



Three speeds circulating pumps with flanges



Construction

Pump casing with suction and delivery connections with the same diameter and on the same axis (in-line).

Materials:

Pump casing	Cast iron
Impeller	Stainless steel
Shaft	Stainless steel

Applications

For clean liquids, without abrasives, which are non-aggressive for the pump materials (contents of solids up to 0.2%).

For heating, conditioning, cooling and circulation plants.

For civil and industrial applications.

When low noise operation is required.

Operating conditions

Liquid temperature from -10 °C to +120 °C (in short-time duty up to + 140 °C).

Ambient temperature up to 40 °C.

Maximum glycol quantity: 50% (Mixture with more than 20% glycol content require rechecking of the pumping data).

Maximum permissible working pressure 6/10 bar.

TYPE	Minimum suction pressure: bar		
	50 °C	80 °C	110 °C
NC 40	0,05	0,8	1,4
NC 50	0,3	1	1,6
NC 65	0,3	1	1,6
NC 80	0,3	1	1,6

Motor

2-4-pole induction motor, 50 Hz.
Three adjustable speeds.

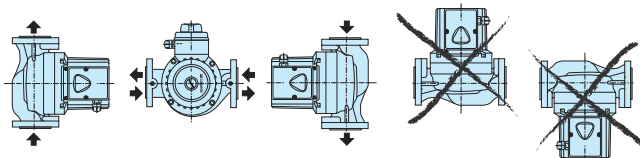
NC: three-phase 230V or 400 V.

NCM: single-phase 230 V.

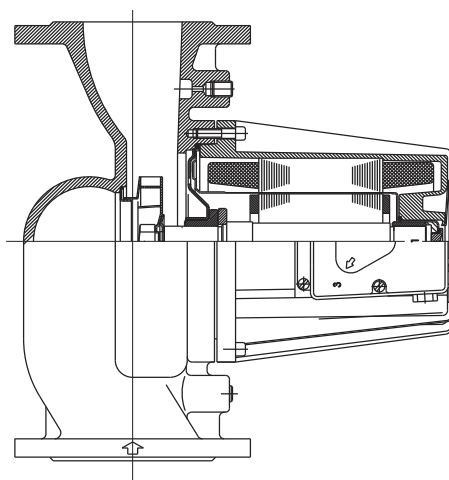
Insulation class H.

Protection IP 43.

Installation



Cross section drawings



Designation

NC (M) 4 40 - 60 / 250

Series _____

Single-phase motor _____

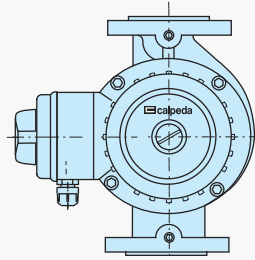
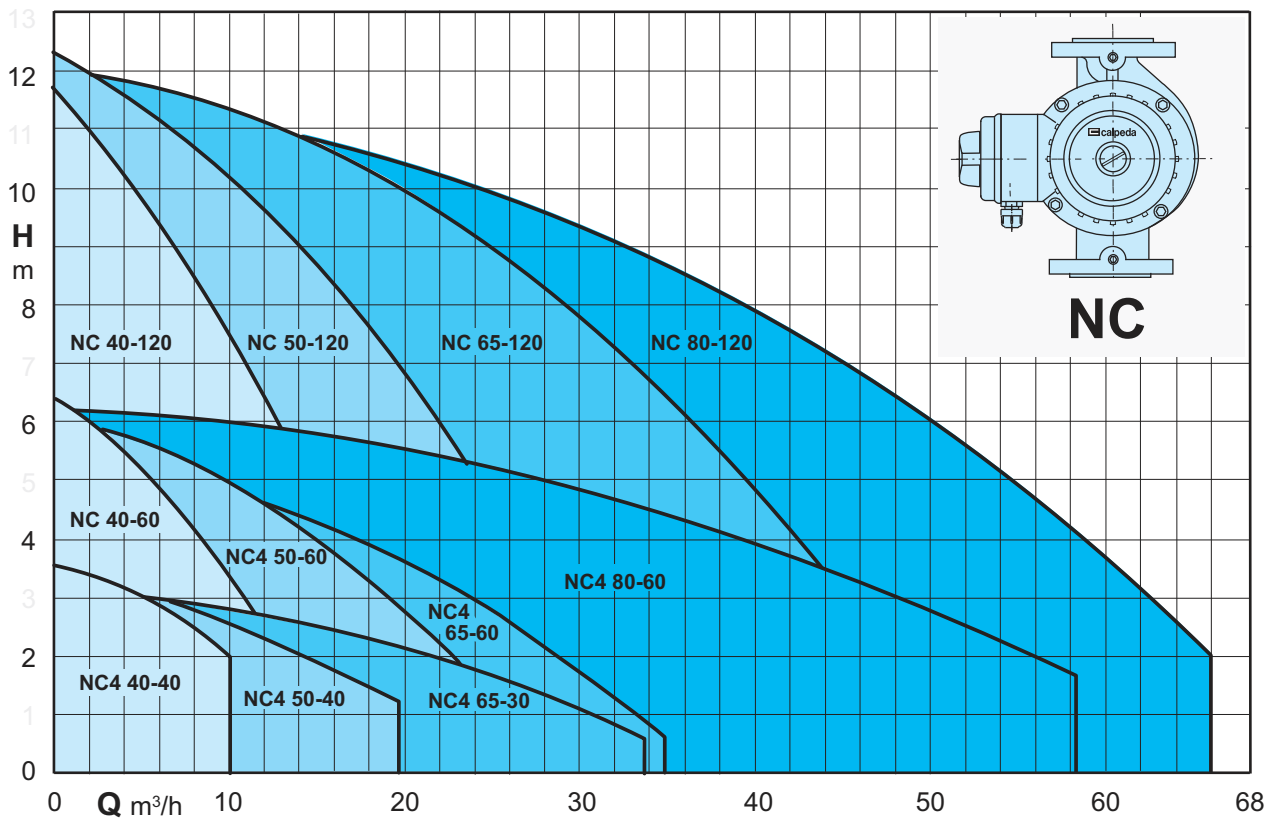
4-pole motor _____

DN ports in mm _____

Max. head in dm _____

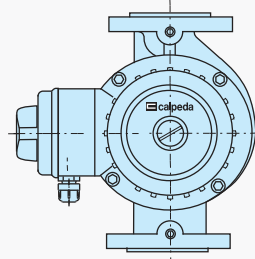
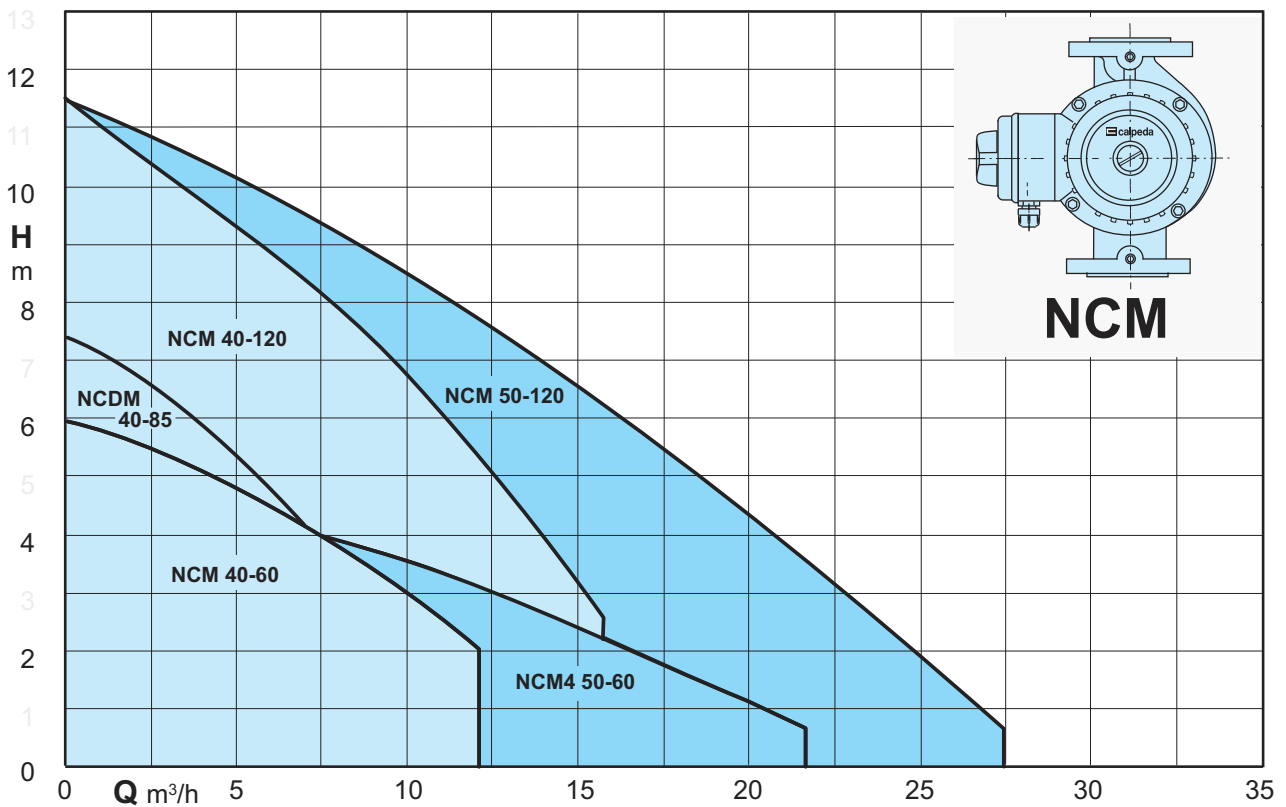
connection size mm _____

Coverage chart



NC

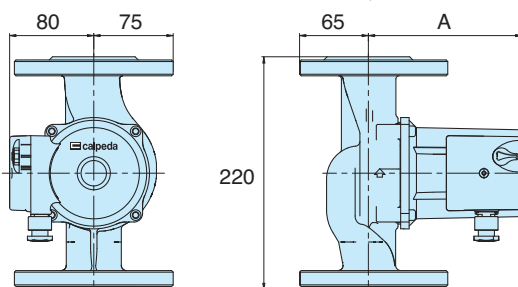
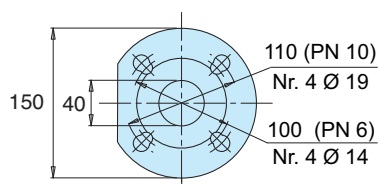
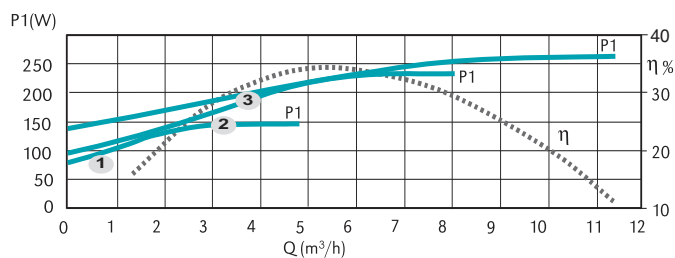
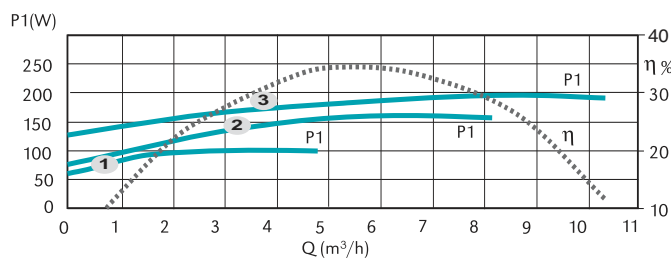
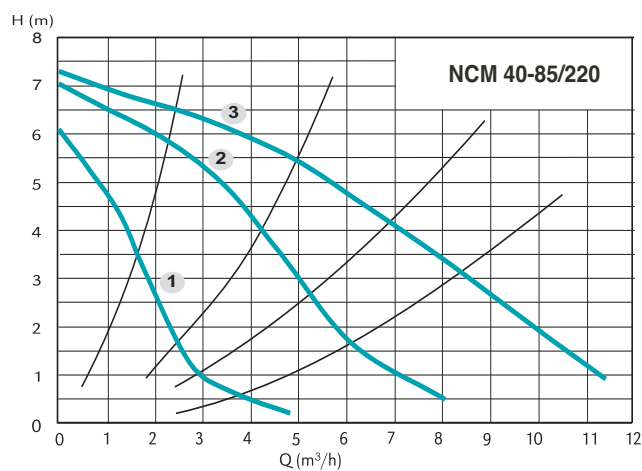
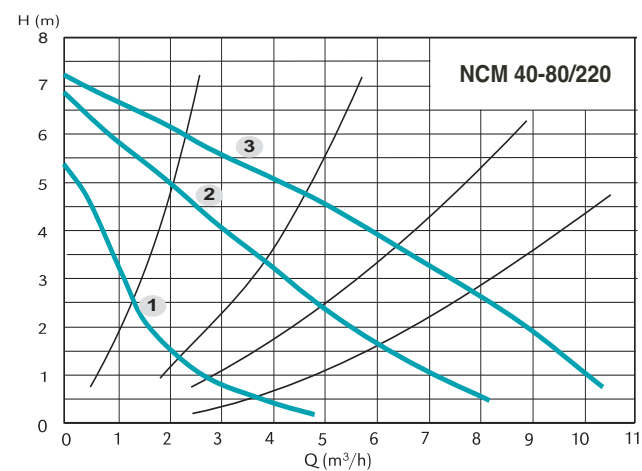
Tolerances according to ISO 9906, annex A.



NCM

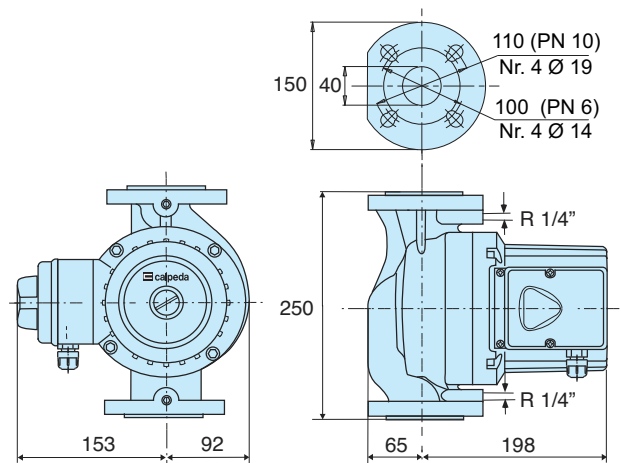
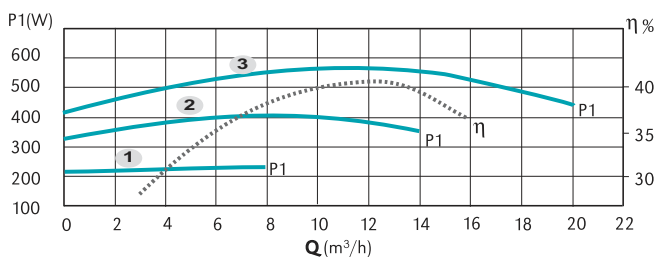
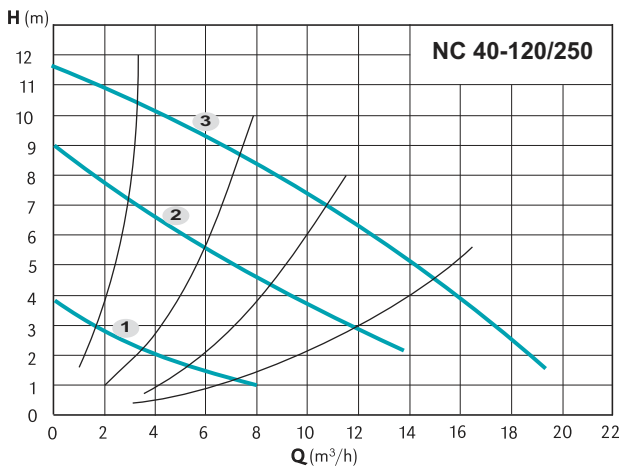
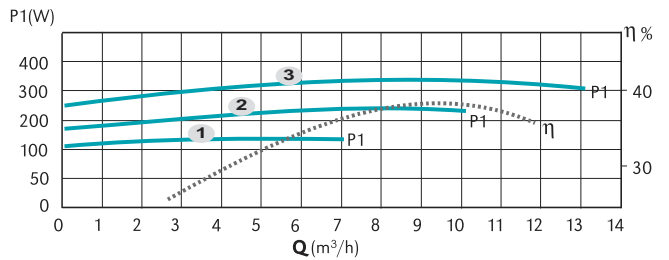
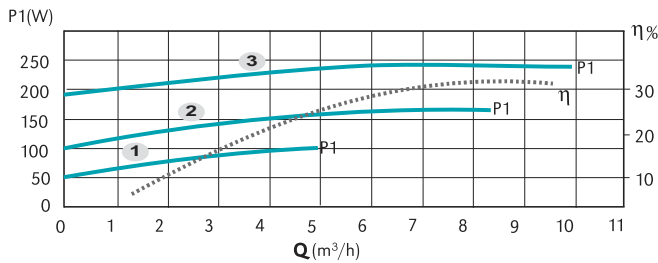
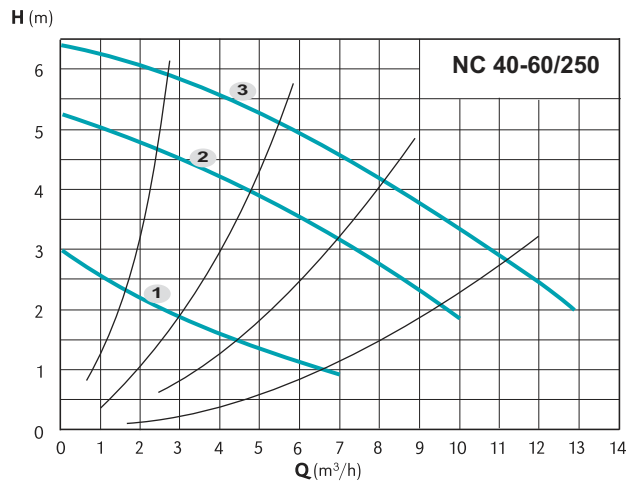
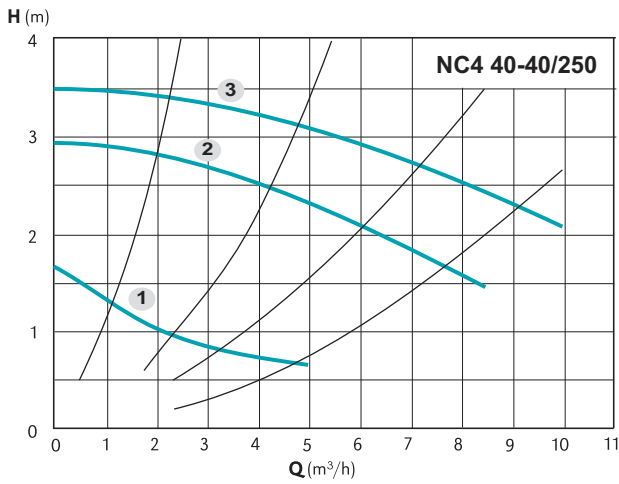
Tolerances according to ISO 9906, annex A.

Characteristic curves, dimensions and weights



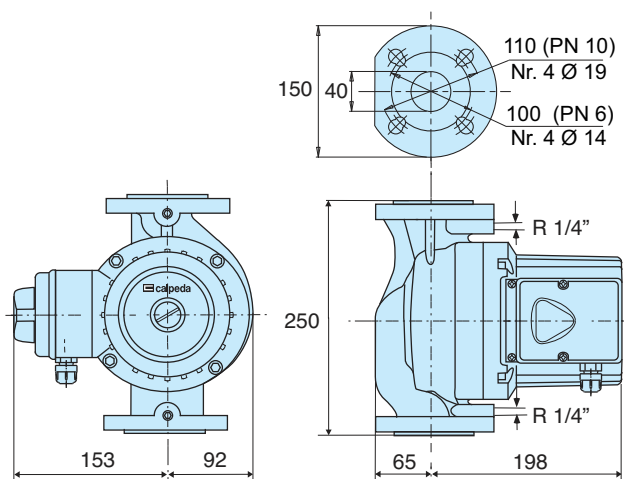
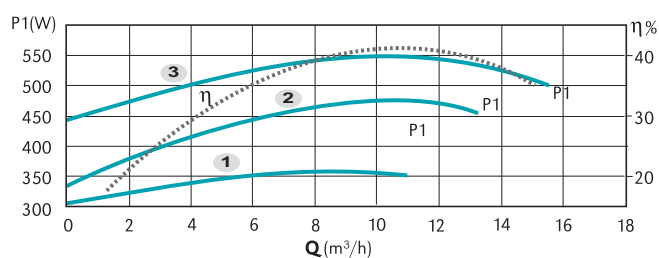
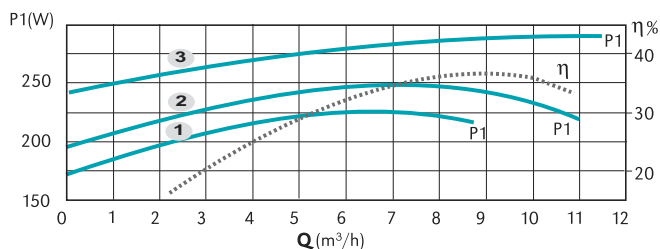
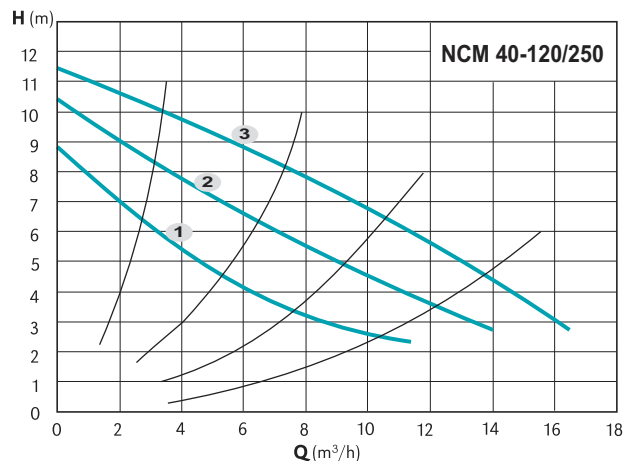
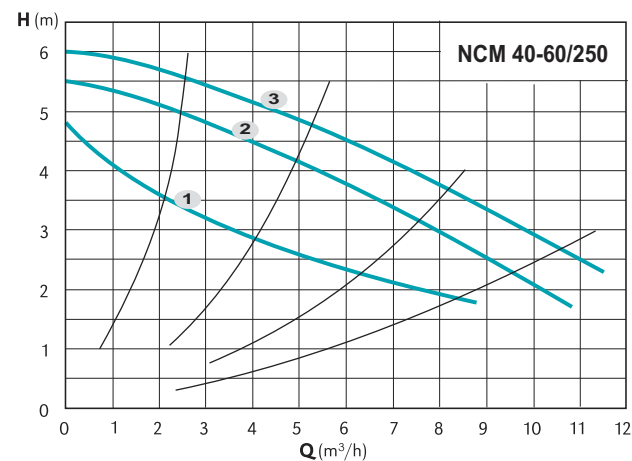
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	2	4	2	4					
NCM 40-80/220	40	6/10	✓		3	206	0,91	150	8,1
					2	185	0,88		
					1	120	0,60		
NCM 40-85/220	40	6/10	✓		3	277	1,20	175	8,8
					2	250	1,16		
					1	172	0,85		

Characteristic curves, dimensions and weights



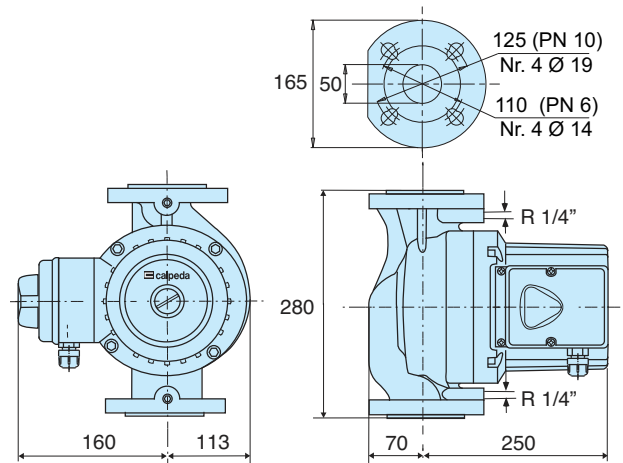
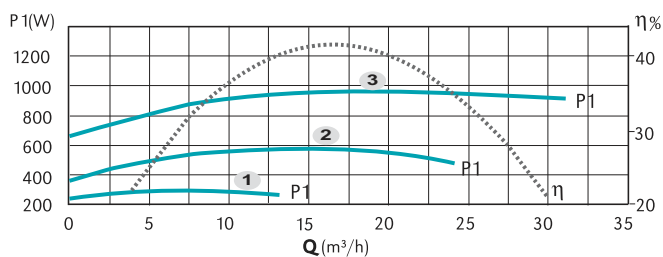
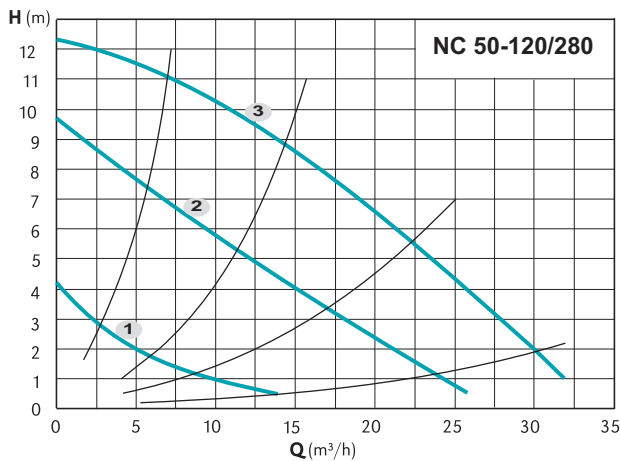
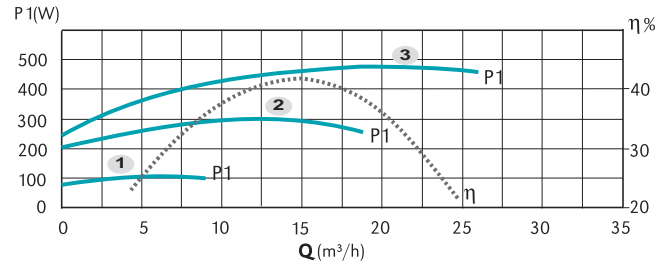
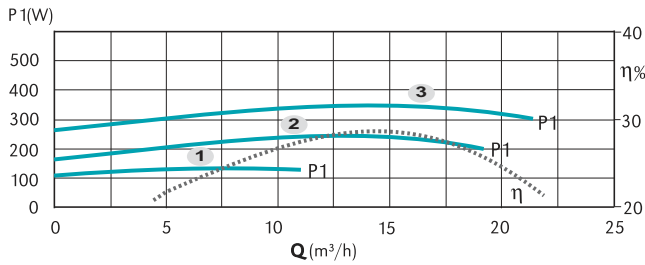
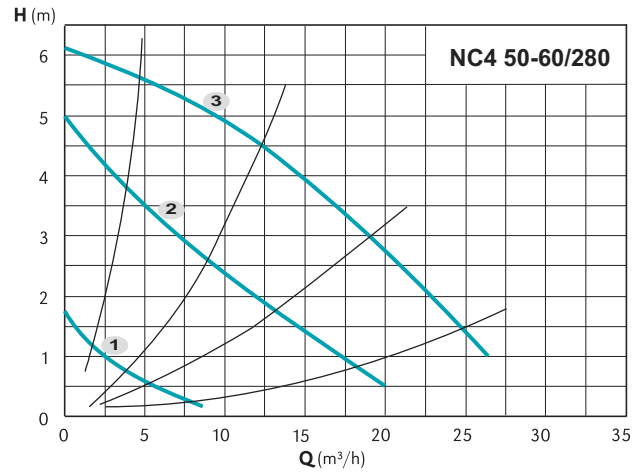
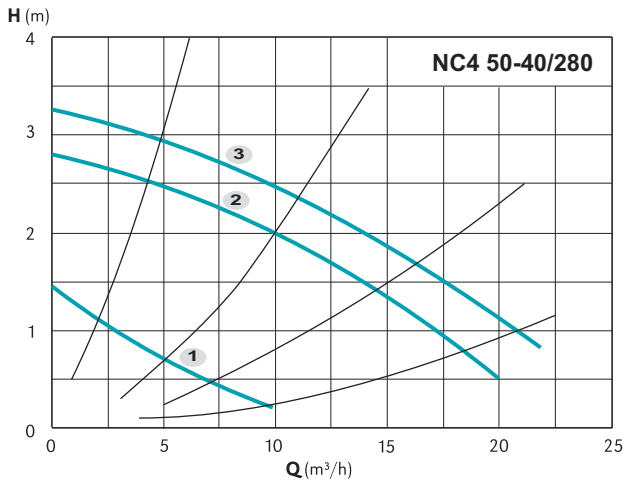
TYPE	DN	PN	N° Poli		1/min	P1 (W)	3x 400 V [A]	[kg]
			2	4				
NC4 40-40/250	40	6/10	✓		3	1440	240	0,76
					2	1200	160	0,24
					1	660	100	0,11
NC 40-60/250	40	6/10	✓		3	2790	320	0,74
					2	2240	240	0,36
					1	1440	140	0,18
NC 40-120/250	40	6/10	✓		3	2820	560	1,16
					2	2200	400	0,64
					1	1250	220	0,26

Characteristic curves, dimensions and weights



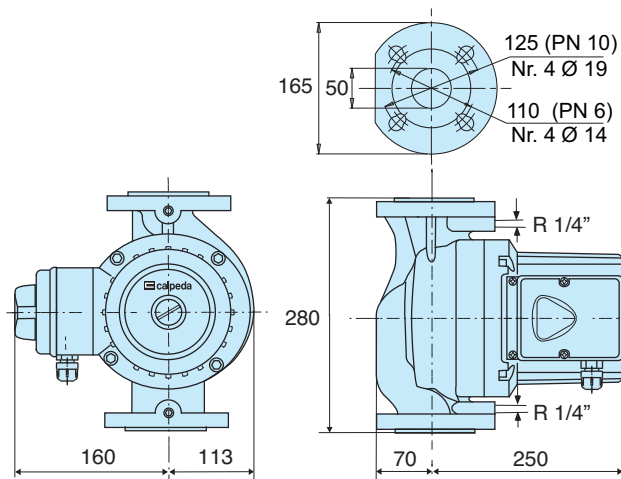
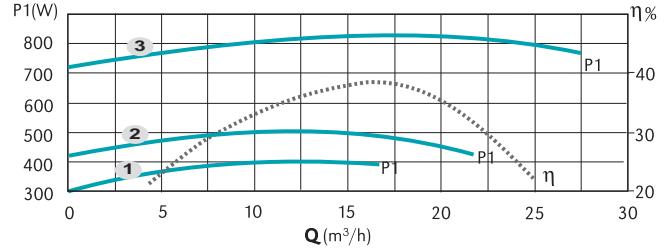
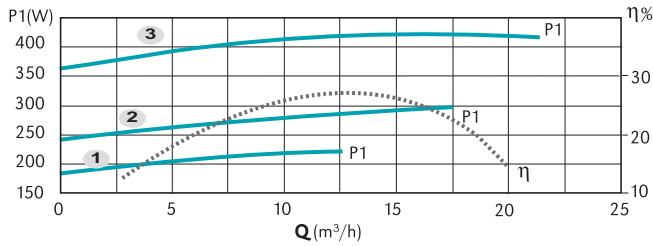
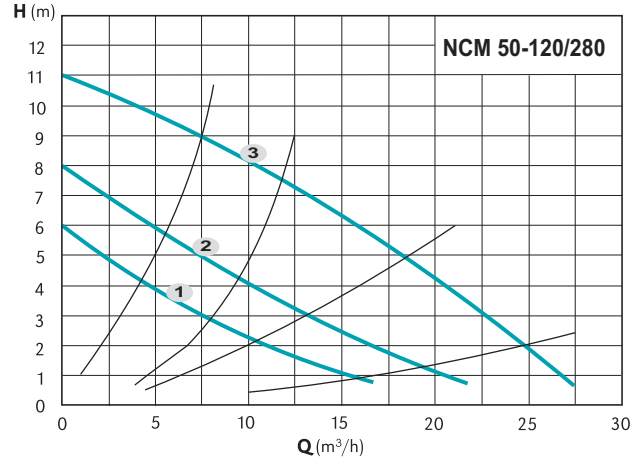
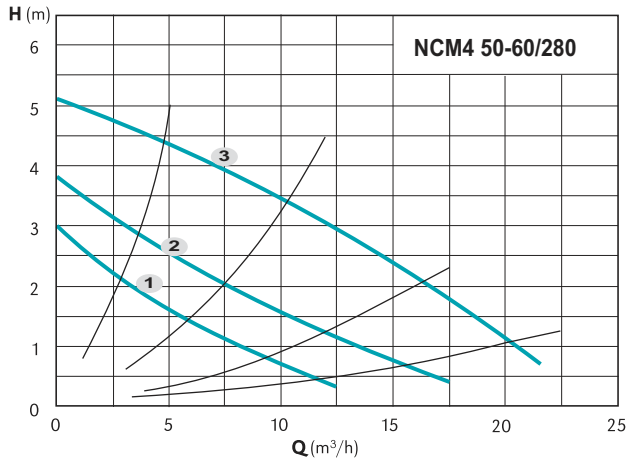
TYPE	DN PN		N° Poli 2 4	Pos.	1/min	P1 (W)	1x 230 V [A]	[kg]
	DN	PN						
NCM 40-60/250	40	6/10	✓	3	2690	285	1,20	17,5
				2	2360	245	1,18	
				1	1820	225	1,15	
NCM 40-120/250	40	6/10	✓	3	2750	550	2,35	19,0
				2	2100	475	2,30	
				1	1270	355	1,85	

Characteristic curves, dimensions and weights



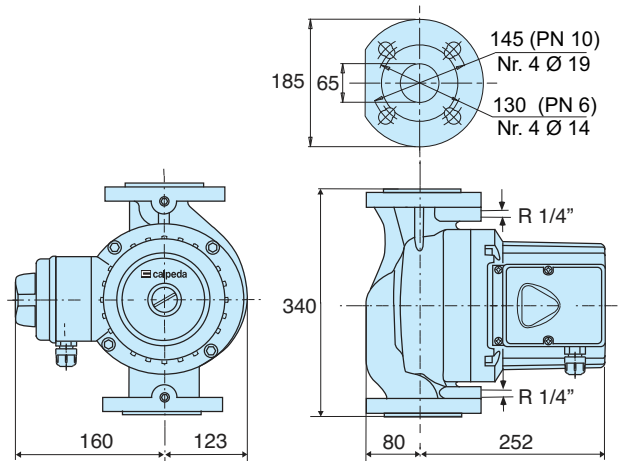
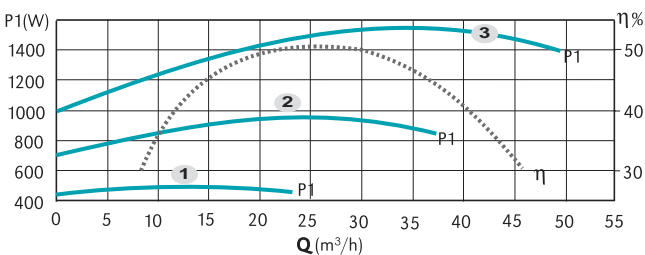
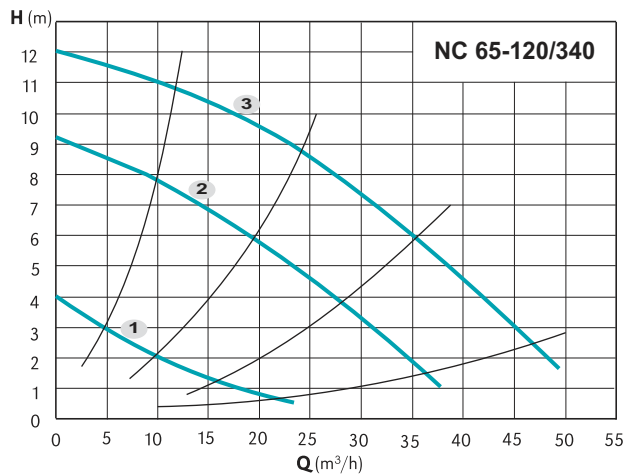
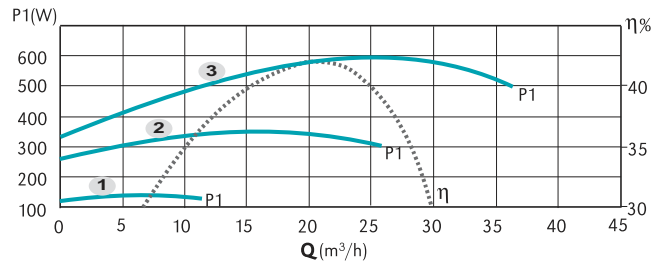
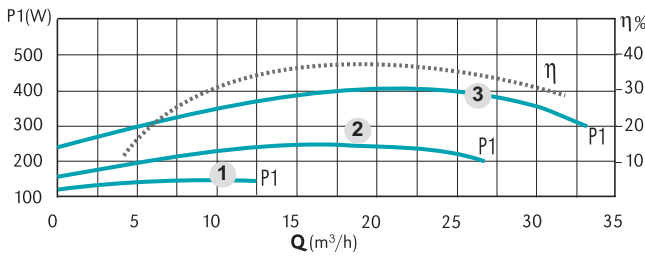
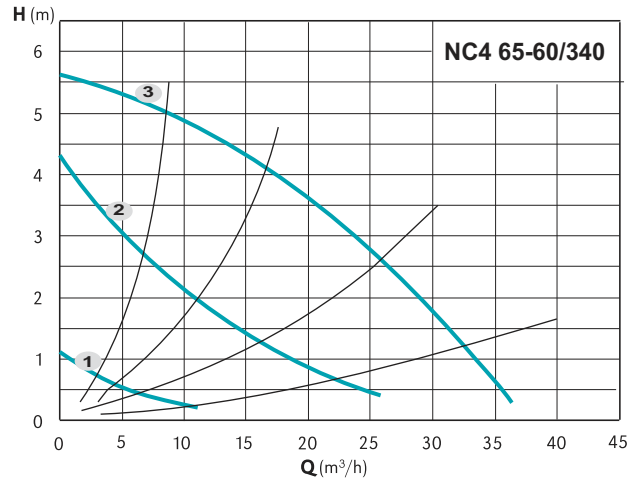
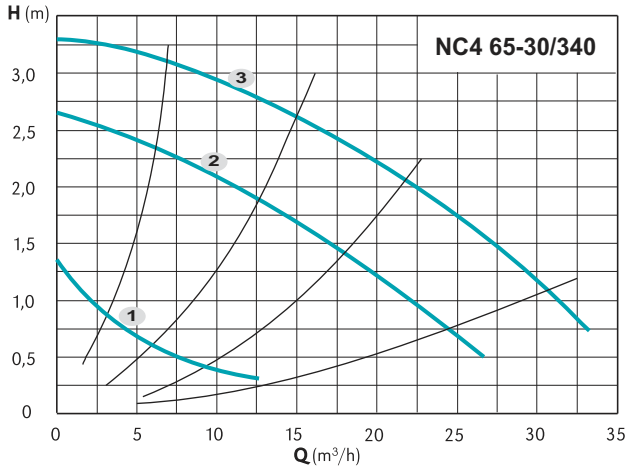
TYPE	DN	PN	N° Poli		Pos.	1/min	P1 (W)	3x 400 V [A]	[kg]
			2	4					
NC4 50-40/280	50	6/10	✓		3	1450	340	1,05	24,0
						620	120	0,22	
NC4 50-60/280	50	6/10	✓		3	1400	470	1,15	24,0
						1000	300	0,55	
NC 50-120/280	50	6/10	✓		3	2800	950	1,73	24,0
						2330	540	1,05	
					1	1270	265	0,46	

Characteristic curves, dimensions and weights



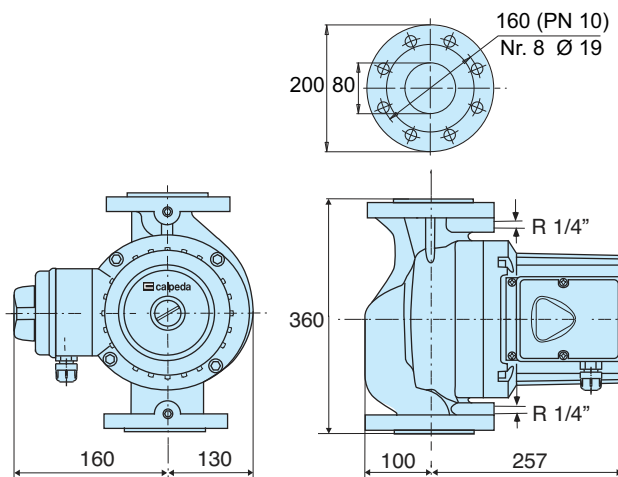
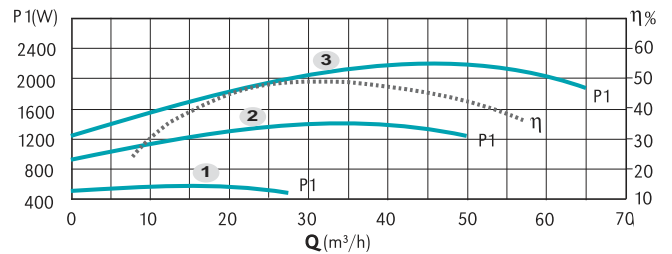
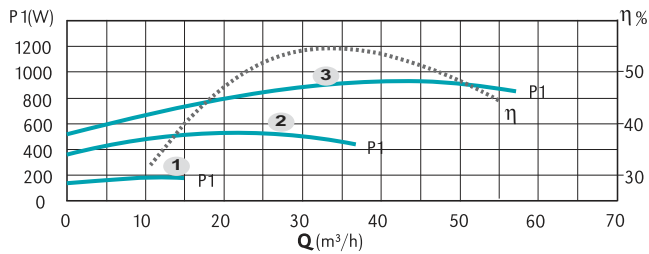
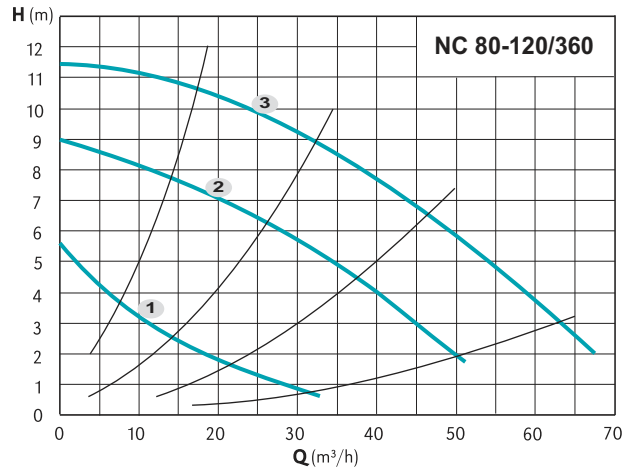
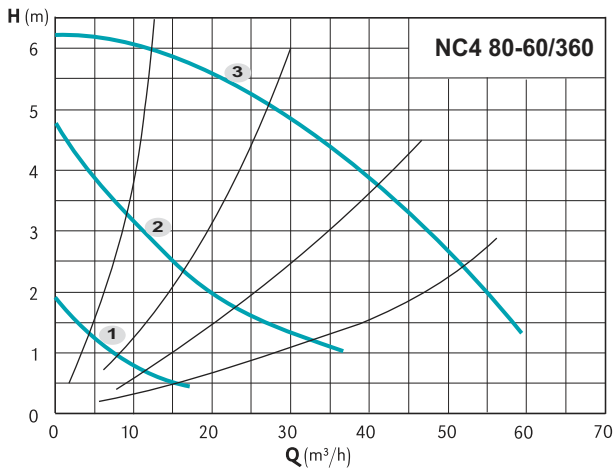
TYPE	DN PN		N° Poli		Pos.	1/min	P1 (W)	1x 230 V [A]	[kg]
	2	4	2	4					
NCM4 50-60/280	50	6/10	✓	3	1260	415	1,8	24,5	
				2	1030	300	1,3		
				1	740	230	1,0		
NCM 50-120/280	50	6/10	✓	3	2720	830	3,6	24,5	
				2	1870	480	2,1		
				1	1450	390	1,7		

Characteristic curves, dimensions and weights



TYPE	DN PN		N° Poli 2 4	Pos.	1/min	P1 (W)	3x 400 V [A]	[kg]
	DN	PN						
NC4 65-30/340	65	6/10	✓	3	1430	400	1,10	29,0
				2	1150	260	0,50	
				1	600	120	0,22	
NC4 65-60/340	65	6/10	✓	3	1370	600	1,25	29,0
				2	950	360	0,64	
				1	450	120	0,22	
NC 65-120/340	65	6/10	✓	3	2810	1560	2,80	31,0
				2	2200	960	1,70	
				1	1250	460	0,84	

Characteristic curves, dimensions and weights



TYPE	DN	PN	N° Poli		Pos.	1/min	P1 (W)	3x 400 V [A]	[kg]
			2	4					
NC4 80-60/360	80	10	✓		3	1350	960	2,20	33,5
					2	1000	560	1,10	
					1	600	200	0,38	
NC 80-120/360	80	10	✓		3	2800	2200	3,80	34,5
					2	2160	1400	2,40	
					1	1200	550	1,05	