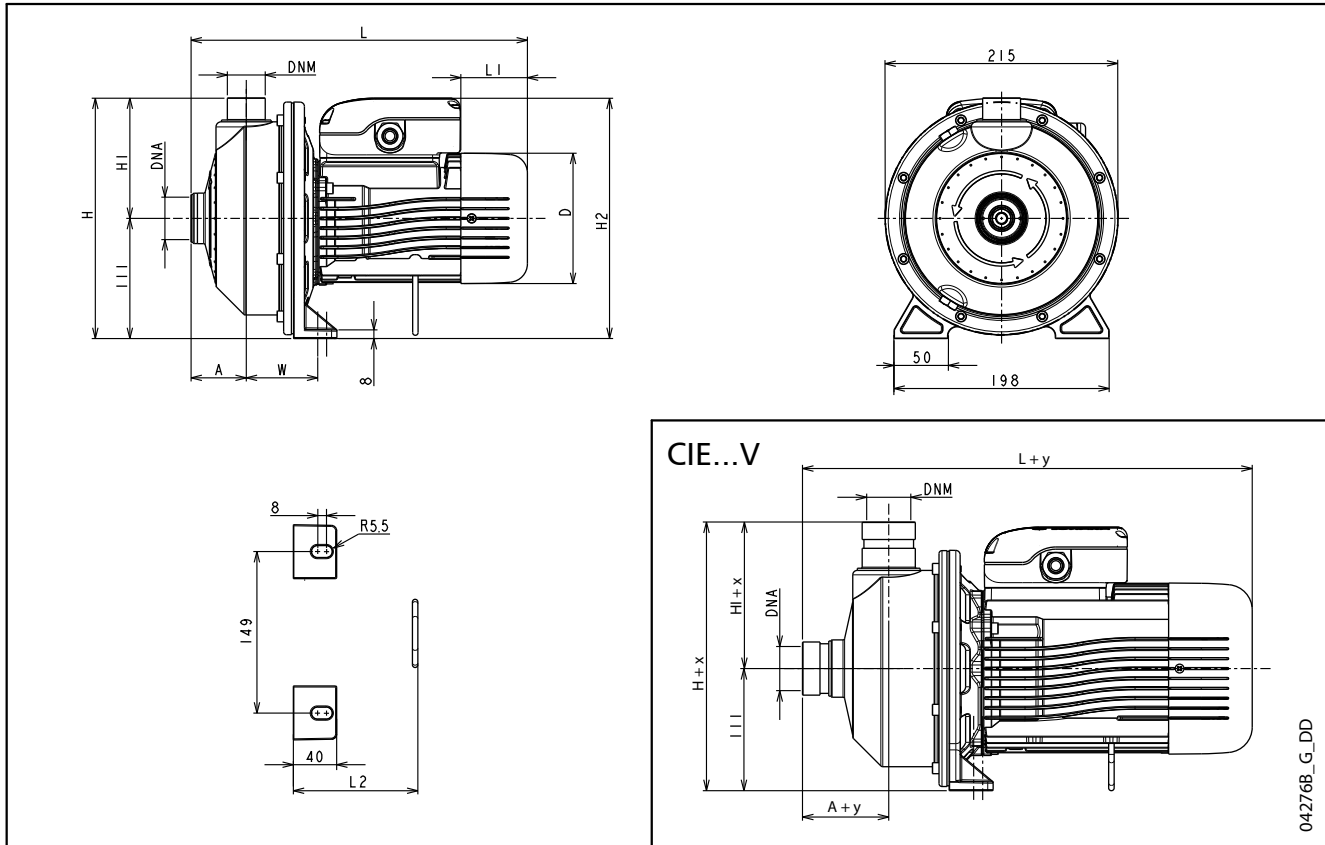
These performances are valid for liquids with density $\rho = 1.0 \text{ Kg/dm}^3$ and kinematic viscosity $\nu = 1 \text{ mm}^2/\text{sec}$.

OPERATING CHARACTERISTICS AT 50 Hz, 2 POLES


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OPERATING CHARACTERISTICS AT 50 Hz, 2 POLES


These performances are valid for liquids with density $\rho = 1.0 \text{ Kg/dm}^3$ and kinematic viscosity $\nu = 1 \text{ mm}^2/\text{sec}$.

DIMENSIONS AND WEIGHTS AT 50 Hz


PUMP TYPE CEA., CIE..	VERSION	MOTOR		DIMENSIONS (mm)											DNA (VICTAULIC)	DNM (VICTAULIC)	WEIGHT
		KW	SIZE	A	D	H	H1	H2	L	L1	L2	x	y	W			kg
70/3/C	1 ~	0,4	63	51	120	222	111	222	311	62	115	22	22,5	65	Rp 1 ¼ (1 ½")	Rp 1 (1")	7,8
70/5/C		0,75	80	51	156	222	111	248	371	69	150	22	22,5	65	Rp 1 ¼ (1 ½")	Rp 1 (1")	11,8
80/5/C		1,1	80	51	156	222	111	248	371	69	150	22	22,5	65	Rp 1 ¼ (1 ½")	Rp 1 (1")	12,0
120/3/C		0,55	71	51	140	222	111	232	325	76	117	22	22,5	65	Rp 1 ¼ (1 ½")	Rp 1 (1")	10,3
120/5/C		1,1	80	51	156	222	111	248	371	69	150	22	22,5	65	Rp 1 ¼ (1 ½")	Rp 1 (1")	13,6
210/2/C		1,1	80	54	156	224	113	248	385	69	150	20	24,5	76	Rp 1 ½ (1 ½")	Rp 1 ¼ (1 ½")	13,8
210/3/C		1,1	80	54	156	224	113	248	385	69	150	20	24,5	76	Rp 1 ½ (1 ½")	Rp 1 ¼ (1 ½")	13,8
210/4/C		1,5	90	54	174	224	113	270	433	57	197	20	24,5	76	Rp 1 ½ (1 ½")	Rp 1 ¼ (1 ½")	15,1
370/1/C		1,1	80	54	156	224	113	248	385	69	150	20	24,5	76	Rp 2 (1 ½")	Rp 1 ¼ (1 ½")	13,0
370/2/C		1,5	90	54	174	224	113	270	433	57	197	20	24,5	76	Rp 2 (1 ½")	Rp 1 ¼ (1 ½")	15,1
70/3/A	3 ~	0,4	63	51	120	222	111	222	311	62	115	22	22,5	65	Rp 1 ¼ (1 ½")	Rp 1 (1")	8,7
70/5/A		0,55	71	51	140	222	111	232	325	76	117	22	22,5	65	Rp 1 ¼ (1 ½")	Rp 1 (1")	10,6
80/5/D		0,75	80	51	155	222	111	240	371	114	150	22	22,5	65	Rp 1 ¼ (1 ½")	Rp 1 (1")	13,4
120/3/A		0,55	71	51	140	222	111	232	325	76	117	22	22,5	65	Rp 1 ¼ (1 ½")	Rp 1 (1")	10,5
120/5/D		1,1	80	51	155	222	111	240	371	114	150	22	22,5	65	Rp 1 ¼ (1 ½")	Rp 1 (1")	13,6
210/2/D		0,75	80	54	155	224	113	240	385	114	150	20	24,5	76	Rp 1 ½ (1 ½")	Rp 1 ¼ (1 ½")	13,6
210/3/D		1,1	80	54	155	224	113	240	385	114	150	20	24,5	76	Rp 1 ½ (1 ½")	Rp 1 ¼ (1 ½")	15,4
210/4/D		1,5	80	54	155	224	113	240	385	114	150	20	24,5	76	Rp 1 ½ (1 ½")	Rp 1 ¼ (1 ½")	16,9
210/5/D		2,2	90	54	174	224	113	245	429	172	197	20	24,5	76	Rp 1 ½ (1 ½")	Rp 1 ¼ (1 ½")	20,0
370/1/D		1,1	80	54	155	224	113	240	385	114	150	20	24,5	76	Rp 2 (1 ½")	Rp 1 ¼ (1 ½")	14,8
370/2/D		1,5	80	54	155	224	113	240	385	114	150	20	24,5	76	Rp 2 (1 ½")	Rp 1 ¼ (1 ½")	16,9
370/3/D		2,2	90	54	174	224	113	245	429	172	197	20	24,5	76	Rp 2 (1 ½")	Rp 1 ¼ (1 ½")	20,0
370/5/D		3	90	54	174	224	113	245	429	172	197	20	24,5	76	Rp 2 (1 ½")	Rp 1 ¼ (1 ½")	20,0

cea-2p50-en_n_td