

LPC - LPCD

IN-LINE CENTRIFUGAL ELECTRIC PUMPS

in cast iron



In-line single and twin centrifugal pumps with cast iron hydraulic equipment.

APPLICATIONS

- Fluid handling for circulation, heating and air conditioning system, both civil and industrial
- Hot water and low pressure fluid handling in general
- Cooling and air conditioning systems

TECHNICAL FEATURES

- Versatile
- Silent running

PUMP TECHNICAL DATA

- High efficiency motors IE2 for 0.75kW to 5.5kW
IE3 for 0.75kW to 37kW
 - Maximum operating pressure: 10 bar
 - Maximum fluid temperature: -10°C to +110°C
 - Maximum ambient temperature: +40°C (check with us for higher values)
 - Maximum fluid viscosity: 38 cSt
 - Flanges: PN10 for LPC 32-100 and LPC 40-100, UNI2223-29 PN16 for the rest of the range
 - MEI > 0.4
- For further information, refer to our Data Book on www.ebara.eu

MOTOR TECHNICAL DATA

- 2 and 4 poles self-ventilating asynchronous motors
- Insulation class F
- Protection rating IP 55
- Three phase voltage 230/400V ±10%, 50 Hz up to 4 kW, three phase voltage 400/690V ±10%, 50 Hz, 5.5 kW and above
- Protection to be provided by the user,

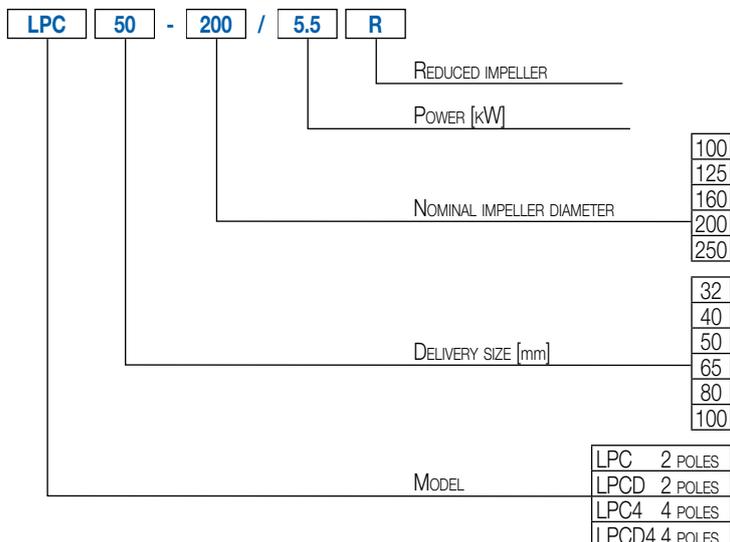
MATERIALS

- Pump body, gasket disk and motor mount in cast iron
- Impeller made of cast iron
- Shaft made of AISI 420 steel
- Mechanical seal made of SiC/Carbon/EPDM

ACCESSORIES (on request)

- Kit of galvanised counterflanges
- Blind flanges
- E-drive - Frequency variator

IDENTIFICATION CODE





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PERFORMANCE RANGE series LPC

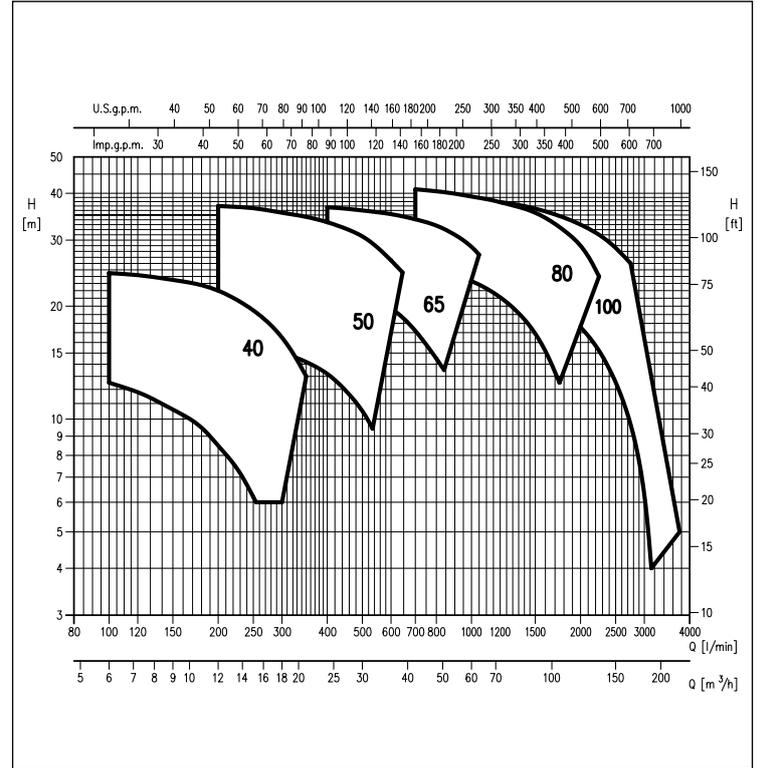
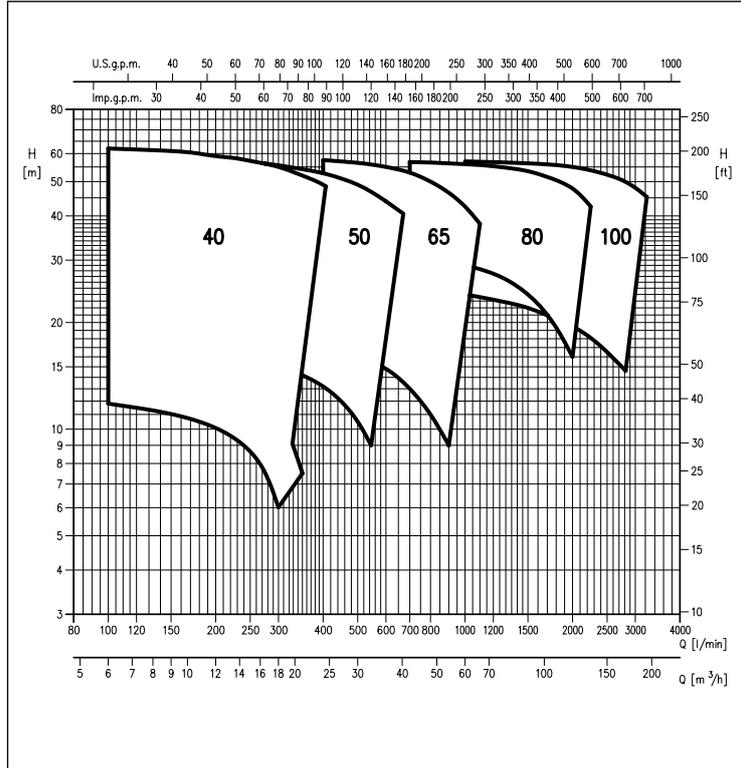
(per ISO 9906 Annex A)

2 Poles

PERFORMANCE RANGE series LPCD

(per ISO 9906 Annex A)

2 Poles



PERFORMANCE RANGE series LPC4

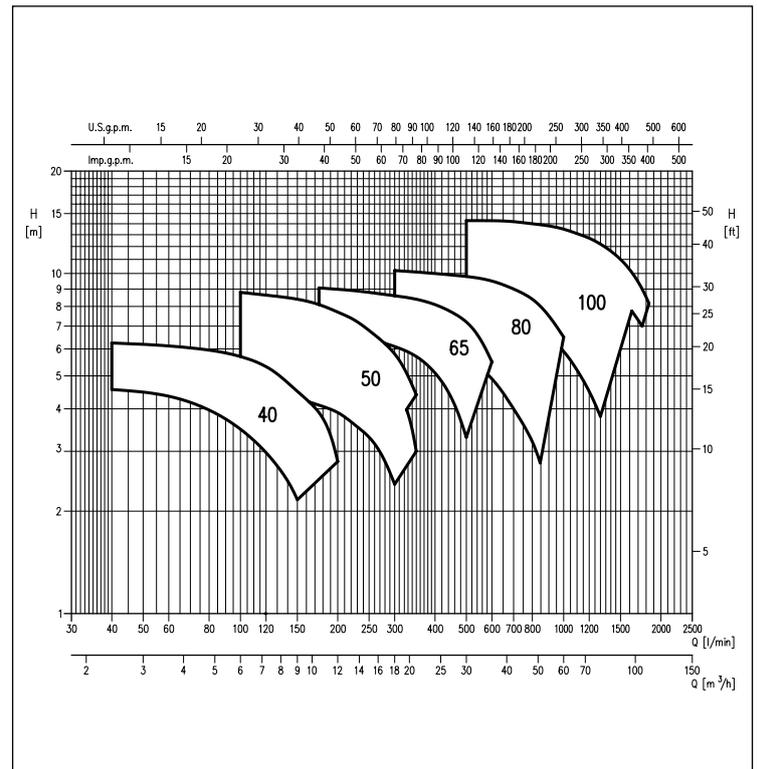
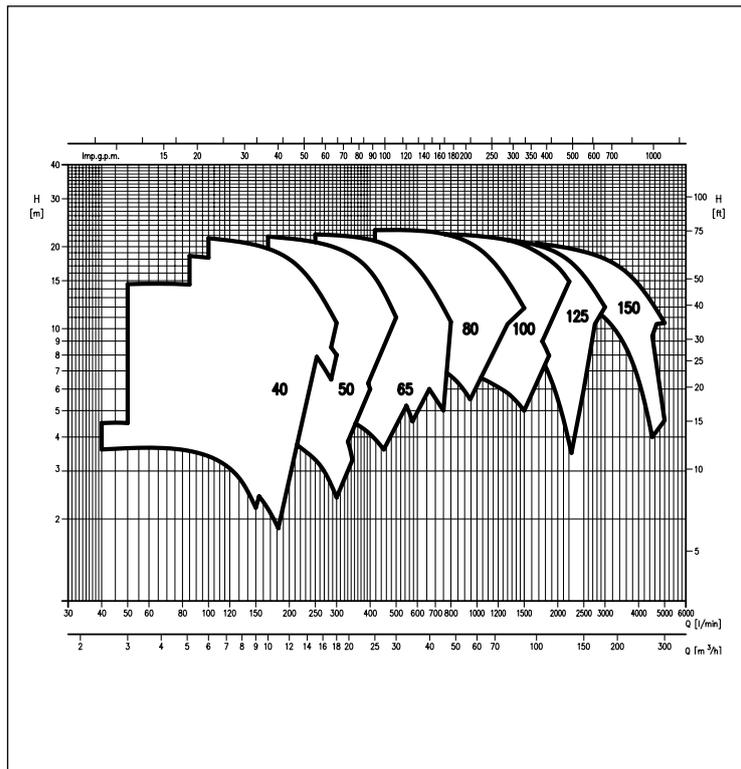
(per ISO 9906 Annex A)

4 Poles

PERFORMANCE RANGE series LPCD4

(per ISO 9906 Annex A)

4 Poles



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LPC - LPCD

IN-LINE CENTRIFUGAL ELECTRIC PUMPS

in cast iron

PERFORMANCE TABLE LPCD

2 Poles

Model Three phase 230/400/690V	P ₂		Q=Flow rate													
	[HP]	[kW]	l/min	100	125	150	175	200	225	250	300	350	400	450	500	600
			m ³ /h	6	7.5	9	10.5	12	13.5	15	18	21	24	27	30	36
LPCD 40-125/0.75R	0.75	0.55	12.5	11.6	10.6	9.7	8.5	7.4	5.5	-	-	-	-	-	-	-
LPCD 40-125/0.75	1	0.75	15.3	14.5	13.7	12.8	11.5	10.4	9.0	6.0	-	-	-	-	-	-
LPCD 40-125/1.1	1.5	1.1	20.5	19.7	19.0	18.1	17.1	15.9	14.5	11.2	7.5	-	-	-	-	-
LPCD 40-125/1.5	2	1.5	24.5	24.1	23.5	22.9	22.0	20.8	19.5	16.5	13.0	-	-	-	-	-
LPCD 50-125/1.5	2	1.5	-	-	-	-	16.0	15.7	15.5	15.0	14.2	13.2	11.9	10.5	7.0	
LPCD 50-125/2.2	3	2.2	-	-	-	-	19.5	19.3	19.1	18.5	17.5	16.6	15.5	14.1	10.5	
LPCD 50-125/3	4	3	-	-	-	-	24.7	24.6	24.5	24.2	23.7	23.0	21.8	20.5	17.0	
LPCD 50-160/3	4	3	-	-	-	-	30.5	30.2	29.9	29.0	27.8	26.5	24.9	23.0	18.0	
LPCD 50-160/4	5.5	4	-	-	-	-	37.0	36.8	36.5	35.5	34.6	33.5	32.2	30.7	26.5	

Model Three phase 230/400/690V	P ₂		Q=Flow rate																			
	[HP]	[kW]	l/min	350	400	450	500	600	700	800	900	1000	1250	1500	1750	2000	2250	2750	3000	3166	3500	3667
			m ³ /h	21	24	27	30	36	42	48	54	60	75	90	105	120	135	165	180	190	210	220
LPCD 65-160/3	4	3	23.0	22.5	22.0	21.3	19.7	17.2	14.5	-	-	-	-	-	-	-	-	-	-	-	-	-
LPCD 65-160/4	5.5	4	27.0	26.6	26.0	25.5	24.2	22.5	20.2	17.6	-	-	-	-	-	-	-	-	-	-	-	-
LPCD 65-160/5.5	7.5	5.5	-	32.3	32.0	31.5	30.8	29.5	28.0	25.8	23.5	-	-	-	-	-	-	-	-	-	-	-
LPCD 65-160/7.5	10	7.5	-	36.7	36.4	36.0	35.2	34.1	32.8	31.0	28.8	-	-	-	-	-	-	-	-	-	-	-
LPCD 80-160/7.5	10	7.5	-	-	-	-	25.5	25.2	24.7	24.0	23.3	20.5	16.9	12.5	-	-	-	-	-	-	-	-
LPCD 80-160/11	15	11	-	-	-	-	-	30.5	30.0	29.5	29.0	27.0	24.0	20.2	16.0	-	-	-	-	-	-	-
LPCD 80-160/15R	17	12.5	-	-	-	-	-	36.0	35.5	35	34.5	32.8	30.0	27.0	23.0	19.0	-	-	-	-	-	-
LPCD 80-160/15	20	15	-	-	-	-	-	41.0	40.5	39.9	39.2	37.5	35.5	32.5	29.0	24.0	-	-	-	-	-	-
LPCD 100-200/11	15	11	-	-	-	-	-	-	-	-	24.5	23.5	22.0	20.5	18.5	16.0	10.5	7.0	4.0	-	-	-
LPCD 100-200/15R	20	15	-	-	-	-	-	-	-	-	28.0	27.0	26.0	24.5	23.2	20.5	15.5	12.5	11.0	7.0	5.0	-
LPCD 100-200/15	20	15	-	-	-	-	-	-	-	-	38.5	37.5	36.5	35.0	33.0	31.0	26.0	-	-	-	-	-

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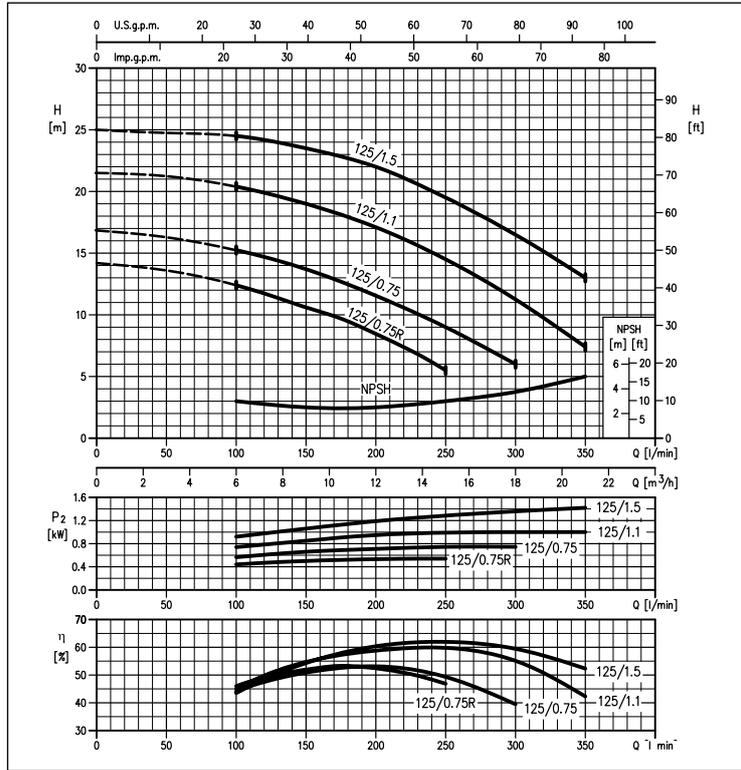
LPC - LPCD

IN-LINE CENTRIFUGAL ELECTRIC PUMPS in cast iron

PERFORMANCE CURVES series LPCD 40-125

2 Poles

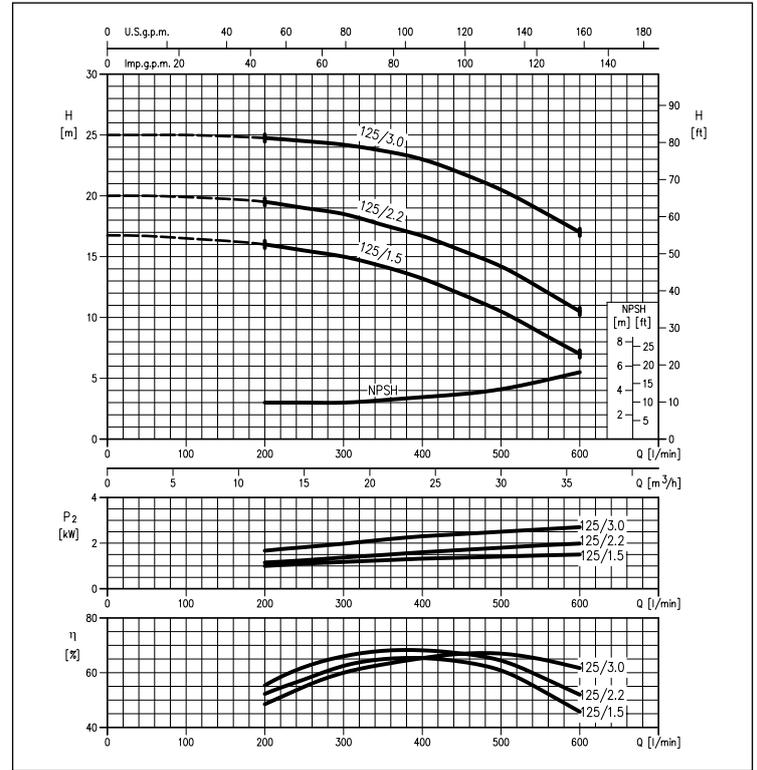
(per ISO 9906 Annex A)



PERFORMANCE CURVES series LPCD 50-125

2 Poles

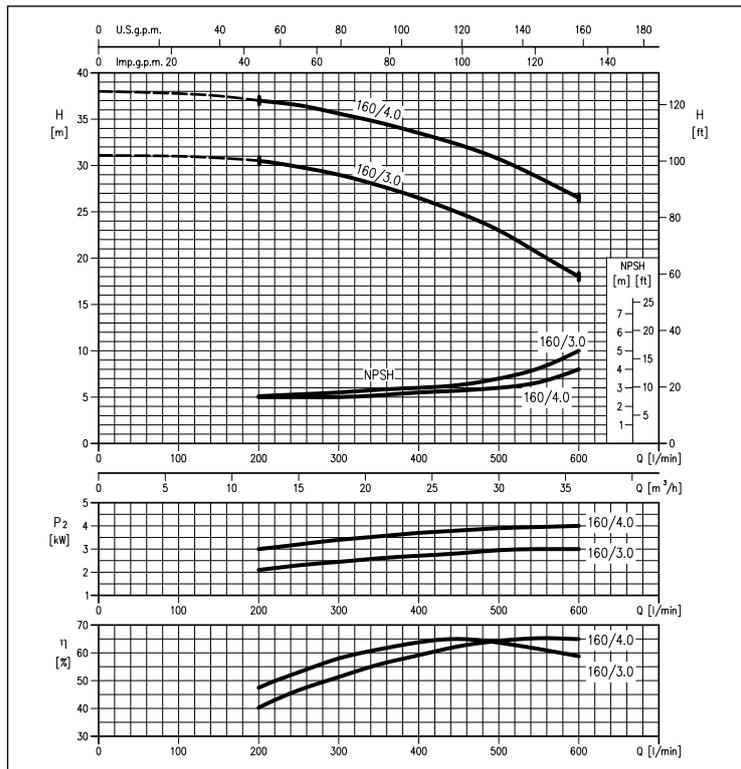
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PERFORMANCE CURVES series LPCD 50-160

2 Poles

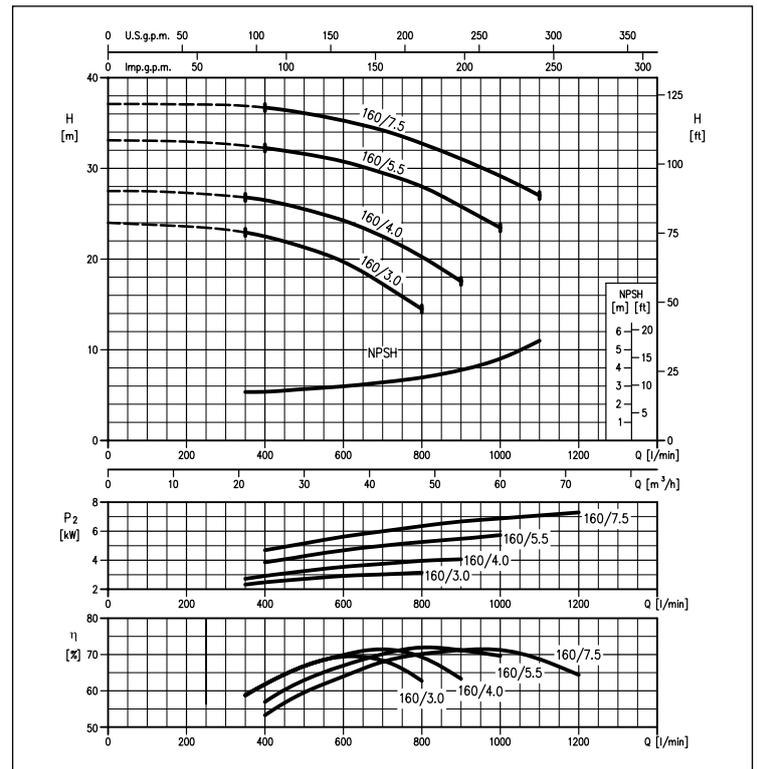
(per ISO 9906 Annex A)



PERFORMANCE CURVES series LPCD 65-160

2 Poles

(per ISO 9906 Annex A)



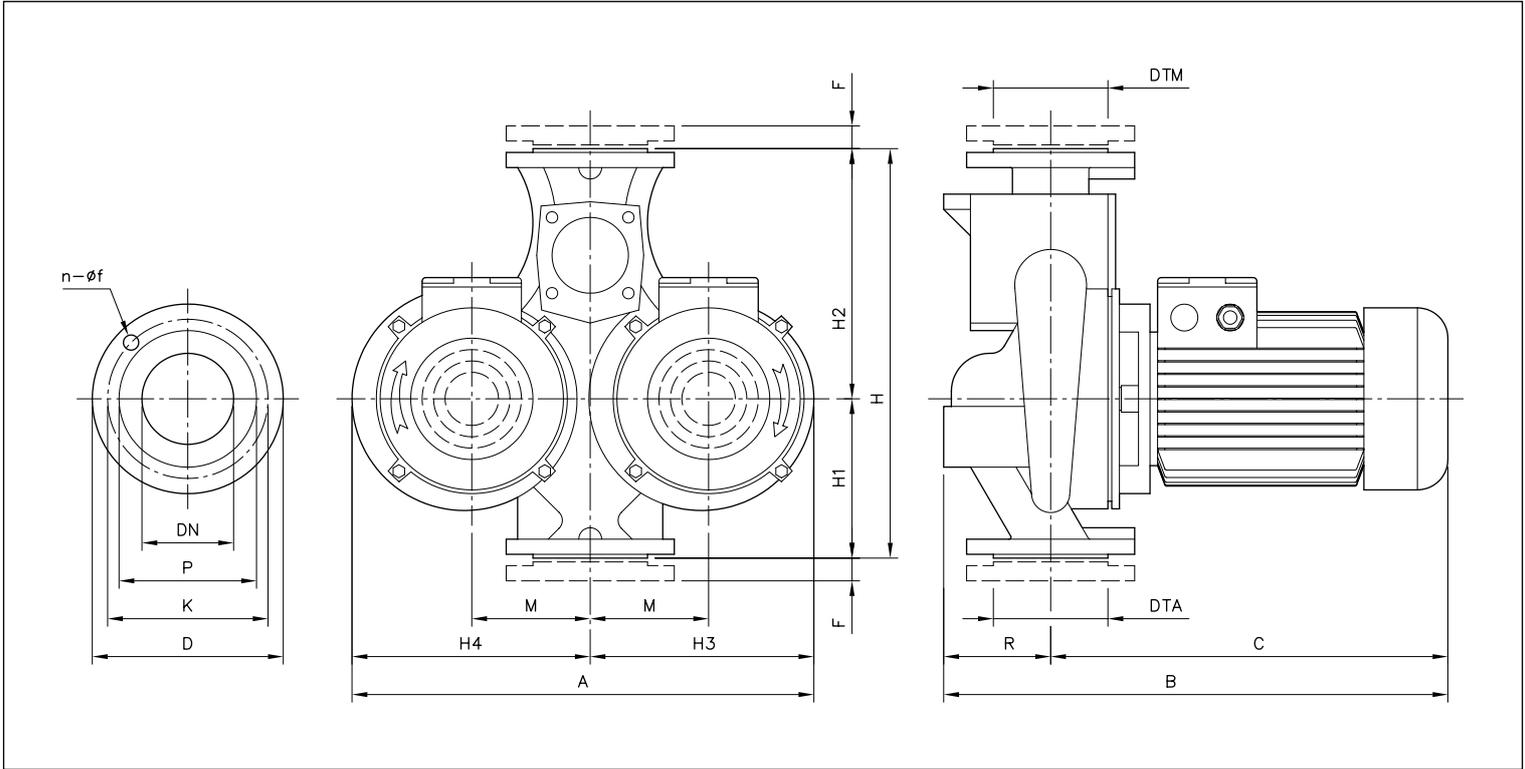
LPC - LPCD

IN-LINE CENTRIFUGAL ELECTRIC PUMPS

in cast iron

DIMENSIONS LPCD 40-50-65-80-100

2 Poles



DIMENSIONS CHART

Model	Dimensions [mm]																			Weight [kg]
	DTA/M	DNA/M	n	f	P	K	D	H	H1	H2	H3	H4	M	R	F	A	B	C		
LPCD 40-125/0.75R	G1½	40PN16	4	18	88	110	150	340	130	210	197	200	100	100	20	397	446	346	55.0	
LPCD 40-125/0.75	G1½	40PN16	4	18	88	110	150	340	130	210	197	200	100	100	20	397	446	346	55.0	
LPCD 40-125/1.1	G1½	40PN16	4	18	88	110	150	340	130	210	197	200	100	100	20	397	446	346	57.0	
LPCD 40-125/1.5	G1½	40PN16	4	18	88	110	150	340	130	210	197	200	100	100	20	397	446	346	59.0	
LPCD 50-125/1.5	G2	50PN16	4	18	102	125	165	365	145	220	210	217	105	110	22	427	456	346	61.0	
LPCD 50-125/2.2	G2	50PN16	4	18	102	125	165	365	145	220	210	217	105	110	22	427	491	381	64.0	
LPCD 50-125/3	G2	50PN16	4	18	102	125	165	365	145	220	210	217	105	110	22	427	530	420	77.0	
LPCD 50-160/3	G2	50PN16	4	18	102	125	165	410	170	240	235	245	120	110	22	480	530	420	78.0	
LPCD 50-160/4	G2	50PN16	4	18	102	125	165	410	170	240	235	245	120	110	22	480	530	420	86.0	
LPCD 65-160/3	G2½	65PN16	4	18	122	145	185	450	180	270	268	275	140	130	22	543	550	420	92.0	
LPCD 65-160/4	G2½	65PN16	4	18	122	145	185	450	180	270	268	275	140	130	22	543	550	420	101.0	
LPCD 65-160/5.5	G2½	65PN16	4	18	122	145	185	450	180	270	268	275	140	130	22	543	572	442	112.0	
LPCD 65-160/7.5	G2½	65PN16	4	18	122	145	185	450	180	270	268	275	140	130	22	543	594	464	118.0	
LPCD 80-160/7.5	G3	80PN16	8	18	138	160	200	510	205	305	270	280	135	150	24	550	614	464	141.0	
LPCD 80-160/11	G3	80PN16	8	18	138	160	200	510	205	305	270	280	135	150	24	550	709	559	188.0	
LPCD 80-160/15R	G3	80PN16	8	18	138	160	200	510	205	305	270	280	135	150	24	550	760	610	193.0	
LPCD 80-160/15	G3	80PN16	8	18	138	160	200	510	205	305	270	280	135	150	24	550	760	610	193.0	
LPCD 100-200/15R	G4	100PN16	8	18	158	180	220	630	240	390	345	325	165	180	26	670	751	571	226.0	
LPCD 100-200/11	G4	100PN16	8	18	158	180	220	630	240	390	345	325	165	180	26	670	802	622	232.0	
LPCD 100-200/15	G4	100PN16	8	18	158	180	220	630	240	390	345	325	165	180	26	670	802	622	232.0	

LPC - LPCD

IN-LINE CENTRIFUGAL ELECTRIC PUMPS

in cast iron

ELECTRICAL DATA TABLE LPCD

2 Poles

Model	P.		Efficiency Three phase	Efficiency (%) Three phase			Input [kW]	Absorbed current [A]		
	[HP]	[kW]		$\eta\%$				230V	400V	690V
				50%	75%	100%				
LPCD 40-125/0.75R	1.0	0.75	IE2	77.3	78.5	80.5	0.92	3.0	1.7	-
LPCD 40-125/0.75	1.0	0.75	IE2	77.3	78.5	80.5	0.92	3.0	1.7	-
LPCD 40-125/1.1	1.5	1.1	IE2	79.5	81.2	81.5	1.35	4.3	2.5	-
LPCD 40-125/1.5	2.0	1.5	IE2	80.5	82.1	82.4	1.83	5.9	3.4	-
LPCD 50-125/1.5	2.0	1.5	IE2	80.5	82.1	82.4	1.83	5.9	3.4	-
LPCD 50-125/2.2	3.0	2.2	IE2	82.5	84.0	84.0	2.59	7.6	4.4	-
LPCD 50-125/3	4.0	3.0	IE2	84.1	85.8	85.5	3.43	10.3	5.9	-
LPCD 50-160/3	4.0	3.0	IE2	84.1	85.8	85.5	3.43	10.3	5.9	-
LPCD 50-160/4	5.5	4.0	IE2	85.2	86.4	86.1	4.64	13.6	7.8	-
LPCD 65-160/3	4.0	3.0	IE2	84.1	85.8	85.5	3.43	10.3	5.9	-
LPCD 65-160/4	5.5	4.0	IE2	85.2	86.4	86.1	4.64	13.6	7.8	-
LPCD 65-160/5.5	7.5	5.5	IE2	85.8	87.4	87.3	6.34	-	10.4	6.0
LPCD 65-160/7.5	10.0	7.5	IE3	88.0	89.7	90.1	8.38	-	14.4	8.3
LPCD 80-160/7.5	10.0	7.5	IE3	88.0	89.7	90.1	8.38	-	14.4	8.3
LPCD 80-160/11	15.0	11.0	IE3	90.0	90.8	91.2	12.27	-	19.9	11.5
LPCD 80-160/15R	20.0	15.0	IE3	91.0	92.2	91.9	16.33	-	26.8	15.5
LPCD 80-160/15	20.0	15.0	IE3	91.0	92.2	91.9	16.33	-	26.8	15.5
LPCD 100-200/15R	15.0	11.0	IE3	90.0	90.8	91.2	12.27	-	19.9	11.5
LPCD 100-200/11	20.0	15.0	IE3	91.0	92.2	91.9	16.33	-	26.8	15.5
LPCD 100-200/15	20.0	15.0	IE3	91.0	92.2	91.9	16.33	-	26.8	15.5

LPC - LPCD

IN-LINE CENTRIFUGAL ELECTRIC PUMPS

in cast iron

ELECTRICAL DATA TABLE LPCD4

4 Poles

Model	P ₂		Efficiency Three phase	Efficiency (%) Three phase η%			Input [kW]	Absorbed current [A]	
	[HP]	[kW]		50%	75%	100%		230V	400V
LPCD4 40-125/0.25R	0.33	0.25	-	-	-	-	0.41	1.6	0.9
LPCD4 40-125/0.25	0.33	0.25	-	-	-	-	0.41	1.6	0.9
LPCD4 50-125/0.25	0.33	0.25	-	-	-	-	0.41	1.6	0.9
LPCD4 50-125/0.37	0.5	0.37	-	-	-	-	0.56	2.1	1.2
LPCD4 50-160/0.55	0.75	0.55	-	-	-	-	0.56	2.1	1.2
LPCD4 65-160/0.75R	1.0	0.75	IE2	75.0	78.1	79.4	0.93	3.3	1.9
LPCD4 65-160/0.75	1.0	0.75	IE2	75.0	78.1	79.4	0.93	3.3	1.9
LPCD4 65-160/1.1	1.5	1.1	IE2	81.4	82.7	82.5	1.33	4.3	2.5
LPCD4 80-160/0.75	1.0	0.75	IE2	75.0	78.1	79.4	0.93	3.3	1.9
LPCD4 80-160/1.1R	1.5	1.1	IE2	81.4	82.7	82.5	1.33	4.3	2.5
LPCD4 80-160/1.1	1.5	1.1	IE2	81.4	82.7	82.5	1.33	4.3	2.5
LPCD4 80-160/1.5	2	1.5	IE2	81.0	83.5	83.0	1.81	5.9	3.4
LPCD4 100-200/1.5	2	1.5	IE2	81.0	83.5	83.0	1.81	5.9	3.4
LPCD4 100-200/2.2	3	2.2	IE2	84.0	85.3	85.1	2.61	8.9	5.1
LPCD4 100-200/3	4	3	IE2	82.6	84.7	86.4	3.47	11.3	6.5
LPCD4 100-200/4	5.5	4	IE2	86.0	87.3	87.1	4.59	14.8	8.5

NOISE DATA TABLE LPC

2 Poles

Model	P ₂		L _A - dB(A)*
	[HP]	[kW]	
LPC 32-100/0.37	0.5	0.37	<70
LPC 40-100/0.55	0.75	0.55	
LPC 40-100/0.75	1	0.75	
LPC 40-125/0.75	1	0.75	
LPC 40-125/1.1	1.5	1.1	
LPC 40-125/1.5	2	1.5	72
LPC 40-160/2.2	3	2.2	
LPC 40-160/3R	4	3	78
LPC 40-160/3	4	3	
LPC 40-200/4	5.5	4	80
LPC 40-200/5.5	7.5	5.5	
LPC 40-200/7.5	10	7.5	<70
LPC 50-125/1.5	2	1.5	
LPC 50-125/2.2	3	2.2	72
LPC 50-125/3	4	3	
LPC 50-160/3	4	3	78
LPC 50-160/4	5.5	4	
LPC 50-200/5.5	7.5	5.5	80
LPC 50-200/7.5R	10	7.5	
LPC 50-200/7.5	10	7.5	<70
LPC 65-125/2.2	3	2.2	
LPC 65-125/3	4	3	78
LPC 65-125/4	5.5	4	
LPC 65-160/5.5	7.5	5.5	80
LPC 65-160/7.5	10	7.5	
LPC 65-200/11	15	11	81
LPC 65-200/15	20	15	
LPC 80-160/11	15	11	80
LPC 80-160/15R	20	15	
LPC 80-160/15	20	15	81
LPC 80-200/15	20	15	
LPC 80-200/18.5	25	18.5	83
LPC 80-200/22	30	22	
LPC 100-160/11	15	11	80
LPC 100-160/15R	20	15	
LPC 100-160/15	20	15	81
LPC 100-200/18.5	25	18.5	
LPC 100-200/22	30	22	83
LPC 100-200/30	40	30	
LPC 100-200/37	50	37	83
LPC 100-250/37	50	37	

NOISE DATA TABLE LPCD

2 Poles

Model	P ₂		L _A - dB(A)*
	[HP]	[kW]	
LPCD 40-125/0.75R	0.75	0.55	<70
LPCD 40-125/0.75	1	0.75	
LPCD 40-125/1.1	1.5	1.1	
LPCD 40-125/1.5	2	1.5	
LPCD 50-125/1.5	2	1.5	
LPCD 50-125/2.2	3	2.2	72
LPCD 50-125/3	4	3	
LPCD 50-160/3	4	3	78
LPCD 50-160/4	5.5	4	
LPCD 65-160/3	4	3	78
LPCD 65-160/4	5.5	4	
LPCD 65-160/5.5	7.5	5.5	80
LPCD 65-160/7.5	10	7.5	
LPCD 80-160/7.5	10	7.5	80
LPCD 80-160/11	15	11	
LPCD 80-160/15R	17	12.5	80
LPCD 80-160/15	20	15	
LPCD 100-200/15R	15	11	80
LPCD 100-200/11	20	15	
LPCD 100-200/15	20	15	80

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