



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

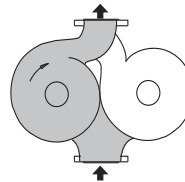
Liquid temperature from -10 °C to +120 °C (in short-time duty up to + 140 °C).
 Ambient temperature up to 40 °C.
 Maximum glycol quantity: 50% (Mixture with more than 20% glycol content require rechecking of the pumping data).
 Maximum permissible working pressure 6/10 bar.

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

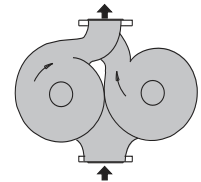
Motor

2-4-pole induction motor, 50 Hz.
 Three adjustable speeds.
NCD: three-phase 230V or 400 V.
NCDM: single-phase 230 V.
 Insulation class H.
 Protection IP 43.

Operation

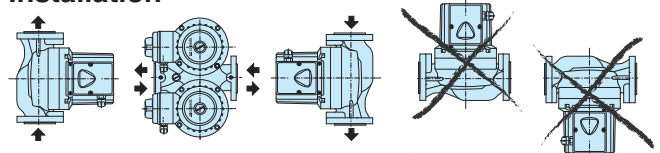


Single operation
 Operation of a single pump choosed by the customer, with the second pump on stand-by

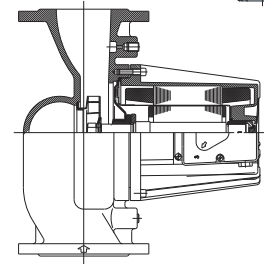


Double operation
 Operation in parallel of the two pumps

Installation



Cross section drawings

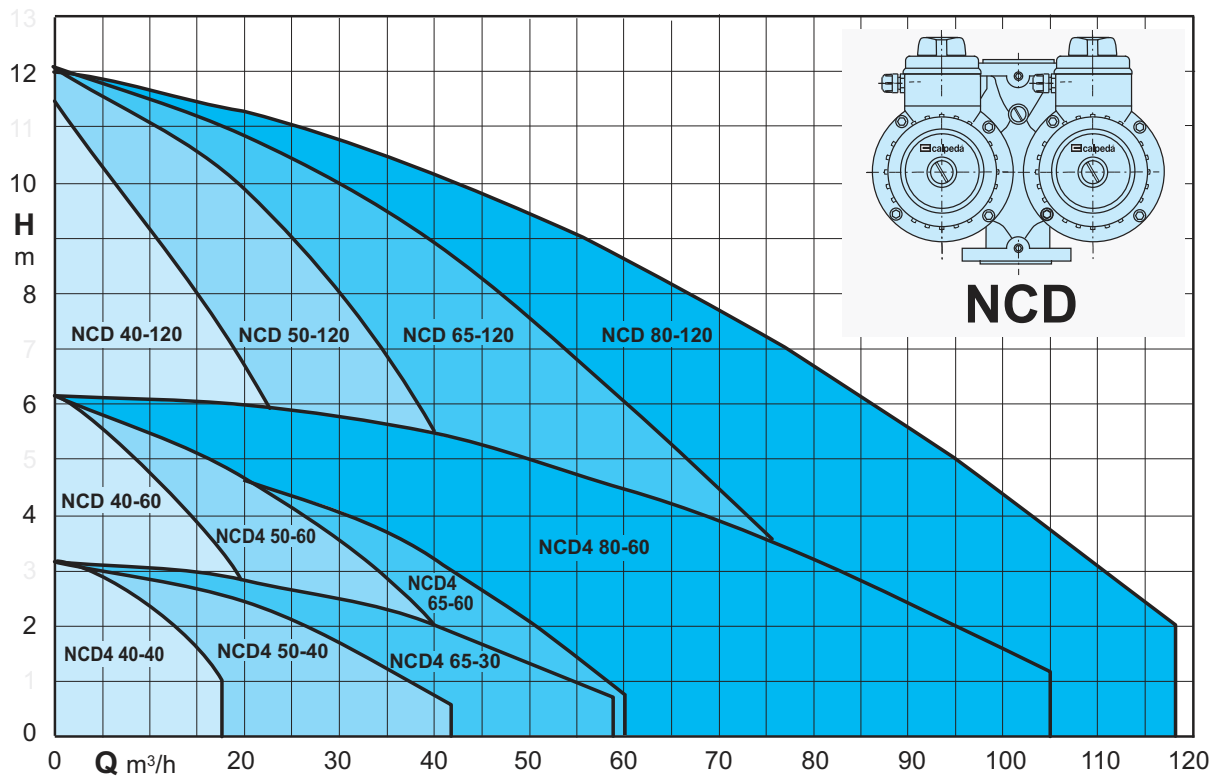


Designation

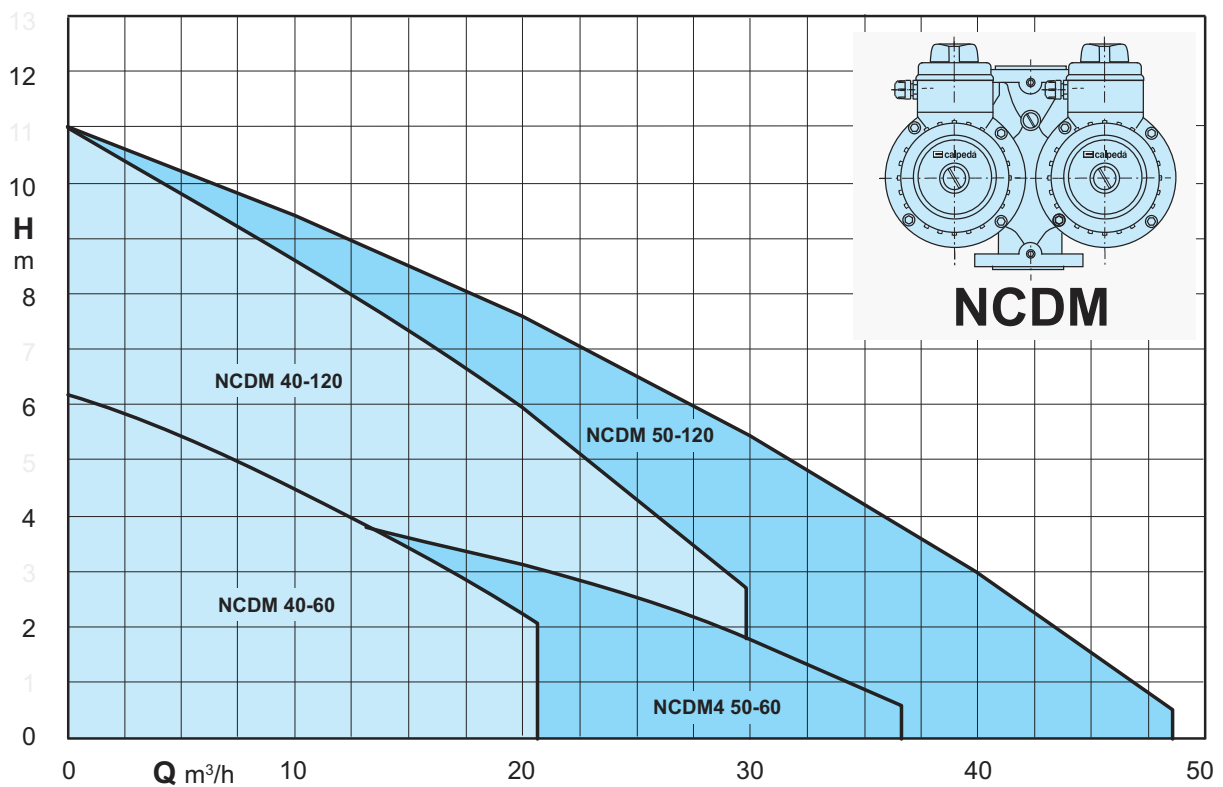
NC D (M) 4 40 - 60 / 250

Series _____
 Twin pumps version _____
 Single-phase motor _____
 4-pole motor _____
 DN ports in mm _____
 Max. head in dm _____
 connection size mm _____

Coverage chart

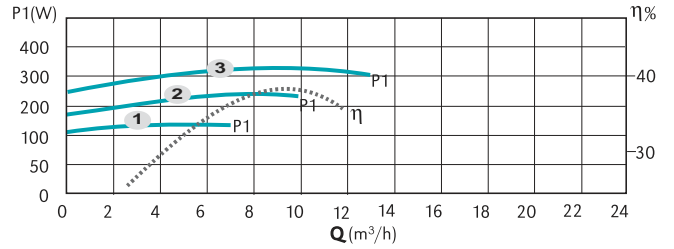
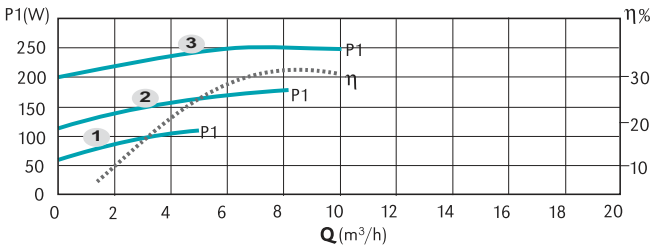
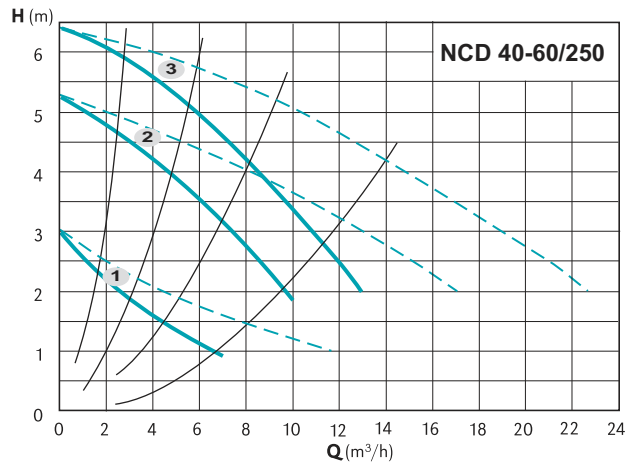
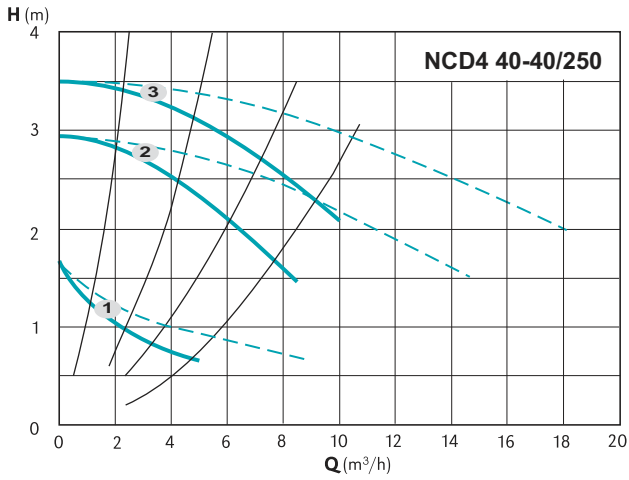


Tolerances according to ISO 9906, annex A.



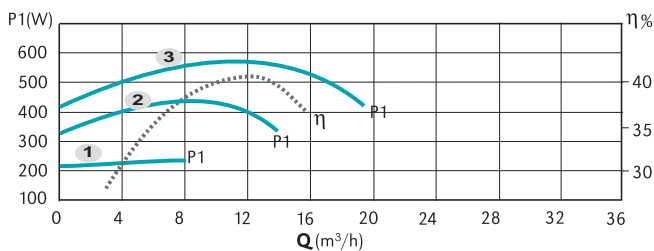
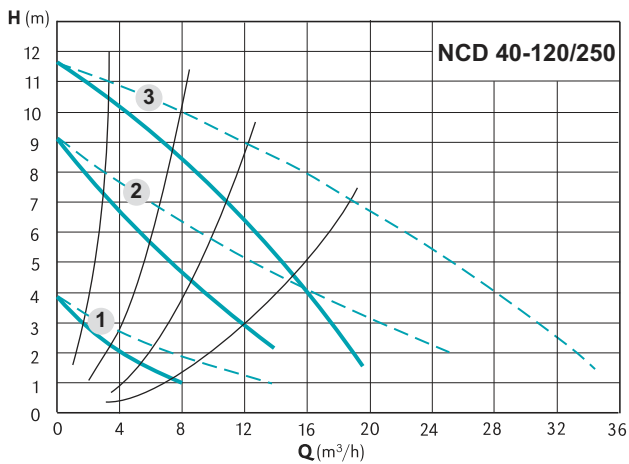
Tolerances according to ISO 9906, annex A.

Characteristic curves, dimensions and weights

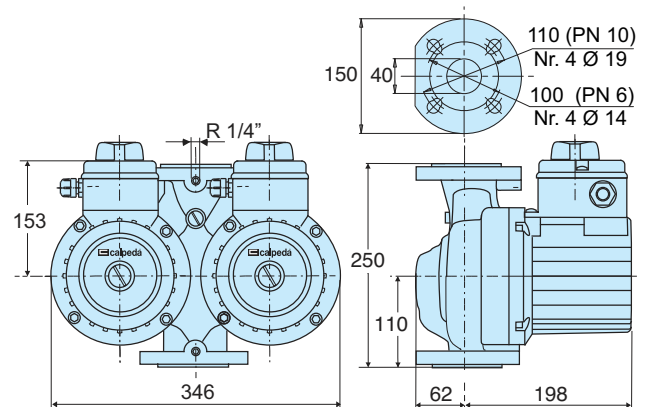


— Single operation
- - - Operation in parallel

— Single operation
- - - Operation in parallel

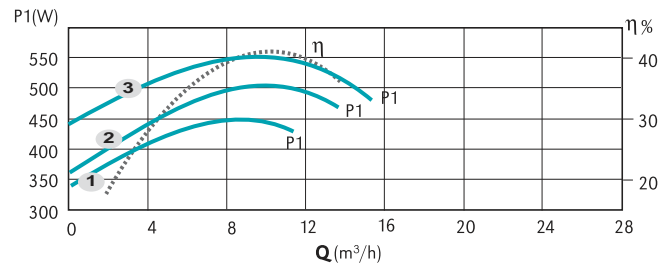
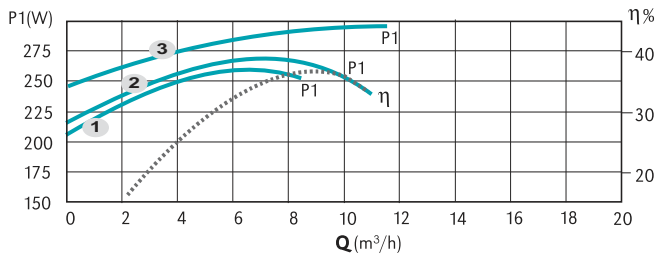
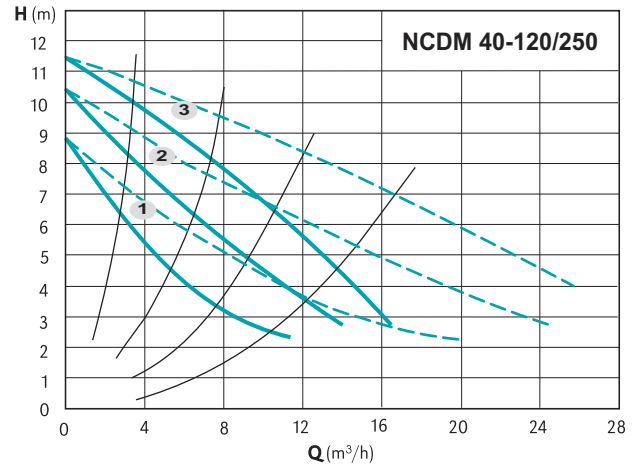
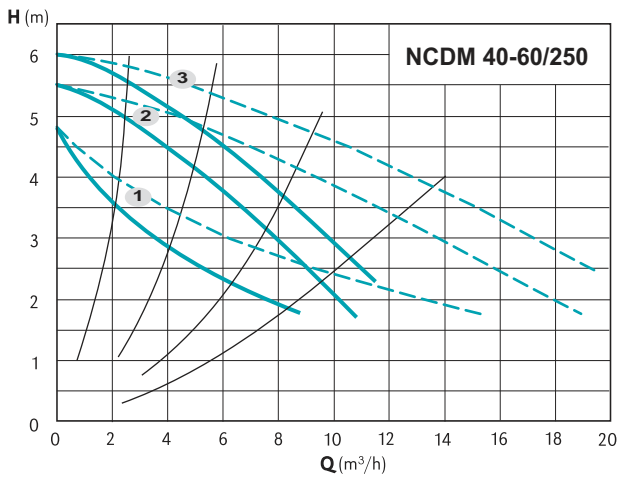


— Single operation
- - - Operation in parallel



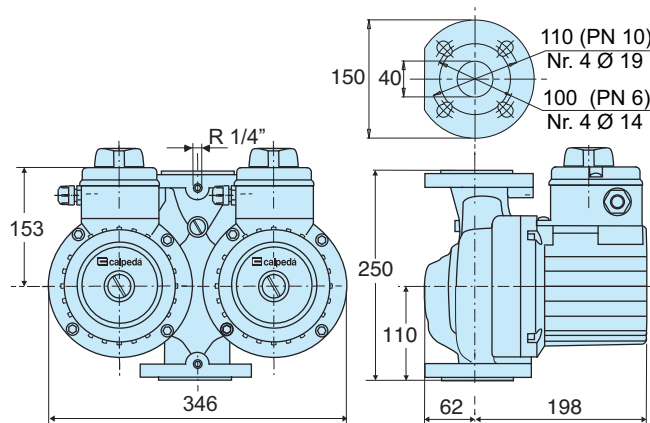
TYPE	DN	PN	N° Poli 2 4	Pos.	1/min	P1 (W)	3x 400 V [A]	[kg]
NCD4 40-40/250	40	6/10	✓	3	1440	240	0,76	34,0
				2	1200	160	0,24	
				1	660	100	0,11	
NCD 40-60/250	40	6/10	✓	3	2790	320	0,74	35,0
				2	2240	240	0,36	
				1	1440	140	0,18	
NCD 40-120/250	40	6/10	✓	3	2820	560	1,16	35,0
				2	2200	400	0,64	
				1	1250	220	0,26	

Characteristic curves, dimensions and weights



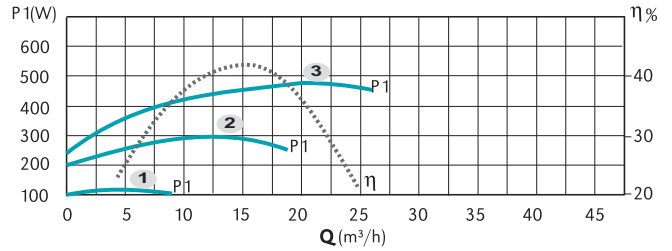
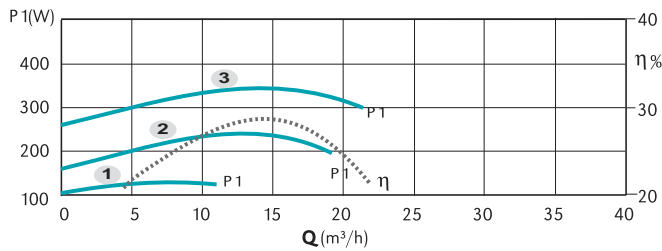
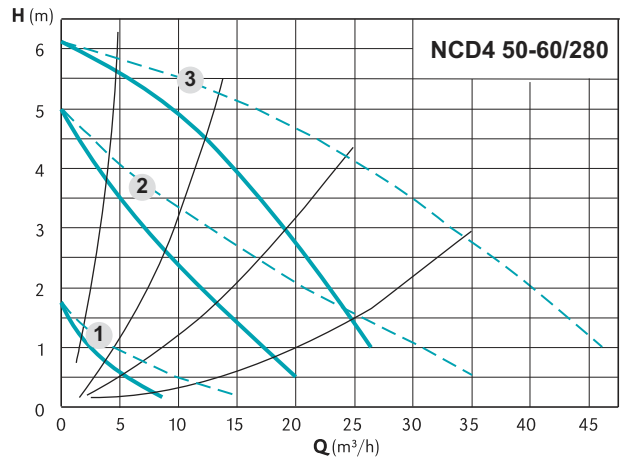
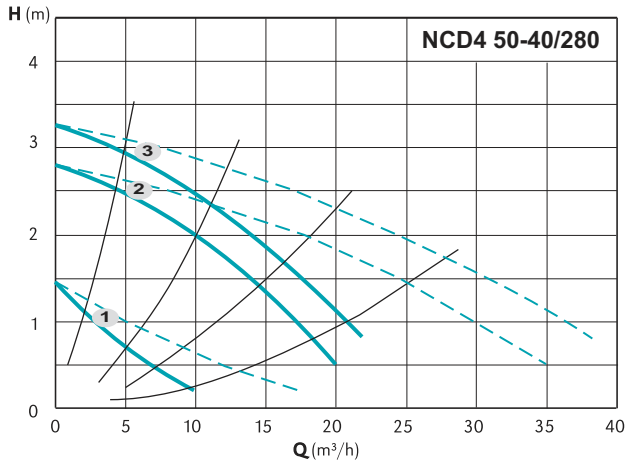
——— Single operation
- - - - - Operation in parallel

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- - - - - Operation in parallel



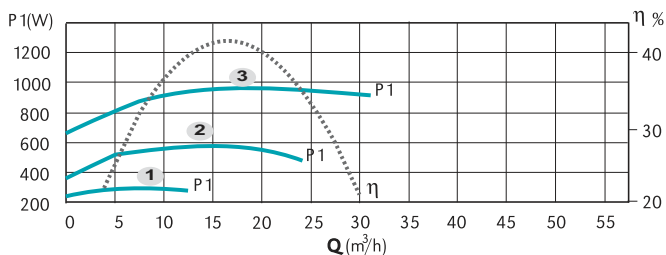
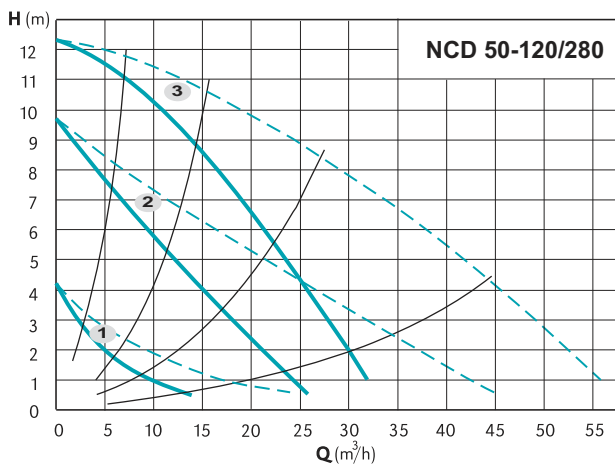
TYPE	DN PN		N° Poli 2 4	Pos.	1/min	P1 (W)	1x 230 V [A]	[kg]
	40	6/10						
NCDM 40-60/250			✓	3	2690	285	1,20	35,0
				2	2360	245	1,18	
				1	1820	225	1,15	
NCDM 40-120/250			✓	3	2755	550	2,35	35,0
				2	2100	475	2,30	
				1	1270	355	1,85	

Characteristic curves, dimensions and weights

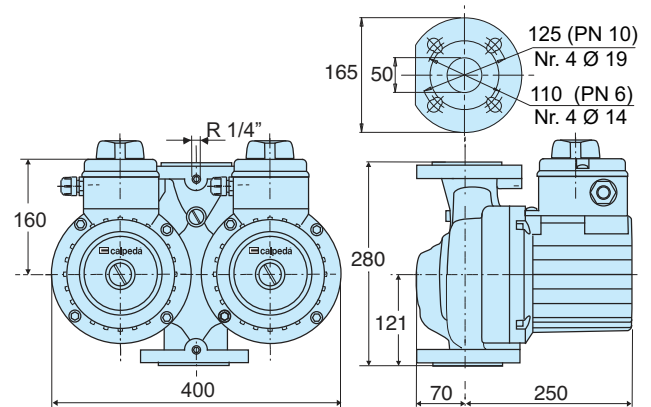


— Single operation
- - - Operation in parallel

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- - - Operation in parallel

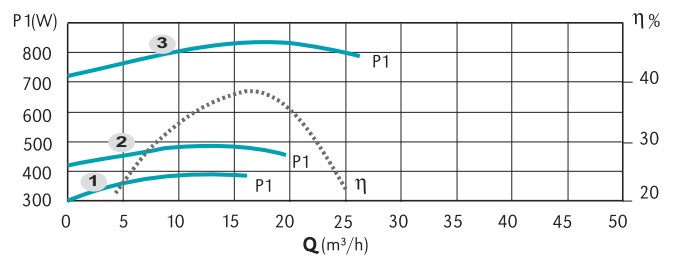
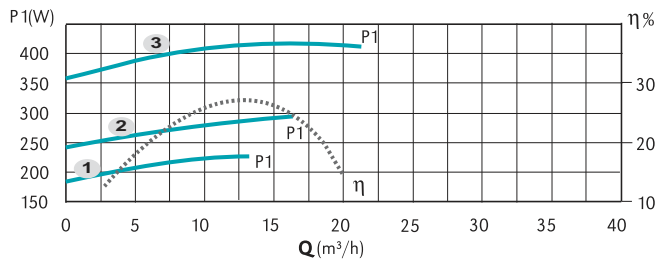
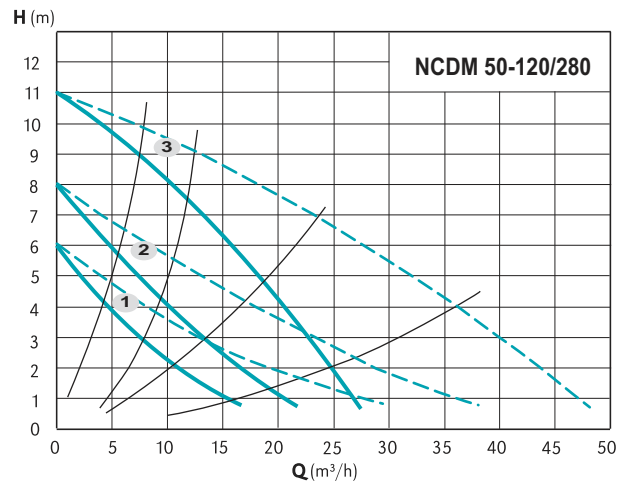
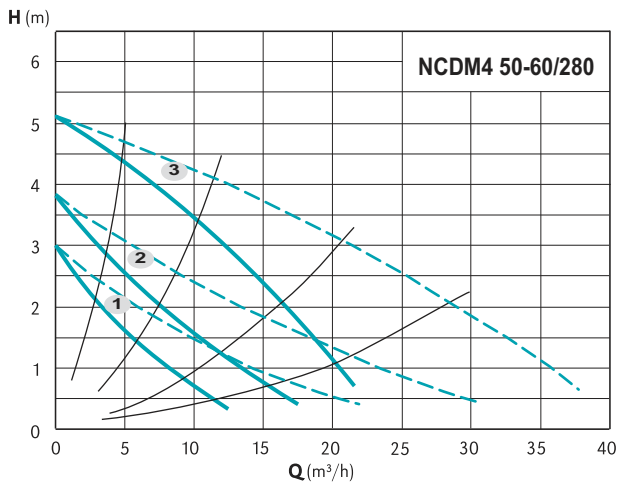


— Single operation
- - - Operation in parallel



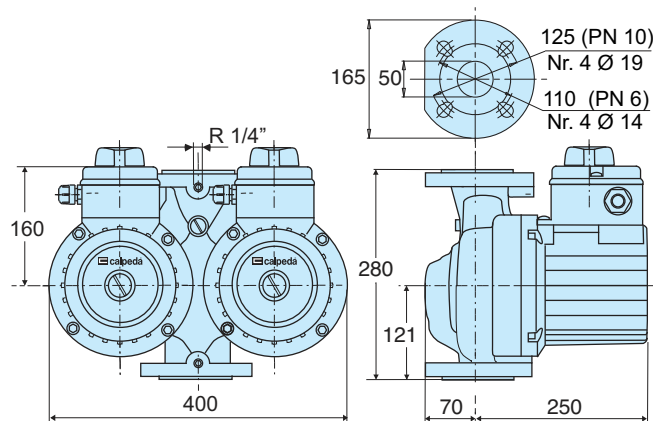
TYPE	DN	PN	N° Poli 2 4	Pos.	1/min	P1 (W)	3x 400 V [A]	[kg]
NCD4 50-40/280	50	6/10	✓	3	1450	340	1,05	44,0
				2	1220	240	0,44	
				1	620	120	0,22	
NCD4 50-60/280	50	6/10	✓	3	1400	470	1,15	44,0
				2	1000	300	0,55	
				1	560	100	0,20	
NCD 50-120/280	50	6/10	✓	3	2800	950	1,73	44,0
				2	2330	540	1,05	
				1	1270	265	0,46	

Characteristic curves, dimensions and weights



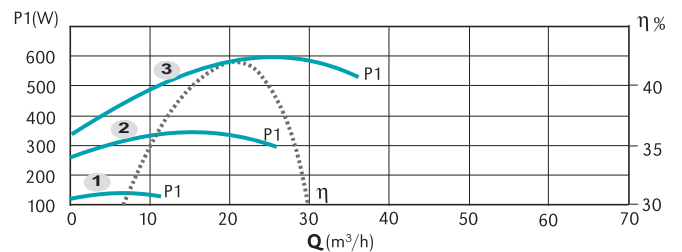
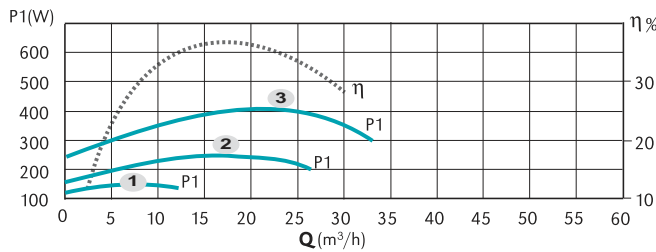
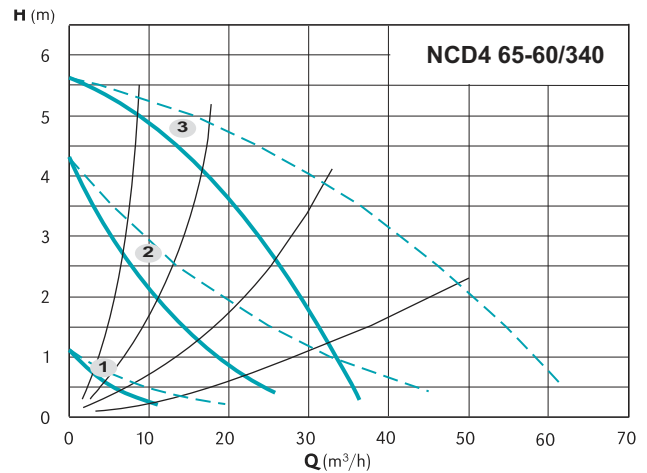
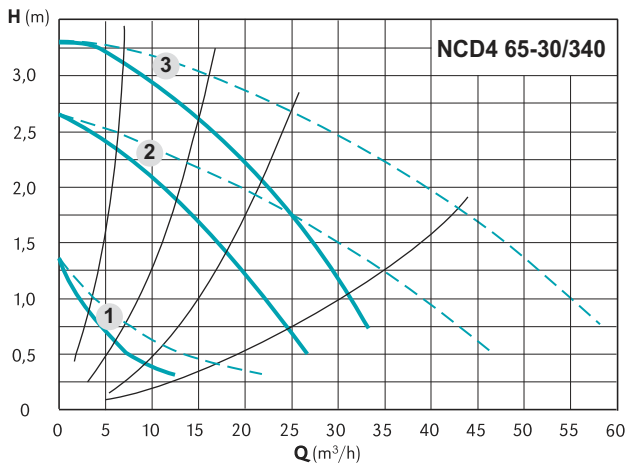
——— Single operation
- - - - - Operation in parallel

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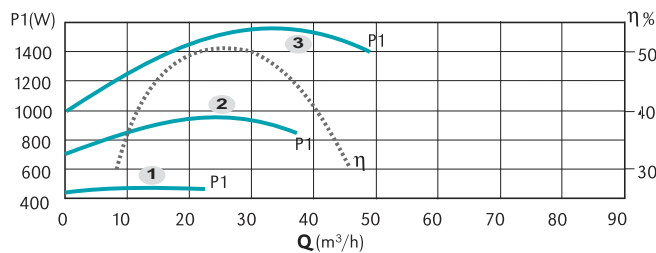
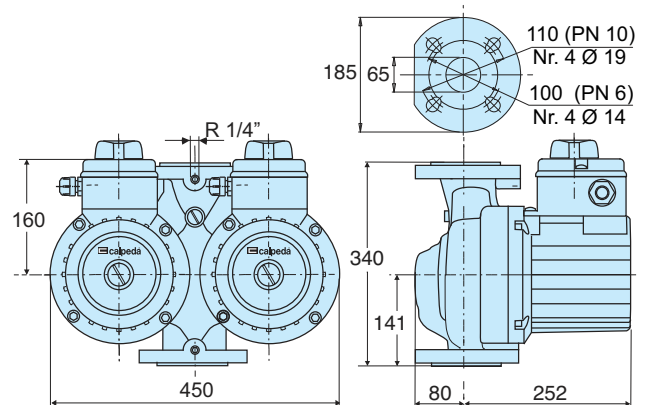
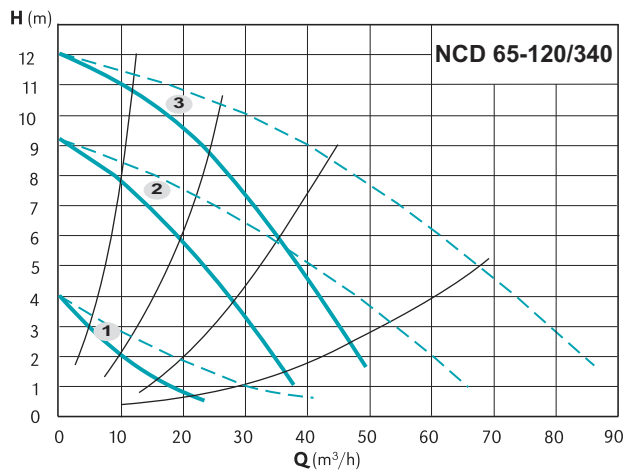
TYPE	DN	PN	N° Poli		Pos.	1/min	P1 (W)	1x 230 V [A]	[kg]
			2	4					
NCDM4 50-60/280	50	6/10	✓	3	1260	415	1,8	44,0	
				2	1030	300	1,3		
				1	740	230	1,0		
NCDM 50-120/280	50	6/10	✓	3	2720	830	3,6	44,0	
				2	1870	480	2,1		
				1	1450	390	1,7		

Characteristic curves, dimensions and weights



— Single operation
- - - Operation in parallel

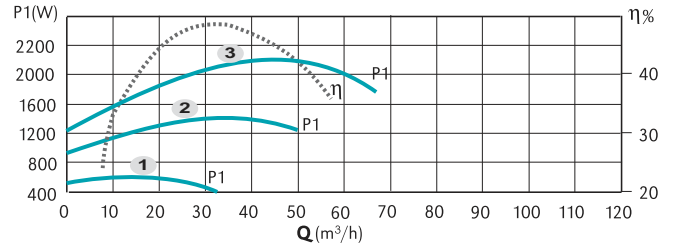
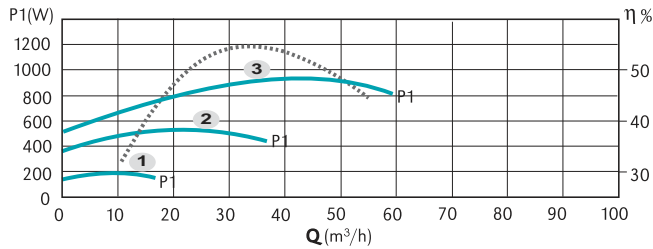
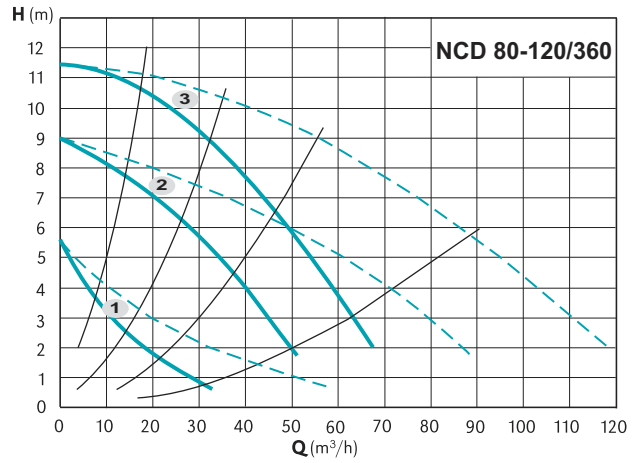
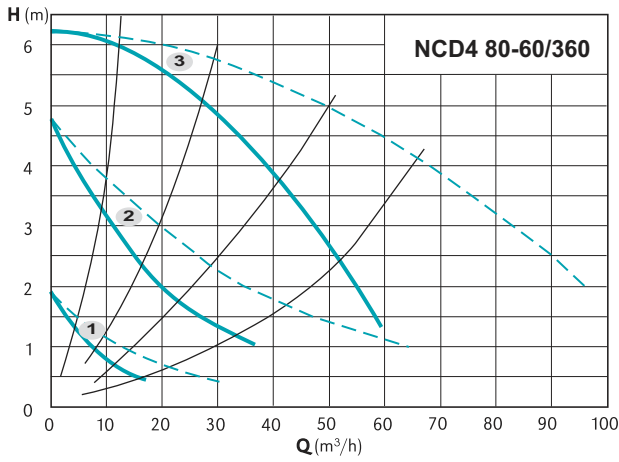
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- - - Operation in parallel



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- - - Operation in parallel

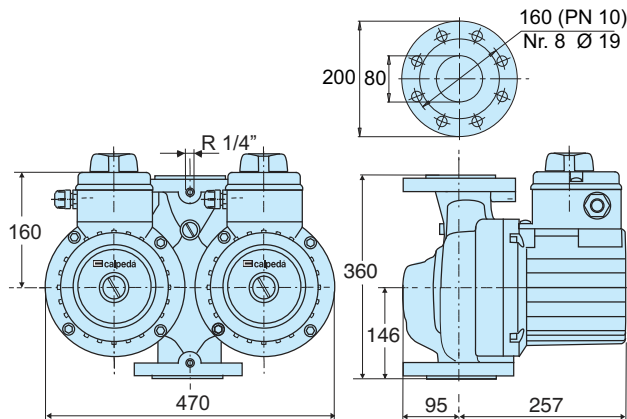
TYPE	DN	PN	N° Poli 2 4	Pos.	1/min	P1 (W)	3x 400 V [A]	[kg]
NCD4 65-30/340	65	6/10	✓	3	1430	400	1,10	49,0
				2	1150	260	0,50	
				1	600	120	0,22	
NCD4 65-60/340	65	6/10	✓	3	1370	600	1,25	49,0
				2	950	360	0,64	
				1	450	120	0,22	
NCD 65-120/340	65	6/10	✓	3	2810	1560	2,80	54,0
				2	2200	960	1,70	
				1	1250	460	0,84	

Characteristic curves, dimensions and weights



——— Single operation
- - - - - Operation in parallel

——— Single operation
- - - - - Operation in parallel



TYPE	DN PN		N° Poli 2 4	Pos.	1/min	P1 (W)	3x 400 V [A]	[kg]
	80	10						
NCD4 80-60/360			✓	3	1350	960	2,20	60,0
				2	1000	560	1,10	
				1	600	200	0,38	
NCD 80-120/360			✓	3	2800	2200	3,80	62,0
				2	2160	1400	2,40	
				1	1200	550	1,05	