

CPE / CP-GE / DCPE / DCP-GE

ELECTRONIC IN-LINE PUMPS FOR CIRCULATION SYSTEMS



TECHNICAL DATA

Operating range:

from 1,2 to 230 m³/h with head up to 56 metres

Pumped liquid: clean, free of solids and abrasives, non-viscous, non-aggressive, non-crystallised and chemically neutral, with properties similar to water.

Maximum operating pressure:

PN10 : DN 40 - DN 50

PN16 : Remainder of the range

Flanging: PN 16.

Counter flanges on request:

DN 40 - DN 50 - DN 65 - DN 80 - DN 100 - DN 125 - DN 150; PN 16.

Protection: IP 55

Insulation: class F

Liquid temperature range:

-10 °C to +130 °C for DN 40 - 50

-10 °C to +140 °C for the remainder of the range

Maximum ambient temperature: +40°C

Maximum working pressure: 16 bar

Standard single-phase voltage: 1x220-240 V / 50-60 Hz

Special version on request:

three-phase 3x400 V / 50 Hz or three-phase 3x460 V / 60 Hz

Standard three-phase voltage: 3x400 V / 50 Hz

Special version on request: 3x460 V / 60 Hz

Pumped liquid: clean, free of solids and abrasives, non-viscous, non-aggressive, non-crystallised and chemically neutral.

APPLICATIONS

In-line port circulation pumps, suitable for heating, air conditioning, refrigeration and sanitary water systems. Particularly versatile thanks to the use of the MCE/C inverter, offering performance features capable of automatically adapting to the different needs of the system, keeping a consistent differential pressure. Available in the single and twin versions.

CONSTRUCTION FEATURES OF THE PUMP

PN 16 flanged suction and delivery ports with threaded holes for control manometers. Cast iron pump body and motor support, cast iron or technopolymer impeller depending on mode (bronze impeller available on request for DN 65 to DN 150 models only). Stainless steel motor shaft. Seal device: standardised mechanical seal according to DIN 24960 in carbon/silicon carbide with EPDM OR rings.

CONSTRUCTION FEATURES OF THE MOTOR

External ventilation asynchronous type motor. Rotor running on ball bearings, oversized to ensure low noise and durability. Construction according to CEI 2-3.

CONSTRUCTION FEATURES OF THE ELECTRONICS: MCE/C INVERTER

MCE/C inverters are the latest technological achievement of the DAB inverter range. They represent a new generation of inverters for use with circulation pumps, and set themselves apart due to ease of use, power, simplicity of installation and management. MCE/C inverters have been designed for managing circulation pumps. By allowing a simple adjustment of the differential pressure, they give the possibility of adjusting the performance of the circulation pump to the actual system requirements. They are fitted on the fan cover of the motor. This makes the installation of the pump with MCE/C particularly easy and quick. The protection class of the MCE/C is IP55. The easy of programming is guaranteed by the use of a simple and intuitive interface, similar to Dialogue electronic circulators, and a graphic display. MCE/C inverters have a double micro-processor construction that guarantees maximum efficiency and reliability.

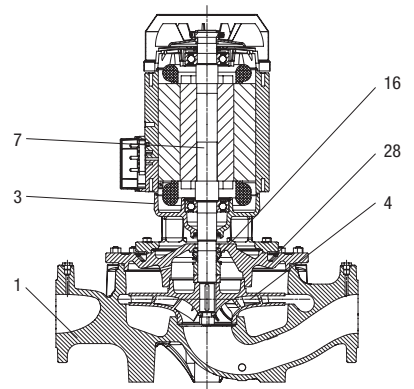
A reliable and sturdy construction, together with a modern and innovative design, complete the product, also in terms of aesthetic value. MCE/C inverters protect the motor and the pump, and increase their life, by eliminating hammering effects and making the pump rotate at the minimum number of rotations capable of meeting the requirements of the user. In addition, electric pumps controlled by the MCE/C inverter are environmentally friendly. In fact, by ensuring that the pump only uses the power that is strictly necessary for meeting the needs of the users, electricity consumption is strongly reduced when compared with fixed speed pumps. It is possible to create twin units by using the appropriate cable for the connection of MCE/C inverters.

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ELECTRONIC IN-LINE PUMPS FOR CIRCULATION SYSTEMS

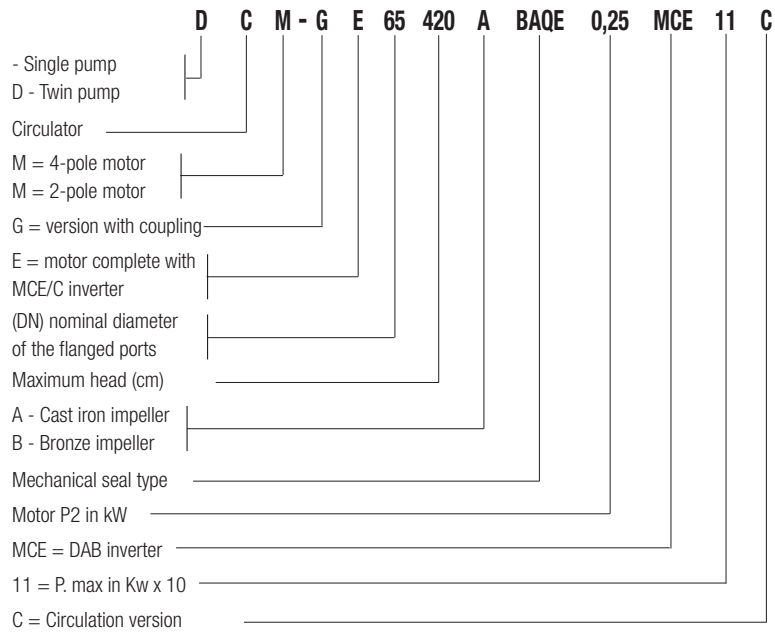
MATERIALS

N.	PARTS	MATERIALS
1	PUMP BODY	CAST IRON 250 UNI ISO 185
3	SUPPORT	CAST IRON 250 UNI ISO 185
4	IMPELLER	CAST IRON DN 65-80-100 / DCPE DN 40 - 50 / CPE 40-4700T, CPE 40-5500T, CPE 40-6200T, CPE 50-4600T, CPE 50-5650T
		TECHNOPOLYMER B CPE 40-2300T, CPE 40-3500T, CPE 50-2600T, CPE 50-4100T
7	SHAFT WITH ROTOR	AISI 303 STAINLESS STEEL X10 CrNiS 1809 UNI 6900/71
16	MECHANICAL SEAL	CARBON/GRAPHITE
28	OR RING	EPDM RUBBER

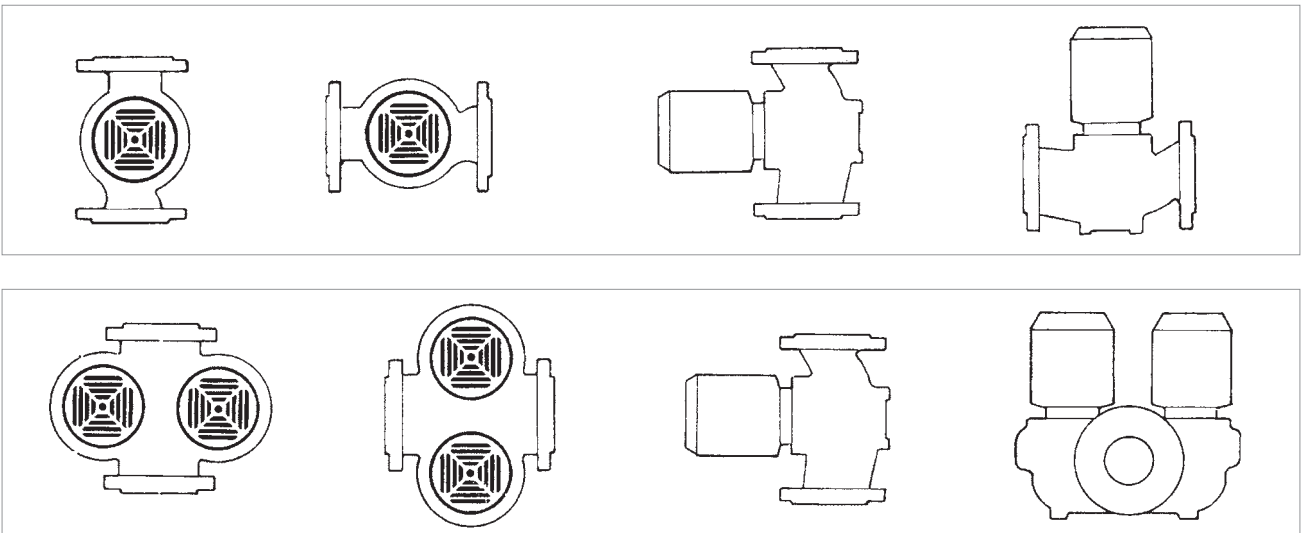


* In contact with the liquid

- Legend: (example)



Installation: horizontal or vertical position, provided that the motor is always above the pump.



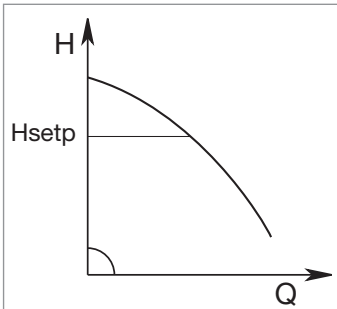
MCE/C INVERTER

MODES OF OPERATION

All the functions listed below can be consulted by the users (including less experienced ones) by simply scrolling through the MCE/C menu. The calibration and the modification of the parameters are protected, and can only be completed by expert users.

1 - ΔP -c constant differential pressure adjustment mode

The ΔP -c adjustment mode keeps the differential pressure of the system constantly at the H (setp) value set, even in case of variation of the flow rate. This is the standard adjustment used. It can be set directly from the MCE/C control panel. The inverter keeps the differential pressure (H setp) constant even in case of flow variation.



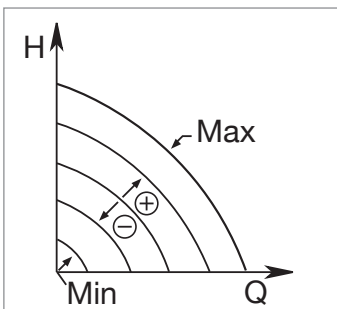
This adjustment is particularly indicated for the following systems:

- a. two-pipe heating systems with thermostat valves**
- b. underfloor heating systems with thermostat valves**
- c. single-pipe heating systems with thermostat valves and calibration valves**
- d. systems with primary circuit pumps**

2 - Constant curve adjustment modes

2.1 - Constant curve adjustment

The rotation speed is kept at a constant number of revolutions. This rotation speed can be set between a minimum value and the nominal frequency of the circulation pump (e.g. between 15 Hz and 50 Hz). This mode can be set using the control panel on the MCE cover.

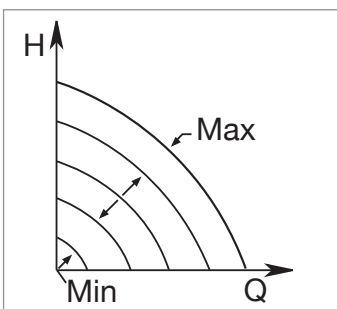


2.2 - Adjustment of the constant curve with external analogue signal

The rotation speed is kept at a constant number of revolution in proportion with the voltage of the external analogue signal.

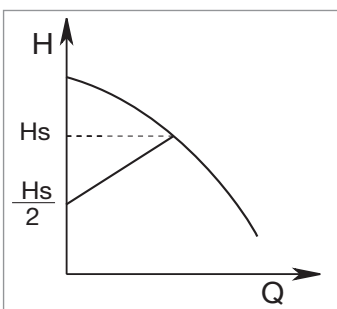
The rotation speed changes in a linear way, between the nominal frequency of the pump when $V_{in} = 10$ V, and the minimum frequency when $V_{in} = 0$ V.

This mode can be set using the control panel on the MCE cover.



3 - ΔP -v * proportional differential pressure adjustment mode

With ΔP -v adjustment mode, with the variation of the flow rate, the value of the delivery of the head also varies in a linear manner, from Hsetp to Hsetp/2.



For more information refer to the technical appendix.

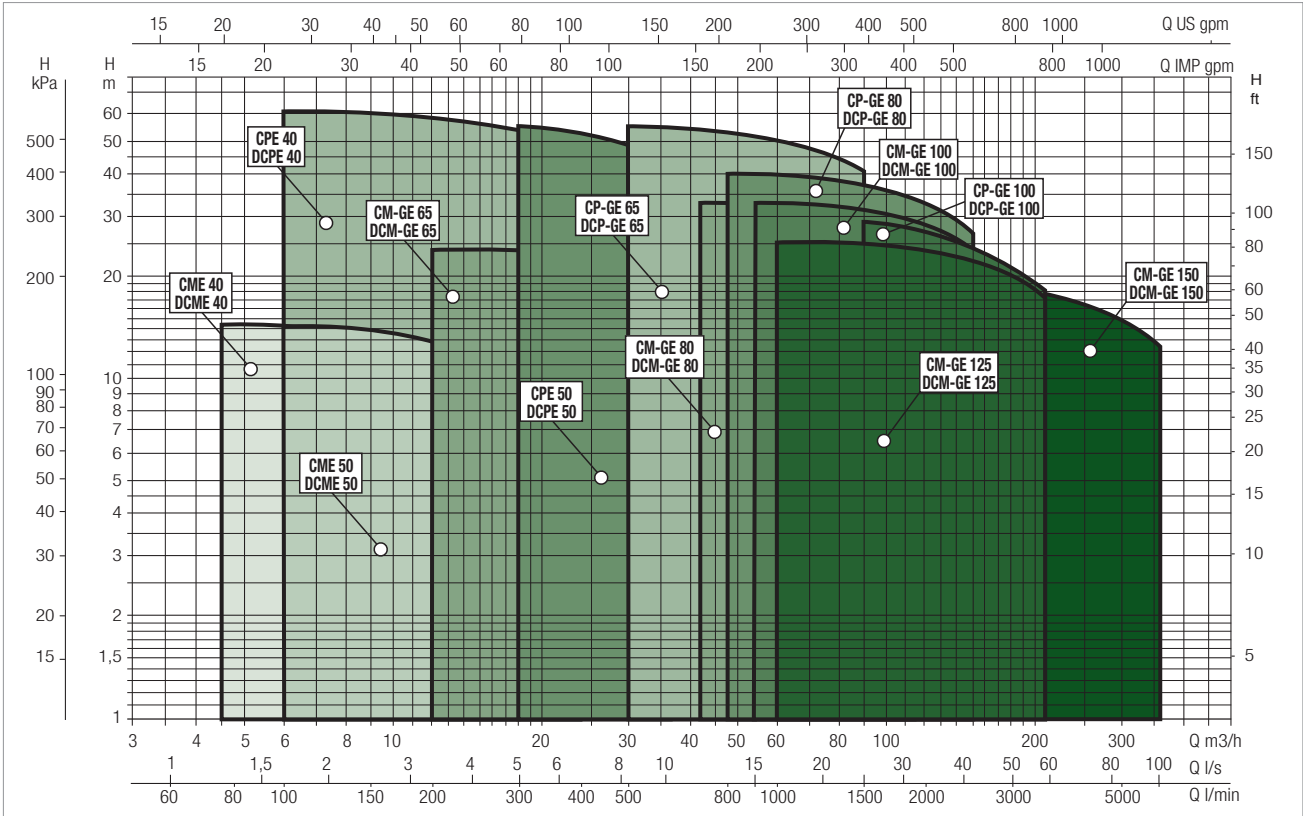
ELECTRIC IN-LINE PUMPS

ELECTRONIC IN-LINE PUMPS FOR CIRCULATION SYSTEMS

PERFORMANCE RANGE

The performance curves are based on kinematic viscosity values = 1 mm²/s and density equal to 1000 kg/m³. Curve tolerance according to ISO 9906.

GRAPHIC SELECTION TABLE



SELECTION TABLE - CPE - 2 POLES

MODEL	Q=																			
	m ³ /h	0	3,6	4,8	6	12	18	24	30	36	42	48	54	60	66	72	78	84	90	
	Q=	0	60	80	100	200	300	400	500	600	700	800	900	1000	1100	1200	1300	1400	1500	
	l/min																			
CPE 40/2300 M MCE11/C IE2	H (m)	21,8	21,8	21,3	21	18														
CPE 40/2300 T MCE30/C IE2		21,8	21,8	21,3	21	18														
CPE 40/3500 M MCE22/C IE2		34,8	34,9	34,7	34,2	31,7														
CPE 40/3500 T MCE30/C IE2		34,8	34,9	34,7	34,2	31,7														
CPE 40/4700 T MCE55/C IE2					47	44	39,5	35												
CPE 40/5500 T MCE55/C IE2					55	53	48	42												
CPE 40/6200 T MCE110/C IE2					62	59	54	49												
CPE 50/2600 M MCE15/C IE2					25	22	16													
CPE 50/2600 T MCE 30/C IE2					25	22	16													
CPE 50/4100 T MCE30/C IE2					40,7	38,5	34,5	27,7												
CPE 50/4600 T MCE55/C IE2							44	41,5	37	31										
CPE 50/5650 T MCE110/C IE2							55,5	53	49	44										

CPE / CP-GE / DCPE / DCP-GE

ELECTRONIC IN-LINE PUMPS FOR CIRCULATION SYSTEMS

SELECTION TABLE - CPE - 2 POLES

MODEL	Q=	0	6	12	18	24	30	36	42	48	54	60	66	72	78	84	90	102	114	120	150	180	210	
	m ³ /h	0	100	200	300	400	500	600	700	800	900	1000	1100	1200	1300	1400	1500	1700	1900	2000	2500	3000	3500	
CP-GE 65-1470/A/BAQE/1.5 M MCE11/C IE2	H (m)	14,7	14,5	14,3	13,8	13	11,8	10,5	8,6	7														
CP-GE 65-1470/A/BAQE/1.5 T MCE30/C IE2		14,7	14,5	14,3	13,8	13	11,8	10,5	8,6	7														
CP-GE 65-2280/A/BAQE/3 T MCE30/C IE2		22,8	22,5	22,3	22	21,2	20,2	19	17,4	15,5	13,5													
CP-GE 65-2640/A/BAQE/4 T MCE55/C IE2		26,4	26,2	26	25,6	25	24	23	21,5	19,5	17,5	15												
CP-GE 65-3400/A/BAQE/5.5 T MCE55/C IE2		34			34	33,5	32,5	31	29,5	27	24													
CP-GE 65-4100/A/BAQE/7.5 T MCE110/C IE2		41			41	41	40	39	37,5	35,5	33	30	26,5											
CP-GE 65-4700/A/BAQE/11 T MCE110/C IE2		47					45,5	45	44,3	43,3	42	40,8	39	37	35	32,3								
CP-GE 65-5500/A/BAQE/15 T MCE150/C IE2		55						56	55,5	54	53,5	52	51	49	47,5	45,5	43	41						
CP-GE 80-1400/A/BAQE/2.2 M MCE22/C IE2		14				13,8	13,3	12,9	12,5	12,1	11,4	10,8	10	9,2	8,3	7,5								
CP-GE 80-1400/A/BAQE/2.2 T MCE30/C IE2		14				13,8	13,3	12,9	12,5	12,1	11,4	10,8	10	9,2	8,3	7,5								
CP-GE 80-2050/A/BAQE/4 T MCE55/C IE2		20,5				20	19,5	19,1	18,5	18	17,5	16,5	15,8	14,8	14	12,5	11,5							
CP-GE 80-2400/A/BAQE/5.5 T MCE55/C IE2		24				23,6	23,5	23,2	22,8	22,2	21,5	21	20	19,1	18,5	17,5	16,5	13,4						
CP-GE 80-2770/A/BAQE/7.5 T MCE110/C IE2		27,7								27,5	27,3	27,1	26,7	25,8	25,6	24,9	24,5	23	21,2	20,1				
CP-GE 80-3250/A/BAQE/11 T MCE110/C IE2		32,5								32,2	32	31,8	31,3	30,2	30	29,2	28,7	27	24,8	23,6				
CP-GE 80-4000/A/BAQE/15 T MCE150/C IE2		40								40,2	40	39,8	39,5	39	38,5	38,2	37,5	36	34,5	33,5	26,9			
CP-GE 100-1600/A/BAQE/4 T MCE55/C IE2		16						15	14,6	14,2	13,7	13,3	12,8	12,3	11,7	11	10,4	9,3	8					
CP-GE 100-1950/A/BAQE/5.5 T MCE55/C IE2		19,5						19	18,9	18,7	18,4	18,1	17,5	17,2	16,9	16,5	15,8	14,5	13	12				
CP-GE 100-2350/A/BAQE/7.5 T MCE110/C IE2		23,5						23,1	23	22,8	22,6	22,5	22	21,6	21,1	20,7	20,2	19	17,5	14,8	12			
CP-GE 100-2400/A/BAQE/11 T MCE110/C IE2		24															22	21,4	20,4	20	17,4	16,8	12	
CP-GE 100-3050/A/BAQE/15 T MCE150/C IE2		30,5																29	28,4	27,5	27	24,5	21,3	18,3

CPE / CP-GE / DCPE / DCP-GE

ELECTRONIC IN-LINE PUMPS FOR CIRCULATION SYSTEMS

SELECTION TABLE - DCPE - 2 POLES

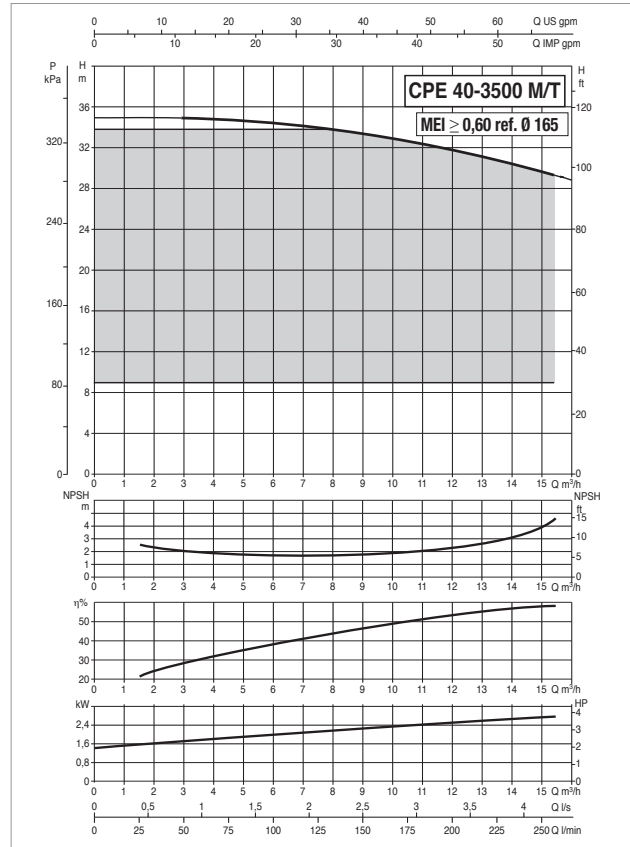
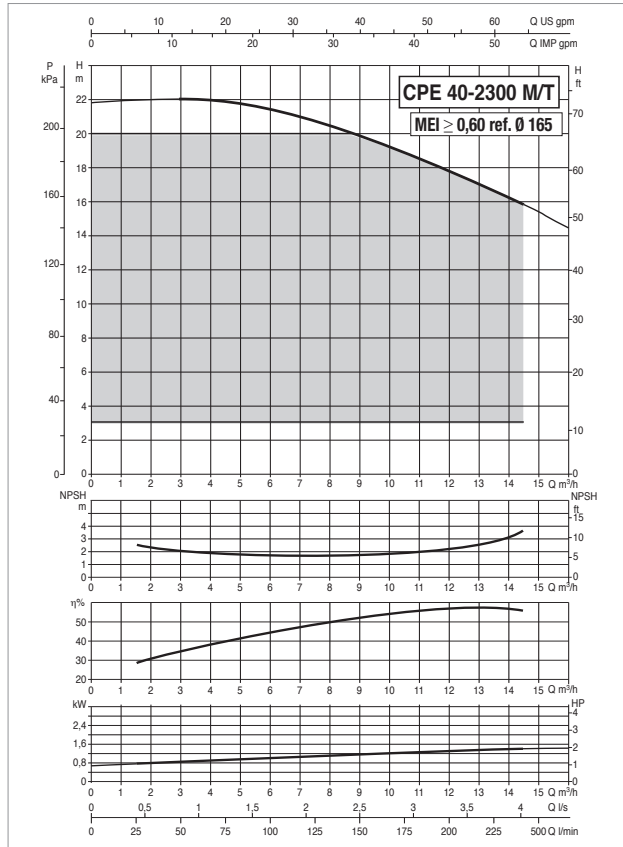
MODEL	Q=	6	7,5	9	10,5	12	13,5	15	18	21	24	27	30	36	42	48	54	60	180	210		
	m ³ /h	100	125	150	175	200	225	250	300	350	400	450	500	600	700	800	900	1000	3000	3500		
DCPE 40/1650 M MCE11/C IE2	H (m)	16,5	15,5	14,5	13,5	12,3	11	9,5	6													
DCPE 40/2450 M MCE15/C IE2		24,5	24	23,5	23	22	21	20	16,5	13												
DCPE 40/2450 T MCE30/C IE2		24,5	24	23,5	23	22	21	20	16,5	13												
DCPE 50/1550 M MCE15/C IE2								15,5	15	14,1	13	11,8	10,5	7								
DCPE 50/1550 T MCE30/C IE2								15,5	15	14,1	13	11,8	10,5	7								
DCPE 50/2450 T MCE30/C IE2								24,5	24	23,5	23	22	20,5	17								
DCPE 50/3650 T MCE55/C IE2								36,5	35,5	34,5	33,5	32,5	31	27								

SELECTION TABLE - DCP-GE - 2 POLES

MODEL	Q=	0	6	12	18	24	30	36	42	48	54	60	66	72	78	84	90	102	114	120	150	180	210	
	m ³ /h	0	100	200	300	400	500	600	700	800	900	1000	1100	1200	1300	1400	1500	1700	1900	2000	2500	3000	3500	
DCP-GE 65-1470/A/BAQE/1.5M MCE11/C	H (m)	14,4	14,2	13,8	13,1	12,0	10,6	9,0	7,0	5,3														
DCP-GE 65-1470/A/BAQE/1.5 T MCE30/C		14,4	14,2	13,8	13,1	12,0	10,6	9,0	7,0	5,3														
DCP-GE 65-2280/A/BAQE/3 T MCE30/C		22,3			21,1	19,9	18,4	16,8	14,7	12,5	10,2													
DCP-GE 65-2640/A/BAQE/4 T MCE55/C		25,9			24,6	23,7	22,2	20,7	18,8	16,4	14,0	11,4												
DCP-GE 65-3400/A/BAQE/5.5 T MCE55/C		33,3			32,5	31,4	29,7	27,4	25,0	21,7	18,2													
DCP-GE 65-4100/A/BAQE/7.5 T MCE110/C		40,2			39,6	39,0	37,4	35,7	33,4	30,7	27,5	23,9	20,1											
DCP-GE 65-4700/A/BAQE/11 T MCE110/C		46,4				44,3	43,6	42,6	41,3	39,6	38,1	35,9	33,6	31,3										
DCP-GE 65-5500/A/BAQE/15 T MCE150/C		54,3				54,7	53,9	52,1	51,2	49,4	48,0	45,6	43,7	41,3	38,4	36,1								
DCP-GE 80-1400/A/BAQE/2.2 M MCE30/C		13,7				14,3	13,7	13,0	12,3	11,4	10,3	9,1	7,8	6,5	5,2	4,0								
DCP-GE 80-1400/A/BAQE/2.2 T MCE30/C		13,7				14,3	13,7	13,0	12,3	11,4	10,3	9,1	7,8	6,5	5,2	4,0								
DCP-GE 80-2050/A/BAQE/4T MCE55/C		20,1				20,8	20,1	19,5	18,4	17,4	16,2	14,6	13,1	11,3	9,7	7,7	6,1							
DCP-GE 80-2400/A/BAQE/5.5 T MCE55/C		23,5				24,5	24,4	23,9	23,1	22,1	20,8	19,6	17,9	16,3	14,8	13,0	11,2	7,1						
DCP-GE 80-2770/A/BAQE/7.5 T MCE110/C		27,1								26,6	26,0	25,3	24,3	22,8	21,9	20,5	19,3	16,2	13,0	11,3				
DCP-GE 80-3250/A/BAQE/11 T MCE110/C		31,9								31,2	30,5	29,7	28,5	26,7	25,6	24,0	22,6	19,1	15,2	13,2				
DCP-GE 80-4000/A/BAQE/15 T MCE150/C		39,2								39,7	39,1	38,5	37,7	36,7	35,6	34,6	33,2	30,1	26,9	25,1	15,1			
DCP-GE 100-1600/A/BAQE/4 T MCE55/C		16,0						15,8	15,2	14,5	13,6	12,8	11,8	10,8	9,6	8,4	7,3	5,1	3,0					
DCP-GE 100-1950/A/BAQE/5.5 T MCE55/C		19,5						20,1	19,8	19,2	18,5	17,7	16,5	15,5	14,5	13,3	11,8	9,0	6,0	4,5				
DCP-GE 100-2350/A/BAQE/7.5 T MCE110/C		23,5						24,5	24,4	24,0	23,6	23,1	22,2	21,4	20,4	19,4	18,3	15,7	12,9	11,7	4,5			
DCP-GE 100-2400/A/BAQE/11 T MCE110/C		23,6															21,9	21,0	19,7	19,1	15,5	13,4	8,2	
DCP-GE 100-3050/A/BAQE/15 T MCE150/C		30,0															28,9	27,9	26,5	25,8	21,8	17,0	12,5	

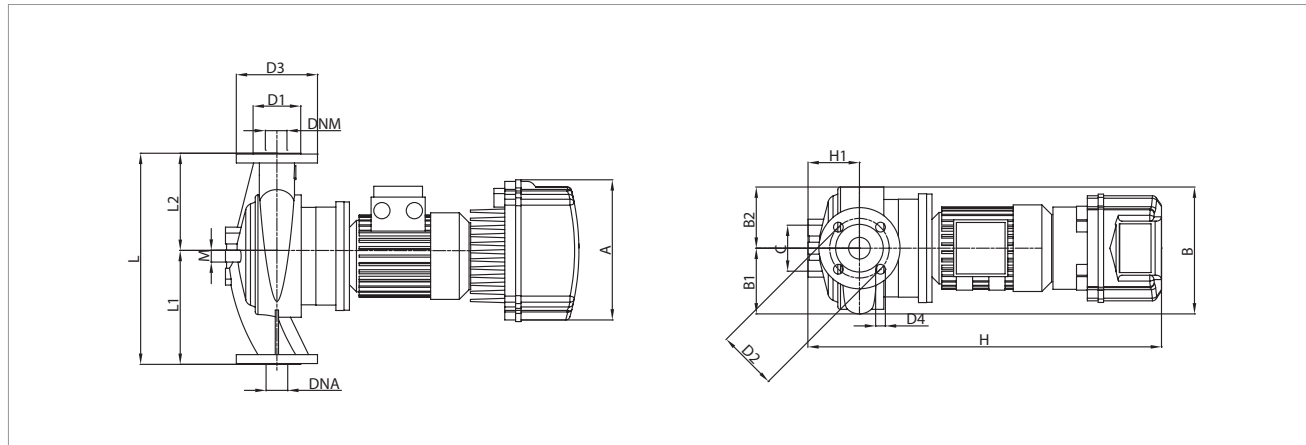
CPE 40 2 POLI - ELECTRONIC IN-LINE PUMPS FOR HEATING, AIR CONDITIONING, REFRIGERATION, SOLAR, AND SANITARY SYSTEMS - SINGLE, FLANGED, WITH MCE/C INVERTER

Pumped liquid temperature range: from -10 °C to +130°C - Maximum ambient temperature: +40°C



The MEI values for inverter controlled pumps refer to similar versions without electronics

The performance curves are based on kinematic viscosity values = 1 mm²/s and density equal to 1000 kg/m³. Curve tolerance according to ISO 9906.

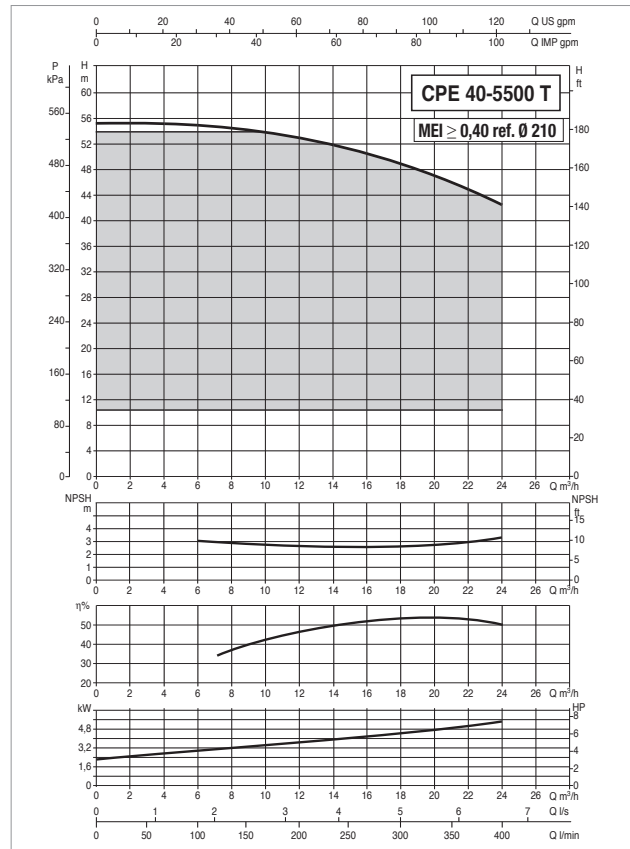
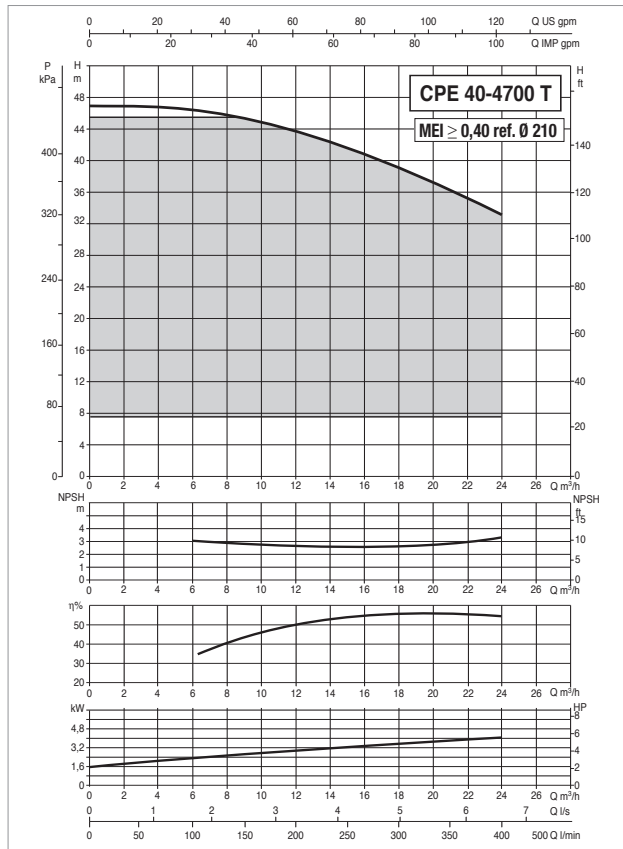


MODEL	ELECTRICAL DATA						
	POWER INPUT 50-60 Hz	MOTOR TYPE	n r.p.m.	P1 MAX W	P2 NOMINAL		In A
					kW	HP	
CPE 40/2300 M MCE11/C IE2	1 x 220-240 V ~	2 poles	2905	1,57	1,10	1,5	12,0
CPE 40/2300 T MCE30/C IE2	3 x 400 V ~	2 poles	2905	1,57	1,10	1,5	t.b.d.
CPE 40/3500 M MCE22/C IE2	1 x 220-240 V ~	2 poles	2895	2,69	2,20	3,0	19,2
CPE 40/3500 T MCE30/C IE2	3 x 400 V ~	2 poles	2895	2,69	2,20	3,0	t.b.d.

MODEL	A	B	B1	B2	C	D1	D2	D3	D4	H	H1	L	L1	L2	M	DNA	DNM	PACKING DIMENSIONS			VOLUME (m³)	WEIGHT kg
																		L/A	L/B	H		
CPE 40/2300 M MCE11/C IE2	262	231	118	113	85	88	110	150	4X18	663	95	390	200	190	12	40	40	500	270	810	0,11	49
CPE 40/2300 T MCE30/C IE2	262	231	118	113	85	88	110	150	4X18	663	95	390	200	190	12	40	40	500	270	810	0,11	49
CPE 40/3500 M MCE22/C IE2	262	231	118	113	85	88	110	150	4X18	663	95	390	200	190	12	40	40	500	270	810	0,11	52
CPE 40/3500 T MCE30/C IE2	262	231	118	113	85	88	110	150	4X18	663	95	390	200	190	12	40	40	500	270	810	0,11	52

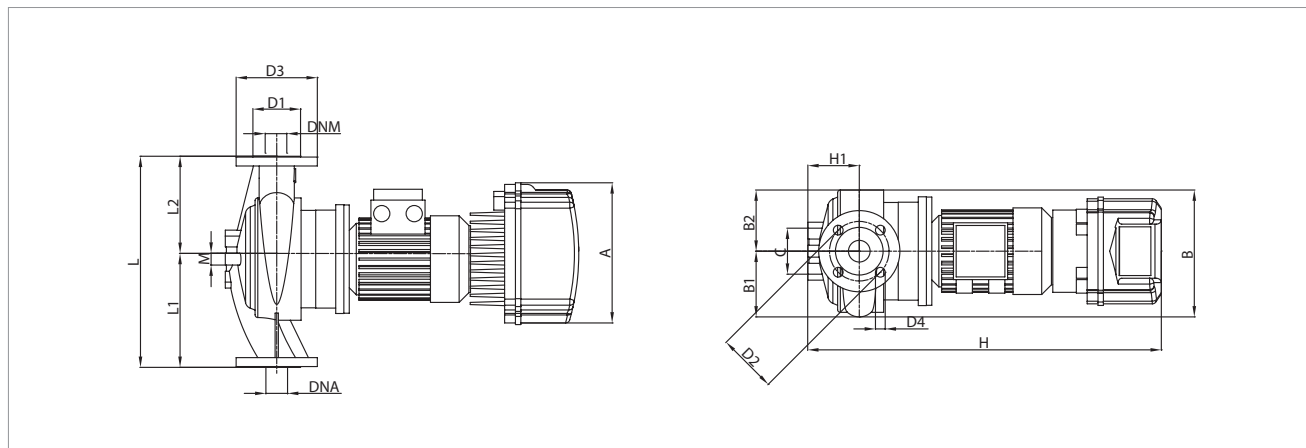
CPE 40 2 POLES - ELECTRONIC IN-LINE PUMPS FOR HEATING, AIR CONDITIONING, REFRIGERATION, SOLAR, AND SANITARY SYSTEMS - SINGLE, FLANGED, WITH MCE/C INVERTER

Pumped liquid temperature range: from -10 °C to +130°C - Maximum ambient temperature: +40°C



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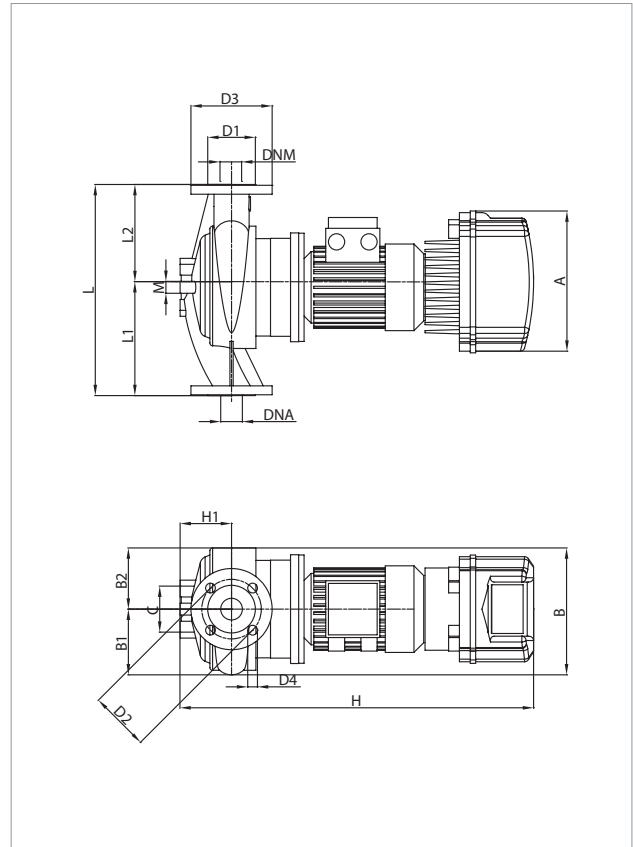
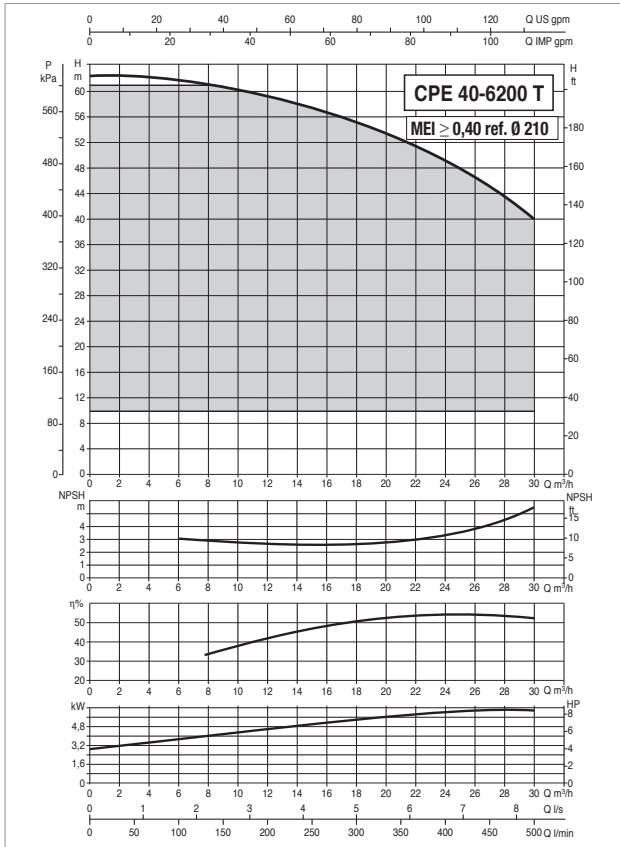


MODEL	ELECTRICAL DATA						
	POWER INPUT 50-60 Hz	MOTOR TYPE	n r.p.m.	P1 MAX W	P2 NOMINAL		In A
					kW	HP	
CPE 40/4700 T MCE55/C IE2	3 x 400 V ~	2 poles	2900	5,11	4,00	5,5	11,1
CPE 40/5500 T MCE55/C IE2	3 x 400 V ~	2 poles	2900	6,90	5,50	7,5	14,2

MODEL	A	B	B1	B2	C	D1	D2	D3	D4	H	H1	L	L1	L2	M	DNA	DNM	PACKING DIMENSIONS			VOLUME (m³)	WEIGHT kg
																		L/A	L/B	H		
CPE 40/4700 T MCE55/C IE2	353	286	159	127	-	88	110	150	4X18	735	100	380	200	180	-	40	40	650	400	945	0,25	58
CPE 40/5500 T MCE55/C IE2	353	286	159	127	-	88	110	150	4X18	735	100	380	200	180	-	40	40	650	400	945	0,25	63

CPE 40 2 POLI - ELECTRONIC IN-LINE PUMPS FOR HEATING, AIR CONDITIONING, REFRIGERATION, SOLAR, AND SANITARY SYSTEMS - SINGLE, FLANGED, WITH MCE/C INVERTER

Pumped liquid temperature range: from -10 °C to +130°C - Maximum ambient temperature: +40°C



The MEI values for inverter controlled pumps refer to similar versions without electronics

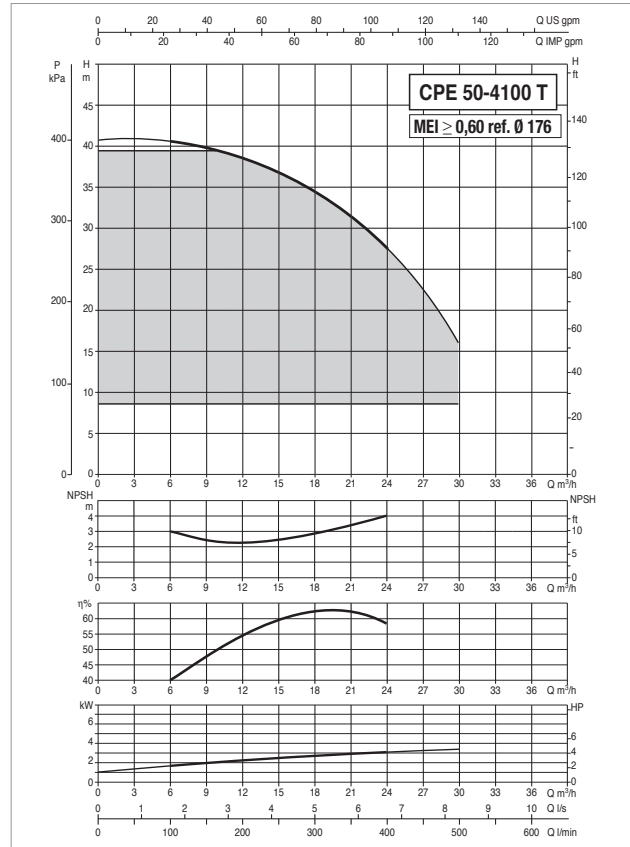
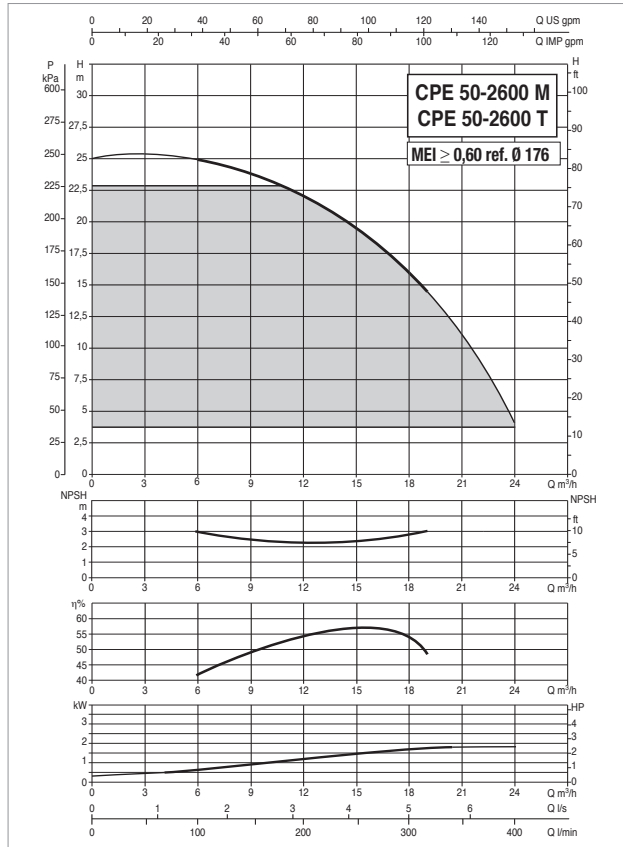
The performance curves are based on kinematic viscosity values = 1 mm²/s and density equal to 1000 kg/m³. Curve tolerance according to ISO 9906.

MODEL	ELECTRICAL DATA						
	POWER INPUT 50-60 Hz	MOTOR TYPE	n r.p.m.	P1 MAX W	P2 NOMINAL		I _n A
					kW	HP	
CPE 40/6200 T MCE110/C IE2	3 x 400 V ~	2 poles	2900	9,64	7,50	10,0	19,9

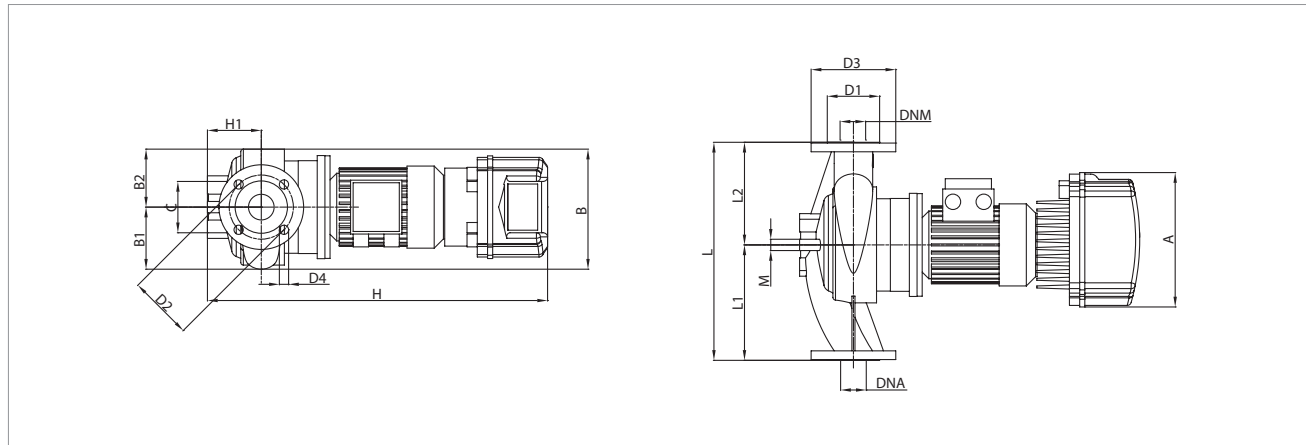
MODEL	A	B	B1	B2	C	D1	D2	D3	D4	H	H1	L	L1	L2	M	DNA	DNM	PACKING DIMENSIONS			VOLUME (m ³)	WEIGHT kg
																		L/A	L/B	H		
CPE 40/6200 T MCE110/C IE2	426	286	159	127	-	88	110	150	4X18	785	100	380	200	180	-	40	40	650	400	945	0,25	64

CPE 50 2 POLI - ELECTRONIC IN-LINE PUMPS FOR HEATING, AIR CONDITIONING, REFRIGERATION, SOLAR, AND SANITARY SYSTEMS - SINGLE, FLANGED, WITH MCE/C INVERTER

Pumped liquid temperature range: from -10 °C to +130°C - Maximum ambient temperature: +40°C



The MEI values for inverter controlled pumps refer to similar versions without electronics
 The performance curves are based on kinematic viscosity values = 1 mm²/s and density equal to 1000 kg/m³. Curve tolerance according to ISO 9906.

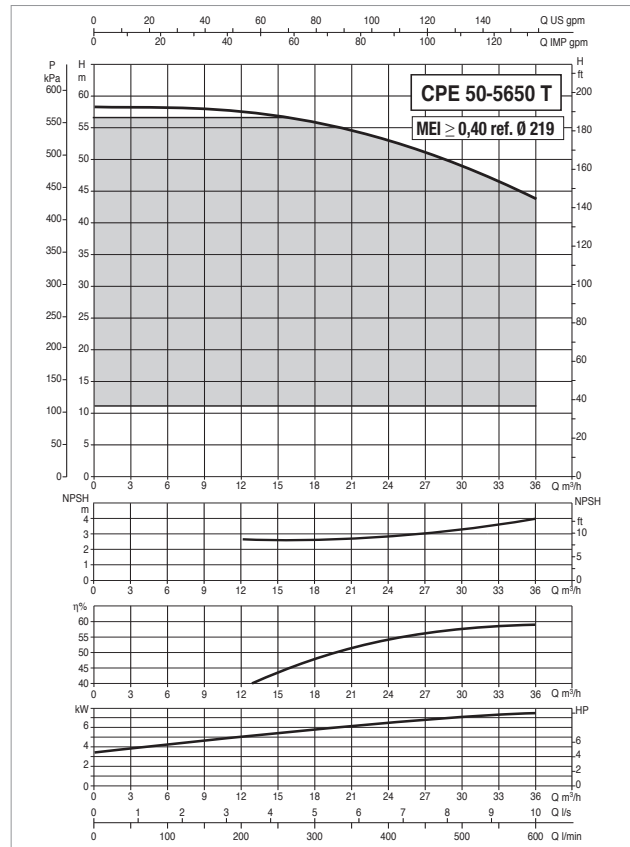
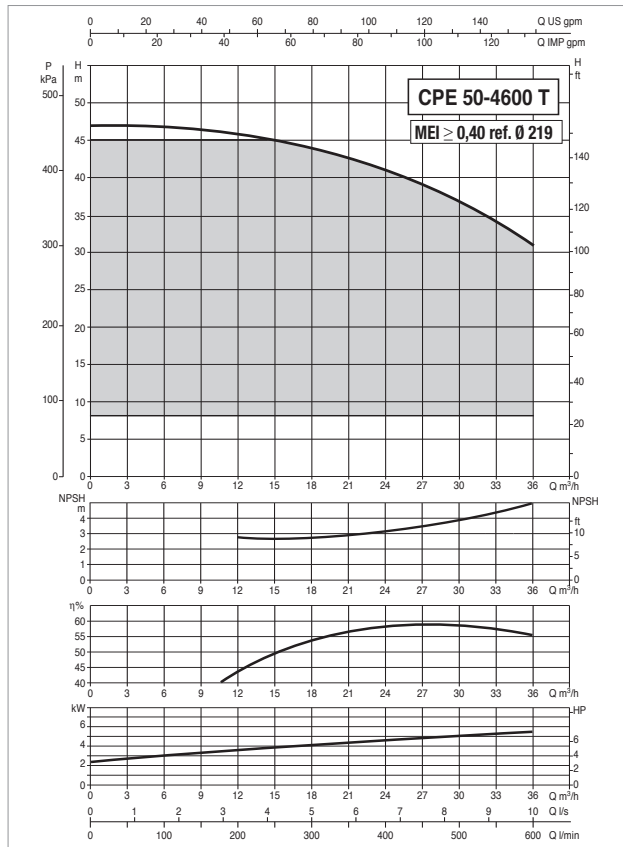


MODEL	ELECTRICAL DATA						
	POWER INPUT 50-60 Hz	MOTOR TYPE	n r.p.m.	P1 MAX W	P2 NOMINAL		In A
					kW	HP	
CPE 50/2600 M MCE15/C IE2	1 x 220-240 V ~	2 poles	2894	1,95	1,50	2,0	14,4
CPE 50/2600 T MCE 30/C IE2	3 x 400 V ~	2 poles	2894	1,95	1,50	2,0	t.b.d.
CPE 50/4100 T MCE30/C IE2	3 x 400 V ~	2 poles	2916	3,91	4,00	5,5	8,4

MODEL	A	B	B1	B2	C	D1	D2	D3	D4	H	H1	L	L1	L2	M	DNA	DNM	PACKING DIMENSIONS			VOLUME (m ³)	WEIGHT kg
																		L/A	L/B	H		
CPE 50/2600 M MCE15/C IE2	262	233	120	113	100	102	125	165	4X18	663	105	425	225	200	12	50	50	500	270	810	0,11	49
CPE 50/2600 T MCE 30/C IE2	262	233	120	113	100	102	125	165	4X18	663	105	425	225	200	12	50	50	500	270	810	0,11	49
CPE 50/4100 T MCE30/C IE2	353	233	120	113	100	102	125	165	4X18	737	105	425	225	200	12	50	50	500	270	810	0,11	62

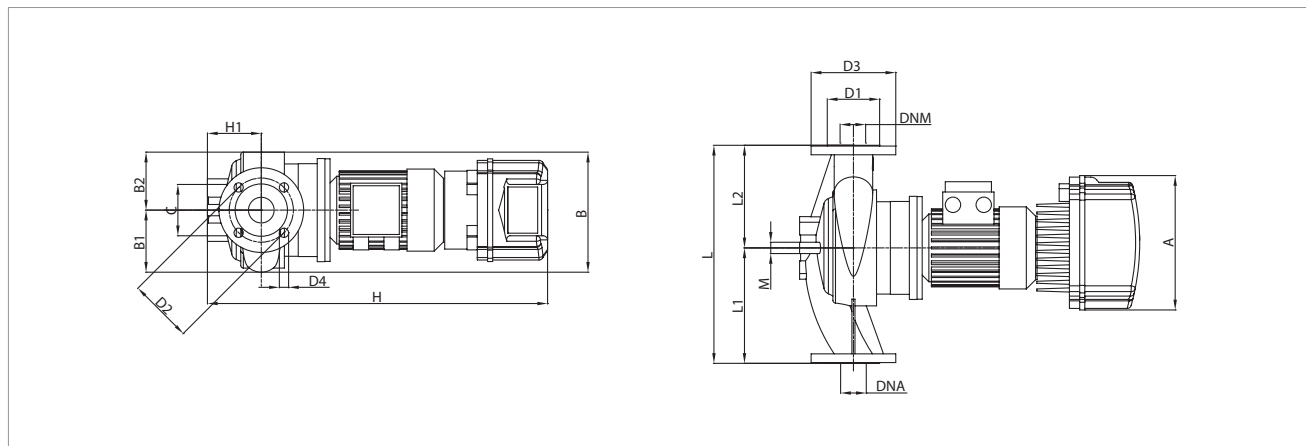
CPE 50 2 POLES - ELECTRONIC IN-LINE PUMPS FOR HEATING, AIR CONDITIONING, REFRIGERATION, SOLAR, AND SANITARY SYSTEMS - SINGLE, FLANGED, WITH MCE/C INVERTER

Pumped liquid temperature range: from -10 °C to +130°C - Maximum ambient temperature: +40°C



The MEI values for inverter controlled pumps refer to similar versions without electronics

The performance curves are based on kinematic viscosity values = 1 mm²/s and density equal to 1000 kg/m³. Curve tolerance according to ISO 9906.

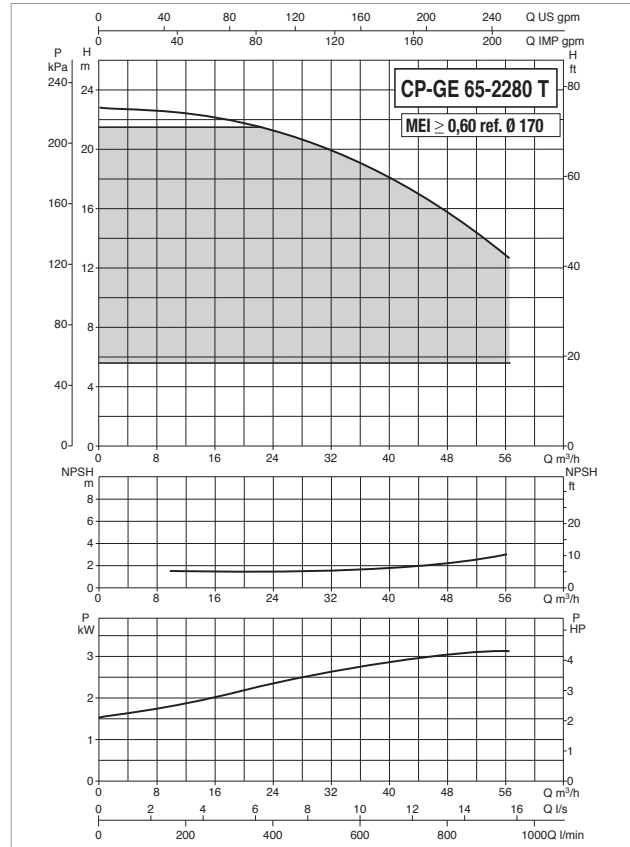
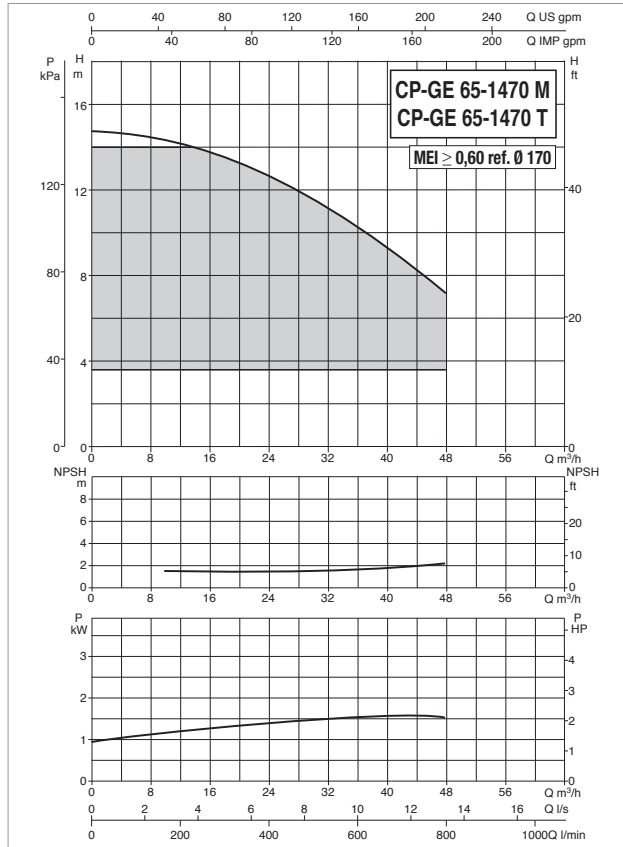


MODEL	ELECTRICAL DATA						
	POWER INPUT 50-60 Hz	MOTOR TYPE	n r.p.m.	P1 MAX W	P2 NOMINAL		In A
					kW	HP	
CPE 50/4600 T MCE55/C IE2	3 x 400 V ~	2 poles	2900	6,90	5,50	7,5	14,2
CPE 50/5650 T MCE110/C IE2	3 x 400 V ~	2 poles	2900	9,64	7,50	10,0	19,9

MODEL	A	B	B1	B2	C	D1	D2	D3	D4	H	H1	L	L1	L2	M	DNA	DNM	PACKING DIMENSIONS			VOLUME (m ³)	WEIGHT kg
																		L/A	L/B	H		
CPE 50/4600 T MCE55/C IE2	353	290	159	131	-	102	125	165	4X18	745	105	400	220	180	-	50	50	650	400	945	0,25	64
CPE 50/5650 T MCE110/C IE2	426	341	170,5	170,5	-	102	125	165	4X18	745	105	400	220	180	-	50	50	650	400	945	0,25	72

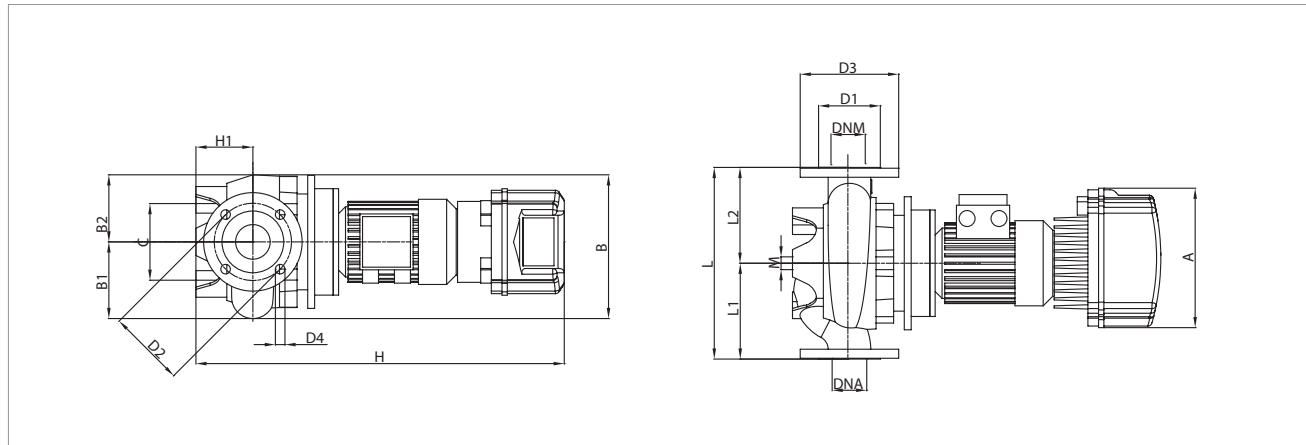
CP-GE 65 2 POLES - , ELECTRONIC IN-LINE PUMPS FOR HEATING, AIR CONDITIONING, REFRIGERATION, SOLAR, AND SANITARY SYSTEMS - SINGLE, FLANGED, WITH MCE/C INVERTER

Pumped liquid temperature range: from -10 °C to +140°C - Maximum ambient temperature: +40°C



The MEI values for inverter controlled pumps refer to similar versions without electronics

The performance curves are based on kinematic viscosity values = 1 mm²/s and density equal to 1000 kg/m³. Curve tolerance according to ISO 9906.

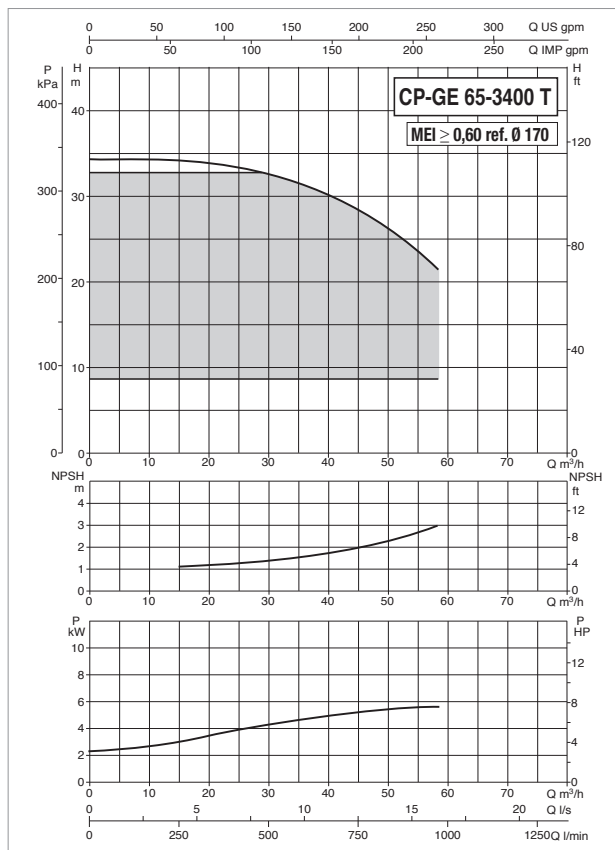
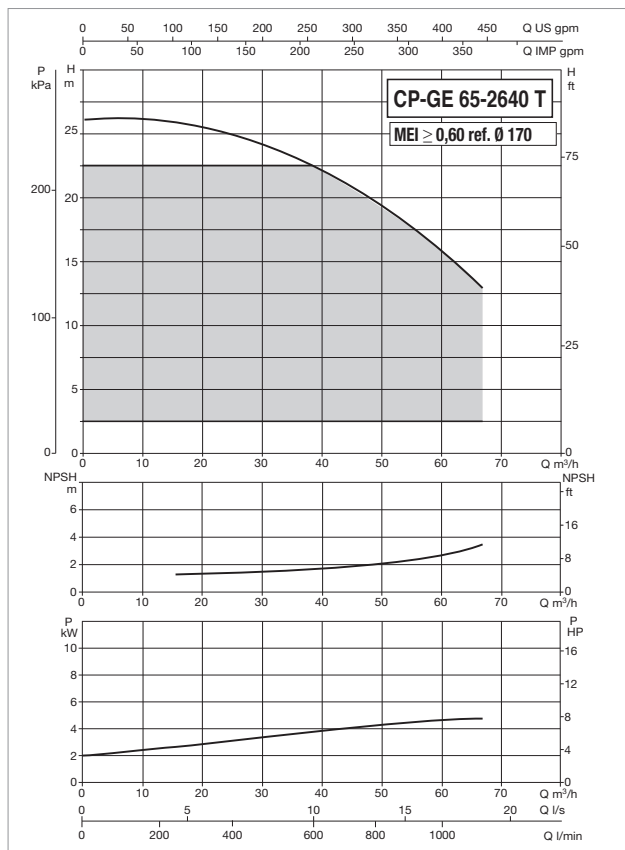


MODEL	ELECTRICAL DATA						
	POWER INPUT 50-60 Hz	MOTOR TYPE	n r.p.m.	P1 MAX W	P2 NOMINAL		In A
					kW	HP	
CP-GE 65-1470/A/BAQE/ 1.5 M MCE11/C IE2	1 x 220-240 V ~	2 poles	2883	1,96	1,5	2,0	14,5
CP-GE 65-1470/A/BAQE/ 1.5 T MCE30/C IE2	3 x 400 V ~	2 poles	2883	1,96	1,5	2,0	t.b.d.
CP-GE 65-2280/A/BAQE/ 3 T MCE30/C IE2	3 x 400 V ~	2 poles	2882	3,55	3	4,0	7,2

MODEL	A	B	B1	B2	C	D1	D2	D3	D4	H	H1	L	L1	L2	M	DNA	DNM	PACKING DIMENSIONS			VOL. (m³)	WEIGHT kg
																		L/A	L/B	H		
CP-GE 65-1470/A/BAQE/ 1.5 M MCE11/C IE2	262	270	144	126	144	122	145	185	4X18	725	105	360	180	180	16	65	65	650	400	945	0,25	67
CP-GE 65-1470/A/BAQE/ 1.5 T MCE30/C IE2	262	270	144	126	144	122	145	185	4X18	725	105	360	180	180	16	65	65	650	400	945	0,25	67
CP-GE 65-2280/A/BAQE/ 3 T MCE30/C IE2	353	270	144	126	144	122	145	185	4X18	808	105	360	180	180	16	65	65	650	400	945	0,25	88

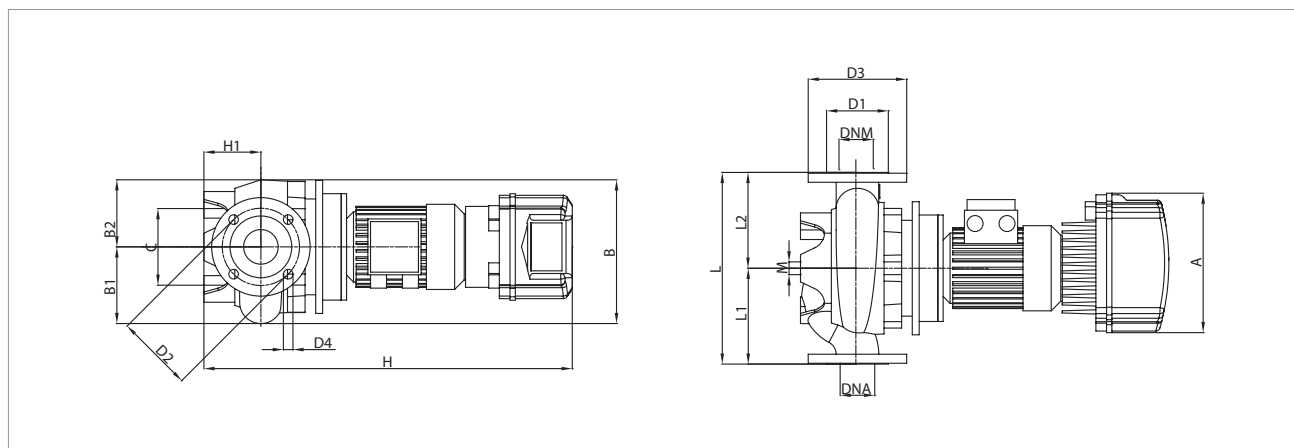
CP-GE 65 2 POLES - , ELECTRONIC IN-LINE PUMPS FOR HEATING, AIR CONDITIONING, REFRIGERATION, SOLAR, AND SANITARY SYSTEMS - SINGLE, FLANGED, WITH MCE/C INVERTER

Pumped liquid temperature range: from -10 °C to +140°C - Maximum ambient temperature: +40°C



The MEI values for inverter controlled pumps refer to similar versions without electronics

The performance curves are based on kinematic viscosity values = 1 mm²/s and density equal to 1000 kg/m³. Curve tolerance according to ISO 9906.



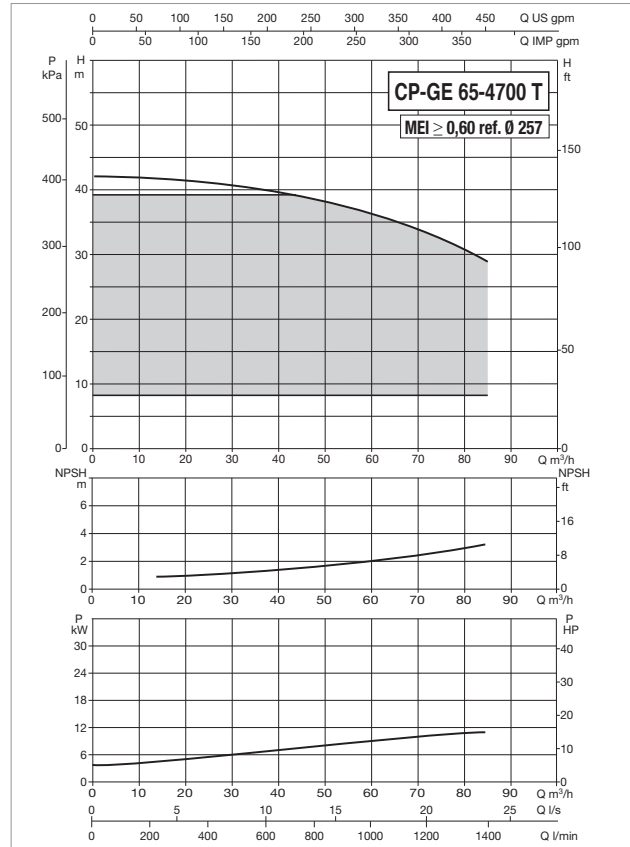
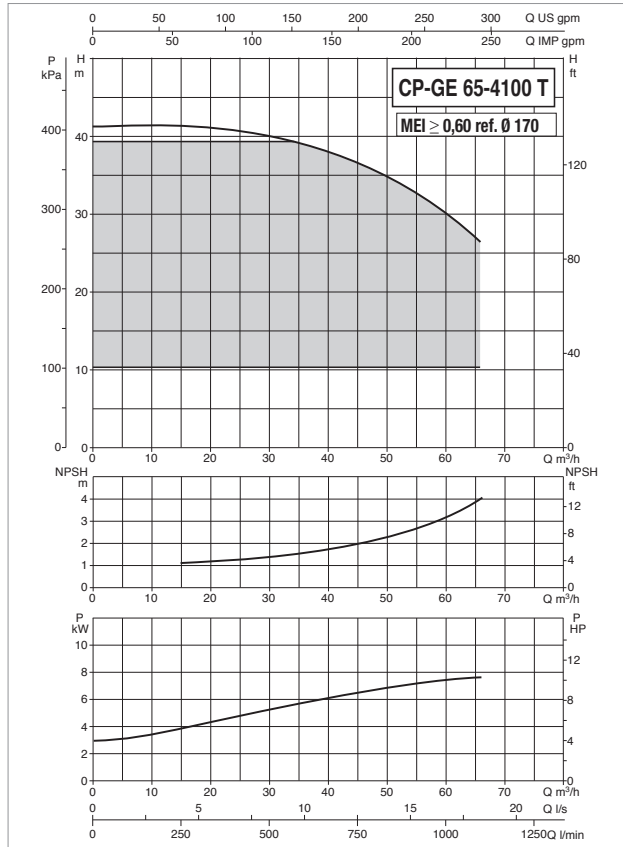
MODEL	ELECTRICAL DATA						
	POWER INPUT 50-60 Hz	MOTOR TYPE	n r.p.m.	P1 MAX W	P2 NOMINAL		In A
					kW	HP	
CP-GE 65-2640/A/BAQE/ 4 T MCE55/C IE2 *	3 x 400 V ~	2 poles	2910	4,92	4	5,5	10,0
CP-GE 65-3400/A/BAQE/ 5.5 T MCE55/C IE2	3 x 400 V ~	2 poles	2913	6,94	5,5	7,7	13,7

* ΔP-v proportional differential pressure adjustment mode also available.

MODEL	A	B	B1	B2	C	D1	D2	D3	D4	H	H1	L	L1	L2	M	DNA	DNM	PACKING DIMENSIONS			VOL. (m ³)	WEIGHT kg
																		L/A	L/B	H		
CP-GE 65-2640/A/BAQE/ 4 T MCE55/C IE2	353	270	144	126	144	122	145	185	4X18	808	105	360	180	180	16	65	65	650	400	945	0,25	95
CP-GE 65-3400/A/BAQE/ 5.5 T MCE55/C IE2	353	270	144	126	144	122	145	185	4X18	936	105	360	180	180	16	65	65	650	400	945	0,25	128

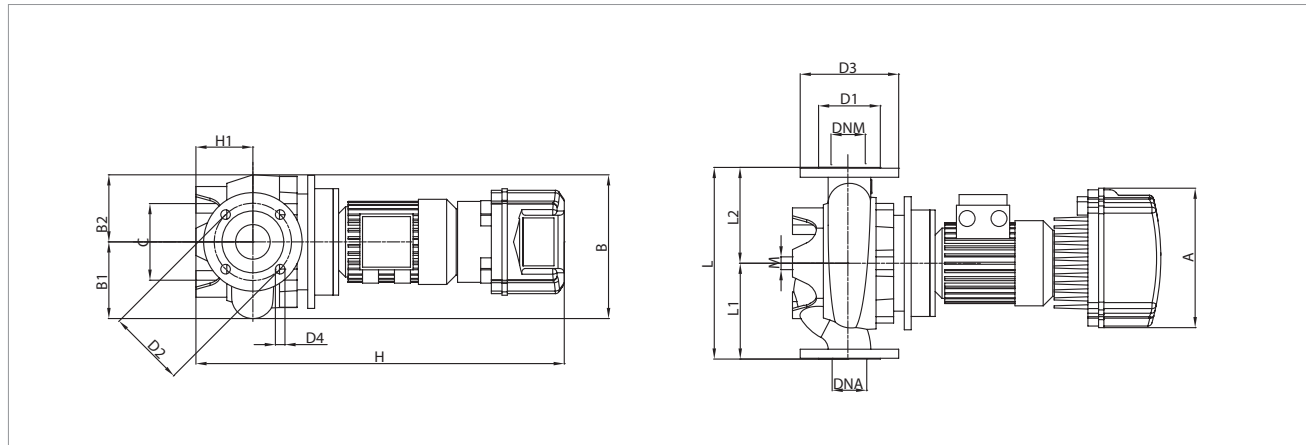
CP-GE 65 2 POLES - ELECTRONIC IN-LINE PUMPS FOR HEATING, AIR CONDITIONING, REFRIGERATION, SOLAR, AND SANITARY SYSTEMS - SINGLE, FLANGED, WITH MCE/C INVERTER

Pumped liquid temperature range: from -10 °C to +140°C - Maximum ambient temperature: +40°C



The MEI values for inverter controlled pumps refer to similar versions without electronics

The performance curves are based on kinematic viscosity values = 1 mm²/s and density equal to 1000 kg/m³. Curve tolerance according to ISO 9906.



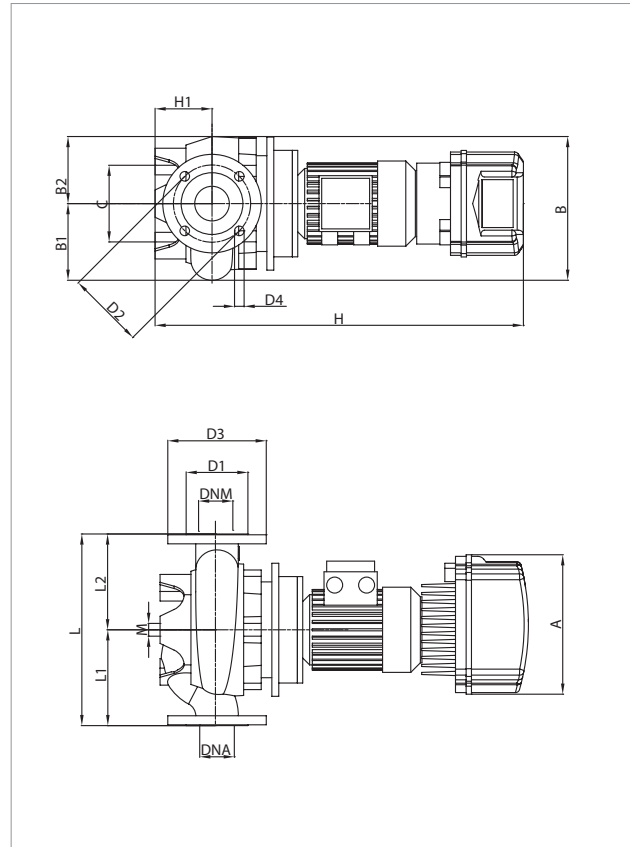
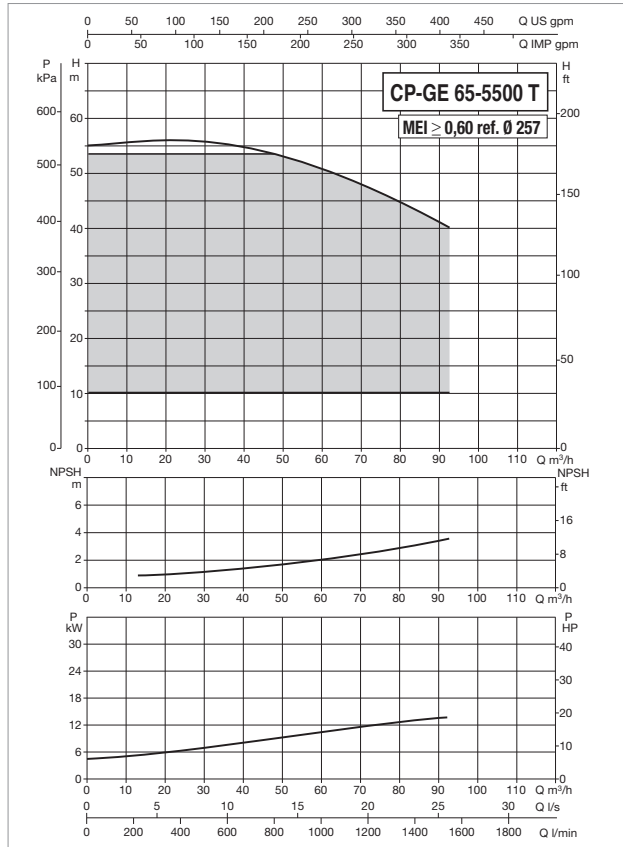
MODEL	ELECTRICAL DATA						
	POWER INPUT 50-60 Hz	MOTOR TYPE	n r.p.m.	P1 MAX W	P2 NOMINAL		In A
					kW	HP	
CP-GE 65-4100/A/BAQE/ 7.5 T MCE110/C IE2 *	3 x 400 V ~	2 poles	2900	9,07	7,5	10,0	17,8
CP-GE 65-4700/A/BAQE/ 11 T MCE110/C IE2	3 x 400 V ~	2 poles	2940	14,75	11	15,0	28,6

* ΔP-v proportional differential pressure adjustment mode also available.

MODEL	A	B	B1	B2	C	D1	D2	D3	D4	H	H1	L	L1	L2	M	DNA	DNM	PACKING DIMENSIONS			VOL. (m ³)	WEIGHT kg
																		L/A	L/B	H		
CP-GE 65-4100/A/BAQE/ 7.5 T MCE110/C IE2	426	341	144	126	144	122	145	185	4X18	1024	105	360	180	180	16	65	65	650	400	945	0,25	131
CP-GE 65-4700/A/BAQE/ 11 T MCE110/C IE2	426	341	180	164	144	122	145	185	4X18	1099	125	475	237,5	237,5	16	65	65	650	400	945	0,25	209

CP-GE 65 2 POLES - ELECTRONIC IN-LINE PUMPS FOR HEATING, AIR CONDITIONING, REFRIGERATION, SOLAR, AND SANITARY SYSTEMS - SINGLE, FLANGED, WITH MCE/C INVERTER

Pumped liquid temperature range: from -10 °C to +140°C - Maximum ambient temperature: +40°C



The MEI values for inverter controlled pumps refer to similar versions without electronics

The performance curves are based on kinematic viscosity values = 1 mm²/s and density equal to 1000 kg/m³. Curve tolerance according to ISO 9906.

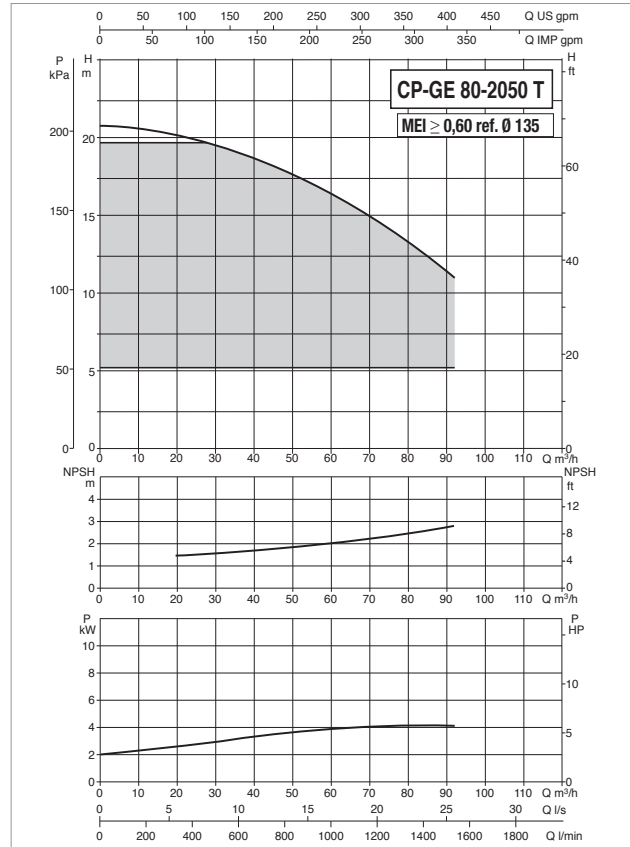
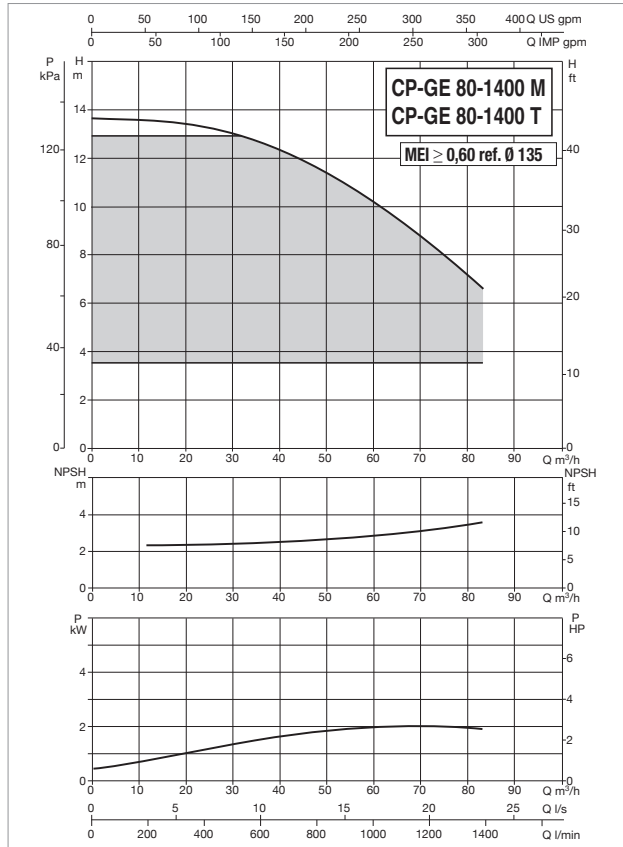
MODEL	ELECTRICAL DATA						
	POWER INPUT 50-60 Hz	MOTOR TYPE	n r.p.m.	P1 MAX W	P2 NOMINAL		In A
					kW	HP	
CP-GE 65-5500/A/BAQE/ 15 T MCE150/C IE2 *	3 x 400 V ~	2 poles	2943	18,07	15	20,0	35,1

* ΔP-v proportional differential pressure adjustment mode also available.

MODEL	A	B	B1	B2	C	D1	D2	D3	D4	H	H1	L	L1	L2	M	DNA	DNM	PACKING DIMENSIONS			VOL. (m ³)	WEIGHT kg
																		L/A	L/B	H		
CP-GE 65-5500/A/BAQE/ 15 T MCE150/C IE2	426	341	180	164	144	122	145	185	4X18	1099	125	475	237,5	237,5	16	65	65	700	600	970	0,41	227

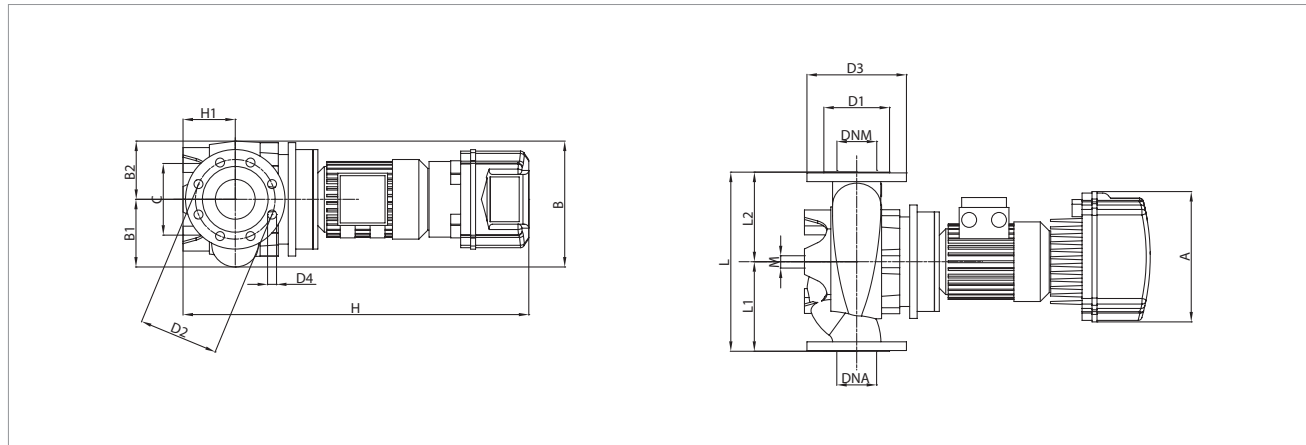
CP-GE 80 2 POLES - , ELECTRONIC IN-LINE PUMPS FOR HEATING, AIR CONDITIONING, REFRIGERATION, SOLAR, AND SANITARY SYSTEMS - SINGLE, FLANGED, WITH MCE/C INVERTER

Pumped liquid temperature range: from -10 °C to +140°C - Maximum ambient temperature: +40°C



The MEI values for inverter controlled pumps refer to similar versions without electronics

The performance curves are based on kinematic viscosity values = 1 mm²/s and density equal to 1000 kg/m³. Curve tolerance according to ISO 9906.

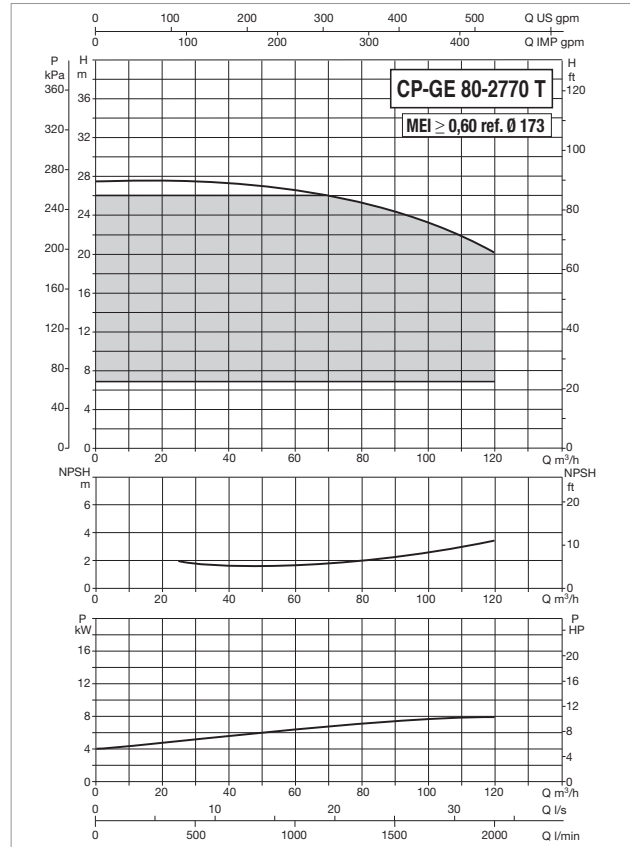
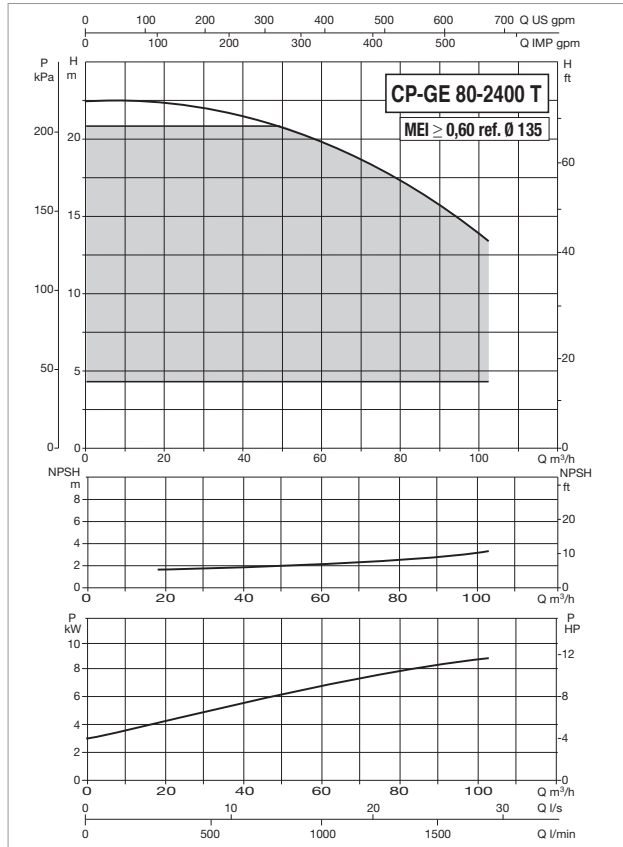


MODEL	ELECTRICAL DATA						
	POWER INPUT 50-60 Hz	MOTOR TYPE	n r.p.m.	P1 MAX W	P2 NOMINAL		In A
					kW	HP	
CP-GE 80-1400/A/BAQE/ 2.2 M MCE22/C IE2	1 x 220-240 V ~	2 poles	2874	2,94	2,2	3,0	20,7
CP-GE 80-1400/A/BAQE/ 2.2 T MCE30/C IE2	3 x 400 V ~	2 poles	2874	2,94	2,2	3,0	t.b.d.
CP-GE 80-2050/A/BAQE/ 4 T MCE55/C IE2	3 x 400 V ~	2 poles	2914	5,46	4	5,5	10,9

MODEL	A	B	B1	B2	C	D1	D2	D3	D4	H	H1	L	L1	L2	M	DNA	DNM	PACKING DIMENSIONS			VOL. (m ³)	WEIGHT kg
																		L/A	L/B	H		
CP-GE 80-1400/A/BAQE/ 2.2 M MCE22/C IE2	262	252	135	117	144	138	160	200	8X18	753	105	360	180	180	16	80	80	650	400	945	0,25	86
CP-GE 80-1400/A/BAQE/ 2.2 T MCE30/C IE2	262	252	135	117	144	138	160	200	8X18	753	105	360	180	180	16	80	80	650	400	945	0,25	86
CP-GE 80-2050/A/BAQE/ 4 T MCE55/C IE2	353	267	135	117	144	138	160	200	8X18	765	105	360	180	180	16	80	80	650	400	945	0,25	99

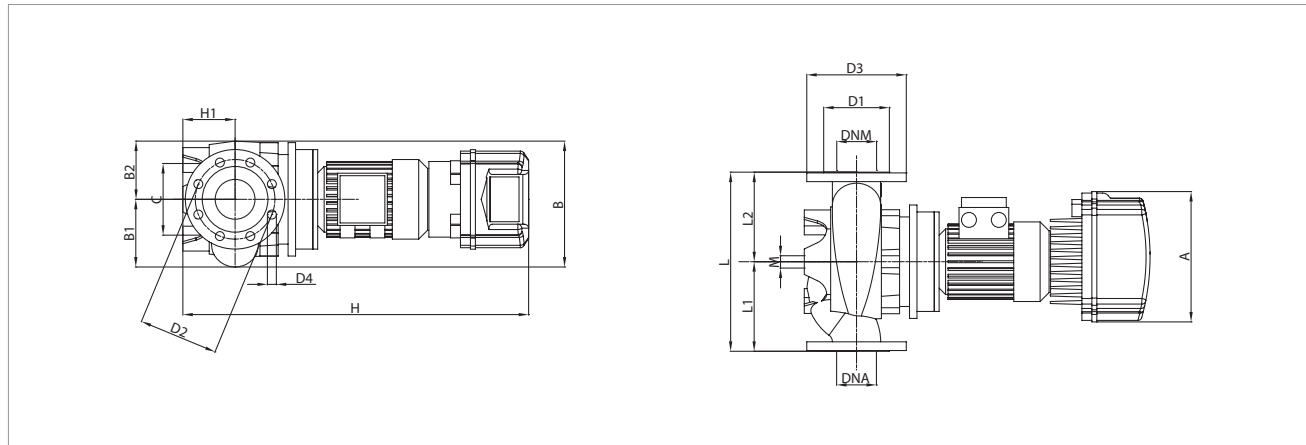
CP-GE 80 2 POLES - ELECTRONIC IN-LINE PUMPS FOR HEATING, AIR CONDITIONING, REFRIGERATION, SOLAR, AND SANITARY SYSTEMS - SINGLE, FLANGED, WITH MCE/C INVERTER

Pumped liquid temperature range: from -10 °C to +140°C - Maximum ambient temperature: +40°C



The MEI values for inverter controlled pumps refer to similar versions without electronics

The performance curves are based on kinematic viscosity values = 1 mm²/s and density equal to 1000 kg/m³. Curve tolerance according to ISO 9906.



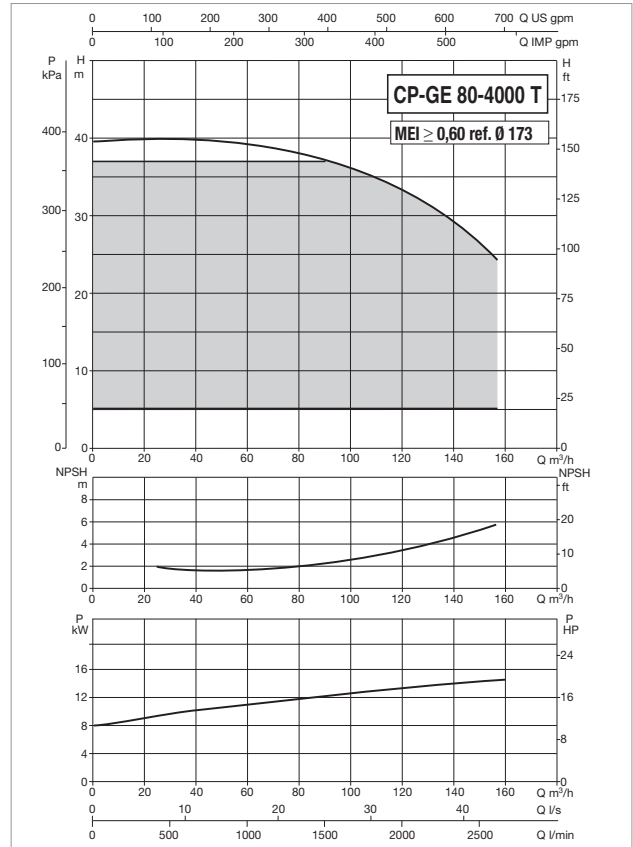
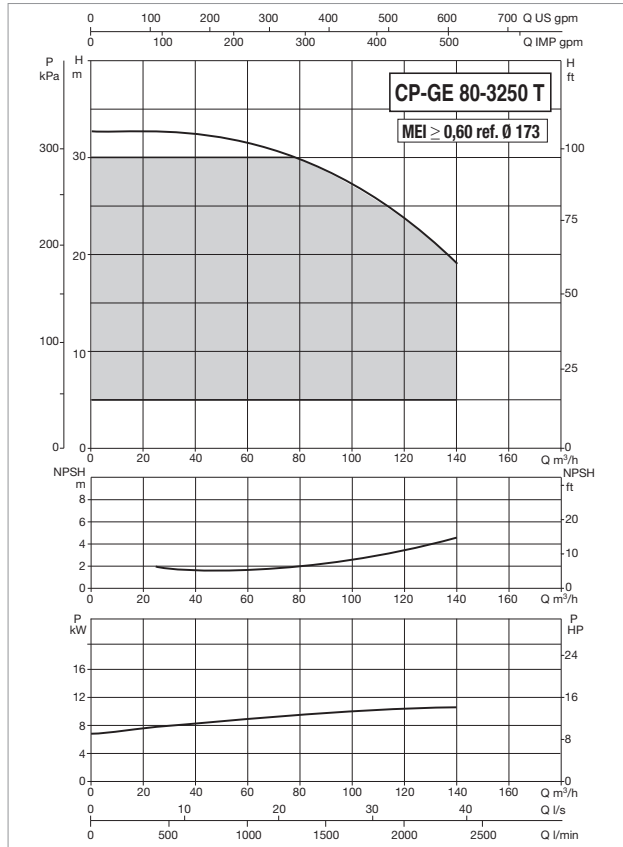
MODEL	ELECTRICAL DATA						
	POWER INPUT 50-60 Hz	MOTOR TYPE	n r.p.m.	P1 MAX W	P2 NOMINAL		In A
					kW	HP	
CP-GE 80-2400/A/BAQE/ 5.5 T MCE55/C IE2 *	3 x 400 V ~	2 poles	2910	6,69	5,5	7,5	13,3
CP-GE 80-2770/A/BAQE/ 7.5 T MCE110/C IE2 *	3 x 400 V ~	2 poles	2905	9,61	7,5	10,0	18,8

* ΔP-v proportional differential pressure adjustment mode also available.

MODEL	A	B	B1	B2	C	D1	D2	D3	D4	H	H1	L	L1	L2	M	DNA	DNM	PACKING DIMENSIONS			VOL. (m ³)	WEIGHT kg
																		L/A	L/B	H		
CP-GE 80-2400/A/BAQE/ 5.5 T MCE55/C IE2	353	267	135	117	144	138	160	200	8X18	873	105	360	180	180	16	80	80	650	400	945	0,25	133
CP-GE 80-2770/A/BAQE/ 7.5 T MCE110/C IE2	426	341	178	146	144	138	160	200	8X18	1038	115	440	220	220	16	80	80	650	400	945	0,25	88

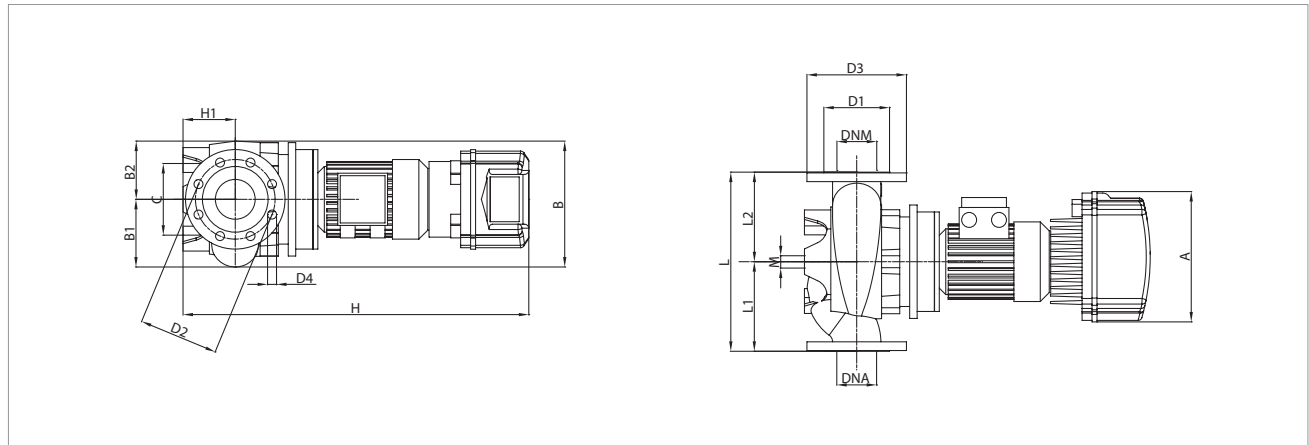
CP-GE 80 2 POLES - ELECTRONIC IN-LINE PUMPS FOR HEATING, AIR CONDITIONING, REFRIGERATION, SOLAR AND SANITARY SYSTEMS - SINGLE, FLANGED, WITH MCE/C INVERTER

Pumped liquid temperature range: from -10 °C to +140°C - Maximum ambient temperature: +40°C



The MEI values for inverter controlled pumps refer to similar versions without electronics

The performance curves are based on kinematic viscosity values = 1 mm²/s and density equal to 1000 kg/m³. Curve tolerance according to ISO 9906.

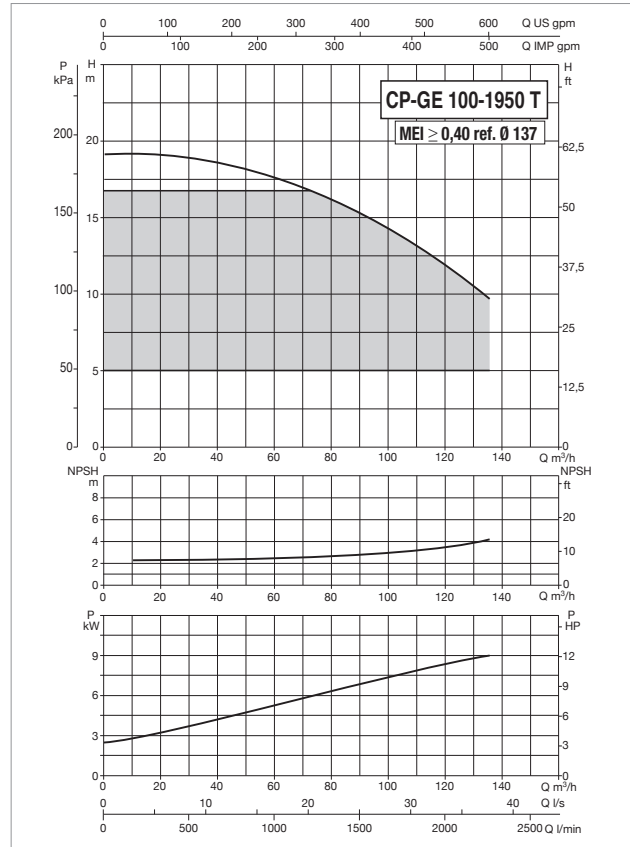
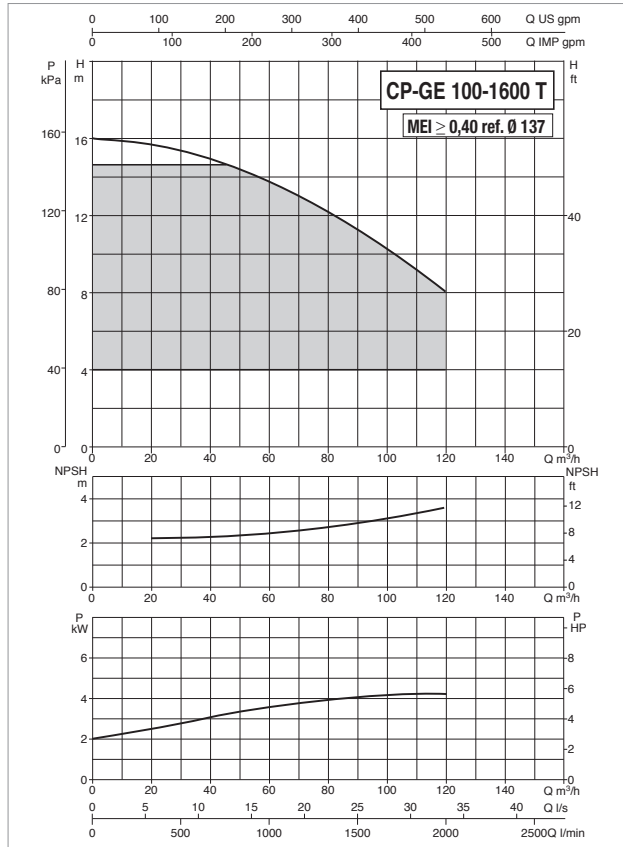


MODEL	ELECTRICAL DATA						
	POWER INPUT 50-60 Hz	MOTOR TYPE	n r.p.m.	P1 MAX W	P2 NOMINAL		In A
					kW	HP	
CP-GE 80-3250/A/BAQE/ 11 T MCE110/C IE2	3 x 400 V ~	2 poles	2932	13,39	11	15,0	26,0
CP-GE 80-4000/A/BAQE/ 15 T MCE150/C IE2	3 x 400 V ~	2 poles	2945	18,42	15	20,0	35,7

MODEL	A	B	B1	B2	C	D1	D2	D3	D4	H	H1	L	L1	L2	M	DNA	DNM	PACKING DIMENSIONS			VOL. (m ³)	WEIGHT kg
																		L/A	L/B	H		
																		CP-GE 80-3250/A/BAQE/ 11 T MCE110/C IE2	426	341		
CP-GE 80-4000/A/BAQE/ 15 T MCE150/C IE2	426	341	178	146	144	138	160	200	8X18	1100	115	440	220	220	16	80	80	650	400	945	0,25	103

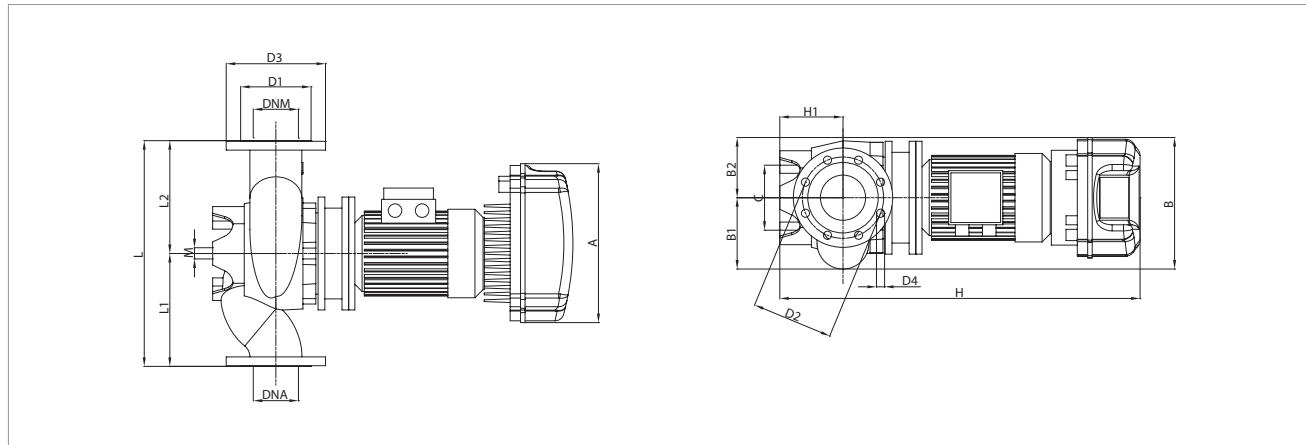
CP-GE 100 2 POLES - , ELECTRONIC IN-LINE PUMPS FOR HEATING, AIR CONDITIONING, REFRIGERATION, SOLAR, AND SANITARY SYSTEMS - SINGLE, FLANGED, WITH MCE/C INVERTER

Pumped liquid temperature range: from -10 °C to +140°C - Maximum ambient temperature: +40°C



The MEI values for inverter controlled pumps refer to similar versions without electronics

The performance curves are based on kinematic viscosity values = 1 mm²/s and density equal to 1000 kg/m³. Curve tolerance according to ISO 9906.

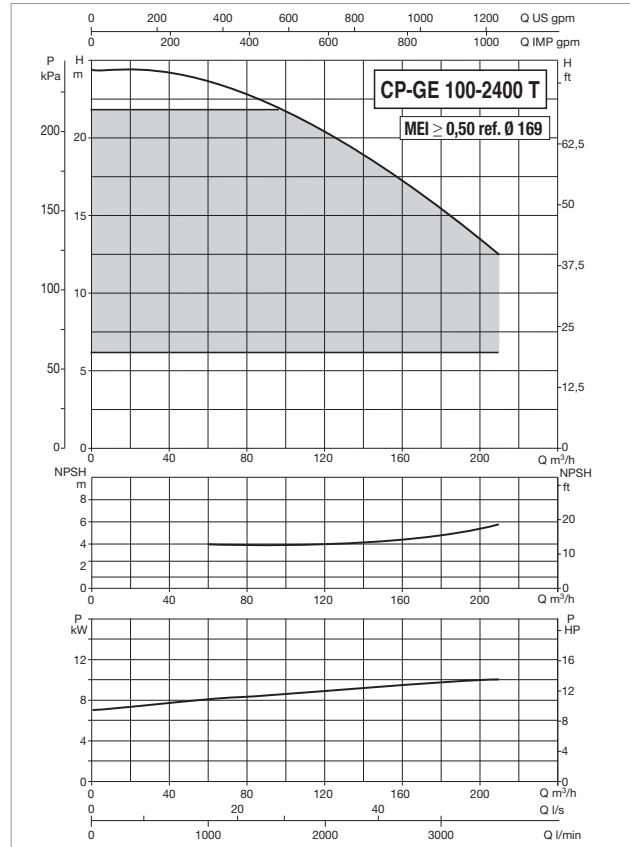
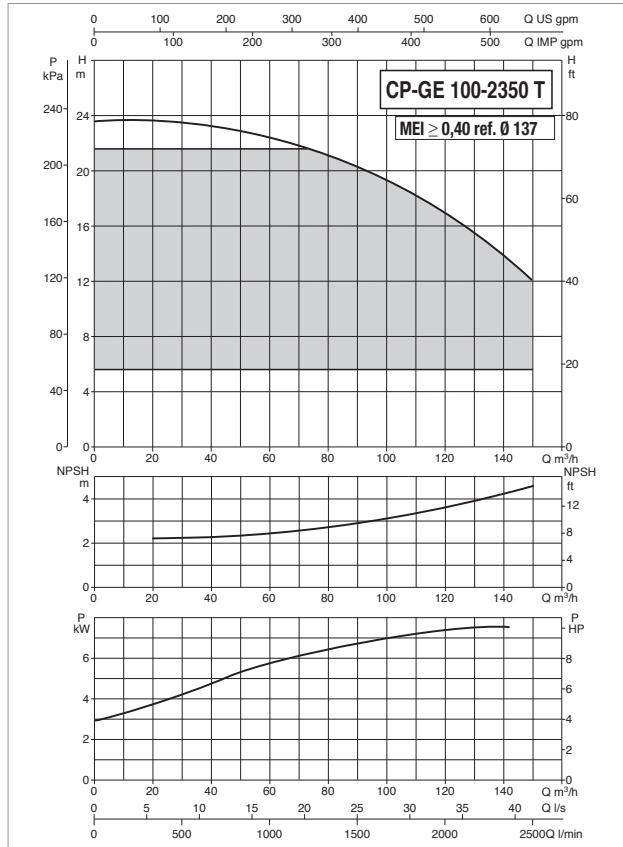


MODEL	ELECTRICAL DATA						
	POWER INPUT 50-60 Hz	MOTOR TYPE	n r.p.m.	P1 MAX W	P2 NOMINAL		In A
					kW	HP	
CP-GE 100-1600/A/BAQE/ 4 T MCE55/C IE2	3 x 400 V ~	2 poles	2918	5,58	4	5,5	11,2
CP-GE 100-1950/A/BAQE/ 5.5 T MCE55/C IE2	3 x 400 V ~	2 poles	2918	7,34	5,5	7,5	14,4

MODEL	A	B	B1	B2	C	D1	D2	D3	D4	H	H1	L	L1	L2	M	DNA	DNM	PACKING DIMENSIONS			VOL. (m ³)	WEIGHT kg
																		L/A	L/B	H		
																		CP-GE 100-1600/A/BAQE/ 4 T MCE55/C IE2	353	341		
CP-GE 100-1950/A/BAQE/ 5.5 T MCE55/C IE2	353	341	158	126	144	158	180	220	8x18	1026	140	500	250	250	16	100	100	650	400	945	0,25	92

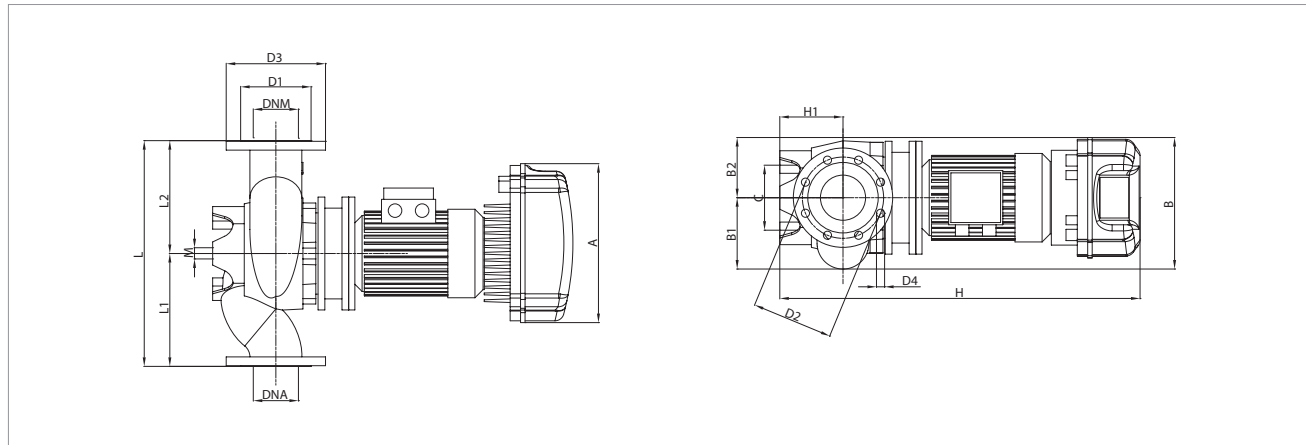
CP-GE 100 2 POLES - , ELECTRONIC IN-LINE PUMPS FOR HEATING, AIR CONDITIONING, REFRIGERATION, SOLAR, AND SANITARY SYSTEMS - SINGLE, FLANGED, WITH MCE/C INVERTER

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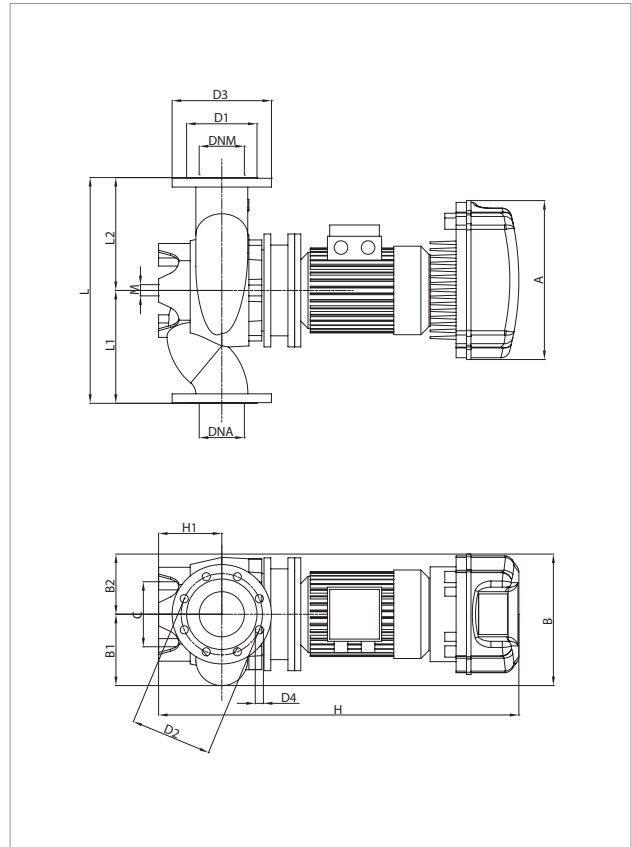
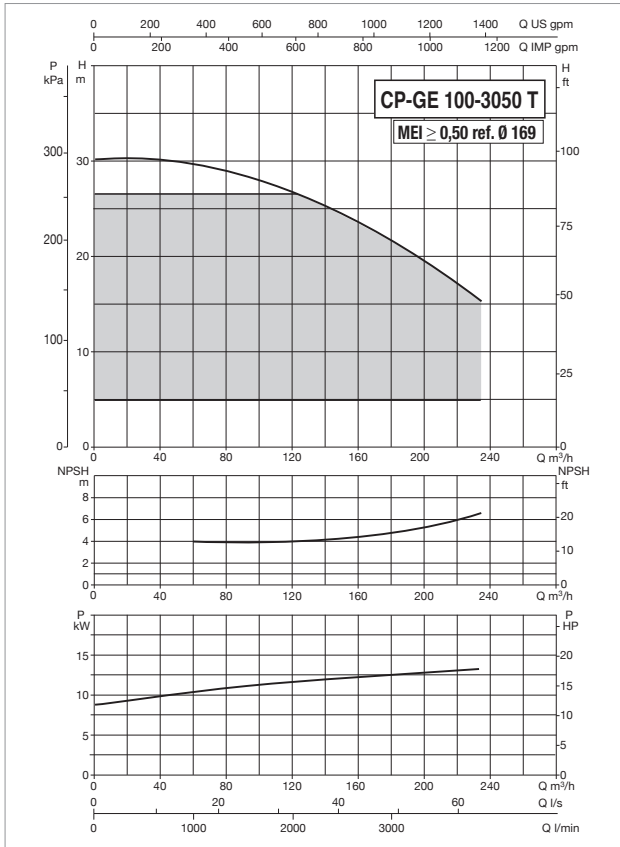
MODEL	ELECTRICAL DATA						
	POWER INPUT 50-60 Hz	MOTOR TYPE	n r.p.m.	P1 MAX W	P2 NOMINAL		In A
					kW	HP	
CP-GE 100-2350/A/BAQE/ 7.5 T MCE110/C IE2 *	3 x 400 V ~	2 poles	2906	9,69	7,5	10,0	18,9
CP-GE 100-2400/A/BAQE/ 11 T MCE110/C IE2	3 x 400 V ~	2 poles	2940	14,59	11	15,0	28,3

* ΔP-v proportional differential pressure adjustment mode also available.

MODEL	A	B	B1	B2	C	D1	D2	D3	D4	H	H1	L	L1	L2	M	DNA	DNM	PACKING DIMENSIONS			VOL. (m³)	WEIGHT kg
																		L/A	L/B	H		
CP-GE 100-2350/A/BAQE/ 7.5 T MCE110/C IE2	426	341	158	126	144	158	180	220	8x18	1064	140	500	250	250	16	100	100	700	600	970	0,41	110
CP-GE 100-2400/A/BAQE/ 11 T MCE110/C IE2	426	346	193	153	230	158	180	220	8x18	1092	140	550	275	275	16	100	100	700	600	970	0,41	120

CP-GE 100 2 POLES - , ELECTRONIC IN-LINE PUMPS FOR HEATING, AIR CONDITIONING, REFRIGERATION, SOLAR, AND SANITARY SYSTEMS - SINGLE, FLANGED, WITH MCE/C INVERTER

Pumped liquid temperature range: from -10 °C to +140°C - Maximum ambient temperature: +40°C



The MEI values for inverter controlled pumps refer to similar versions without electronics

The performance curves are based on kinematic viscosity values = 1 mm²/s and density equal to 1000 kg/m³. Curve tolerance according to ISO 9906.

MODEL	ELECTRICAL DATA						
	POWER INPUT 50-60 Hz	MOTOR TYPE	n r.p.m.	P1 MAX W	P2 NOMINAL		In A
					kW	HP	
CP-GE 100-3050/A/BAQE/ 15 T MCE150/C IE2 *	3 x 400 V ~	2 poles	2941	17,79	15	20,0	34,6

* ΔP-v proportional differential pressure adjustment mode also available.

MODEL	A	B	B1	B2	C	D1	D2	D3	D4	H	H1	L	L1	L2	M	DNA	DNM	PACKING DIMENSIONS			VOL. (m ³)	WEIGHT kg
																		L/A	L/B	H		
CP-GE 100-3050/A/BAQE/ 15 T MCE150/C IE2	426	346	193	153	230	158	180	220	8x18	1092	140	550	275	275	16	100	100	700	600	970	0,41	159