EBARA

ELECTRIC PUMPS FOR HEATING AND CONDITIONING

50 Hz

CONTENTS

TIFQ prodotto conforme D.M.174/2004

**= Product certified TIFQ conforming with DM 174, pump compatible with the characteristics of water for human consumption.*

DWC

CLOSED IMPELLER ELECTRIC CENTRIFUGAL PUMPS

in AISI 304 stainless steel

DWC-N

DWC-V

Closed impeller electric centrifugal pump in AISI 304 stainless steel.

APPLICATIONS

- Cooling, air conditioning and heating systems
- Chillers
- Washing systems
- Contaminated industrial fluids

TECHNICAL FEATURES

- Available i versions with threaded (DWC-N) and victaulic (DWC-V) connections
- Thermal insulation as standard supply for the victaulic version (DWC-V)

PUMP TECHNICAL DATA

- Maximum operating pressure: 8 bar
- Fluid temperature:
  -15°C - +90°C
  -15°C - +110°C for versions H-HS-HW-HSW
- G2 suction and delivery connection for DWC-N
- Ø2" suction and delivery connection (60.3 mm) for DWC-V
- For further information, refer to our Data Book on www.ebaraeurope.com

MOTOR TECHNICAL DATA

- 2 poles self-ventilating asynchronous motors
- Insulation class F
- Protection rating IP55
- Three phase voltage 230/400V ±10%, 50Hz
- Protection must be supplied by the user for the three phase version

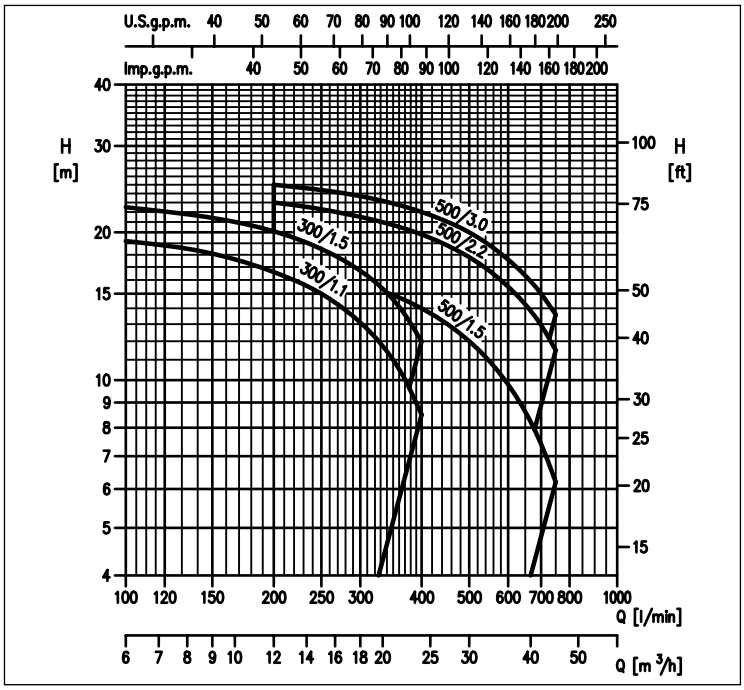
MATERIALS

- Pump body, seal disk, impeller and shaft (part in contact with fluid) in AISI 304
- Motor mount and casing in aluminium
- Mechanical seal in:
  - Ceramic/Carbon/EPDM (standard)
  - special versions: see page 6

ACCESSORIES (on request)

- DWC body insulating jacket for applications with coolants or high thermal differentials (risk of condensation).

PERFORMANCE RANGE (per ISO 9906 Annex A)



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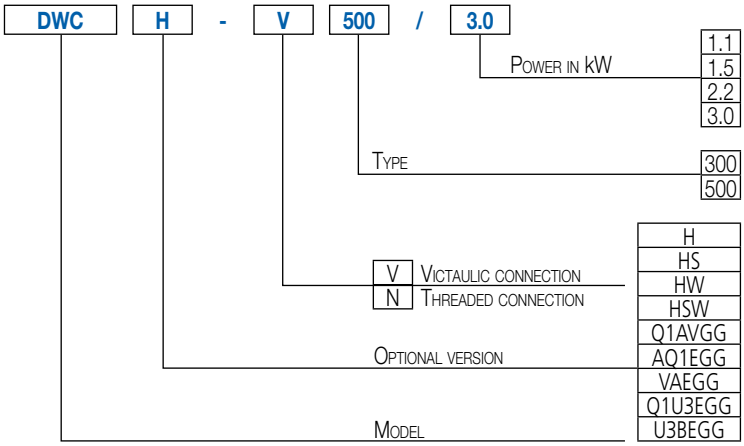


DWC

CLOSED IMPELLER ELECTRIC CENTRIFUGAL PUMPS

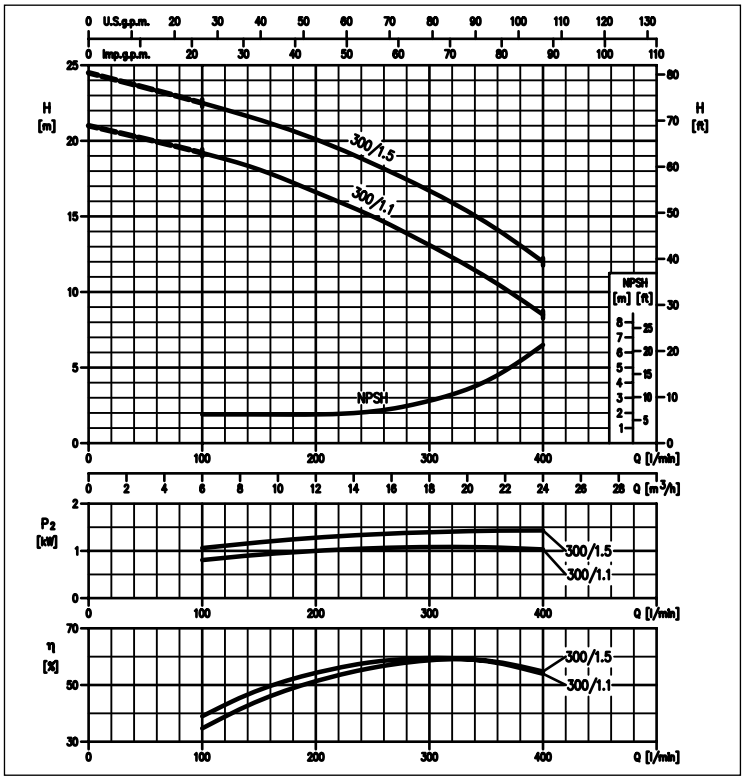
in AISI 304 stainless steel

PERFORMANCE TABLE

Model Three phase 230/400V	P_2 [HP]	P_2 [kW]	Q=Flow rate l/min	100	150	200	250	300	350	400	500	600	700	750
			m^3/h	6	9	12	15	18	21	24	30	36	42	45
			H=Head [m]											
DWC 300/1.1	1.5	1.1		19.2	18.1	16.6	15.0	13.1	11.0	8.5	-	-	-	-
DWC 300/1.5	2	1.5		22.5	21.4	20.1	18.5	16.7	14.6	12.0	-	-	-	-
DWC 500/1.5	2	1.5		-	-	17.0	16.4	15.7	14.9	14.0	12.0	9.8	7.4	6.2
DWC 500/2.2	3	2.2		-	-	23.0	22.3	21.5	20.7	19.8	17.8	15.5	13.0	11.5
DWC 500/3.0	4	3		-	-	25.0	24.4	23.7	22.9	22.0	20.0	17.6	15.0	13.6

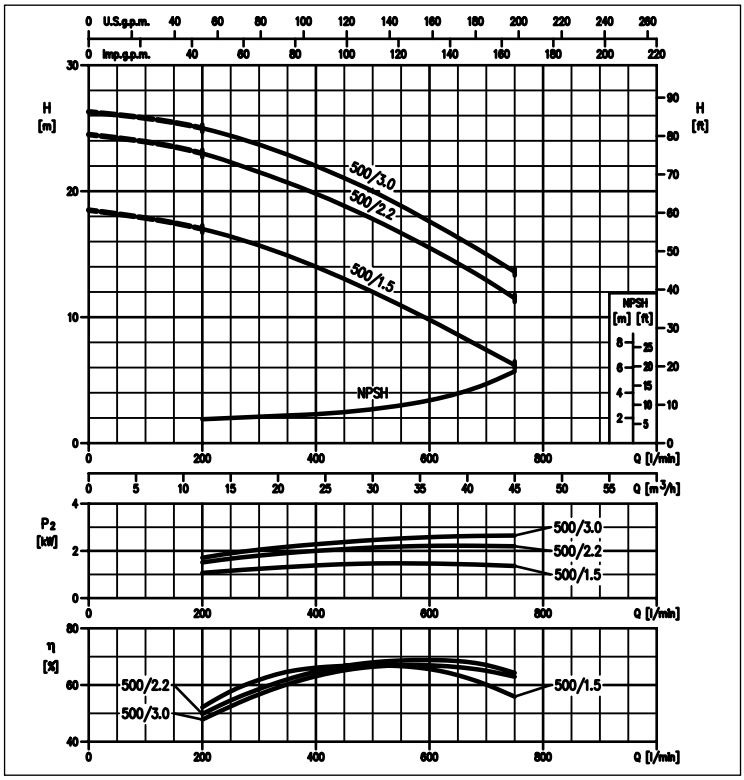
PERFORMANCE CURVES series DWC 300

(per ISO 9906 Annex A)

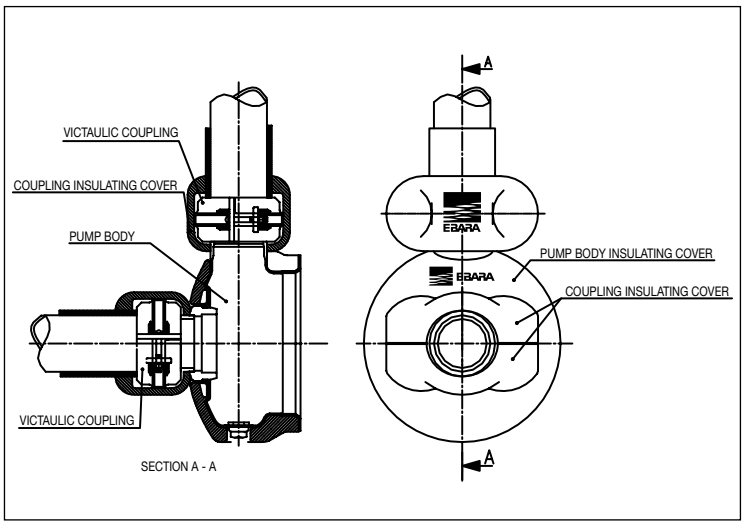


PERFORMANCE CURVES series DWC 500

(per ISO 9906 Annex A)



THERMAL INSULATION



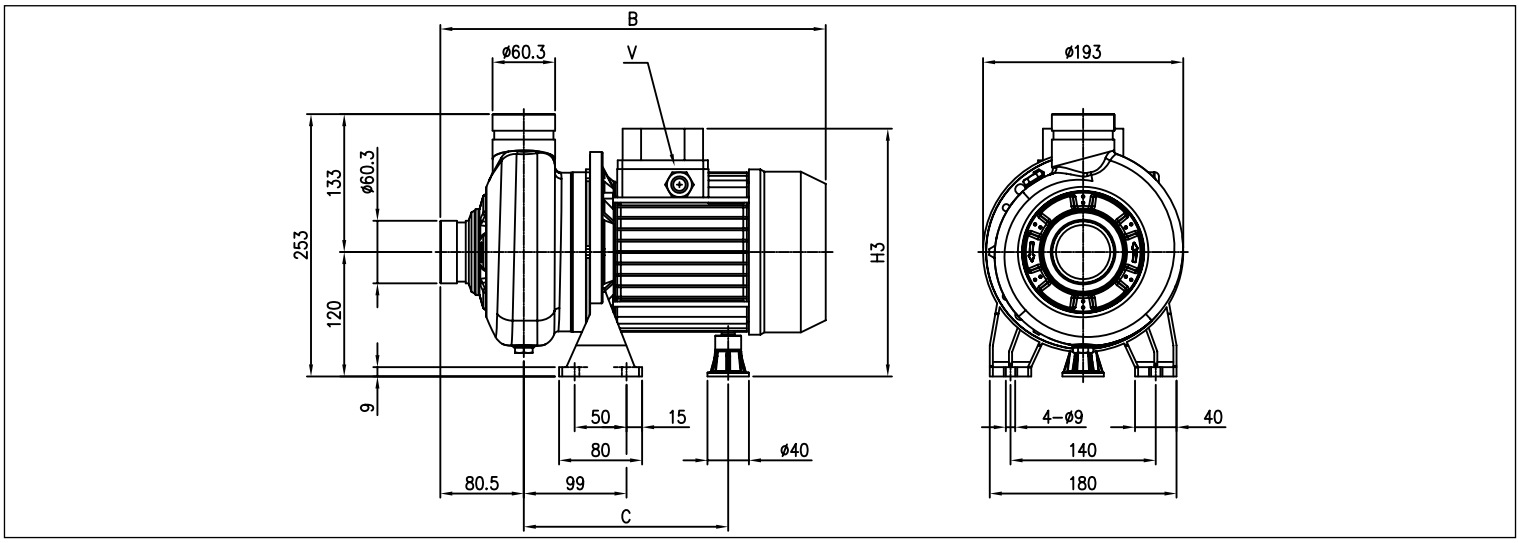
Model	Insulating cover pump body	Insulating cover coupling	Coupling Victaulic
DWC-V 300/1.1	Standard	On request	On request
DWC-V 300/1.5			
DWC-V 500/1.5			
DWC-V 500/2.2			
DWC-V 500/3.0			
DWC-N 300/1.1	On request	Not required	Not required
DWC-N 300/1.5			
DWC-N 500/1.5			
DWC-N 500/2.2			
DWC-N 500/3.0			

DWC

CLOSED IMPELLER ELECTRIC CENTRIFUGAL PUMPS

in AISI 304 stainless steel

DIMENSIONS DWC-V (VICTAULIC)

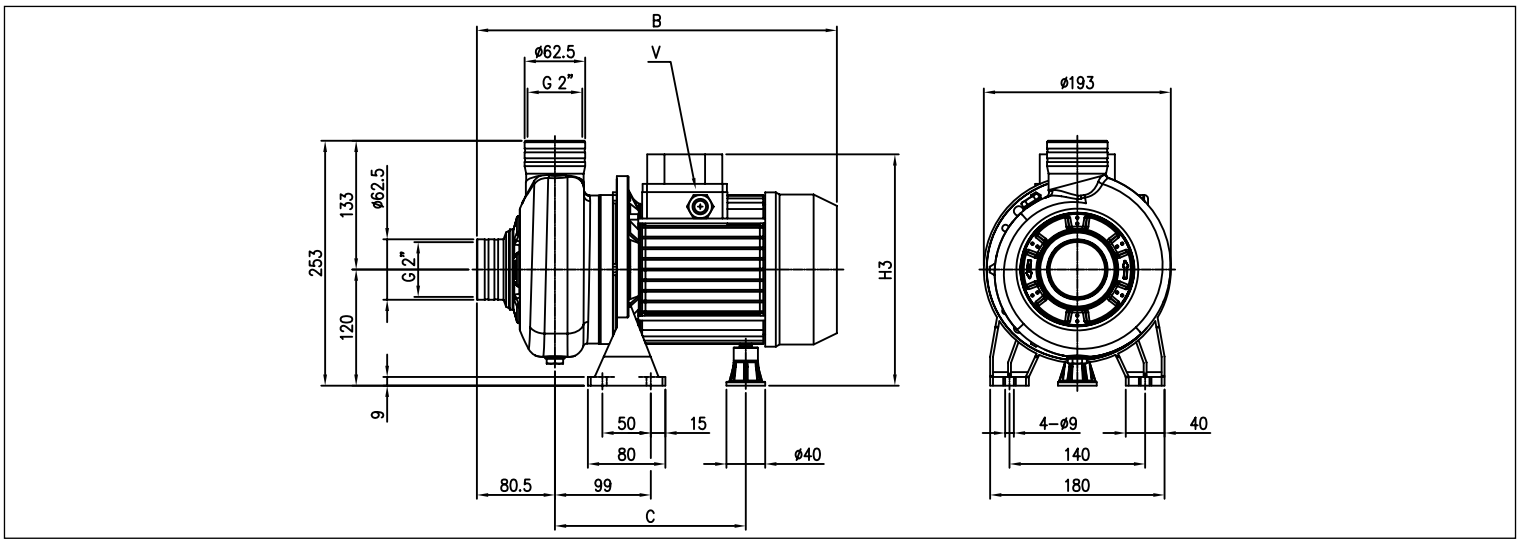


DIMENSIONS CHART

Model	Dimensions [mm]								Weight [kg]	
	B	B*	C	C*	H3	H3*	V	V*		*
DWC-V 300/1.1	372	397	197	197	239	239	PG11	M20x1.5	14.5	15.4
DWC-V 300/1.5	385	397.5	197	197	239	239	PG11	M20x1.5	16.0	16.9
DWC-V 500/1.5	385	397.5	197	197	239	239	PG11	M20x1.5	17.0	17.9
DWC-V 500/2.2	418	396.5	230 - 241	197	244	239	PG13.5	M20x1.5	20.3	20.3
DWC-V 500/3.0	457	457	230 - 241	230 - 241	244	244	PG13.5	M20x1.5	22.3	22.3

* Models with IE3 motor only

DIMENSIONS DWC-N (THREADED)



DIMENSIONS CHART

Model	Dimensions [mm]								Weight [kg]	
	B	B*	C	C*	H3	H3*	V	V*		*
DWC-N 300/1.1	372	397	197	197	239	239	PG11	M20x1.5	14.5	15.4
DWC-N 300/1.5	385	397.5	197	197	239	239	PG11	M20x1.5	16.0	16.9
DWC-N 500/1.5	385	397.5	197	197	239	239	PG11	M20x1.5	16.5	17.4
DWC-N 500/2.2	418	396.5	230 - 241	197	244	239	PG13.5	M20x1.5	20.3	20.3
DWC-N 500/3.0	457	457	230 - 241	230 - 241	244	244	PG13.5	M20x1.5	22.3	22.3

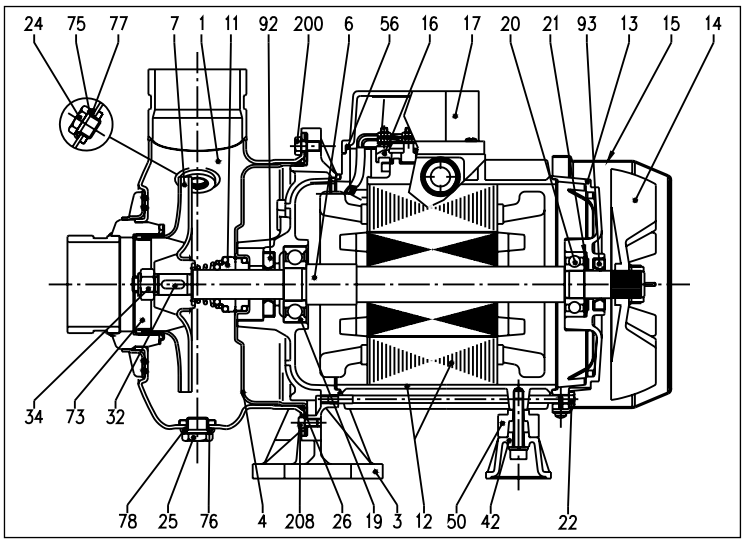
* Models with IE3 motor only

DWC

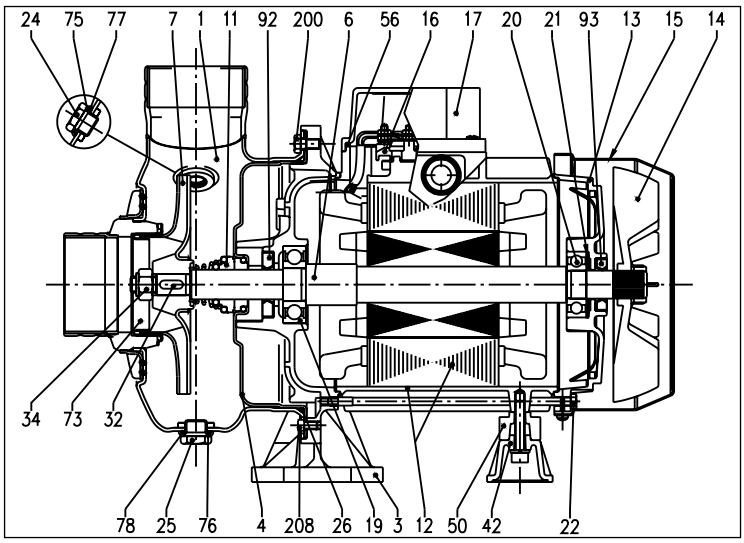
CLOSED IMPELLER ELECTRIC CENTRIFUGAL PUMPS

in AISI 304 stainless steel

SECTIONAL VIEW DWC-V (VICTAULIC)



SECTIONAL VIEW DWC-N (THREADED)



MATERIALS TABLE

Ref.	Name	Material	Ref.	Name	Material
1	Pump body	EN 1.4301 (AISI 304)	25	Drain cap	EN 1.4301 (AISI 304)
3	Motor mount	Aluminium	26	O-ring [1]	EPDM
4	Gasket disk	EN 1.4301 (AISI 304)	32	Key	EN 1.4401 (AISI 316)
6	Shaft	EN 1.4301 (AISI 304) Part in contact with fluid	34	Impeller nut	EN 1.4301 (AISI 304)
7	Impeller	EN 1.4301 (AISI 304)	42	Foot	Aluminium / Galvanised steel
11	Mechanical seal	Ceramic/Carbon/EPDM	50	Spacer	-
12	Motor casing	-	56	Terminal block cover gaskets	NBR
13	Motor cover	Aluminium	73	Clearance ring	EN 1.4301 (AISI 304)
14	Fan	PA	75	Washer	EN 1.4301 (AISI 304)
15	Fan cover	Fe P04 galvanised	76	Washer	EN 1.4301 (AISI 304)
16	Terminal block	-	77	O-ring [1]	EPDM
17	Terminal block box	Aluminium	78	O-ring [1]	EPDM
19	Bearing (pump side)	-	92	Seal ring	-
20	Bearing (motor side)	-	93	Seal ring	-
21	Compensator ring	C70 steel	200	Screw (pump body)	A2-70 stainless steel class ISO 3506/1
22	Linkage	Fe 42 galvanised	208	Bolt	A2-70 stainless steel class ISO 3506/1
24	Filler cap	EN 1.4301 (AISI 304)			

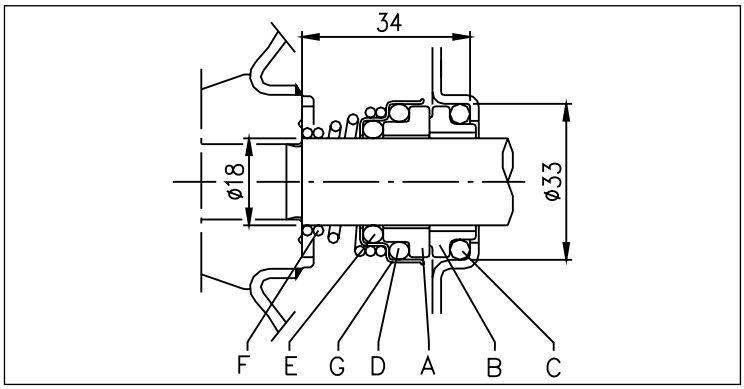
[1]= FKM for versions H-HS-HW-HSW

DWC

CLOSED IMPELLER ELECTRIC CENTRIFUGAL PUMPS

in AISI 304 stainless steel

MECHANICAL SEAL standard



MATERIALS TABLE

Ref.	Name	Material
A	Rotary section	Ceramic
B	Fixed section	Carbon
C	O-ring	EPDM
D	O-ring	EPDM
E	O-ring	EPDM
F	Spring	AISI 316
G	Structure/frame	AISI 304

SPECIAL MECHANICAL SEALS (on request)

Ref.	Name	Material			
		Version H	Version HS	Version HW	Version HSW
A	Rotary section	Ceramic	SiC	Tungsten carbide	SiC
B	Fixed section	Carbon	SiC	Tungsten carbide	Tungsten carbide
C	O-ring	FKM	FKM	FKM	FKM
D	O-ring	FKM	FKM	FKM	FKM
E	O-ring	FKM	FKM	FKM	FKM
F	Spring	AISI 316	AISI 316	AISI 316	AISI 316
G	Structure/frame	AISI 304	AISI 316	AISI 316	AISI 316

Ref.	Name	Material				
		Version Q1AVGG	Version AQ1EGG	Version VAEGG	Version Q1U3EGG	Version U3BEGG
A	Rotary section	SiC	Metallised carbon	Ceramic	SiC	Tungsten carbide
B	Fixed section	Metallised carbon	SiC	Metallised carbon	Tungsten carbide	Graphite
C	O-ring	FKM	EPDM	EPDM	EPDM	EPDM
D	O-ring	FKM	EPDM	EPDM	EPDM	EPDM
E	O-ring	FKM	EPDM	EPDM	EPDM	EPDM
F	Spring	AISI 316	AISI 316	AISI 316	AISI 316	AISI 316
G	Structure/frame	AISI 316	AISI 316	AISI 316	AISI 316	AISI 316

ELECTRICAL DATA TABLE

Model Three phase 230/400V	P_2		Efficiency	Efficiency (%) Three phase η %			P_1	Absorbed current [A] Three phase	
	[HP]	[kW]	Three phase	50%	75%	100%	Three phase [kW]	230V	400V
DWC 300/1.1	1.5	1.1	IE2	79.7	82.5	83.0	1.80	5.5	3.2
	1.5	1.1	IE3	83.0	85.8	85.6	1.77	5.8	3.3
DWC 300/1.5	2	1.5	IE2	78.6	83.0	84.2	1.78	6.3	3.7
	2	1.5	IE3	82.7	86.1	87.0	1.72	6.6	3.8
DWC 500/1.5	2	1.5	IE2	78.6	83.0	84.2	1.78	6.3	3.7
	2	1.5	IE3	82.7	86.1	87.0	1.72	6.6	3.8
DWC 500/2.2	3	2.2	IE2	83.1	85.7	86.2	2.55	7.8	4.5
	3	2.2	IE3	86.2	87.0	86.0	2.55	8.2	4.7
DWC 500/3.0	4	3	IE2	85.0	86.7	86.3	3.48	10.6	6.1
	4	3	IE3	85.9	87.5	87.1	3.44	11.1	6.4

NOISE DATA TABLE

Model Three phase 230/400V	P_2		L_{pA} - dB(A)*
	[HP]	[kW]	
DWC 300/1.1	1.5	1.1	<70
DWC 300/1.5	2	1.5	
DWC 500/1.5	2	1.5	<70
DWC 500/2.2	3	2.2	
DWC 500/3.0	4	3	

* Mean noise level measured at 1 m from the electric pump.
Tolerance ± 2.5 dB.

3 - 3L SERIES (4 POLES)

CENTRIFUGAL ELECTRIC PUMPS STANDARDISED IN COMPLIANCE WITH EN 733 (EX DIN 24255)

Normalised centrifugal electric pumps constructed in AISI 304 (3 SERIES) and AISI 316L (3L SERIES).

APPLICATIONS
- Water supply in civil, agricultural and industrial installations
- Pressurisation
- Fire, heating and air conditioning systems
- Industrial fluid handling
- Irrigation
- Cooling towers
- Swimming pools
- Drainage
- Washing systems

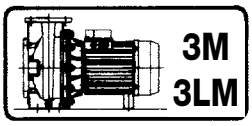
TECHNICAL FEATURES
- Robust construction
- Hydroformed volute

PUMP TECHNICAL DATA
- Maximum operating pressure: 10 bar
- Fluid temperature:
  -10°C - +90°C
  -10°C - +110°C (versions L-H-HS-HW-HSW)
  -20°C - +120°C (versions E-ES)
- MEI > 0.4
  For further information, refer to our Data Book on www.ebaraeurope.com

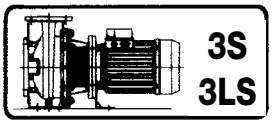
MOTOR TECHNICAL DATA
- High efficiency motors
  IE2 for powers 0.75kW to 5.5kW
  IE3 for powers 0.75kW (from 7.5kW for 3M(L)4)
- 4 poles self-ventilating asynchronous motors
- Insulation class F (B for high temperatures)
- Protection rating IP 55
- Single phase voltage 230V ±10% 50Hz, three phase voltage 230/400V ±10% (up to and including 4kW), 50Hz, three phase voltage 400/690V ±10% (5.5 kW and above), 50Hz
- Protection to be provided by the user

MATERIALS
- Pump body and seal disk in:
  - AISI 304 for 3 SERIES: 32-125/160/200, 40-125/160/200, 50-125/160/200, 65-125/160/200
  - AISI 316L for 3L SERIES: 32-125/160/200, 40-125/160/200, 50-125/160/200, 65-125/160/200
  - AISI 316 microcast for SERIE 3L: 65-250, 80-160/200/250
- Impeller in:
  - AISI 304 for 3 SERIES: 32-125/160/200, 40-125/160/200, 50-125/160/200
  - AISI 316L for 3L SERIES: 32-125/160/200, 40-125/160/200, 50-125/160/200
  - AISI 316 microcast for 3 SERIES: 65-125/160/200; 3L SERIES: 65-125/160/200, 65-250, 80-160/200/250
- Standard mechanical seal in:
  - Carbon/Ceramic/NBR for 3 SERIES
  - SiC/SiC/FKM for 3L SERIES
  - special mechanical seals available on request, see page 43

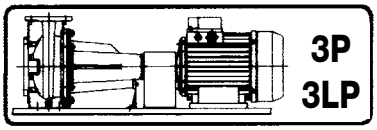
Available in 4 versions with 4 poles motors



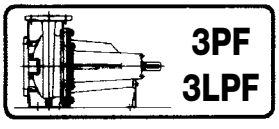
Monobloc with extended motor shaft



Monobloc with standard motor and rigid coupling



On basement, with standard motor and elastic coupling



Pumps with bare shaft

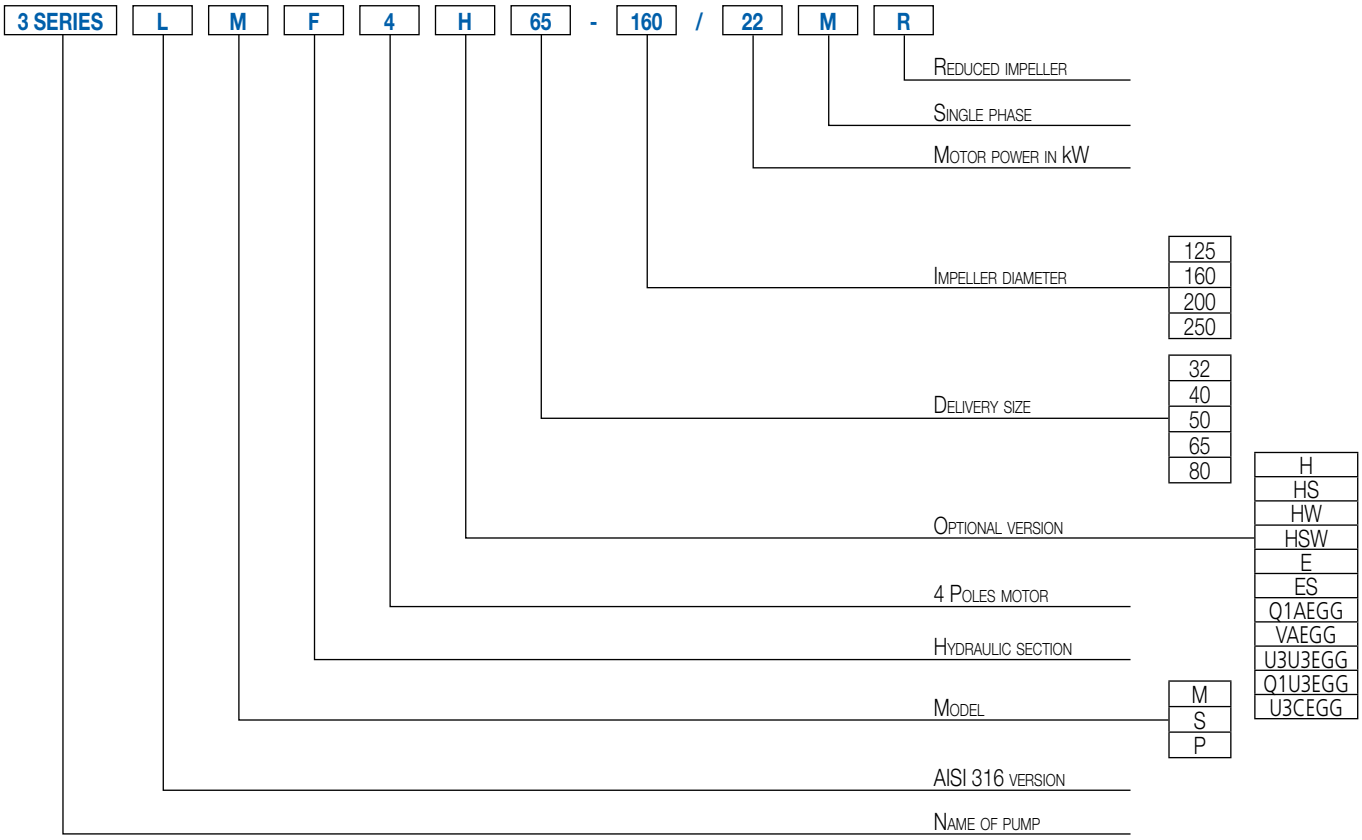
SPECIAL VERSIONS
- 3Z SERIES: electric pump complete with rotary bracket and body without foot.

ACCESSORIES (on request)
- Counterflanges available in the following materials:
  - galvanised
  - AISI 304
  - AISI 316

3 - 3L SERIES (4 POLES)

CENTRIFUGAL ELECTRIC PUMPS STANDARDISED IN COMPLIANCE WITH EN 733 (EX DIN 24255)

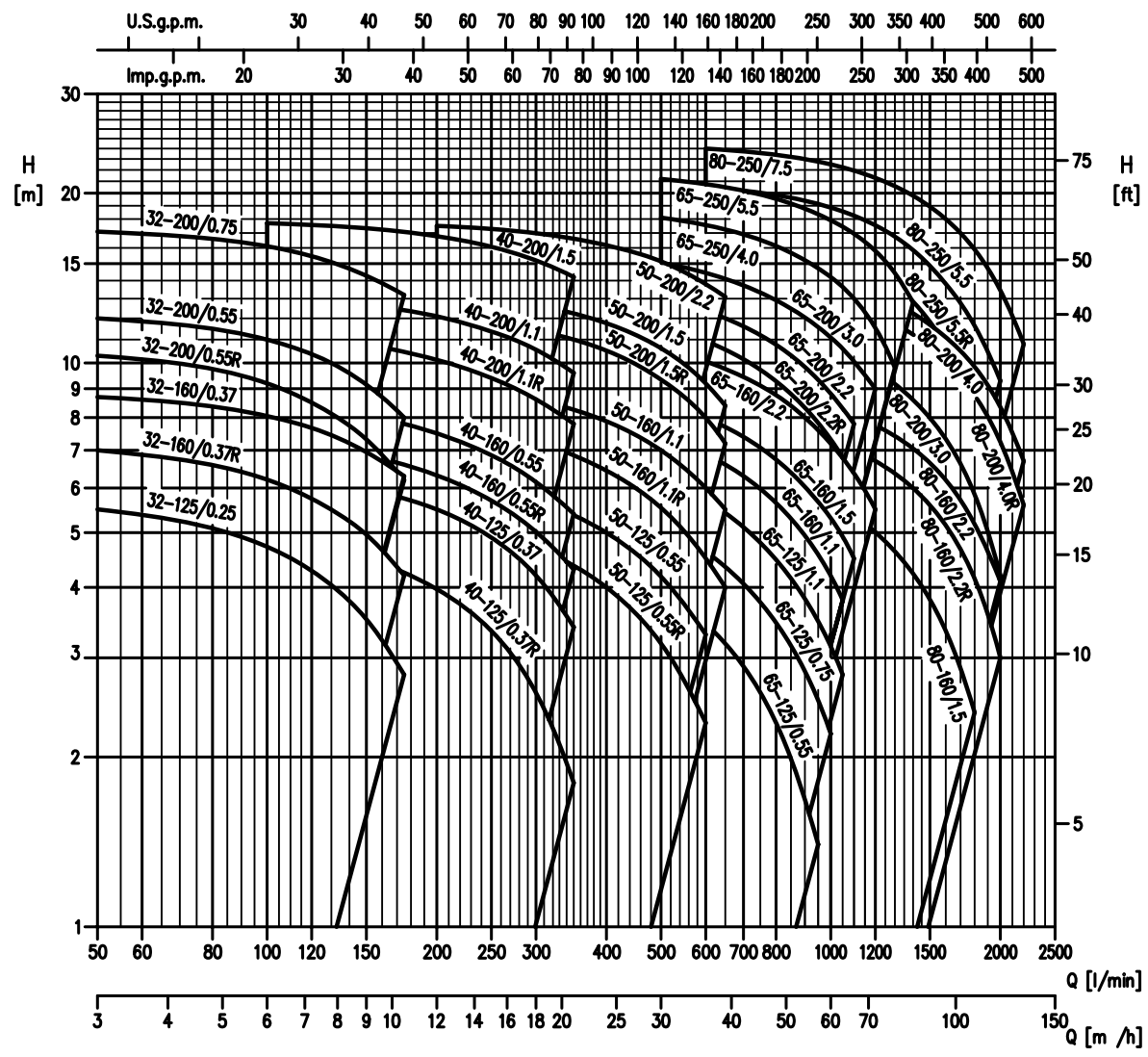
IDENTIFICATION CODE - 4 Poles



3 - 3L SERIES (4 POLES)

CENTRIFUGAL ELECTRIC PUMPS STANDARDISED IN COMPLIANCE WITH EN 733 (EX DIN 24255)

PERFORMANCE RANGE 3(L) SERIES at 1450 rpm (per ISO 9906 Annex A) **4 Poles**



	Versions	3M4	3S4	3P4	3LM4	3LS4	3LP4
Pump	32-125	■	■	■	●	●	●
	32-160	■	■	■	●	●	●
	32-200	■	■	■	●	●	●
	40-125	■	■	■	●	●	●
	40-160	■	■	■	●	●	●
	40-200	■	■	■	●	●	●
	50-125	■	■	■	●	●	●
	50-160	■	■	■	●	●	●
	50-200	■	■	■	●	●	●
	65-125	■	■	■	●	●	●
	65-160	■	■	■	●	●	●
	65-200	■	■	■	●	●	●
	65-250	-	-	-	●	●	●
	80-160	-	-	-	●	●	●
	80-200	-	-	-	●	●	●
	80-250	-	-	-	●	●	●

■ = Models also available in the version H-HS-HW-HSW-E
● = Models also available in the version H-HW-HSW-E

3 - 3L SERIES (4 POLES)

CENTRIFUGAL ELECTRIC PUMPS STANDARDISED IN COMPLIANCE WITH EN 733 (EX DIN 24255)

PERFORMANCE TABLE 32-40-50

4 Poles

Model	P_2		Q=Flow rate											
	[HP]	[kW]	l/min 50	100	150	175	200	250	300	350	400	500	600	650
			m^3/h 3	6	9	10.5	12	15	18	21	24	30	36	39
			H=Head (m)											
32-125/0.25	0.33	0.25	5.5	4.7	3.5	2.8	-	-	-	-	-	-	-	-
32-160/0.37R	0.5	0.37	7.0	6.2	5.0	4.2	-	-	-	-	-	-	-	-
32-160/0.37	0.5	0.37	8.7	8.1	7.0	6.3	-	-	-	-	-	-	-	-
32-200/0.55R	0.75	0.55	10.3	9.2	7.3	6.2	-	-	-	-	-	-	-	-
32-200/0.55	0.75	0.55	12.0	11.0	9.2	8.0	-	-	-	-	-	-	-	-
32-200/0.75	1	0.75	17.1	16.1	14.3	13.2	-	-	-	-	-	-	-	-
40-125/0.37R	0.5	0.37	-	4.8	4.5	4.3	4.0	3.4	2.6	1.8	-	-	-	-
40-125/0.37	0.5	0.37	-	6.3	6.0	5.8	5.5	4.9	4.2	3.4	-	-	-	-
40-160/0.55R	0.75	0.55	-	7.3	6.9	6.6	6.3	5.7	5.0	4.3	-	-	-	-
40-160/0.55	0.75	0.55	-	8.6	8.1	7.8	7.5	6.9	6.2	5.4	-	-	-	-
40-200/1.1R	1.5	1.1	-	11.2	10.8	10.5	10.1	9.4	8.6	7.8	-	-	-	-
40-200/1.1	1.5	1.1	-	13.2	12.7	12.4	12.1	11.4	10.6	9.6	-	-	-	-
40-200/1.5	2	1.5	-	17.7	17.3	17.1	16.8	16.1	15.2	14.2	-	-	-	-
50-125/0.55R	0.75	0.55	-	-	-	-	5.2	5.0	4.7	4.4	4.0	3.2	2.3	-
50-125/0.55	0.75	0.55	-	-	-	-	6.2	6.0	5.7	5.4	5.0	4.2	3.3	-
50-160/1.1R	1.5	1.1	-	-	-	-	7.8	7.6	7.2	6.9	6.4	5.5	4.5	4.0
50-160/1.1	1.5	1.1	-	-	-	-	9.1	8.9	8.6	8.3	7.9	7.0	6.0	5.5
50-200/1.5R	2	1.5	-	-	-	-	12.1	11.8	11.4	11.0	10.5	9.3	8.0	7.2
50-200/1.5	2	1.5	-	-	-	-	13.3	13.0	12.7	12.2	11.8	10.6	9.2	8.4
50-200/2.2	3	2.2	-	-	-	-	17.5	17.3	17.0	16.6	16.2	15.1	13.8	13.1

PERFORMANCE TABLE 65-80

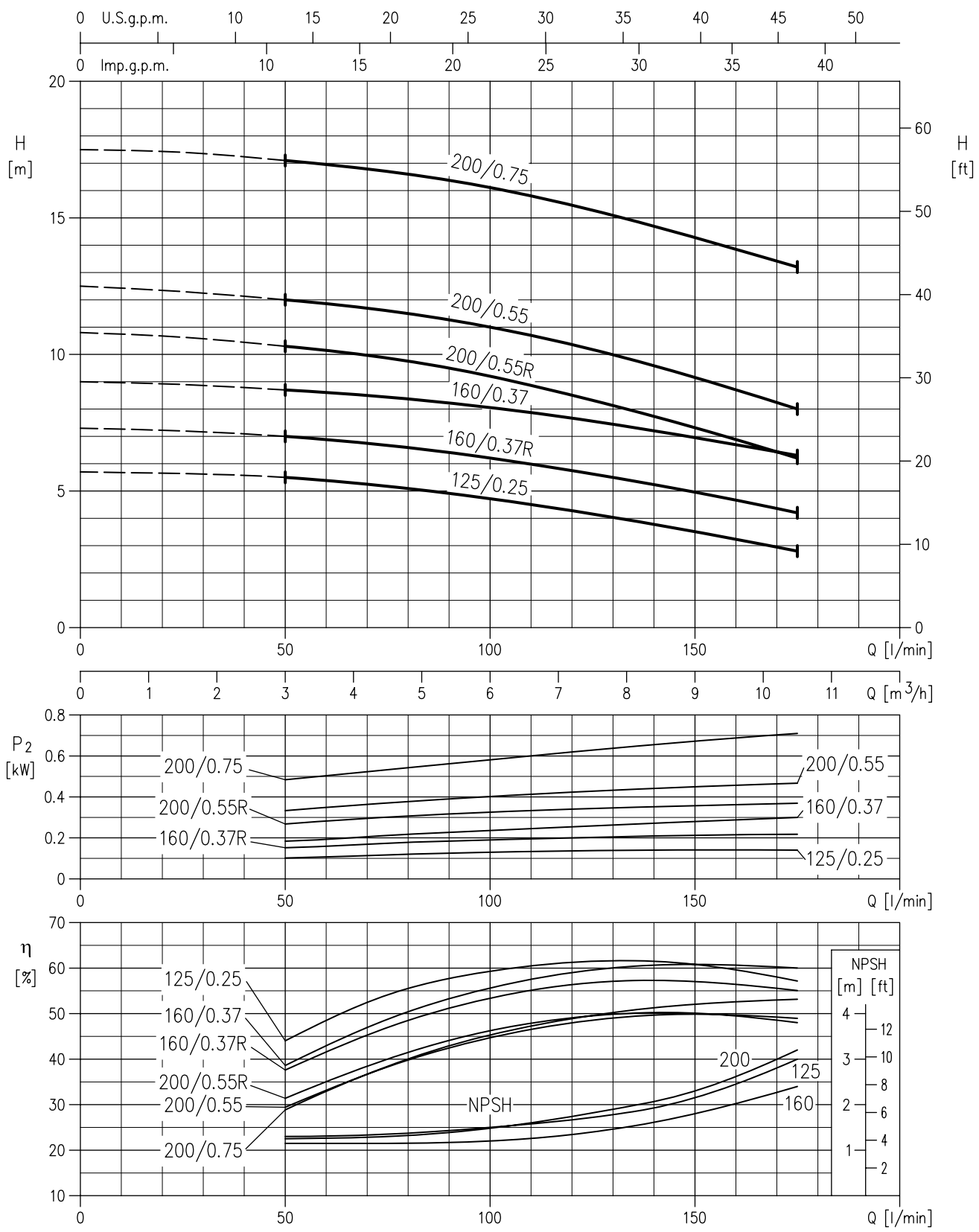
4 Poles

Model	P_2		Q=Flow rate															
	[HP]	[kW]	l/min 300	350	500	600	800	950	1000	1050	1100	1200	1300	1400	1600	1800	2000	2200
			m^3/h 18	21	30	36	48	57	60	63	66	72	78	84	96	108	120	132
			H=Head (m)															
65-125/0.55	0.75	0.55	4.8	4.6	4.0	3.5	2.3	1.4	-	-	-	-	-	-	-	-	-	-
65-125/0.75	1	0.75	6.0	5.8	5.2	4.6	3.5	2.5	2.2	-	-	-	-	-	-	-	-	-
65-125/1.1	1.5	1.1	7.2	7.0	6.3	5.7	4.5	3.5	3.2	2.8	-	-	-	-	-	-	-	-
65-160/1.1	1.5	1.1	-	8.1	7.4	6.9	5.7	4.6	4.2	3.8	-	-	-	-	-	-	-	-
65-160/1.5	2	1.5	-	9.2	8.5	8.0	6.7	5.7	5.3	4.9	4.5	-	-	-	-	-	-	-
65-160/2.2	3	2.2	-	11.3	10.6	10.1	8.8	7.6	7.2	6.8	6.4	5.5	-	-	-	-	-	-
65-200/2.2R	3	2.2	-	12.4	11.6	10.9	9.3	7.8	7.3	6.8	-	-	-	-	-	-	-	-
65-200/2.2	3	2.2	-	13.9	13.0	12.4	10.8	9.3	8.8	8.3	7.8	-	-	-	-	-	-	-
65-200/3	4	3	-	15.8	15.1	14.4	12.9	11.6	11.1	10.6	10.1	9.0	-	-	-	-	-	-
65-250/4	5.5	4	-	-	18.1	17.6	16.1	14.7	14.2	13.7	13.0	11.6	9.8	-	-	-	-	-
65-250/5.5	7.5	5.5	-	-	21.2	20.8	19.6	18.4	17.9	17.5	17.0	15.8	14.4	12.8	-	-	-	-
80-160/1.5	2	1.5	-	-	-	6.8	6.3	5.9	5.7	5.6	5.4	5.0	4.6	4.2	3.4	2.4	-	-
80-160/2.2R	3	2.2	-	-	-	8.1	7.8	7.4	7.3	7.1	7.0	6.7	6.4	6.0	5.2	4.2	3.0	-
80-160/2.2	3	2.2	-	-	-	9.1	8.8	8.4	8.3	8.2	8.0	7.8	7.4	7.1	6.2	5.2	4.1	-
80-200/3	4	3	-	-	-	12.0	11.5	10.9	10.7	10.4	10.2	9.7	9.2	8.6	7.3	5.9	4.2	-
80-200/4R	5.5	4	-	-	-	14.4	13.9	13.4	13.2	12.9	12.7	12.2	11.7	11.2	10.1	8.8	7.2	5.6
80-200/4	5.5	4	-	-	-	15.4	14.9	14.3	14.1	13.9	13.7	13.2	12.8	12.3	11.1	9.9	8.4	6.7
80-250/5.5R	7.5	5.5	-	-	-	17.7	17.0	16.3	16.0	15.7	15.4	14.6	13.8	12.9	10.7	8.4	-	-
80-250/5.5	7.5	5.5	-	-	-	20.5	19.9	19.1	18.9	18.6	18.2	17.6	16.8	15.9	13.8	11.7	9.3	-
80-250/7.5	10	7.5	-	-	-	24.0	23.4	22.8	22.5	22.2	21.9	21.3	20.6	19.8	18.0	15.9	13.5	10.8

3 - 3L SERIES (4 POLES)

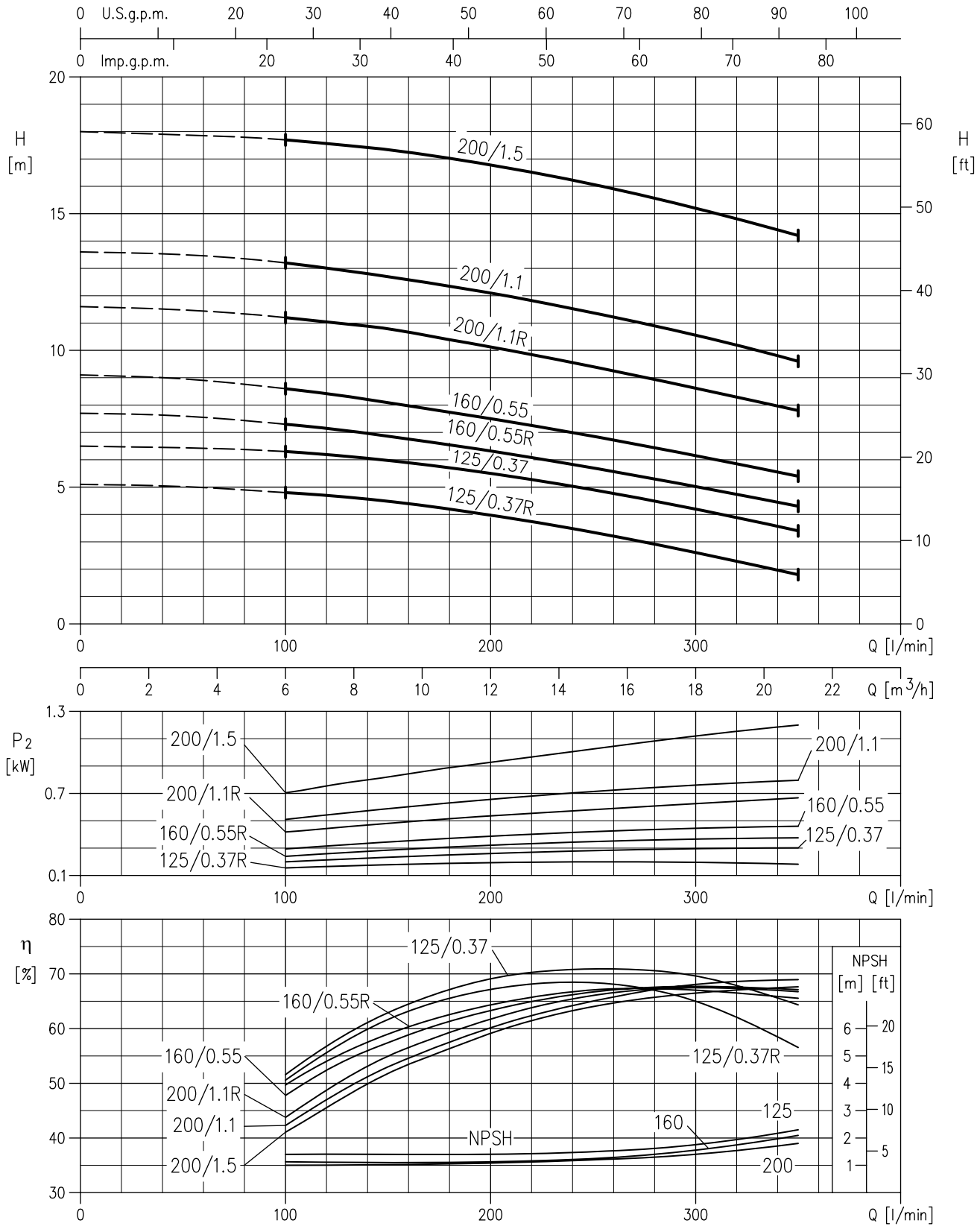
CENTRIFUGAL ELECTRIC PUMPS STANDARDISED IN COMPLIANCE WITH EN 733 (EX DIN 24255)

PERFORMANCE CURVES 3(L)M-3(L)S-3(L)P 32 at 1450 rpm (per ISO 9906 Annex A) **4 Poles**



CENTRIFUGAL ELECTRIC PUMPS STANDARDISED IN COMPLIANCE WITH EN 733 (EX DIN 24255)

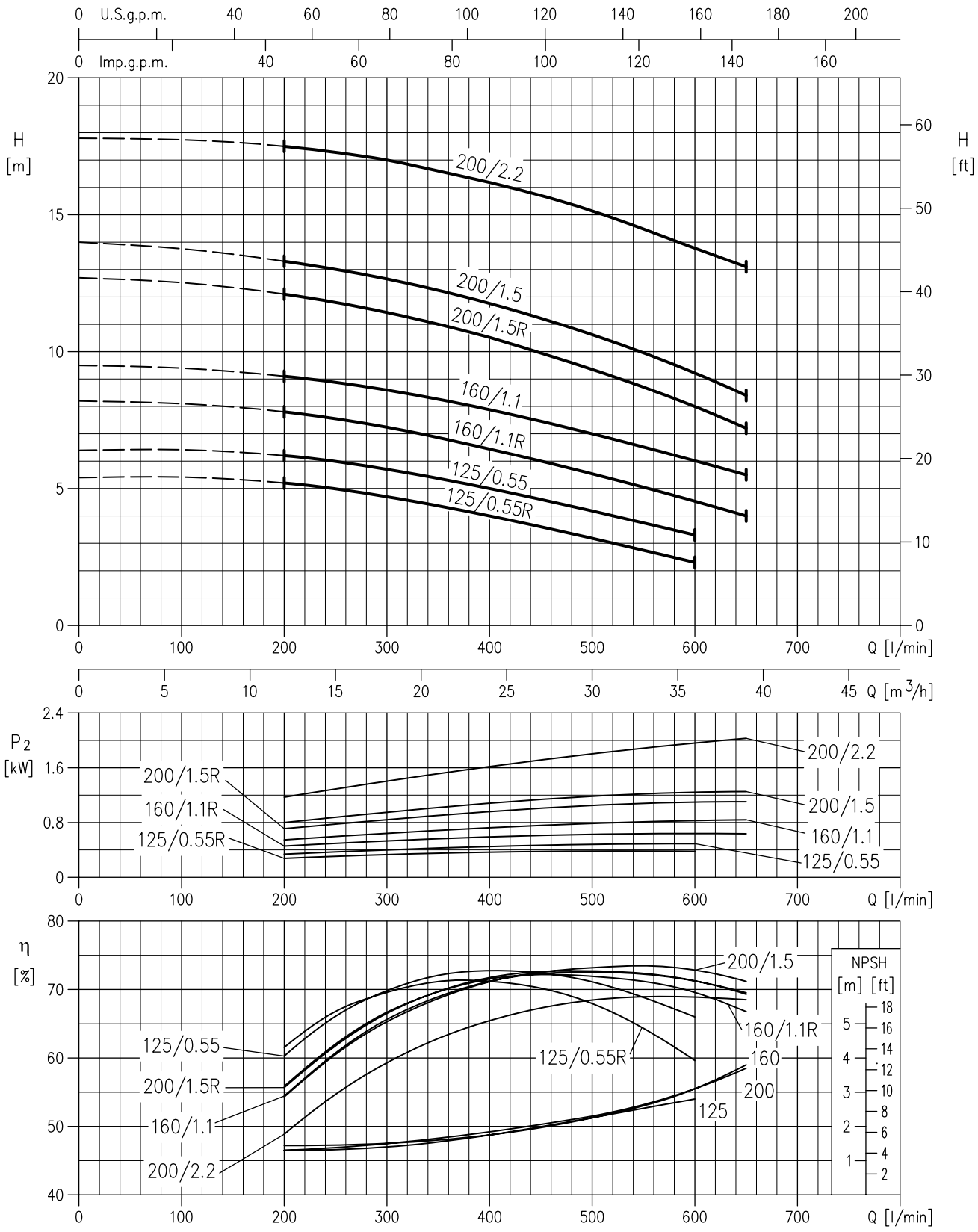
PERFORMANCE CURVES 3(L)M-3(L)S-3(L)P 40 at 1450 rpm (per ISO 9906 Annex A) **4 Poles**



3 - 3L SERIES (4 POLES)

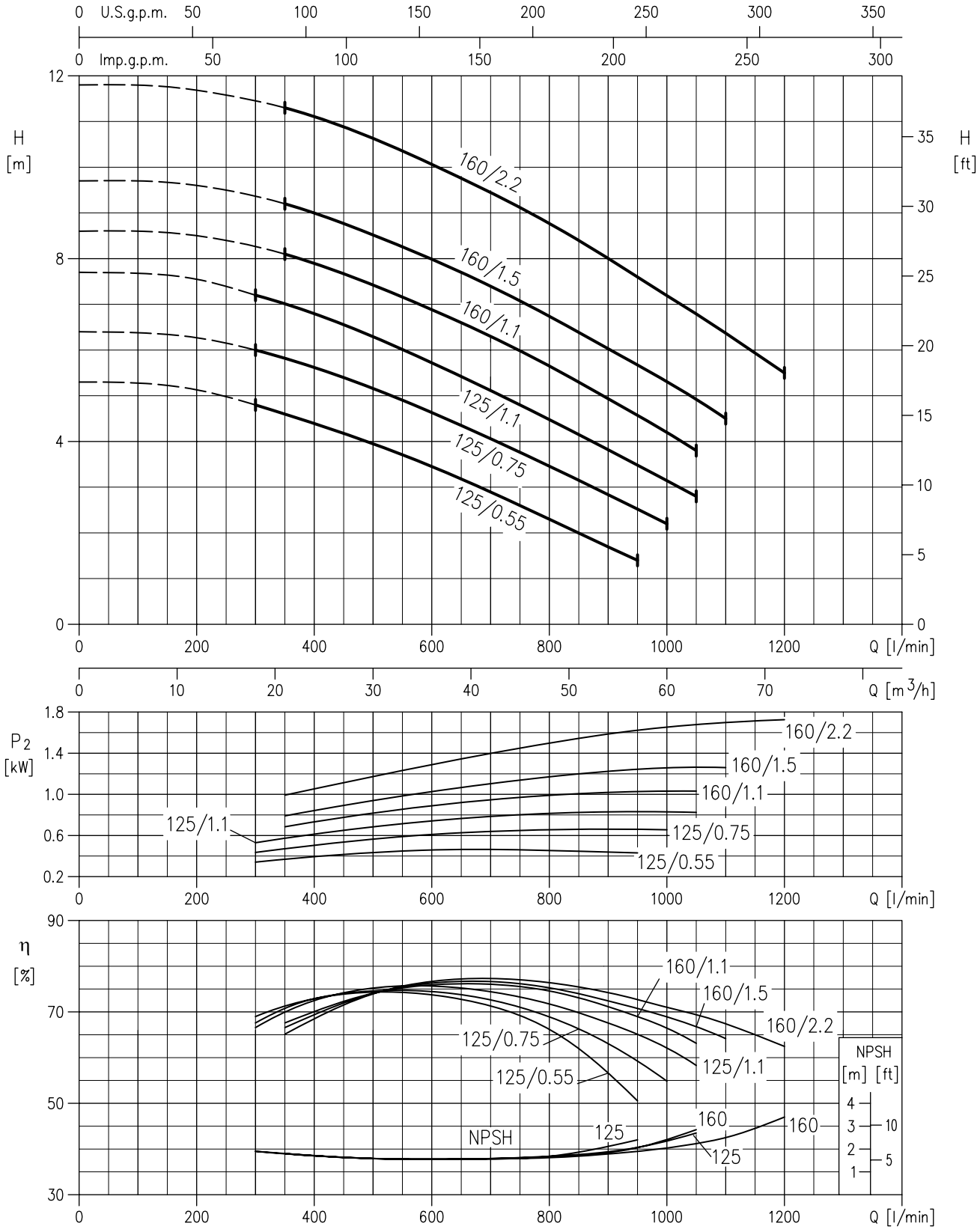
CENTRIFUGAL ELECTRIC PUMPS STANDARDISED IN COMPLIANCE WITH EN 733 (EX DIN 24255)

PERFORMANCE CURVES 3(L)M-3(L)S-3(L)P 50 at 1450 rpm (per ISO 9906 Annex A) **4 Poles**



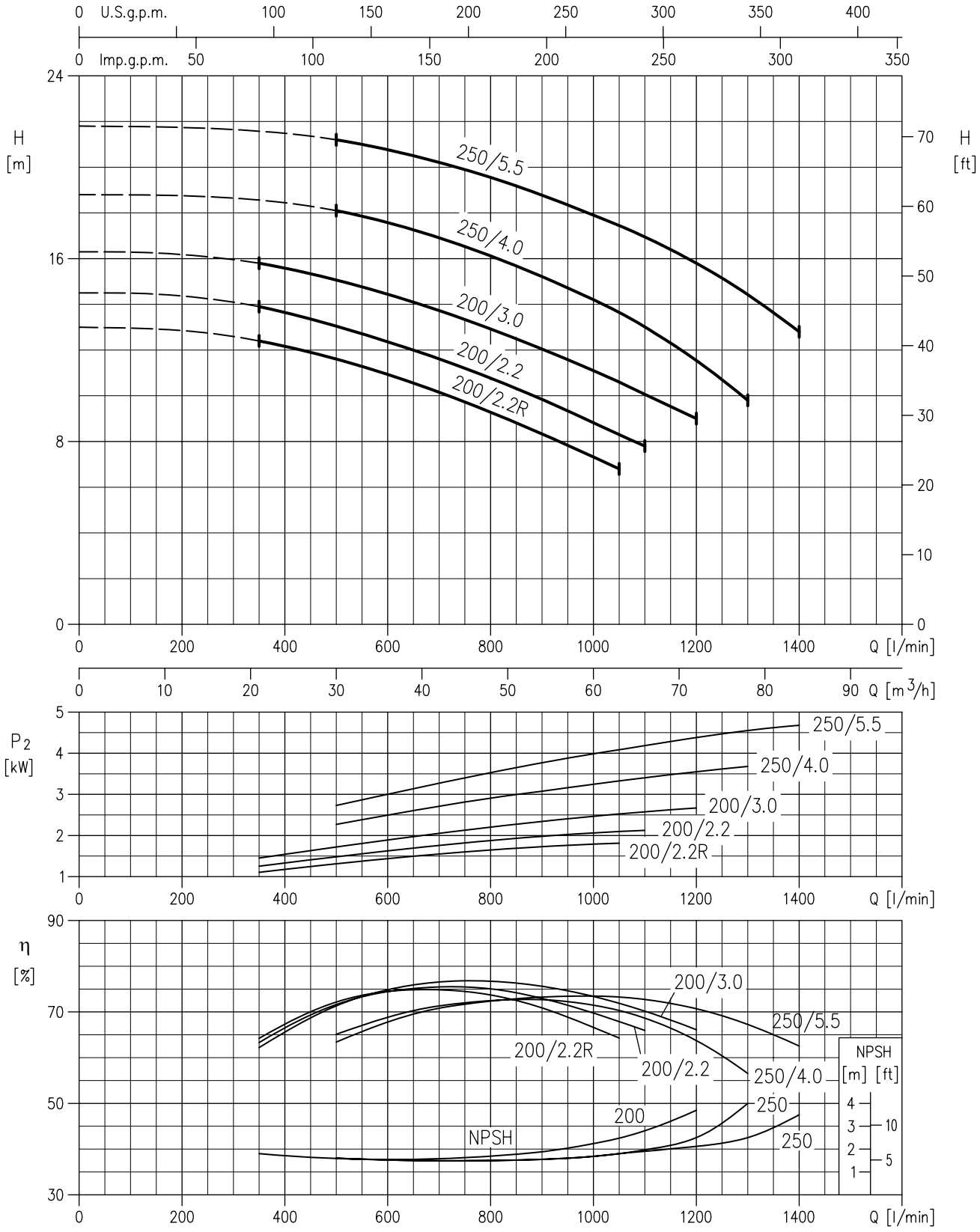
CENTRIFUGAL ELECTRIC PUMPS STANDARDISED IN COMPLIANCE WITH EN 733 (EX DIN 24255)

PERFORMANCE CURVES 3(L)M-3(L)S-3(L)P 65 at 1450 rpm (per ISO 9906 Annex A) **4 Poles**



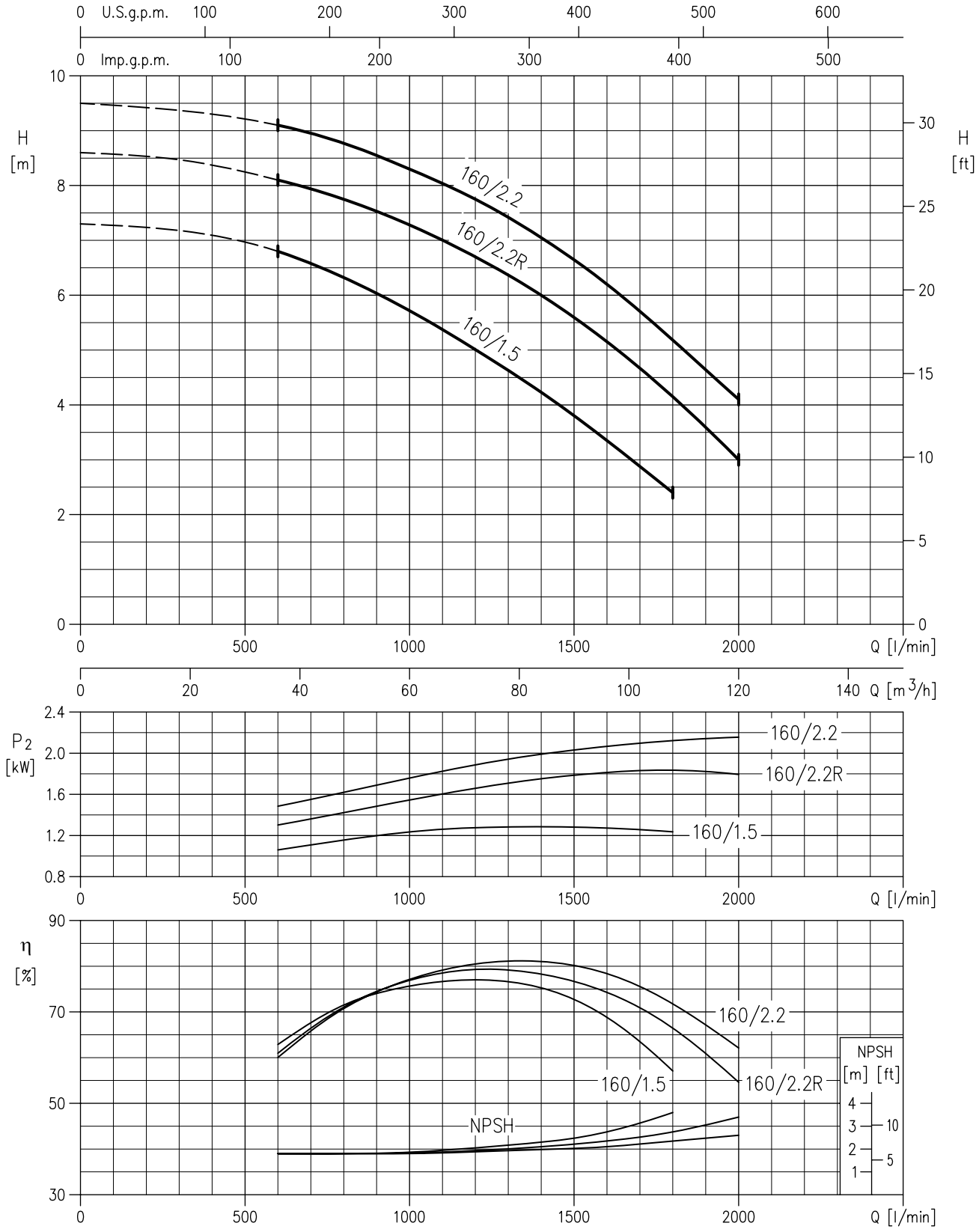
CENTRIFUGAL ELECTRIC PUMPS STANDARDISED IN COMPLIANCE WITH EN 733 (EX DIN 24255)

PERFORMANCE CURVES 3L 65 at 1450 rpm (per ISO 9906 Annex A) **4 Poles**



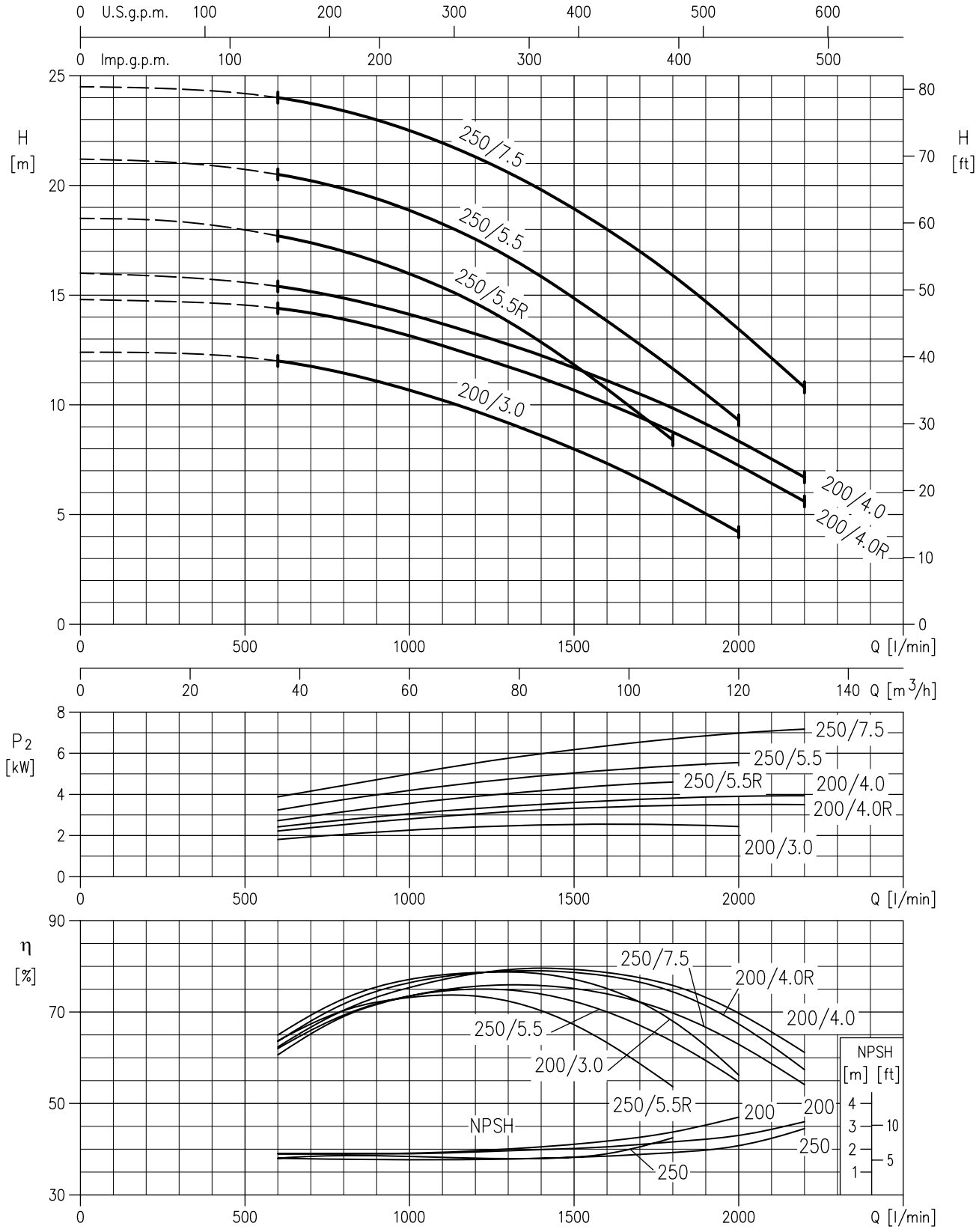
CENTRIFUGAL ELECTRIC PUMPS STANDARDISED IN COMPLIANCE WITH EN 733 (EX DIN 24255)

PERFORMANCE CURVES 3L 80 at 1450 rpm (per ISO 9906 Annex A) **4 Poles**



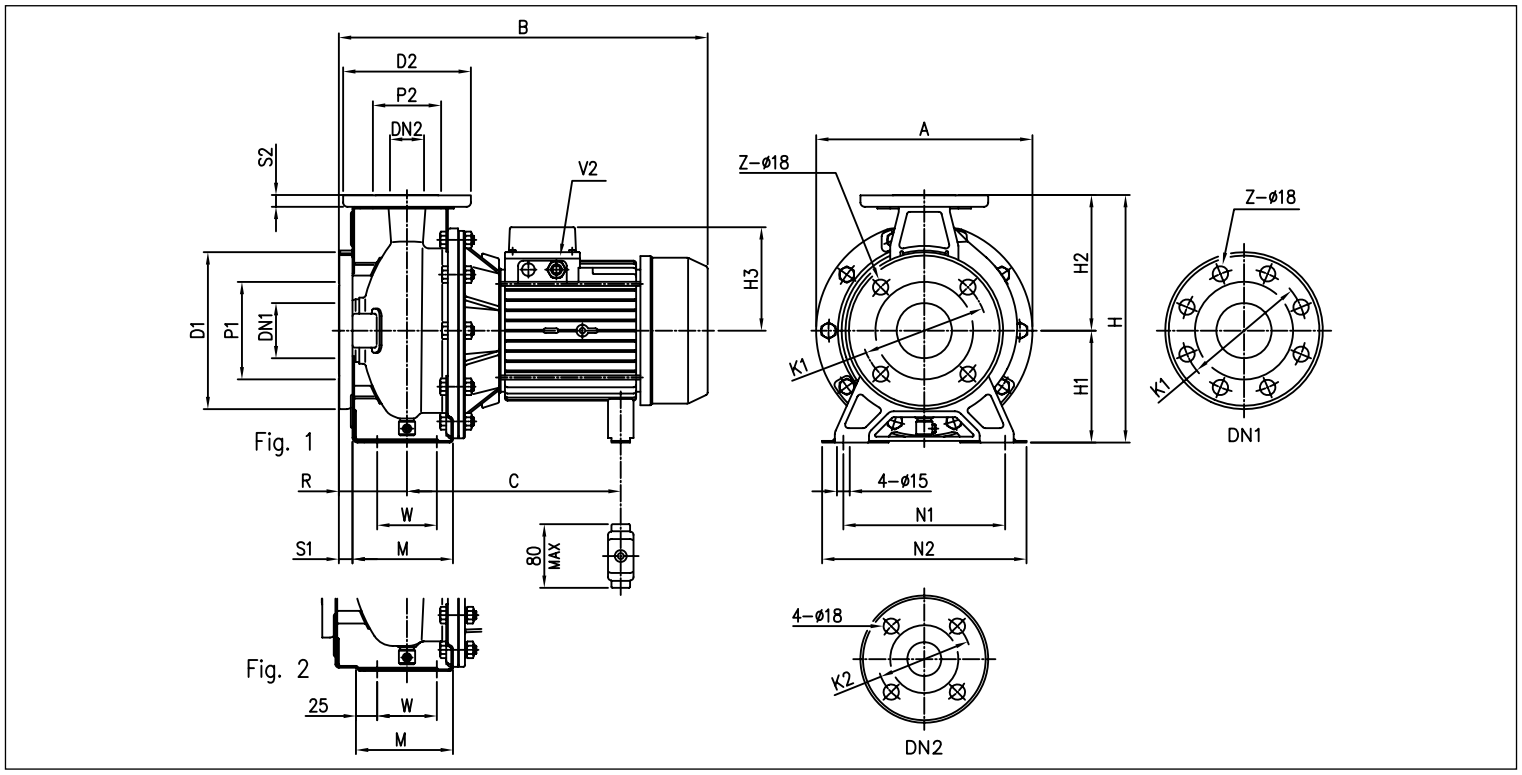
CENTRIFUGAL ELECTRIC PUMPS STANDARDISED IN COMPLIANCE WITH EN 733 (EX DIN 24255)

PERFORMANCE CURVES 3L 80 at 1450 rpm (per ISO 9906 Annex A) **4 Poles**



CENTRIFUGAL ELECTRIC PUMPS STANDARDISED IN COMPLIANCE WITH EN 733 (EX DIN 24255)

3(L)M4 32, 40, 50, 65-125/160/200 **4 Poles**



DIMENSIONS CHART

Model	Dimensions [mm]																										Weight [kg]
	DN1 Ø	P1 Ø	K1 Ø	D1 Ø	S1	Z [1]	Z [2]	DN2 Ø	P2 Ø	K2 Ø	D2 Ø	S2	Fig.	H	H1	H2	H3	R	W	M	N1	N2	A	B	C	V2	
32-125/0.25	50	95	125	165	16	4	-	32	75	100	140	14	1	252	112	140	102	80	70	114	140	190	213	371	205	PG 11	15.0
32-160/0.37R	50	95	125	165	16	4	-	32	75	100	140	14	1	292	132	160	119	80	70	118	190	240	254	393	219	PG 11	19.7
32-160/0.37	50	95	125	165	16	4	-	32	75	100	140	14	1	292	132	160	119	80	70	118	190	240	254	393	219	PG 11	19.9
32-200/0.55R	50	95	125	165	16	4	-	32	75	100	140	14	1	340	160	180	119	80	70	119	190	240	296	393	219	PG 11	24.5
32-200/0.55	50	95	125	165	16	4	-	32	75	100	140	14	1	340	160	180	119	80	70	119	190	240	296	393	219	PG 11	24.5
32-200/0.75	50	95	125	165	16	4	-	32	75	100	140	14	1	340	160	180	124	80	70	119	190	240	296	432	244 - 255	PG 13.5	28.1
40-125/0.37R	65	115	145	185	16	4	-	40	80	110	150	14	1	252	112	140	102	80	70	114	160	210	213	371	205	PG 11	15.6
40-125/0.37	65	115	145	185	16	4	-	40	80	110	150	14	1	252	112	140	102	80	70	114	160	210	213	371	205	PG 11	15.7
40-160/0.55R	65	115	145	185	16	4	-	40	80	110	150	14	1	292	132	160	119	80	70	118	190	240	254	393	219	PG 11	20.2
40-160/0.55	65	115	145	185	16	4	-	40	80	110	150	14	1	292	132	160	119	80	70	118	190	240	254	393	219	PG 11	20.6
40-200/1.1R	65	115	145	185	16	4	-	40	80	110	150	14	2	340	160	180	124	100	70	115	212	265	296	452	244 - 255	PG 13.5	28.5
40-200/1.1	65	115	145	185	16	4	-	40	80	110	150	14	2	340	160	180	124	100	70	115	212	265	296	452	244 - 255	PG 13.5	28.6
40-200/1.5	65	115	145	185	16	4	-	40	80	110	150	14	2	340	160	180	124	100	70	115	212	265	296	491	244 - 255	PG 13.5	30.3
50-125/0.55R	65	115	145	185	16	4	-	50	95	125	165	16	2	292	132	160	119	100	70	114	190	240	254	413	219	PG 11	20.4
50-125/0.55	65	115	145	185	16	4	-	50	95	125	165	16	2	292	132	160	119	100	70	114	190	240	254	413	219	PG 11	20.5
50-160/1.1R	65	115	145	185	16	4	-	50	95	125	165	16	2	340	160	180	124	100	70	115	212	265	296	452	244 - 255	PG 13.5	28.6
50-160/1.1	65	115	145	185	16	4	-	50	95	125	165	16	2	340	160	180	124	100	70	115	212	265	296	452	244 - 255	PG 13.5	28.7
50-200/1.5R	65	115	145	185	16	4	-	50	95	125	165	16	2	360	160	200	124	100	70	115	212	265	296	491	244 - 255	PG 13.5	30.5
50-200/1.5	65	115	145	185	16	4	-	50	95	125	165	16	2	360	160	200	124	100	70	115	212	265	296	491	244 - 255	PG 13.5	31.6
50-200/2.2	65	115	145	185	16	4	-	50	95	125	165	16	2	360	160	200	141	100	70	115	212	265	296	474	253	PG 16	30.0
65-125/0.55	80	134	160	200	18	8	4	65	115	145	185	16	2	340	160	180	119	100	95	140	212	280	254	413	219	PG 11	21.9
65-125/0.75	80	134	160	200	18	8	4	65	115	145	185	16	2	340	160	180	124	100	95	140	212	280	254	452	244 - 255	PG 13.5	20.0
65-125/1.1	80	134	160	200	18	8	4	65	115	145	185	16	2	340	160	180	124	100	95	140	212	280	254	452	244 - 255	PG 13.5	20.0
65-160/1.1	80	134	160	200	18	8	4	65	115	145	185	16	2	360	160	200	124	100	95	140	212	280	296	452	244 - 255	PG 13.5	28.5
65-160/1.5	80	134	160	200	18	8	4	65	115	145	185	16	2	360	160	200	124	100	95	140	212	280	296	491	244 - 255	PG 13.5	30.0
65-160/2.2	80	134	160	200	18	8	4	65	115	145	185	16	2	360	160	200	141	100	95	140	212	280	296	474	253	PG 16	32.0
65-200/2.2R	80	134	160	200	18	8	4	65	115	145	185	16	2	405	180	225	141	100	95	140	250	320	296	474	253	PG 16	30.0
65-200/2.2	80	134	160	200	18	8	4	65	115	145	185	16	2	405	180	225	141	100	95	140	250	320	296	474	253	PG 16	30.0
65-200/3	80	134	160	200	18	8	4	65	115	145	185	16	2	405	180	225	141	100	95	140	250	320	296	514	253	PG 16	38.0

[1] Standard
[2] On request

3 - 3L SERIES (4 POLES)

CENTRIFUGAL ELECTRIC PUMPS STANDARDISED IN COMPLIANCE WITH EN 733 (EX DIN 24255)

3(L)M4 65-250, 80-160/200, 80-250/5.5 **4 Poles**

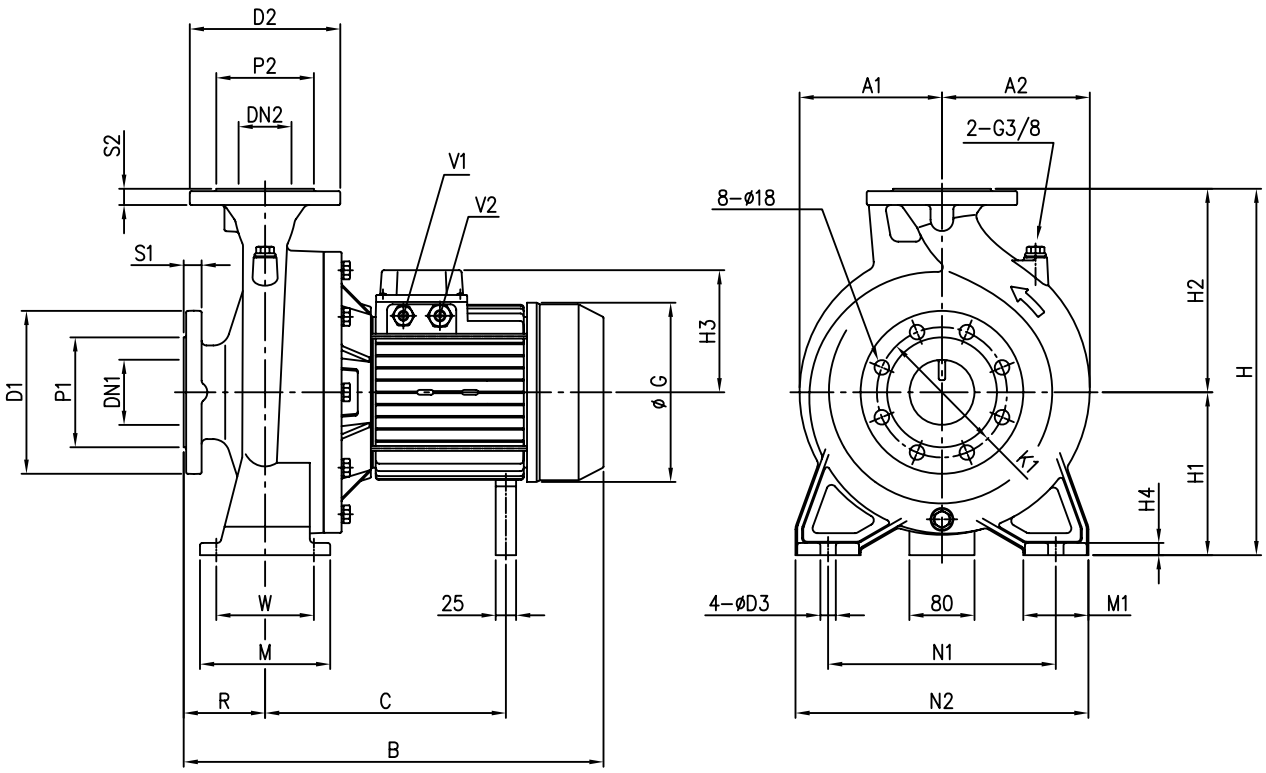


Fig. 1

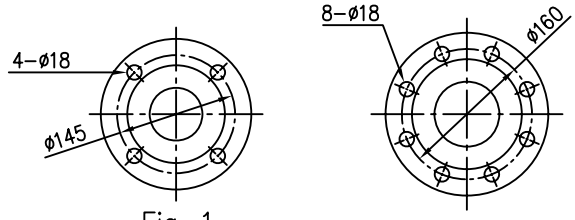


Fig. 2

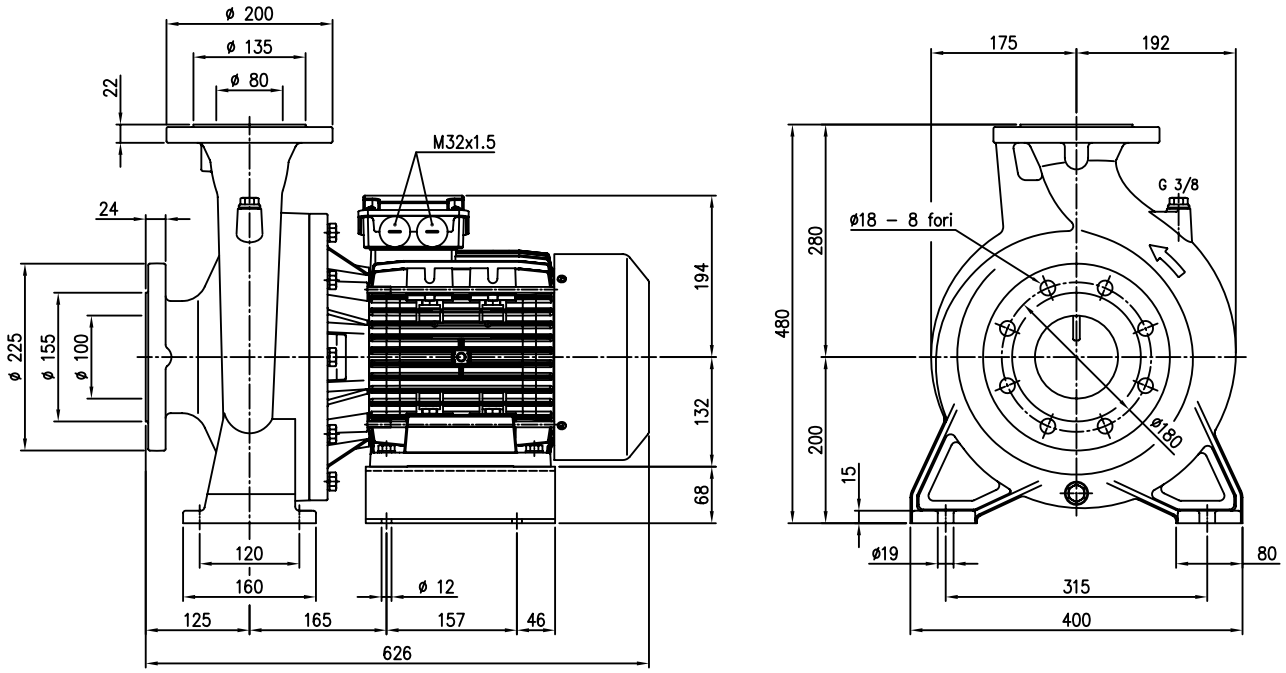
DIMENSIONS CHART

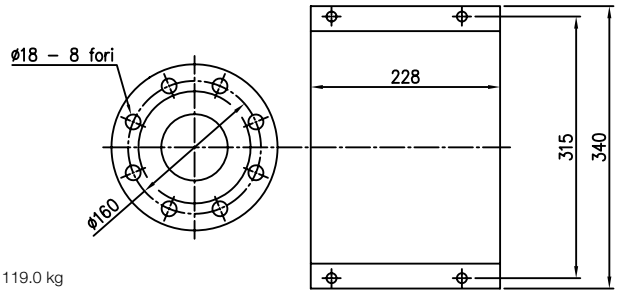
Model	Dimensions [mm]																												Weight [kg]
	DN1	P1	K1	D1	S1	DN2	P2	D2	S2	H	H1	H2	H3	H4	R	W	N1	N2	M	M1	A1	A2	B	C	G	D3	V1	V2	
65-250/4	80	135	160	200	22	65 Fig. 1	120	185	20	450	200	250	150	15	100	120	280	360	160	80	175	182	559	295	220	19	PG13.5	PG16	81.0
65-250/5.5	80	135	160	200	22	65 Fig. 1	120	185	20	450	200	250	178	15	100	120	280	360	160	80	175	182	612	376	259	19	PG13.5	PG21	96.0
80-160/1.5	100	155	180	225	24	80 Fig. 2	135	200	22	405	180	225	124	13	125	95	250	320	125	65	147	173	516	244 - 255	176	15	-	PG13.5	53.0
80-160/2.2R	100	155	180	225	24	80 Fig. 2	135	200	22	405	180	225	141	13	125	95	250	320	125	65	147	173	499	253	193	15	-	PG16	53.0
80-160/2.2	100	155	180	225	24	80 Fig. 2	135	200	22	405	180	225	141	13	125	95	250	320	125	65	147	173	499	253	193	15	-	PG16	53.0
80-200/3	100	155	180	225	24	80 Fig. 2	135	200	22	430	180	250	141	13	125	95	280	345	125	65	175	182	561	275	193	15	-	PG16	73.0
80-200/4R	100	155	180	225	24	80 Fig. 2	135	200	22	430	180	250	150	13	125	95	280	345	125	65	175	182	584	295	220	15	PG13.5	PG16	80.0
80-200/4	100	155	180	225	24	80 Fig. 2	135	200	22	430	180	250	150	13	125	95	280	345	125	65	175	182	584	295	220	15	PG13.5	PG16	81.0
80-250/5.5R	100	155	180	225	24	80 Fig. 2	135	200	22	480	200	280	178	15	125	120	315	400	160	80	175	192	637	376	259	19	PG13.5	PG21	94.0
80-250/5.5	100	155	180	225	24	80 Fig. 2	135	200	22	480	200	280	178	15	125	120	315	400	160	80	175	192	637	376	259	19	PG13.5	PG21	95.0

3 - 3L SERIES (4 POLES)

CENTRIFUGAL ELECTRIC PUMPS STANDARDISED IN COMPLIANCE WITH EN 733 (EX DIN 24255)

3(L)M4 80-250/7.5 **4 Poles**

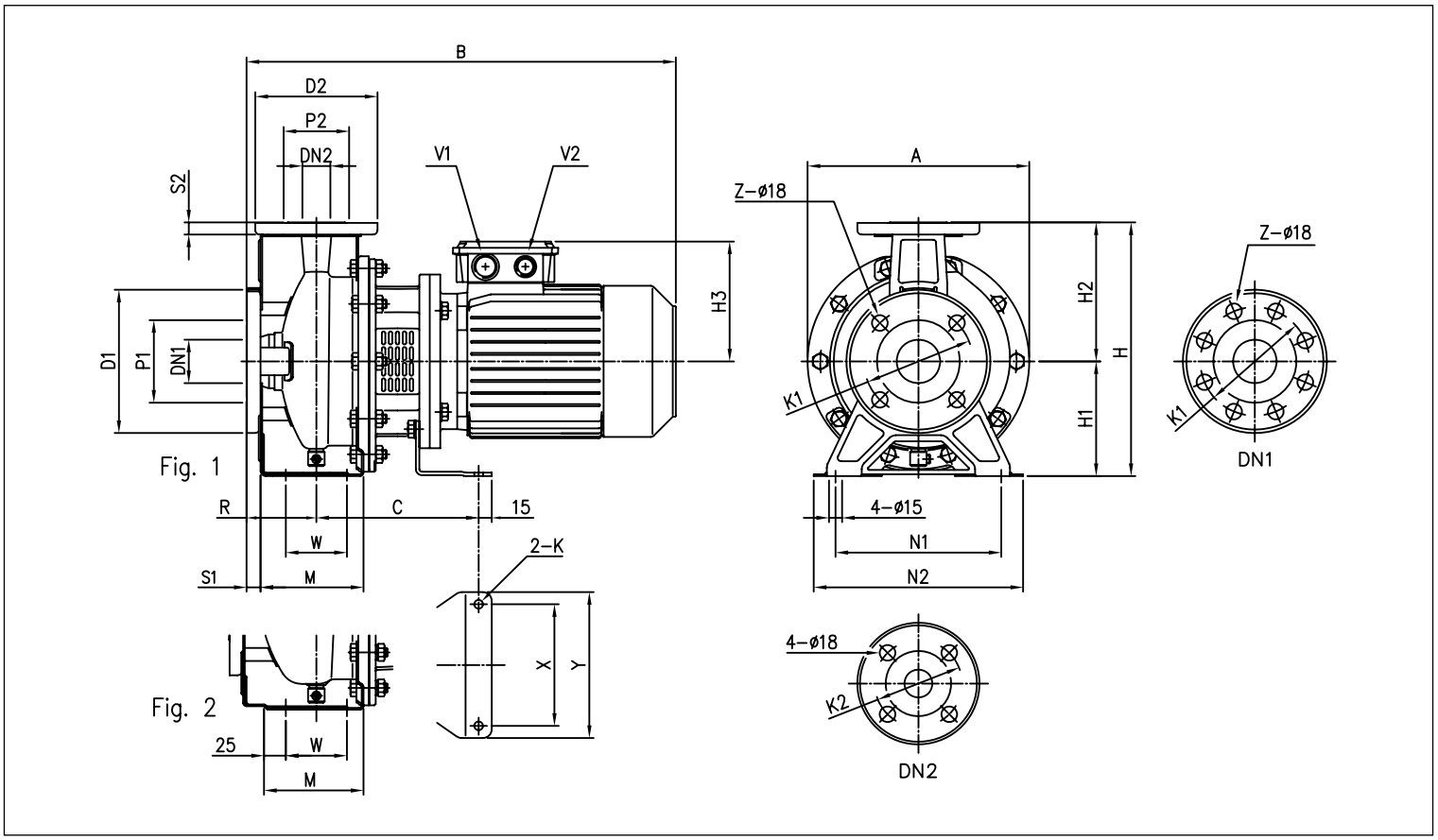




Weight
3(L)M4 80-250/7.5: 119.0 kg

CENTRIFUGAL ELECTRIC PUMPS STANDARDISED IN COMPLIANCE WITH EN 733 (EX DIN 24255)

3(L)S4 32, 40, 50, 65 - up to 1,5 kW **4 Poles**



DIMENSIONS CHART

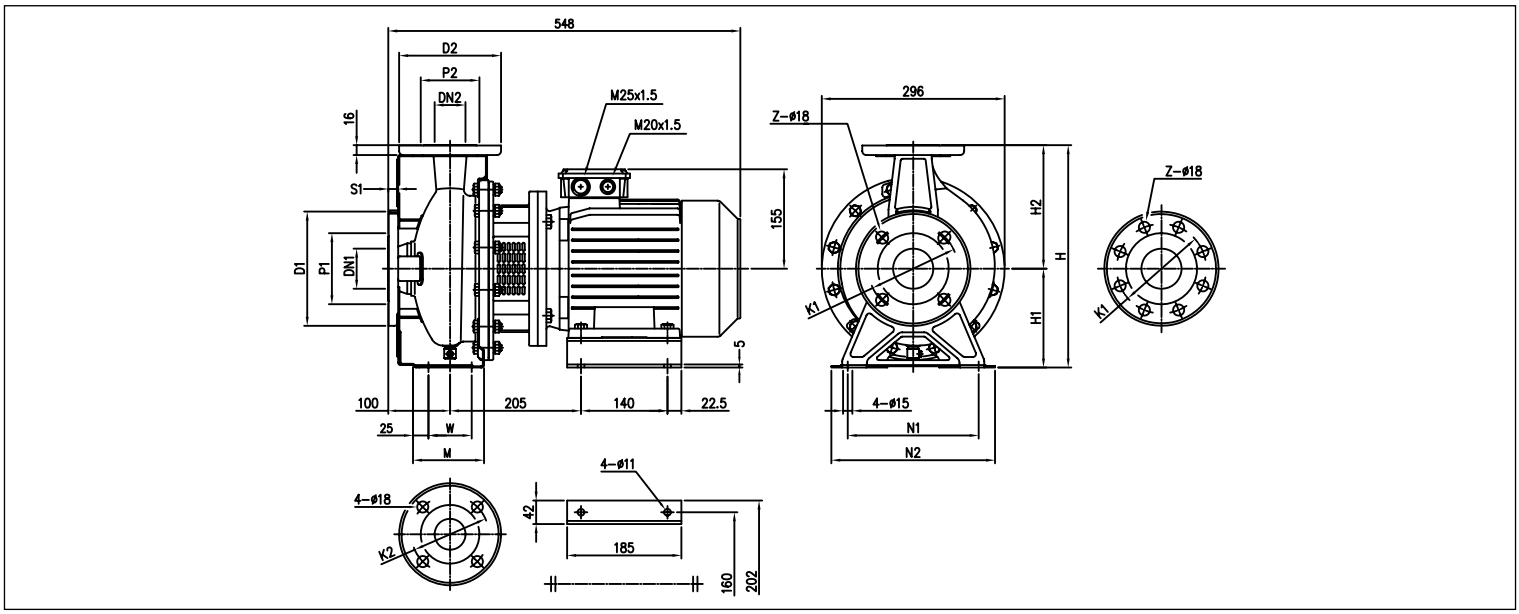
Model	Dimensions [mm]																														Weight [kg]	
	DN Ø	P1 Ø	K1 Ø	D1 Ø	S1	Z [1]	Z [2]	DN Ø	P2 Ø	K2 Ø	D2 Ø	S2	Fig.	H	H1	H2	H3	R	W	M	N1	N2	A	B	C	X	Y	K	V1	V2		*
32-125/0.25	50	95	125	165	16	4	-	32	75	100	140	14	1	252	112	140	114	80	70	114	140	190	213	404	153	112	140	8	M20x1.5	M16x1.5	15.4	-
32-160/0.37R	50	95	125	165	16	4	-	32	75	100	140	14	1	292	132	160	114	80	70	118	190	240	254	404	153	112	140	8	M20x1.5	M16x1.5	18.5	-
32-160/0.37	50	95	125	165	16	4	-	32	75	100	140	14	1	292	132	160	114	80	70	118	190	240	254	404	153	112	140	8	M20x1.5	M16x1.5	18.7	-
32-200/0.55R	50	95	125	165	16	4	-	32	75	100	140	14	1	340	160	180	139	80	70	119	190	240	296	430	174	140	168	10	M25x1.5	M20x1.5	28.0	-
32-200/0.55	50	95	125	165	16	4	-	32	75	100	140	14	1	340	160	180	139	80	70	119	190	240	296	430	174	140	168	10	M25x1.5	M20x1.5	33.0	-
32-200/0.75	50	95	125	165	16	4	-	32	75	100	140	14	1	340	160	180	139	80	70	119	190	240	296	430	174	140	168	10	M25x1.5	M20x1.5	29.5	29.5
40-125/0.37R	65	115	145	185	16	4	-	40	80	110	150	14	1	252	112	140	114	80	70	114	160	210	213	404	153	112	140	8	M20x1.5	M16x1.5	16.2	-
40-125/0.37	65	115	145	185	16	4	-	40	80	110	150	14	1	252	112	140	114	80	70	114	160	210	213	404	153	112	140	8	M20x1.5	M16x1.5	16.2	-
40-160/0.55R	65	115	145	185	16	4	-	40	80	110	150	14	1	292	132	160	139	80	70	118	190	240	254	430	174	140	168	10	M25x1.5	M20x1.5	23.5	-
40-160/0.55	65	115	145	185	16	4	-	40	80	110	150	14	1	292	132	160	139	80	70	118	190	240	254	430	174	140	168	10	M25x1.5	M20x1.5	23.5	-
40-200/1.1R	65	115	145	185	16	4	-	40	80	110	150	14	2	340	160	180	148	100	70	115	212	265	296	497	186	140	168	10	M25x1.5	M20x1.5	34.3	32.1
40-200/1.1	65	115	145	185	16	4	-	40	80	110	150	14	2	340	160	180	148	100	70	115	212	265	296	497	186	140	168	10	M25x1.5	M20x1.5	34.3	32.1
40-200/1.5	65	115	145	185	16	4	-	40	80	110	150	14	2	340	160	180	148	100	70	115	212	265	296	497	186	140	168	10	M25x1.5	M20x1.5	35.5	32.9
50-125/0.55R	65	115	145	185	16	4	-	50	95	125	165	16	2	292	132	160	139	100	70	114	190	240	254	450	174	140	168	10	M25x1.5	M20x1.5	23.7	-
50-125/0.55	65	115	145	185	16	4	-	50	95	125	165	16	2	292	132	160	139	100	70	114	190	240	254	450	174	140	168	10	M25x1.5	M20x1.5	23.7	-
50-160/1.1R	65	115	145	185	16	4	-	50	95	125	165	16	2	340	160	180	148	100	70	115	212	265	296	497	186	140	168	10	M25x1.5	M20x1.5	34.0	31.8
50-160/1.1	65	115	145	185	16	4	-	50	95	125	165	16	2	340	160	180	148	100	70	115	212	265	296	497	186	140	168	10	M25x1.5	M20x1.5	34.0	31.8
50-200/1.5R	65	115	145	185	16	4	-	50	95	125	165	16	2	360	160	200	148	100	70	115	212	265	296	497	186	140	168	10	M25x1.5	M20x1.5	37.1	34.5
50-200/1.5	65	115	145	185	16	4	-	50	95	125	165	16	2	360	160	200	148	100	70	115	212	265	296	497	186	140	168	10	M25x1.5	M20x1.5	37.1	34.5
65-125/0.55	80	134	160	200	18	8	4	65	115	145	185	16	2	340	160	180	139	100	95	140	212	280	254	450	174	140	168	10	M25x1.5	M20x1.5	21.5	-
65-125/0.75	80	134	160	200	18	8	4	65	115	145	185	16	2	340	160	180	139	100	95	140	212	280	254	450	174	140	168	10	M25x1.5	M20x1.5	30.0	30.0
65-125/1.1	80	134	160	200	18	8	4	65	115	145	185	16	2	340	160	180	148	100	95	140	212	280	254	497	186	140	168	10	M25x1.5	M20x1.5	30.0	27.8
65-160/1.1	80	134	160	200	18	8	4	65	115	145	185	16	2	360	160	200	148	100	95	140	212	280	296	497	186	140	168	10	M25x1.5	M20x1.5	31.0	28.8
65-160/1.5	80	134	160	200	18	8	4	65	115	145	185	16	2	360	160	200	148	100	95	140	212	280	296	497	186	140	168	10	M25x1.5	M20x1.5	43.0	40.4

* Models with IE3 motor only

3 - 3L SERIES (4 POLES)

CENTRIFUGAL ELECTRIC PUMPS STANDARDISED IN COMPLIANCE WITH EN 733 (EX DIN 24255)

3(L)S4 50, 65 - 2.2 - 3 kW **4 Poles**



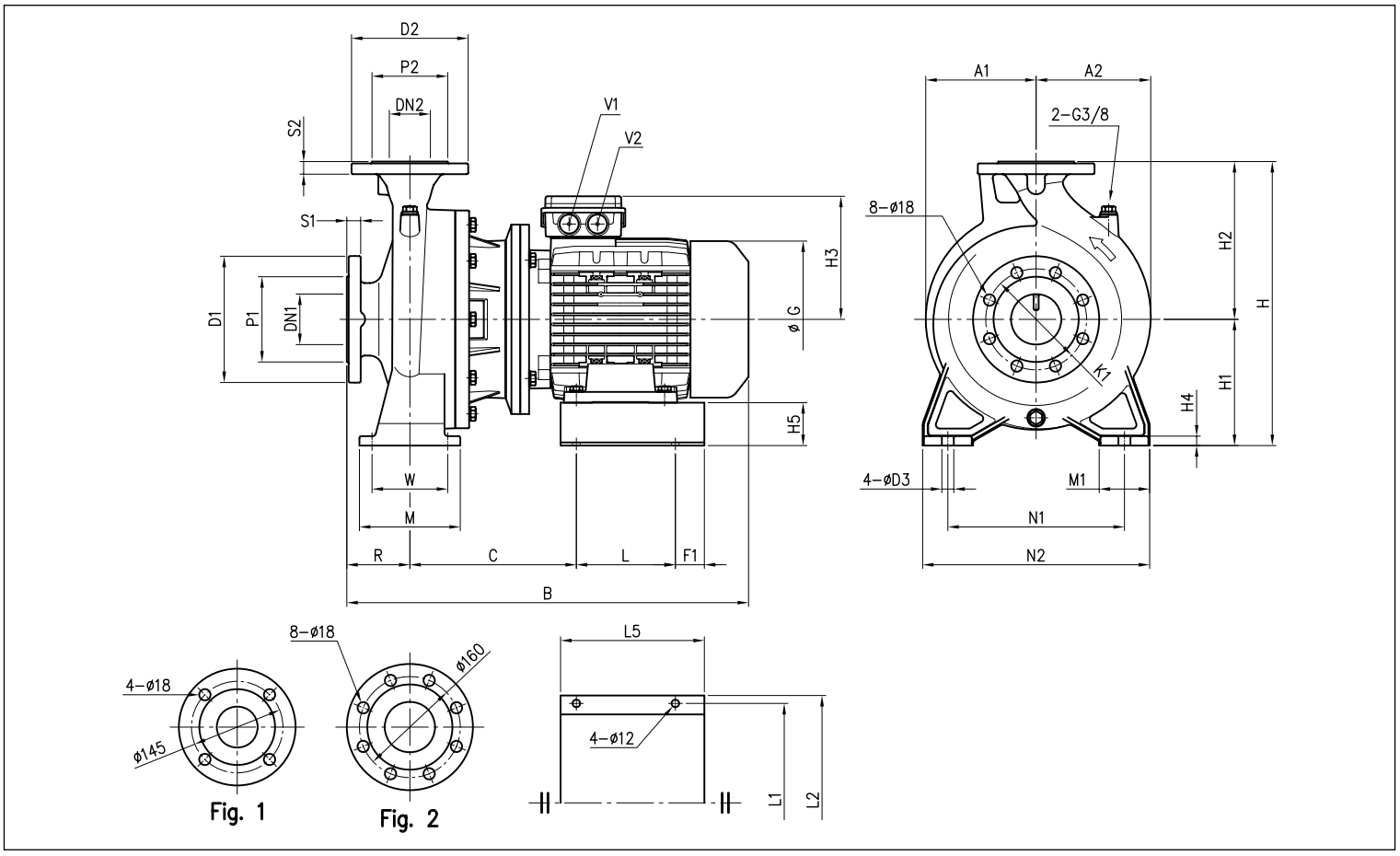
DIMENSIONS CHART

Model	Dimensions [mm]																		Weight [kg]	
	DN1 Ø	P1 Ø	K1 Ø	D1 Ø	S1	Z [1]	Z [2]	DN2 Ø	P2 Ø	K2 Ø	D2 Ø	H	H1	H2	W	M	N1	N2		*
50-200/2.2	65	115	145	185	16	4	-	50	95	125	165	360	160	200	70	115	212	265	43.0	43.4
65-160/2.2	80	134	160	200	18	8	4	65	115	145	185	360	160	200	95	140	212	280	46.0	46.4
65-200/2.2R	80	134	160	200	18	8	4	65	115	145	185	405	180	225	95	140	250	320	42.5	42.9
65-200/2.2	80	134	160	200	18	8	4	65	115	145	185	405	180	225	95	140	250	320	43.0	43.4
65-200/3	80	134	160	200	18	8	4	65	115	145	185	405	180	225	95	140	250	320	48.5	48.5

[1] Standard [2] On request
* Models with IE3 motor only

CENTRIFUGAL ELECTRIC PUMPS STANDARDISED IN COMPLIANCE WITH EN 733 (EX DIN 24255)

3LS4 65-250, 80-160/200/250 - up to 7.5 kW **4 Poles**



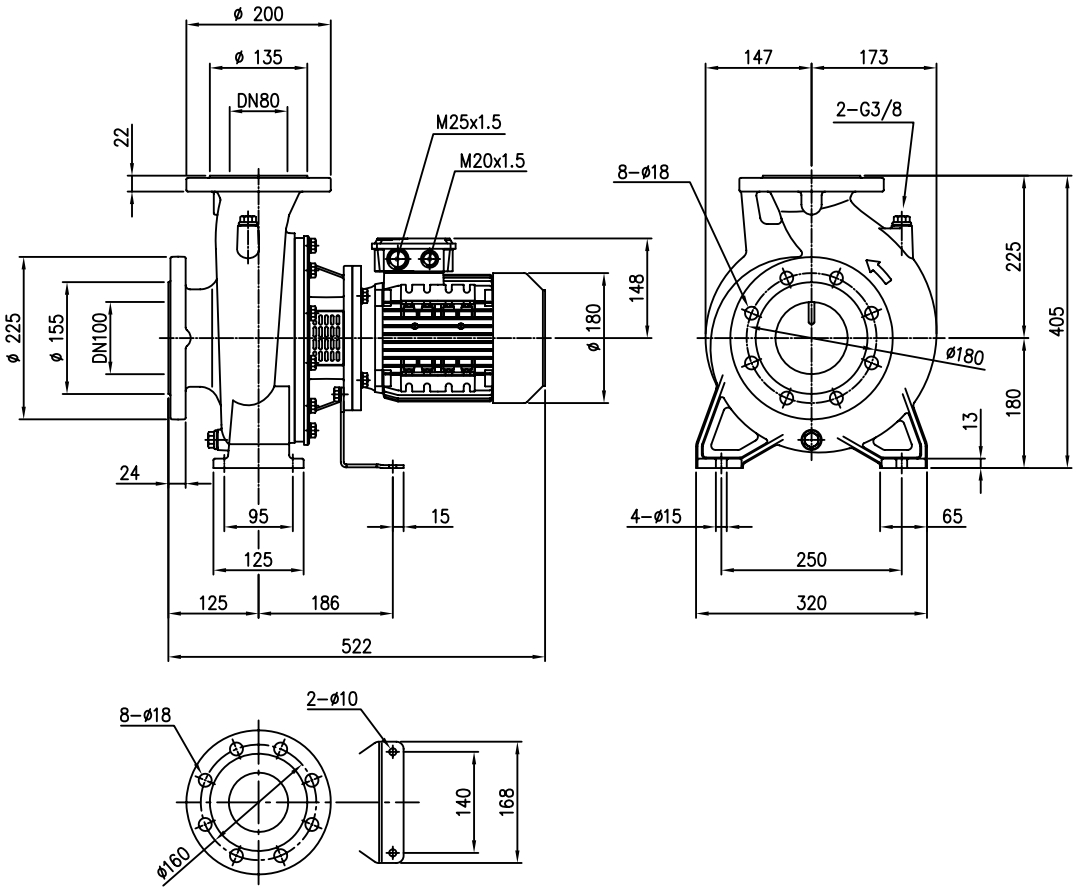
DIMENSIONS CHART

Model	Dimensions [mm]																																Weight [kg]	
	DN1	P1	K1	D1	S1	DN2	P2	D2	S2	H	H1	H2	H3	H4	H5	R	W	N1	N2	M	M1	L	L1	L2	L5	A1	A2	B	C	F1	G	D3	V1	V2		*
65-250/4	80	135	160	200	22	65 Fig. 1	120	185	20	450	200	250	171	15	88	100	120	280	360	160	80	147	265	290	187	175	182	580	215	20	225	19	M25x1.5	M20x1.5	85.0	90.6
65-250/5.5	80	135	160	200	22	65 Fig. 1	120	185	20	450	200	250	198	15	68	100	120	280	360	160	80	157	315	340	228	175	182	637	264	46	248	19	M32x1.5	M32x1.5	108.0	118.0
80-160/2.2R	100	155	180	225	24	80 Fig. 2	135	200	22	405	180	225	155	13	80	125	95	250	320	125	65	140	250	275	190	147	173	573	205	25	196	15	M25x1.5	M20x1.5	69.7	70.1
80-160/2.2	100	155	180	225	24	80 Fig. 2	135	200	22	405	180	225	155	13	80	125	95	250	320	125	65	140	250	275	190	147	173	573	205	25	196	15	M25x1.5	M20x1.5	70.0	70.4
80-200/3	100	155	180	225	24	80 Fig. 2	135	200	22	430	180	250	155	13	80	125	95	280	345	125	65	140	250	275	190	175	182	583	215	25	196	15	M25x1.5	M20x1.5	80.0	80.0
80-200/4R	100	155	180	225	24	80 Fig. 2	135	200	22	430	180	250	171	13	68	125	95	280	345	125	65	157	315	340	228	175	182	605	198	46	225	15	M25x1.5	M20x1.5	84.0	89.6
80-200/4	100	155	180	225	24	80 Fig. 2	135	200	22	430	180	250	171	13	68	125	95	280	345	125	65	157	315	340	228	175	182	605	198	46	225	15	M25x1.5	M20x1.5	90.0	95.6
80-250/5.5R	100	155	180	225	24	80 Fig. 2	135	200	22	480	200	280	198	15	68	125	120	315	400	160	80	157	315	340	228	175	192	662	264	46	248	19	M32x1.5	M32x1.5	114.0	124.0
80-250/5.5	100	155	180	225	24	80 Fig. 2	135	200	22	480	200	280	198	15	68	125	120	315	400	160	80	157	315	340	228	175	192	662	264	46	248	19	M32x1.5	M32x1.5	115.0	125.0
80-250/7.5	100	155	180	225	24	80 Fig. 2	135	200	22	480	200	280	198	15	68	125	120	315	400	160	80	157	315	340	228	175	192	702	264	46	248	19	M32x1.5	M32x1.5	-	134.0

* Models with IE3 motor only

CENTRIFUGAL ELECTRIC PUMPS STANDARDISED IN COMPLIANCE WITH EN 733 (EX DIN 24255)

3LS4 80-160/1.5 **4 Poles**

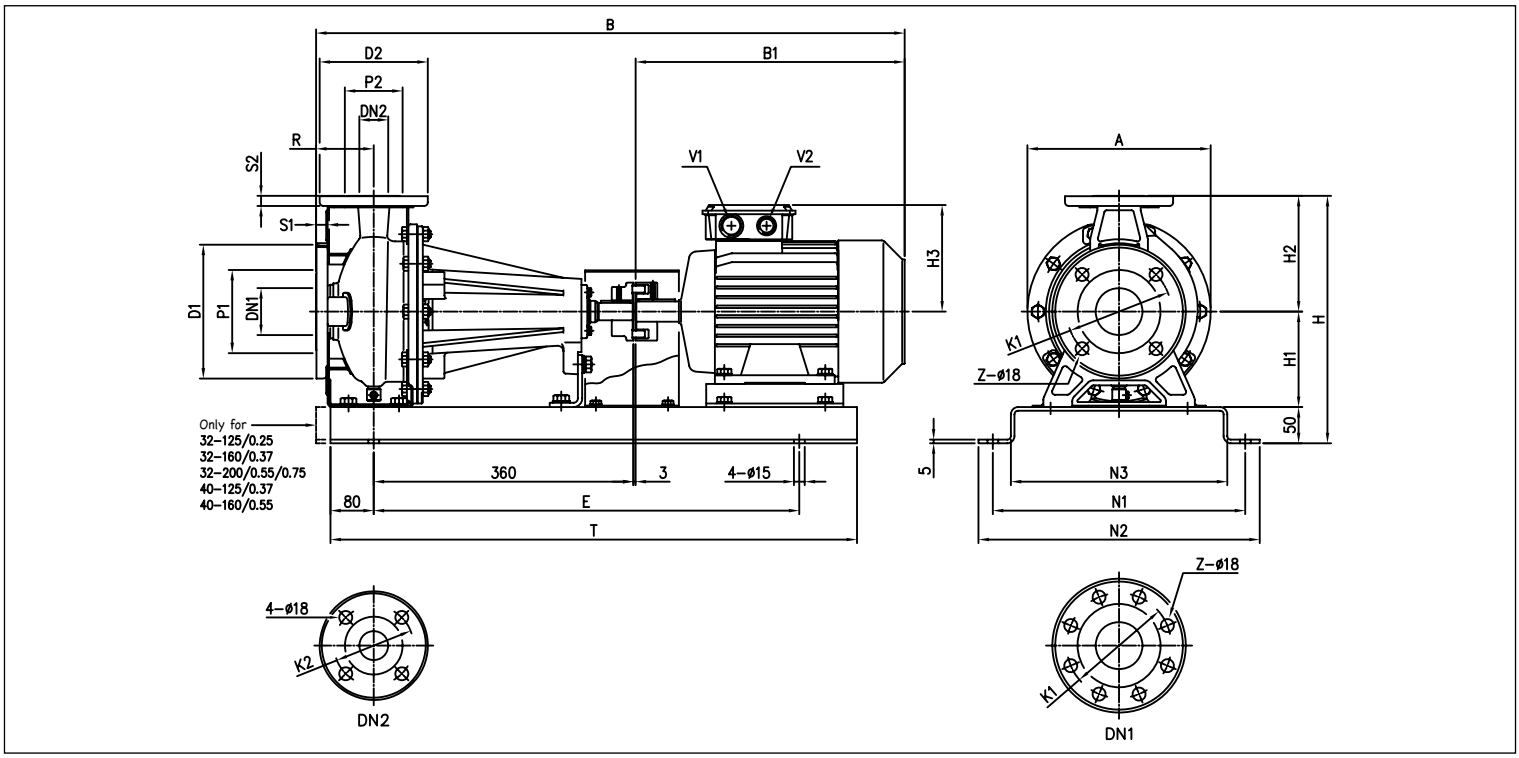


Weight 3LS4 80-160/1.5:
IE2= 60.5 kg
IE3= 57.9 kg

CENTRIFUGAL ELECTRIC PUMPS STANDARDISED IN COMPLIANCE WITH EN 733 (EX DIN 24255)

3(L)P4 32, 40, 50, 65 - up to 65-200

4 Poles



DIMENSIONS CHART

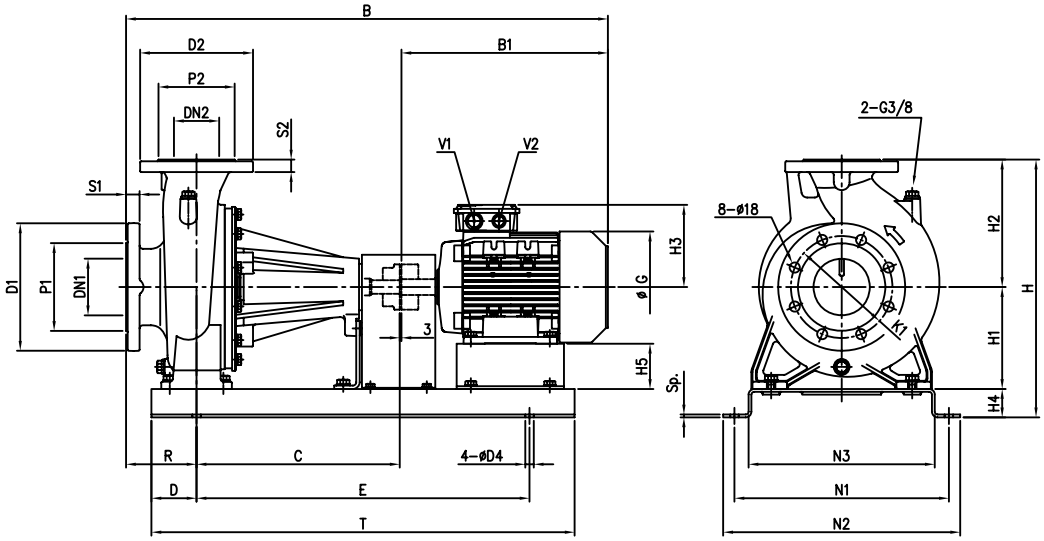
Model	Dimensions [mm]																										Weight [kg]	
	DN1 Ø	P1 Ø	K1 Ø	D1 Ø	S1	Z [1]	Z [2]	DN2 Ø	P2 Ø	K2 Ø	D2 Ø	S2	H	H1	H2	H3	R	A	B	B1	E	N1	N2	N3	T	V1	V2		*
32-125/0.25	50	95	125	165	16	4	-	32	75	100	140	14	302	112	140	114	80	213	689	246	550	300	340	250	710	M20x1.5	M16x1.5	37.0	-
32-160/0.37R	50	95	125	165	16	4	-	32	75	100	140	14	342	132	160	114	80	254	689	246	510	350	390	300	670	M20x1.5	M16x1.5	41.0	-
32-160/0.37	50	95	125	165	16	4	-	32	75	100	140	14	342	132	160	114	80	254	689	246	510	350	390	300	670	M20x1.5	M16x1.5	41.0	-
32-200/0.55R	50	95	125	165	16	4	-	32	75	100	140	14	390	160	180	139	80	296	715	272	510	350	390	300	670	M25x1.5	M20x1.5	53.5	-
32-200/0.55	50	95	125	165	16	4	-	32	75	100	140	14	390	160	180	139	80	296	715	272	510	350	390	300	670	M25x1.5	M20x1.5	53.5	-
32-200/0.75	50	95	125	165	16	4	-	32	75	100	140	14	390	160	180	139	80	296	715	272	510	350	390	300	670	M25x1.5	M20x1.5	54.5	54.5
40-125/0.37R	65	115	145	185	16	4	-	40	80	110	150	14	302	112	140	114	80	213	689	246	550	300	340	250	710	M20x1.5	M16x1.5	46.5	-
40-125/0.37	65	115	145	185	16	4	-	40	80	110	150	14	302	112	140	114	80	213	689	246	550	300	340	250	710	M20x1.5	M16x1.5	46.5	-
40-160/0.55R	65	115	145	185	16	4	-	40	80	110	150	14	342	132	160	139	80	254	715	272	510	350	390	300	670	M25x1.5	M20x1.5	44.5	-
40-160/0.55	65	115	145	185	16	4	-	40	80	110	150	14	342	132	160	139	80	254	715	272	510	350	390	300	670	M25x1.5	M20x1.5	44.5	-
40-200/1.1R	65	115	145	185	16	4	-	40	80	110	150	14	390	160	180	148	100	296	780	317	590	350	390	300	750	M25x1.5	M20x1.5	61.5	59.3
40-200/1.1	65	115	145	185	16	4	-	40	80	110	150	14	390	160	180	148	100	296	780	317	590	350	390	300	750	M25x1.5	M20x1.5	61.5	59.3
40-200/1.5	65	115	145	185	16	4	-	40	80	110	150	14	390	160	180	148	100	296	780	317	590	350	390	300	750	M25x1.5	M20x1.5	64.0	61.4
50-125/0.55R	65	115	145	185	16	4	-	50	95	125	165	16	342	132	160	139	100	254	735	272	510	350	390	300	670	M25x1.5	M20x1.5	45.0	-
50-125/0.55	65	115	145	185	16	4	-	50	95	125	165	16	342	132	160	139	100	254	735	272	510	350	390	300	670	M25x1.5	M20x1.5	45.0	-
50-160/1.1R	65	115	145	185	16	4	-	50	95	125	165	16	390	160	180	148	100	296	780	317	590	350	390	300	750	M25x1.5	M20x1.5	52.5	50.3
50-160/1.1	65	115	145	185	16	4	-	50	95	125	165	16	390	160	180	148	100	296	780	317	590	350	390	300	750	M25x1.5	M20x1.5	52.5	50.3
50-200/1.5R	65	115	145	185	16	4	-	50	95	125	165	16	410	160	200	148	100	296	780	317	590	350	390	300	750	M25x1.5	M20x1.5	64.0	61.4
50-200/1.5	65	115	145	185	16	4	-	50	95	125	165	16	410	160	200	148	100	296	780	317	590	350	390	300	750	M25x1.5	M20x1.5	64.0	61.4
50-200/2.2	65	115	145	185	16	4	-	50	95	125	165	16	410	160	200	155	100	296	829	366	590	350	390	300	750	M25x1.5	M20x1.5	70.0	70.4
65-125/0.55	80	134	160	200	18	8	4	65	115	145	185	16	390	160	180	139	100	254	735	272	510	350	390	300	670	M25x1.5	M20x1.5	48.5	-
65-125/0.75	80	134	160	200	18	8	4	65	115	145	185	16	390	160	180	139	100	254	735	272	510	350	390	300	670	M25x1.5	M20x1.5	48.5	48.5
65-125/1.1	80	134	160	200	18	8	4	65	115	145	185	16	390	160	180	148	100	254	780	317	590	350	390	300	750	M25x1.5	M20x1.5	56.0	53.8
65-160/1.1	80	134	160	200	18	8	4	65	115	145	185	16	410	160	200	148	100	296	780	317	590	350	390	300	750	M25x1.5	M20x1.5	62.5	60.3
65-160/1.5	80	134	160	200	18	8	4	65	115	145	185	16	410	160	200	148	100	296	780	317	590	350	390	300	750	M25x1.5	M20x1.5	63.5	60.9
65-160/2.2	80	134	160	200	18	8	4	65	115	145	185	16	410	160	200	155	100	296	829	366	590	350	390	300	750	M25x1.5	M20x1.5	71.5	71.9
65-200/2.2R	80	134	160	200	18	8	4	65	115	145	185	16	455	180	225	155	100	296	829	366	590	380	420	330	750	M25x1.5	M20x1.5	74.0	74.4
65-200/2.2	80	134	160	200	18	8	4	65	115	145	185	16	455	180	225	155	100	296	829	366	590	380	420	330	750	M25x1.5	M20x1.5	74.0	74.4
65-200/3	80	134	160	200	18	8	4	65	115	145	185	16	455	180	225	155	100	296	829	366	590	380	420	330	750	M25x1.5	M20x1.5	77.5	77.5

[1] Standard [2] On request
* Models with IE3 motor only

3 - 3L SERIES (4 POLES)

CENTRIFUGAL ELECTRIC PUMPS STANDARDISED IN COMPLIANCE WITH EN 733 (EX DIN 24255)

3LP4 65-250, 80 **4 Poles**



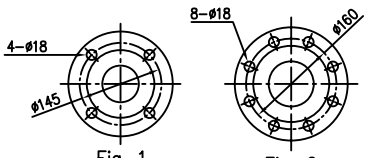


Fig. 1 Fig. 2

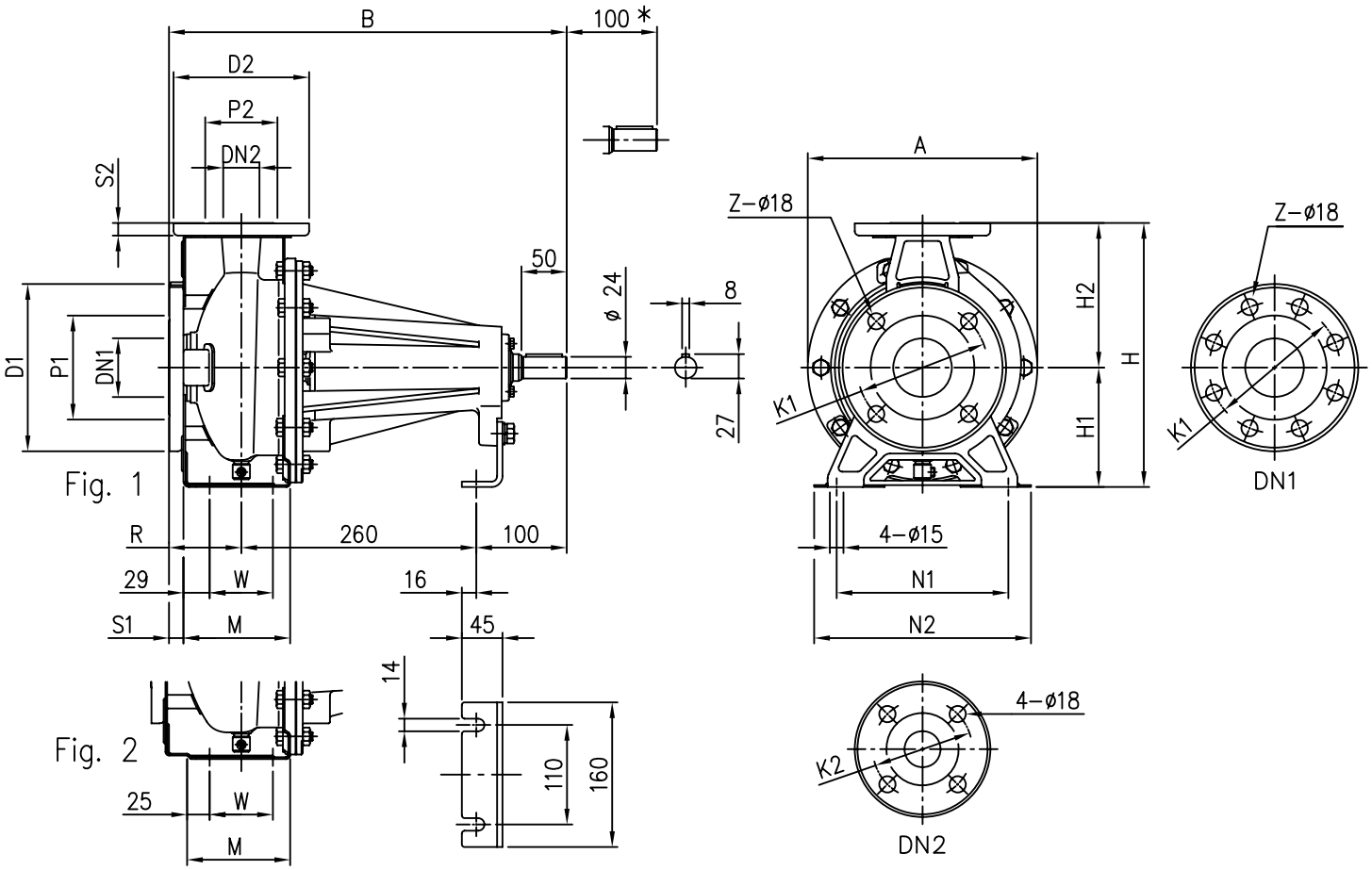
DIMENSIONS CHART

Model	Dimensions [mm]																										Weight [kg]	
	DN1	P1	D1	S1	DN2	P2	D2	S2	H	H1	H2	H3	H4	H5	R	N1	N2	N3	B	B1	C	D	G	E	T	D4	Sp.	V1	V2		*
65-250/4	80	135	200	22	65 Fig. 1	120	185	20	510	200	250	171	60	88	100	510	570	440	961	388	470	100	225	760	960	19	8	M25x1.5	M20x1.5	113.5	119.1
65-250/5.5	80	135	200	22	65 Fig. 1	120	185	20	510	200	250	198	60	68	100	510	570	440	1015	442	470	100	248	760	960	19	8	M32x1.5	M32x1.5	130.0	140.0
80-160/1.5	100	155	225	24	80 Fig. 2	135	200	22	455	180	225	148	50	90	125	380	420	330	805	317	360	80	180	590	750	15	5	M25x1.5	M20x1.5	80.0	77.4
80-160/2.2R	100	155	225	24	80 Fig. 2	135	200	22	455	180	225	155	50	80	125	380	420	330	854	366	360	80	196	590	750	15	5	M25x1.5	M20x1.5	86.0	86.4
80-160/2.2	100	155	225	24	80 Fig. 2	135	200	22	455	180	225	155	50	80	125	380	420	330	854	366	360	80	196	590	750	15	5	M25x1.5	M20x1.5	100.5	100.9
80-200/3	100	155	225	24	80 Fig. 2	135	200	22	490	180	250	155	60	80	125	460	520	390	964	366	470	100	196	700	900	19	8	M25x1.5	M20x1.5	109.5	109.5
80-200/4R	100	155	225	24	80 Fig. 2	135	200	22	490	180	250	171	60	68	125	460	520	390	986	388	470	100	225	700	900	19	8	M25x1.5	M20x1.5	116.5	122.1
80-200/4	100	155	225	24	80 Fig. 2	135	200	22	490	180	250	171	60	68	125	460	520	390	986	388	470	100	225	700	900	19	8	M25x1.5	M20x1.5	117.0	122.6
80-250/5.5R	100	155	225	24	80 Fig. 2	135	200	22	540	200	280	198	60	68	125	510	570	440	1040	442	470	100	248	760	960	19	8	M32x1.5	M32x1.5	134.0	144.0
80-250/5.5	100	155	225	24	80 Fig. 2	135	200	22	540	200	280	198	60	68	125	510	570	440	1040	442	470	100	248	760	960	19	8	M32x1.5	M32x1.5	134.5	144.5
80-250/7.5	100	155	225	24	80 Fig. 2	135	200	22	540	200	280	198	60	68	125	510	570	440	1080	482	470	100	248	760	960	19	8	M32x1.5	M32x1.5	-	157.5

* Models with IE3 motor only

CENTRIFUGAL ELECTRIC PUMPS STANDARDISED IN COMPLIANCE WITH EN 733 (EX DIN 24255)

3(L)PF4 32, 40, 50, 65 **4 Poles**



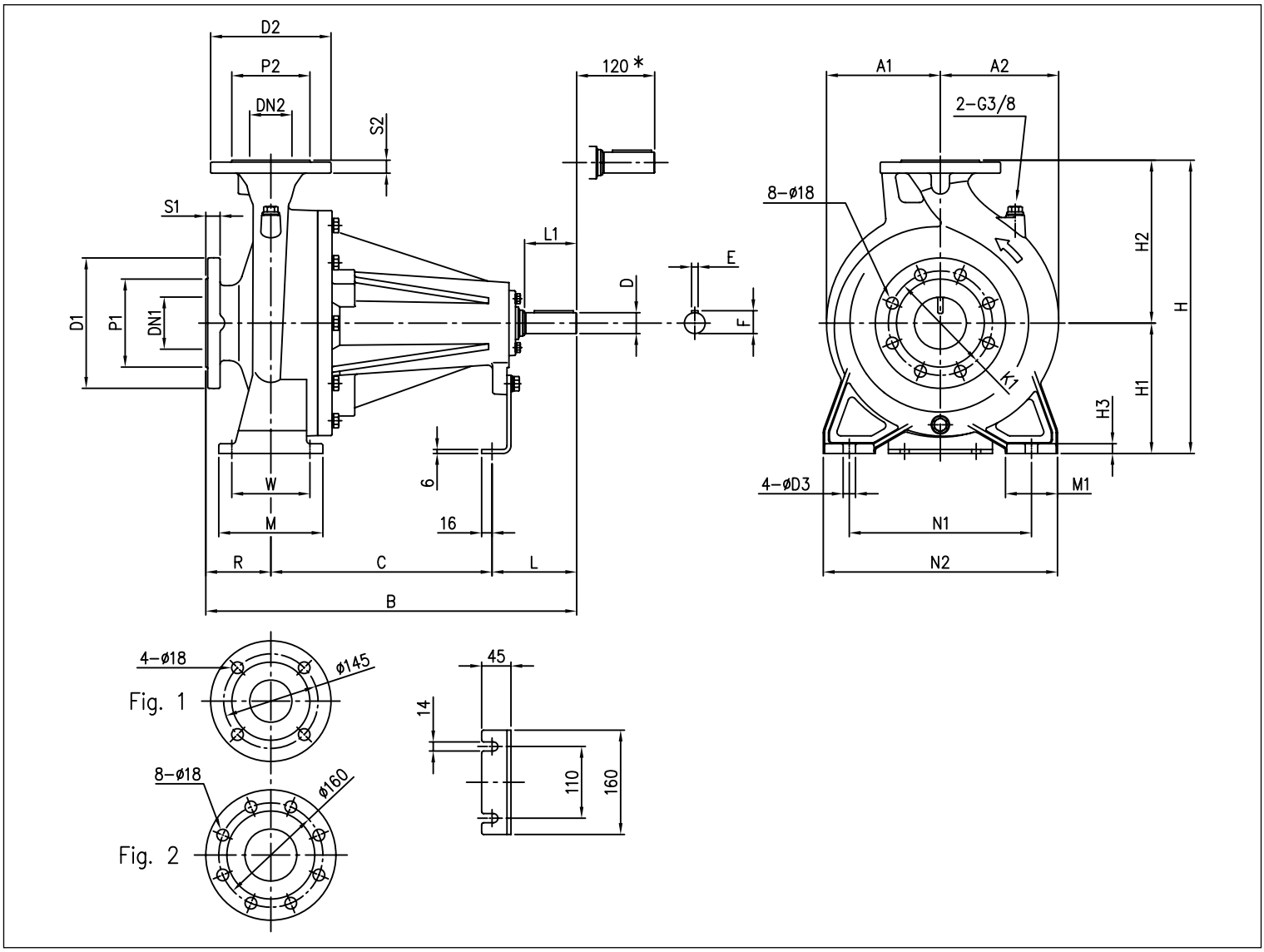
DIMENSIONS CHART

Model	Dimensions [mm]																							Weight [kg]
	Fig.	DN1	P1	K1	D1	S1	Z [1]	Z [2]	DN2	P2	K2	D2	S2	H	H1	H2	M	N1	N2	R	W	A	B	
32-125	1	50	95	125	165	16	4	-	32	75	100	140	14	252	112	140	114	140	190	80	70	213	440	17.0
32-160	1	50	95	125	165	16	4	-	32	75	100	140	14	292	132	160	118	190	240	80	70	254	440	19.0
32-200	1	50	95	125	165	16	4	-	32	75	100	140	14	340	160	180	119	190	240	80	70	296	440	27.0
40-125	1	65	115	145	185	16	4	-	40	80	110	150	14	252	112	140	114	160	210	80	70	213	440	17.0
40-160	1	65	115	145	185	16	4	-	40	80	110	150	14	292	132	160	118	190	240	80	70	254	440	19.0
40-200	2	65	115	145	185	16	4	-	40	80	110	150	14	340	160	180	115	212	265	100	70	296	460	27.0
50-125	2	65	115	145	185	16	4	-	50	95	125	165	16	292	132	160	114	190	240	100	70	254	460	19.0
50-160	2	65	115	145	185	16	4	-	50	95	125	165	16	340	160	180	115	212	265	100	70	296	460	28.0
50-200	2	65	115	145	185	16	4	-	50	95	125	165	16	360	160	200	115	212	265	100	70	296	460	27.0
65-125	2	80	134	160	200	18	8	4	65	115	145	185	16	340	160	180	140	212	280	100	95	254	460	28.0
65-160	2	80	134	160	200	18	8	4	65	115	145	185	16	360	160	200	140	212	280	100	95	296	460	29.0
65-200	2	80	134	160	200	18	8	4	65	115	145	185	16	405	180	225	140	250	320	100	95	296	460	30.0

* Space in which it is possible to disassemble the pump with the spacer coupling without disassembling the motor.
[1] Standard
[2] On request

CENTRIFUGAL ELECTRIC PUMPS STANDARDISED IN COMPLIANCE WITH EN 733 (EX DIN 24255)

3LPF4 65-250, 80 **4 Poles**



DIMENSIONS CHART

Model	Dimensions [mm]																												Weight [kg]
	DN1	P1	K1	D1	S1	DN2	P2	D2	S2	H	H1	H2	H3	R	W	N1	N2	M	M1	L	L1	D	D3	E	F	A1	A2	B	C	
65-250	80	135	160	200	22	65 Fig. 1	120	185	20	450	200	250	15	100	120	280	360	160	80	130	80	32	19	10	35	175	182	570	340	82.0
80-160	100	155	180	225	24	80 Fig. 2	135	200	22	405	180	225	13	125	95	250	320	125	65	100	50	24	15	8	27	147	173	485	260	56.0
80-200	100	155	180	225	24	80 Fig. 2	135	200	22	430	180	250	13	125	95	280	345	125	65	130	80	32	15	10	35	175	182	595	340	83.0
80-250	100	155	180	225	24	80 Fig. 2	135	200	22	480	200	280	15	125	120	315	400	160	80	130	80	32	19	10	35	175	192	595	340	84.0

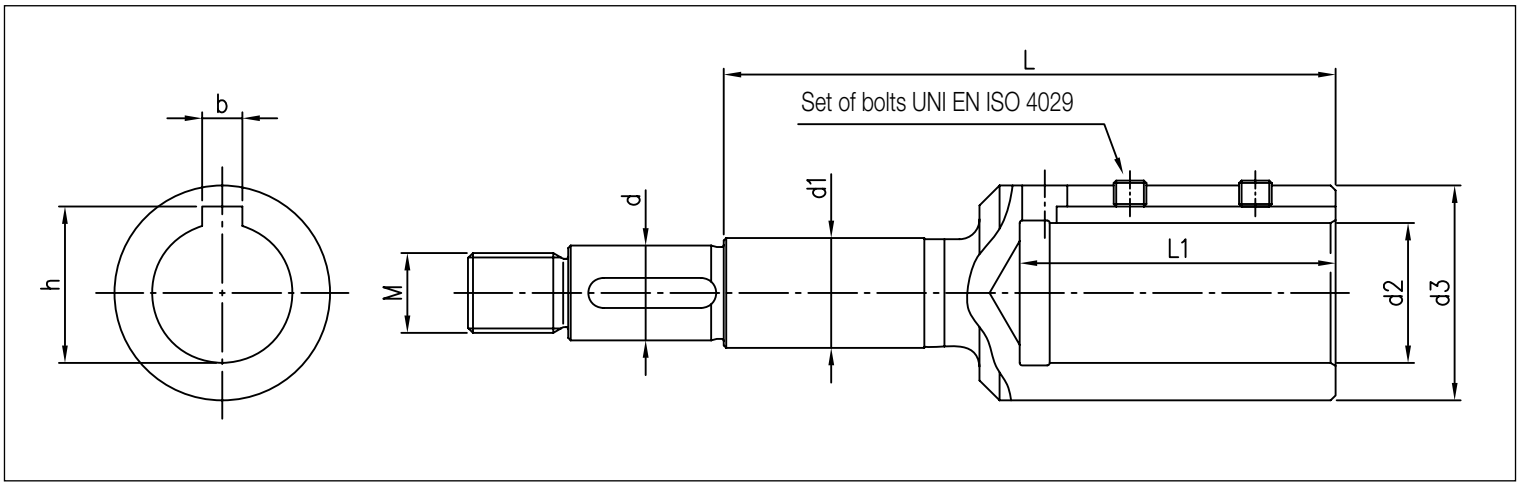
* Space in which it is possible to disassemble the pump with the spacer coupling without disassembling the motor.

3 - 3L SERIES (4 POLES)

CENTRIFUGAL ELECTRIC PUMPS STANDARDISED IN COMPLIANCE WITH EN 733 (EX DIN 24255)

COUPLING FOR 3(L)S4 SERIES

4 Poles



DIMENSIONS CHART

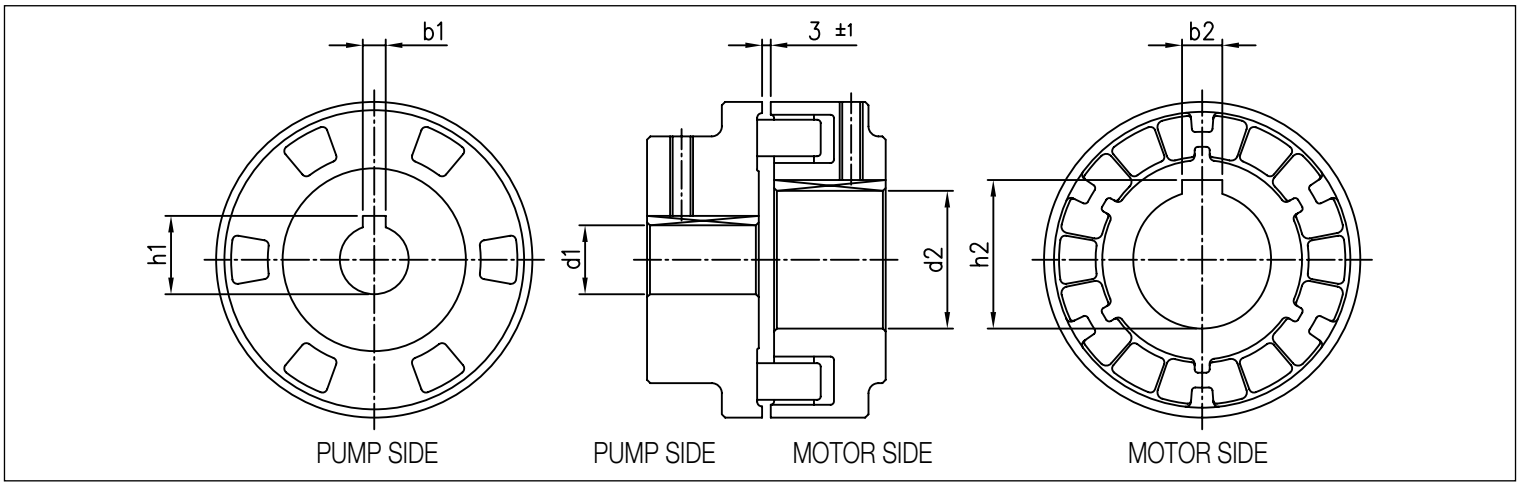
Model	[HP]	[kW]	Motor size	Dimensions [mm]									
				d	d1	d2	d3	M	L	L1	b	h	Bolts
32-125/0.25	0.33	0.25	71	19	22	14	28	M16x1.5	88	33	5	16.3	M5x6
32-160/0.37R	0.5	0.37	71	19	22	14	28	M16x1.5	88	33	5	16.3	M5x6
32-160/0.37	0.5	0.37	71	19	22	14	28	M16x1.5	88	33	5	16.3	M5x6
32-200/0.55R	0.75	0.55	80	19	22	19	33	M16x1.5	98	43	6	21.8	M6x6
32-200/0.55	0.75	0.55	80	19	22	19	33	M16x1.5	98	43	6	21.8	M6x6
32-200/0.75	1	0.75	80	19	22	19	33	M16x1.5	98	43	6	21.8	M6x6
40-125/0.37R	0.5	0.37	71	19	22	14	28	M16x1.5	88	33	5	16.3	M5x6
40-125/0.37	0.5	0.37	71	19	22	14	28	M16x1.5	88	33	5	16.3	M5x6
40-160/0.55R	0.75	0.55	80	19	22	19	33	M16x1.5	98	43	6	21.8	M6x6
40-160/0.55	0.75	0.55	80	19	22	19	33	M16x1.5	98	43	6	21.8	M6x6
40-200/1.1R	1.5	1.1	90	19	22	24	39	M16x1.5	110	53	8	27.3	M8x8
40-200/1.1	1.5	1.1	90	19	22	24	39	M16x1.5	110	53	8	27.3	M8x8
40-200/1.5	2	1.5	90	19	22	24	39	M16x1.5	110	53	8	27.3	M8x8
50-125/0.55R	0.75	0.55	80	19	22	19	33	M16x1.5	98	43	6	21.8	M6x6
50-125/0.55	0.75	0.55	80	19	22	19	33	M16x1.5	98	43	6	21.8	M6x6
50-160/1.1R	1.5	1.1	90	19	22	24	39	M16x1.5	110	53	8	27.3	M8x8
50-160/1.1	1.5	1.1	90	19	22	24	39	M16x1.5	110	53	8	27.3	M8x8
50-200/1.5R	2	1.5	90	19	22	24	39	M16x1.5	110	53	8	27.3	M8x8
50-200/1.5	2	1.5	90	19	22	24	39	M16x1.5	110	53	8	27.3	M8x8
50-200/2.2	3	2.2	100	22	22	28	43	M18x1.5	153	63	8	31.3	M8x8
65-125/0.55	0.75	0.55	80	19	22	19	33	M16x1.5	98	43	6	21.8	M6x6
65-125/0.75	1	0.75	80	19	22	19	33	M16x1.5	98	43	6	21.8	M6x6
65-125/1.1	1.5	1.1	90	19	22	24	39	M16x1.5	110	53	8	27.3	M8x8
65-160/1.1	1.5	1.1	90	19	22	24	39	M16x1.5	110	53	8	27.3	M8x8
65-160/1.5	2	1.5	90	19	22	24	39	M16x1.5	110	53	8	27.3	M8x8
65-160/2.2	3	2.2	100	19	22	28	43	M16x1.5	122	63	8	31.3	M8x8
65-200/2.2R	3	2.2	100	19	22	28	43	M16x1.5	122	63	8	31.3	M8x8
65-200/2.2	3	2.2	100	19	22	28	43	M16x1.5	122	63	8	31.3	M8x8
65-200/3	4	3	100	19	22	28	43	M16x1.5	122	63	8	31.3	M8x8
65-250/4	5.5	4	112	24	30	28	43	M20x1.5	128	63	8	31.3	M8x8
65-250/5.5	7.5	5.5	132	24	30	38	58	M20x1.5	151	84	10	41.3	M8x8
80-160/1.5	2	1.5	90	19	22	24	39	M16x1.5	110	53	8	27.3	M8x8
80-160/2.2R	3	2.2	100	19	22	28	43	M16x1.5	122	63	8	31.3	M8x8
80-160/2.2	3	2.2	100	19	22	28	43	M16x1.5	122	63	8	31.3	M8x8
80-200/3	4	3	100	24	30	28	43	M20x1.5	128	63	8	31.3	M8x8
80-200/4R	5.5	4	112	24	30	28	43	M20x1.5	128	63	8	31.3	M8x8
80-200/4	5.5	4	112	24	30	28	43	M20x1.5	128	63	8	31.3	M8x8
80-250/5.5R	7.5	5.5	132	24	30	38	58	M20x1.5	151	84	10	41.3	M8x8
80-250/5.5	7.5	5.5	132	24	30	38	58	M20x1.5	151	84	10	41.3	M8x8
80-250/7.5	10	7.5	132	24	30	38	58	M20x1.5	151	84	10	41.3	M8x8

3 - 3L SERIES (4 POLES)

CENTRIFUGAL ELECTRIC PUMPS STANDARDISED IN COMPLIANCE WITH EN 733 (EX DIN 24255)

COUPLING FOR 3(L)P4 SERIES

4 Poles



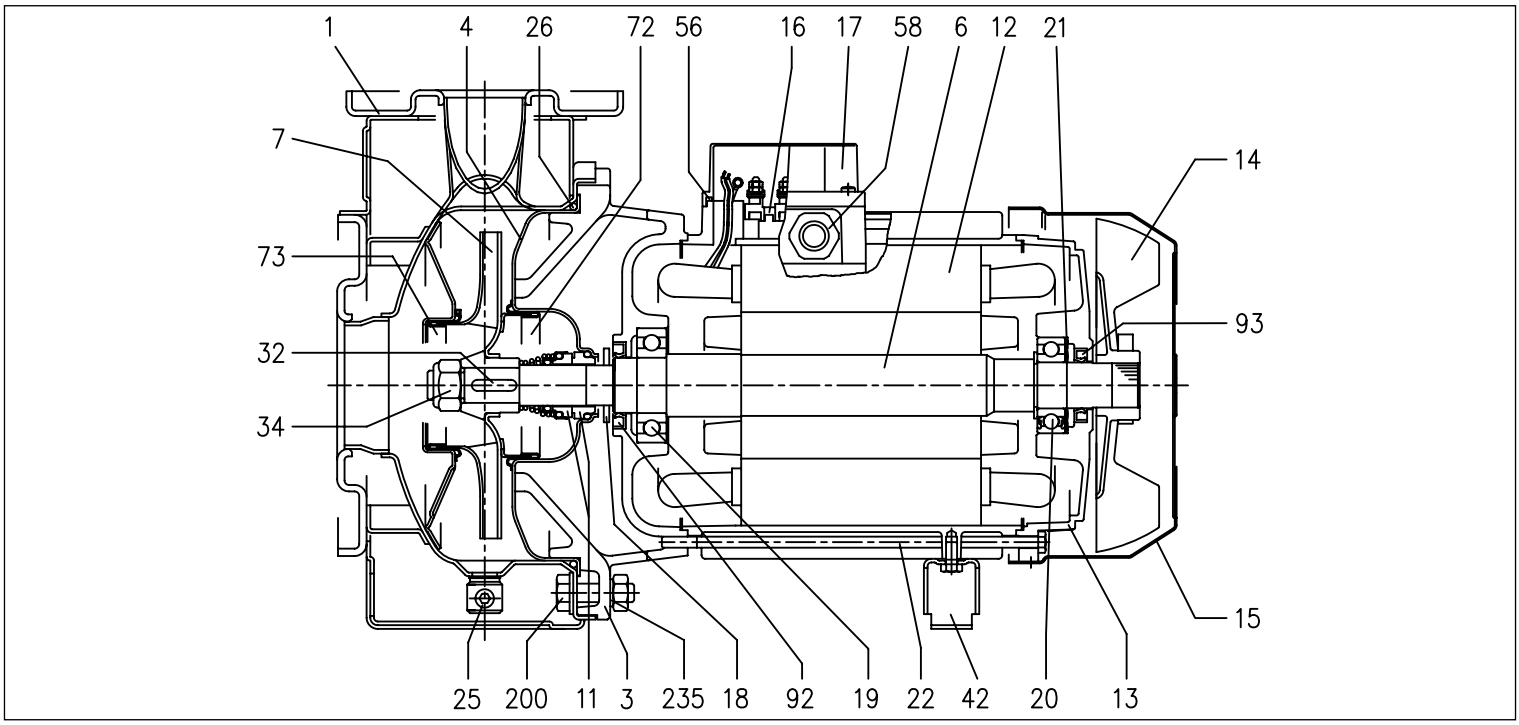
DIMENSIONS CHART

Model	[HP]	[kW]	Motor	Dimensions [mm]					
				d1	b1	h1	d2	b2	h2
32-125/0.25	0.33	0.25	71	24	8	27.3	14	5	16.3
32-160/0.37R	0.5	0.37	71	24	8	27.3	14	5	16.3
32-160/0.37	0.5	0.37	71	24	8	27.3	14	5	16.3
32-200/0.55R	0.75	0.55	80	24	8	27.3	19	6	21.8
32-200/0.55	0.75	0.55	80	24	8	27.3	19	6	21.8
32-200/0.75	1	0.75	80	24	8	27.3	19	6	21.8
40-125/0.37R	0.5	0.37	71	24	8	27.3	14	5	16.3
40-125/0.37	0.5	0.37	71	24	8	27.3	14	5	16.3
40-160/0.55R	0.75	0.55	80	24	8	27.3	19	6	21.8
40-160/0.55	0.75	0.55	80	24	8	27.3	19	6	21.8
40-200/1.1R	1.5	1.1	90	24	8	27.3	24	8	27.3
40-200/1.1	1.5	1.1	90	24	8	27.3	24	8	27.3
40-200/1.5	2	1.5	90	24	8	27.3	24	8	27.3
50-125/0.55R	0.75	0.55	80	24	8	27.3	19	6	21.8
50-125/0.55	0.75	0.55	80	24	8	27.3	19	6	21.8
50-160/1.1R	1.5	1.1	90	24	8	27.3	24	8	27.3
50-160/1.1	1.5	1.1	90	24	8	27.3	24	8	27.3
50-200/1.5R	2	1.5	90	24	8	27.3	24	8	27.3
50-200/1.5	2	1.5	90	24	8	27.3	24	8	27.3
50-200/2.2	3	2.2	100	24	8	27.3	28	8	31.3
65-125/0.55	0.75	0.55	80	24	8	27.3	19	6	21.8
65-125/0.75	1	0.75	80	24	8	27.3	19	6	21.8
65-125/1.1	1.5	1.1	90	24	8	27.3	24	8	27.3
65-160/1.1	1.5	1.1	90	24	8	27.3	24	8	27.3
65-160/1.5	2	1.5	90	24	8	27.3	24	8	27.3
65-160/2.2	3	2.2	100	24	8	27.3	28	8	31.3
65-200/2.2R	3	2.2	100	24	8	27.3	28	8	31.3
65-200/2.2	3	2.2	100	24	8	27.3	28	8	31.3
65-200/3	4	3	100	24	8	27.3	28	8	31.3
65-250/4	5.5	4	112	32	10	35.3	28	8	31.3
65-250/5.5	7.5	5.5	132	32	10	35.3	38	10	41.3
80-160/1.5	2	1.5	90	24	8	27.3	24	8	27.3
80-160/2.2R	3	2.2	100	24	8	27.3	28	8	31.3
80-160/2.2	3	2.2	100	24	8	27.3	28	8	31.3
80-200/3	4	3	100	32	10	35.3	28	8	31.3
80-200/4R	5.5	4	112	32	10	35.3	28	8	31.3
80-200/4	5.5	4	112	32	10	35.3	28	8	31.3
80-250/5.5R	7.5	5.5	132	32	10	35.3	38	10	41.3
80-250/5.5	7.5	5.5	132	32	10	35.3	38	10	41.3
80-250/7.5	10	7.5	132	32	10	35.3	38	10	41.3

CENTRIFUGAL ELECTRIC PUMPS STANDARDISED IN COMPLIANCE WITH EN 733 (EX DIN 24255)

SECTIONAL VIEW 3(L)M4 SERIES 32, 40, 50, 65

4 Poles



MATERIALS TABLE

Ref.	Name	Materials	
		3M4	3LM4
001	Pump body	EN 1.4301 (AISI 304)	EN 1.4404 (AISI 316L)
003	Motor mount	[2]	
004	Seal disk	EN 1.4301 (AISI 304)	EN 1.4404 (AISI 316L)
006	Rotor shaft (part in contact with liquid)	EN 1.4301 (AISI 304)	EN 1.4404 (AISI 316L)
007	Impeller 32, 40, 50	EN 1.4301 (AISI 304)	EN 1.4404 (AISI 316L)
	Impeller 65-125/160/200	EN 1.4401 (AISI 316)	
011	Mechanical seal	Carbon/Ceramic/NBR	SiC/SiC/FKM
012	Motor casing	-	
013	Motor cover	Aluminium	
014	Fan	PA	
015	Fan cover	Fe P04 galvanised steel	
016	Terminal block	-	
017	Terminal block cover	Aluminium (three phase version)	
018	Splash guard washer	NBR	-
019	Bearing (pump side)	-	
020	Bearing (motor side)	-	
021	Compensator ring	C70 steel	
022	Linkage	Fe 42 galvanised steel	
025	Drain cap	EN 1.4401 (AISI 316) / PTFE	
026	O-ring	NBR	FKM
032	Key	EN 1.4401 (AISI 316)	
034	Impeller nut	EN 1.4301 (AISI 304)	EN 1.4404 (AISI 316L)
042	Foot	Aluminium / Galvanised steel	
056	Terminal block cover gasket	NBR	
058	Cable gland	-	
072	Clearance ring [1]	EN 1.4301 (AISI 304)	EN 1.4404 (AISI 316L)
073	Clearance ring	EN 1.4301 (AISI 304)	EN 1.4404 (AISI 316L)
092	Seal ring	-	-
093	Seal ring	-	-
200	Screw (pump body)	A2 70 stainless steel class ISO 3506/1	
235	Washer	EN 1.4301 (AISI 304)	

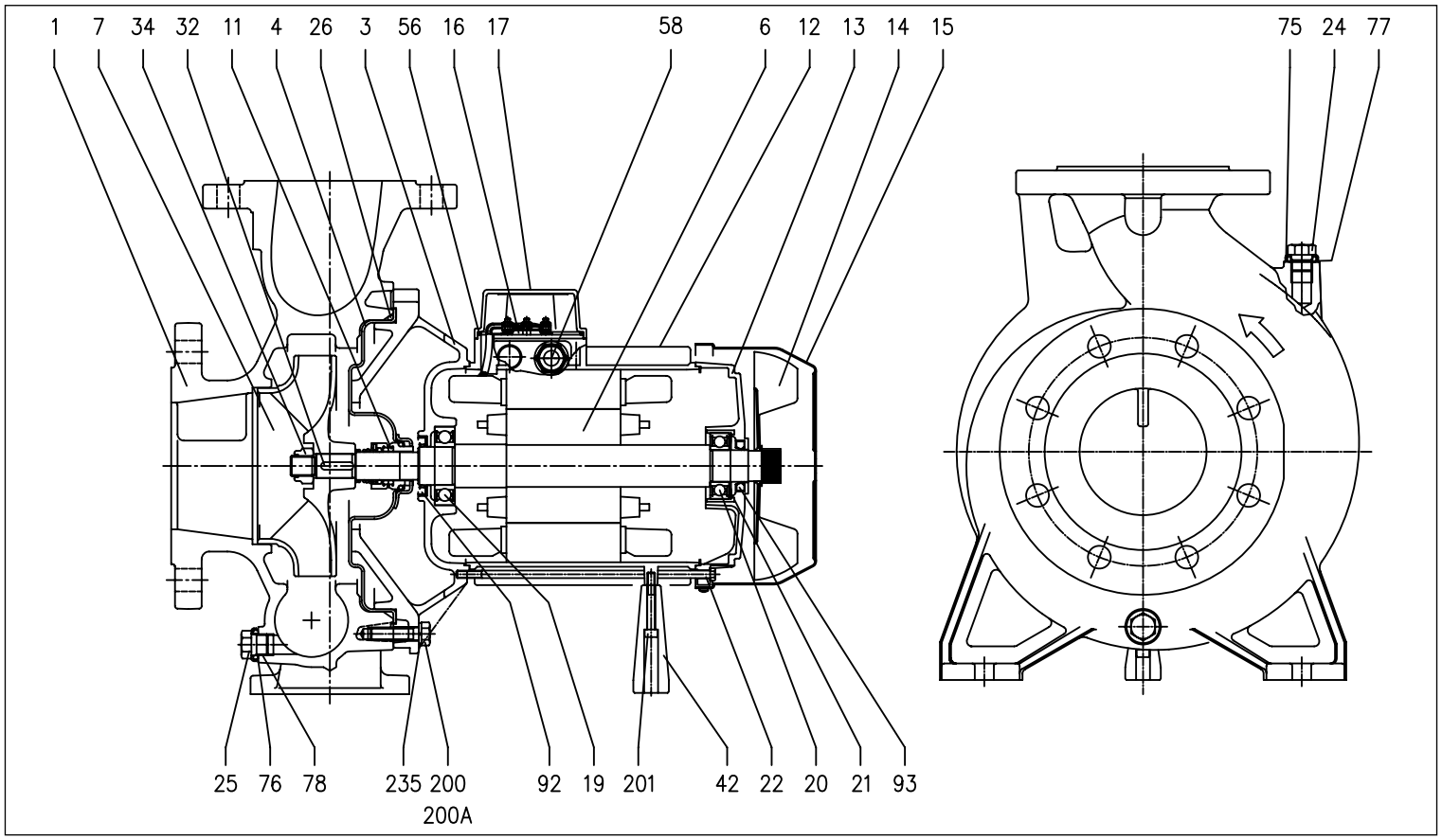
[1]= For versions 32-200, 40-200, 50-160 , 50-200
[2]= cast iron EN-GJL-200-EN 1561 for 32-200/3 and models with motor 15, 18.5 and 22 kW
Aluminium AL-EN-1706-AC-46000-D for all other models

3 - 3L SERIES (4 POLES)

CENTRIFUGAL ELECTRIC PUMPS STANDARDISED IN COMPLIANCE WITH EN 733 (EX DIN 24255)

SECTIONAL VIEW 3LM4 SERIES 80-160

4 Poles



MATERIALS TABLE

Ref.	Name	Materials	Ref.	Name	Materials
001	Pump body	EN 1.4401 (AISI 316)	025	Drain cap	EN 1.4404 (AISI 316L)
003	Motor mount	Cast iron EN-GJL-200-EN 1561	026	O-ring	FKM
004	Seal disk	EN 1.4404 (AISI 316L)	032	Key	EN 1.4404 (AISI 316L)
006	Rotor shaft	EN 1.4404 (AISI 316L) Part in contact with liquid	034	Impeller nut	EN 1.4404 (AISI 316L)
007	Impeller	EN 1.4401 (AISI 316)	042	Foot	Aluminium
011	Mechanical seal	SiC/SiC/FKM	056	Terminal block cover gasket	NBR
012	Motor casing	-	058	Cable gland	-
013	Motor cover	Aluminium	075	Washer	EN 1.4404 (AISI 316L)
014	Fan	PA	076	Washer	EN 1.4404 (AISI 316L)
015	Fan cover	Fe P04 galvanised steel	077	O-ring	FKM [1]
016	Terminal block	-	078	O-ring	
017	Terminal block cover	Aluminium	092	Seal ring	-
019	Bearing (pump side)	-	093	Seal ring	-
020	Bearing (motor side)	-	200	Screw (pump body)	A2-70 stainless steel class ISO 3506/1
021	Compensator ring	C70 steel	201	Foot bolt	A2-70 stainless steel class ISO 3506/1
022	Linkage	Fe 42 galvanised steel	235	Washer	EN 1.4301 (AISI 304)
024	Filler cap	EN 1.4404 (AISI 316L)			

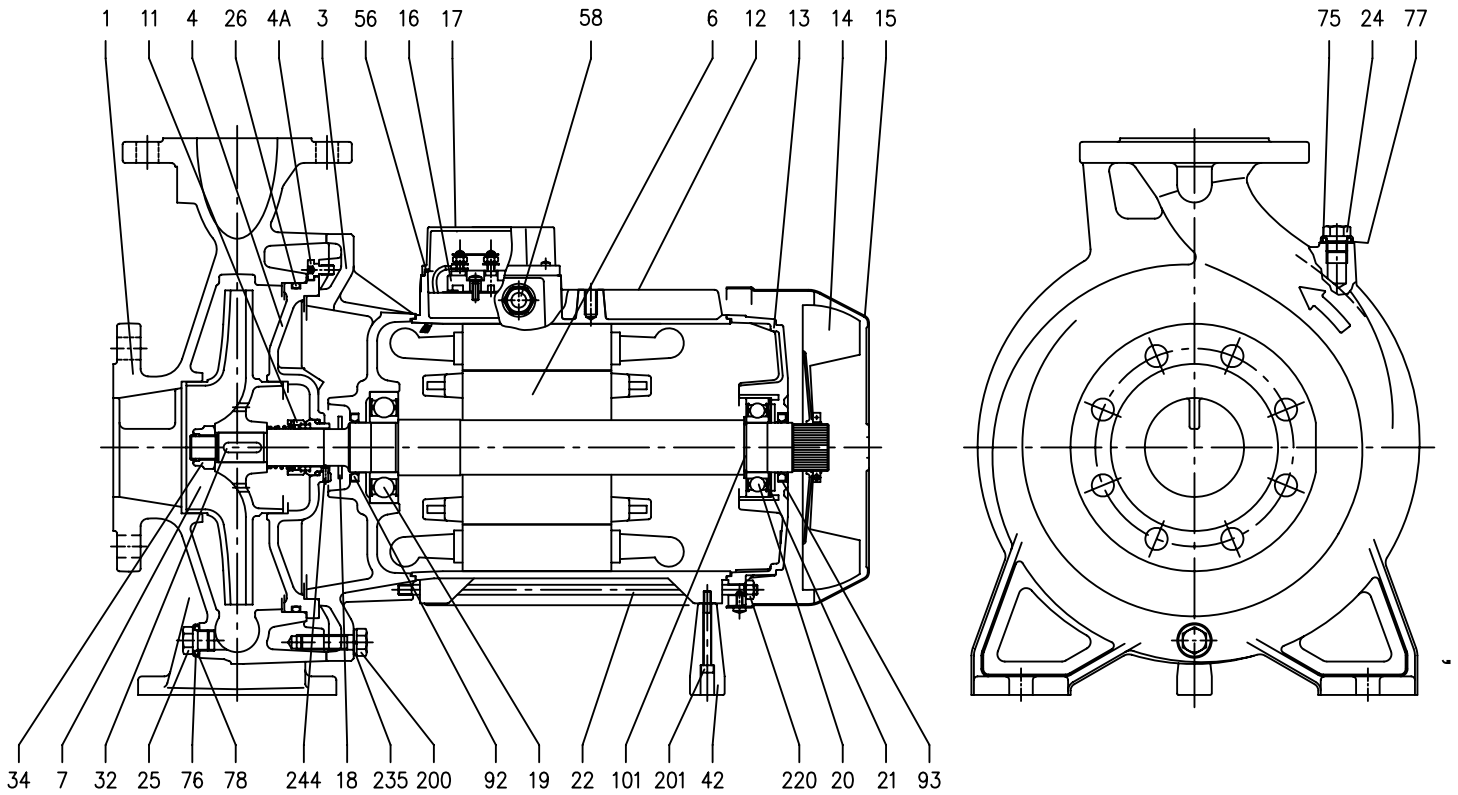
[1]= EPDM for version E

3 - 3L SERIES (4 POLES)

CENTRIFUGAL ELECTRIC PUMPS STANDARDISED IN COMPLIANCE WITH EN 733 (EX DIN 24255)

SECTIONAL VIEW 3LM4 SERIES 65-250, 80

4 Poles



MATERIALS TABLE

Ref.	Name	Materials	Ref.	Name	Materials
001	Pump body	EN 1.4401 (AISI 316)	032	Key	EN 1.4404 (AISI 316L)
003	Motor mount	Cast iron EN-GJL-200-EN 1561	034	Impeller nut	Aluminium
004	Seal disk	EN 1.4401 (AISI 316)	042	Foot	Aluminium
004A	Bolt for seal disk	EN 1.4301 (AISI 304)	056	Terminal block cover gasket	NBR
006	Rotor shaft	EN 1.4404 (AISI 316L) Part in contact with liquid	058	Cable gland	-
007	Impeller	EN 1.4401 (AISI 316)	075	Washer	EN 1.4404 (AISI 316L)
011	Mechanical seal	SiC/SiC/FKM	076	Washer	
012	Motor casing	-	077	O-ring	FKM [2]
013	Motor cover	Aluminium	078	O-ring	
014	Fan	PA	092	Seal ring (3-4 kW, 5.5 kW)	-
015	Fan cover	Fe P04 galvanised steel			
016	Terminal block	-	093	Seal ring (3 kW, 4 kW, 5.5 kW)	-
017	Terminal block cover	Aluminium			
018	Splash guard washer	NBR			
019	Bearing (pump side)	-	101	Circlip (5.5 kW only)	Carbon steel TC 80
020	Bearing (motor side)	-	200	Screw (pump body)	A2-70 stainless steel class ISO 3506/1
021	Compensator ring	C70 steel	201	Foot bolt	A2-70 stainless steel class ISO 3506/1
022	Linkage	Fe 42 galvanised steel	220	Linkage nut	Galvanised steel
024	Filler cap	EN 1.4404 (AISI 316L)	235	Washer	EN 1.4301(AISI 304)
025	Drain cap	EN 1.4404 (AISI 316L)	244	Stud [1]	EN 1.4301(AISI 304)
026	O-ring	FKM			

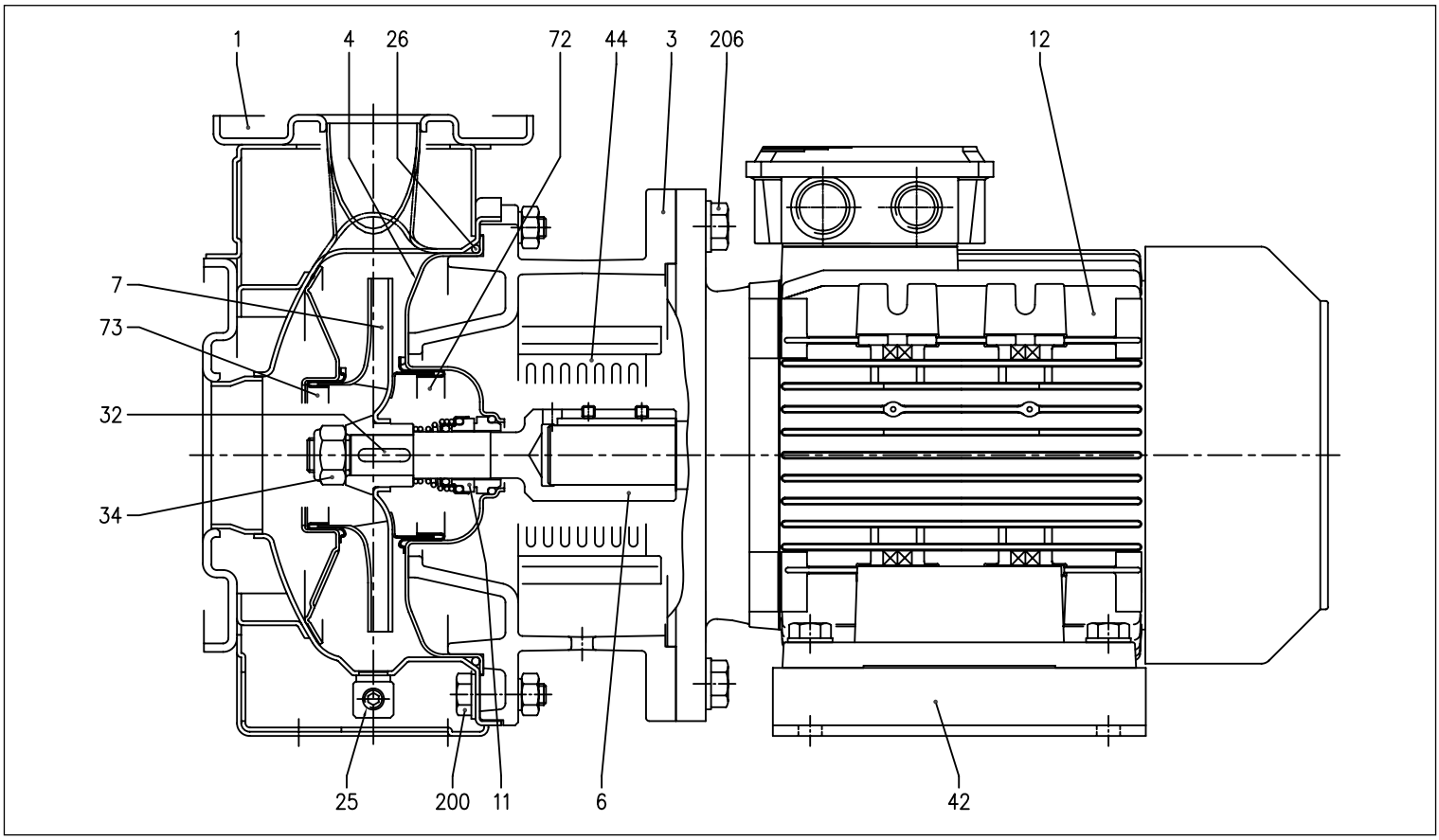
[1]= Not for versions H, HW, HSW and E
[2]= EPDM for version E

3 - 3L SERIES (4 POLES)

CENTRIFUGAL ELECTRIC PUMPS STANDARDISED IN COMPLIANCE WITH EN 733 (EX DIN 24255)

SECTIONAL VIEW 3(L)S4 SERIES 32, 40, 50, 65-125/160/200

4 Poles



MATERIALS TABLE

Ref.	Name		Materials 3S4	Materials 3LS4
001	Pump body		EN 1.4301 (AISI 304)	EN 1.4404 (AISI 316L)
003	Motor mount		Cast iron EN-GJL-200-EN 1561	
004	Seal disk		EN 1.4301 (AISI 304)	EN 1.4404 (AISI 316L)
006	Coupling - Part in contact with liquid		EN 1.4301 (AISI 304)	EN 1.4404 (AISI 316L)
007	Impeller	32, 40, 50	EN 1.4301 (AISI 304)	EN 1.4404 (AISI 316L)
		65-125/160/200	EN 1.4401 (AISI 316)	
011	Mechanical seal		Carbon/Ceramic/NBR	SiC/SiC/FKM
012	Motor		-	
025	Drain cap		EN 1.4401 (AISI 316) / PTFE	
026	O-ring		NBR [2]	FKM
032	Key		EN 1.4401 (AISI 316)	
034	Impeller nut		EN 1.4301 (AISI 304)	EN 1.4404 (AISI 316L)
042	Foot		Galvanised steel	
044	Mount protection		EN 1.4301 (AISI 304)	
072	Clearance ring [1]	not for 65	EN 1.4301 (AISI 304)	EN 1.4404 (AISI 316L)
073	Clearance ring	not for 65	EN 1.4301 (AISI 304)	EN 1.4404 (AISI 316L)
200	Screw (pump body)		A2 70 stainless steel class ISO 3506/1	
206	Bolt		Galvanised steel	

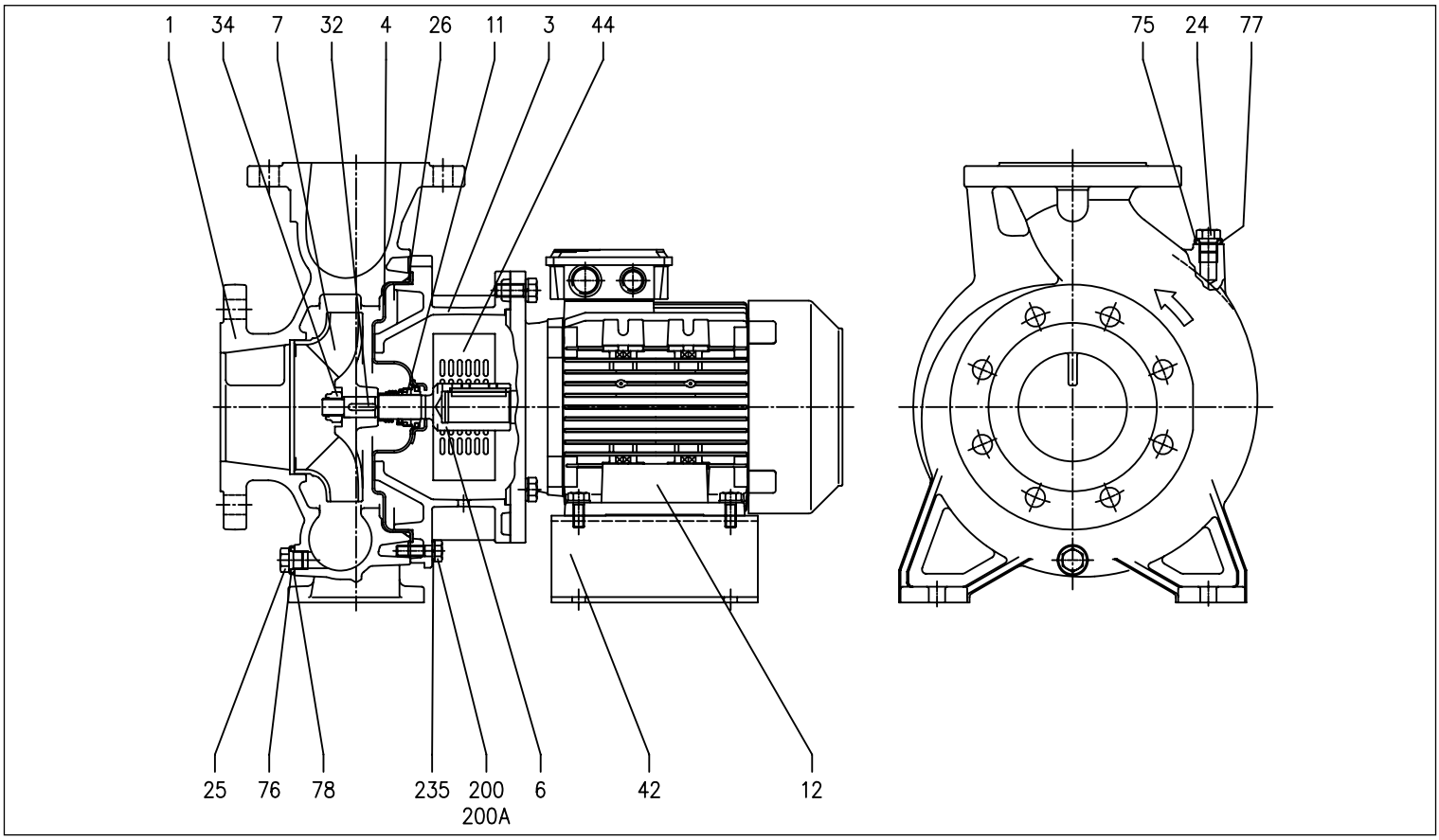
[1]= Versions 32-200, 40-200, 50-160, 50-200 only
[2]= FPM for versions H-HS-HW-HSW, EPDM for version E

3 - 3L SERIES (4 POLES)

CENTRIFUGAL ELECTRIC PUMPS STANDARDISED IN COMPLIANCE WITH EN 733 (EX DIN 24255)

SECTIONAL VIEW 3LS4 SERIES 80-160

4 Poles



MATERIALS TABLE

Ref.	Name	Materials	Ref.	Name	Materials
001	Pump body	EN 1.4401 (AISI 316)	032	Key	EN 1.4401 (AISI 316)
003	Motor mount	Cast iron EN-GJL-200-EN 1561	034	Impeller nut	EN 1.4404 (AISI 316L)
004	Seal disk	EN 1.4404 (AISI 316L)	042	Foot	Galvanised steel
006	Coupling	EN 1.4404 (AISI 316L)	044	Mount protection	EN 1.4301 (AISI 304)
007	Impeller	EN 1.4401 (AISI 316)	075	Washer	EN 1.4404 (AISI 316L)
011	Mechanical seal	SiC/SiC/FKM	076	Washer	
012	Motor	-	077	O-ring	FKM [1]
024	Filler cap	EN 1.4404 (AISI 316L)	078	O-ring	
025	Drain cap	EN 1.4404 (AISI 316L)	200	Screw (pump body)	A2-70 stainless steel class ISO 3506/1
026	O-ring	FKM [1]	235	Washer	EN 1.4301(AISI 304)

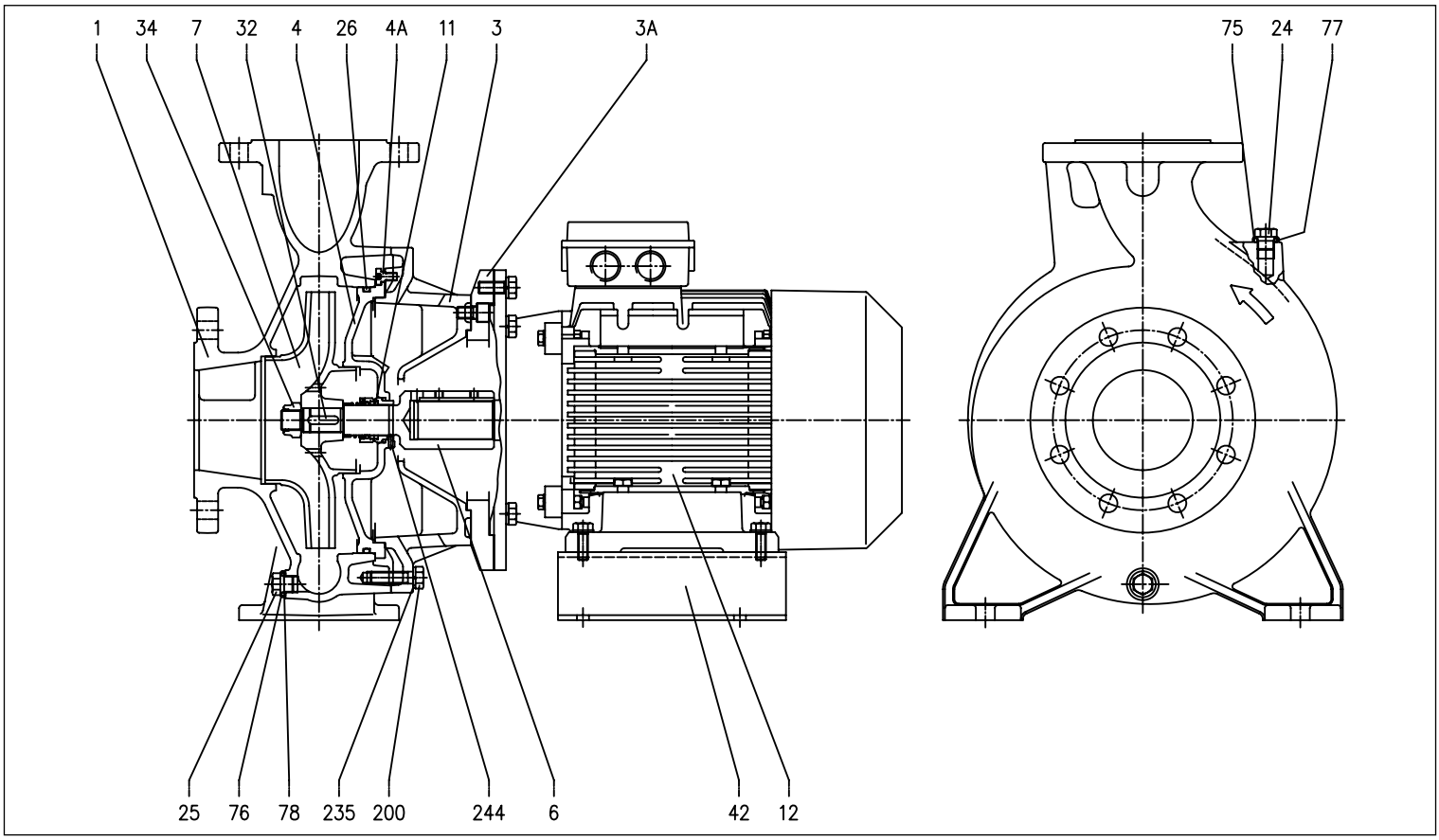
[1]= EPDM for version E

3 - 3L SERIES (4 POLES)

CENTRIFUGAL ELECTRIC PUMPS STANDARDISED IN COMPLIANCE WITH EN 733 (EX DIN 24255)

SECTIONAL VIEW 3LS4 SERIES 65-250, 80

4 Poles



MATERIALS TABLE

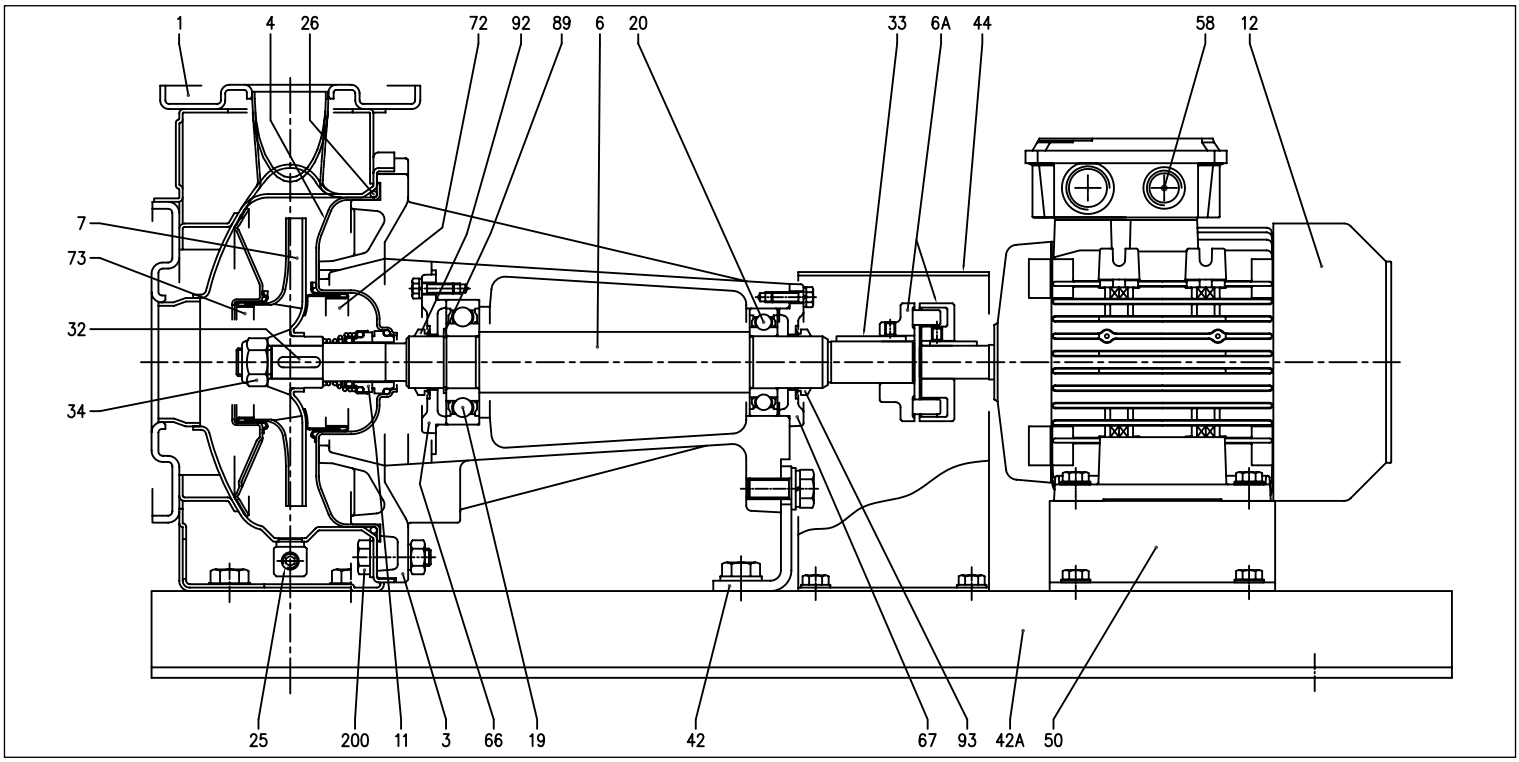
Ref.	Name	Materials	Ref.	Name	Materials
001	Pump body	EN 1.4401 (AISI 316)	032	Key	EN 1.4401 (AISI 316)
003	Motor mount	Cast iron EN-GJL-200-EN 1561	034	Impeller nut	EN 1.4404 (AISI 316L)
003A	Adapter ring [1]	Cast iron EN-GJL-200-EN 1561	042	Motor foot	Galvanised steel
004	Seal disk	EN 1.4401 (AISI 316)	075	Washer	EN 1.4404 (AISI 316L)
004A	Bolt for seal disk	EN 1.4301(AISI 304)	076	Washer	
006	Coupling	EN 1.4404 (AISI 316L)	077	O-ring	FKM [3]
007	Impeller	EN 1.4401 (AISI 316)	078	O-ring	
011	Mechanical seal	SiC/SiC/FKM	200	Screw (pump body)	A2-70 stainless steel class ISO 3506/1
012	Motor	-	235	Washer	EN 1.4301(AISI 304)
024	Filler cap	EN 1.4404 (AISI 316L)	244	Stud [2]	EN 1.4301(AISI 304)
025	Drain cap	EN 1.4404 (AISI 316L)			
026	O-ring	FKM [3]			

[1]= 65-250/5.5 kW only
[2]= Not for versions H-HW-HSW and E
[3]= EPDM for version E

CENTRIFUGAL ELECTRIC PUMPS STANDARDISED IN COMPLIANCE WITH EN 733 (EX DIN 24255)

SECTIONAL VIEW 3(L)P4 SERIES 32, 40, 50, 65-125/160/200

4 Poles



MATERIALS TABLE

Ref.	Name		Materials 3P4	Materials 3LP4
001	Pump body		EN 1.4301 (AISI 304)	EN 1.4404 (AISI 316L)
003	Motor mount		Cast iron EN-GJL-200-EN 1561	
004	Seal disk		EN 1.4301 (AISI 304)	EN 1.4404 (AISI 316L)
006	Shaft - Part in contact with liquid		EN 1.4301 (AISI 304)	EN 1.4404 (AISI 316L)
006A	Flexible coupling		Cast iron EN-GJL-200-EN 1561	
007	Impeller	32, 40, 50	EN 1.4301 (AISI 304)	EN 1.4404 (AISI 316L)
		65-125/160/200	EN 1.4401 (AISI 316)	
011	Mechanical seal		Carbon/Ceramic/NBR	SiC/SiC/FKM
012	Motor		-	
019	Bearing (pump side)		-	
020	Bearing (motor side)		-	
025	Drain cap		EN 1.4401 (AISI 316) / PTFE	
026	O-ring		NBR [2]	FKM
032	Key		EN 1.4401 (AISI 316)	
033	Key		C 40	
034	Impeller nut		EN 1.4301 (AISI 304)	EN 1.4404 (AISI 316L)
042	Foot		Galvanised steel	
042A	Base		Galvanised steel	
044	Protection		Galvanised steel	
050	Motor foot		Galvanised steel	
058	Nut		-	
066	Bearing cover		Cast iron EN-GJL-250-EN 1561	
067	Bearing cover		Cast iron EN-GJL-250-EN 1561	
072	Clearance ring [1]	not for 65	EN 1.4301 (AISI 304)	EN 1.4404 (AISI 316L)
073	Clearance ring	not for 65	EN 1.4301 (AISI 304)	EN 1.4404 (AISI 316L)
089	Circlip		Carbon steel TC 80	
092	V ring		-	
093	V ring		-	
200	Screw (pump body)		A2 70 stainless steel class ISO 3506/1	

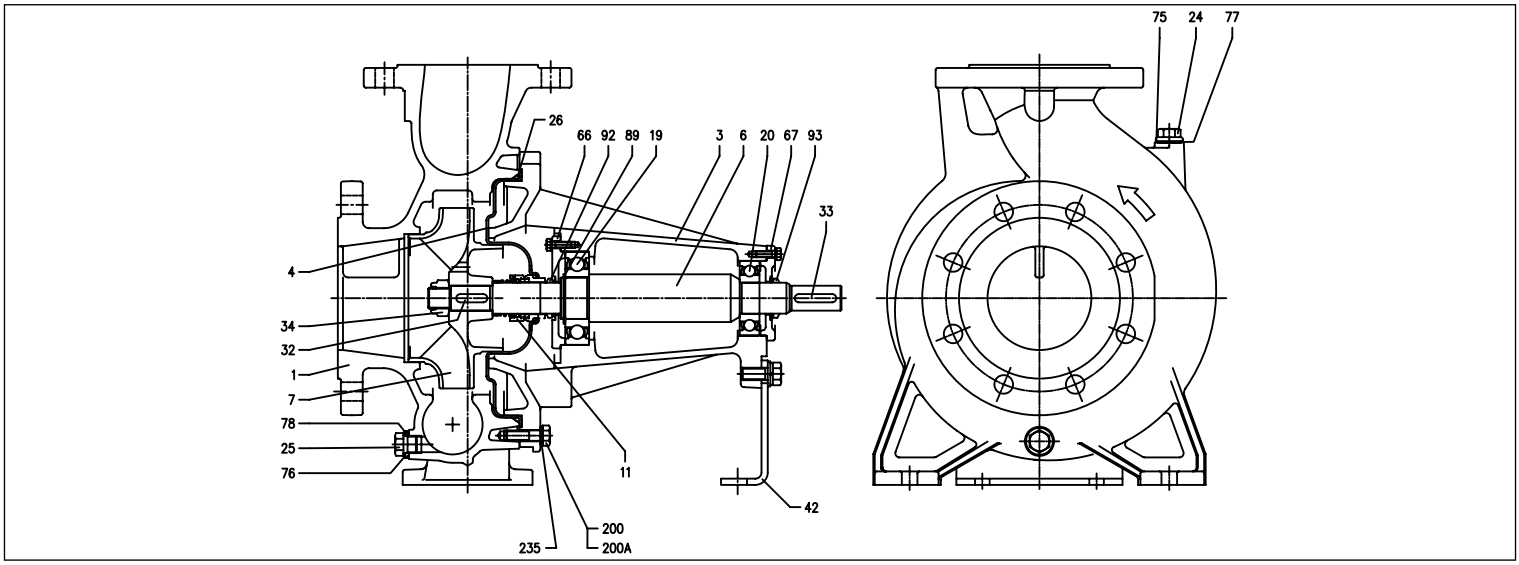
[1]= For versions: 32-200, 40-200, 50-1602, 50-200
[2]= FPM for versions H-HS-HW-HSW and EPDM for version E

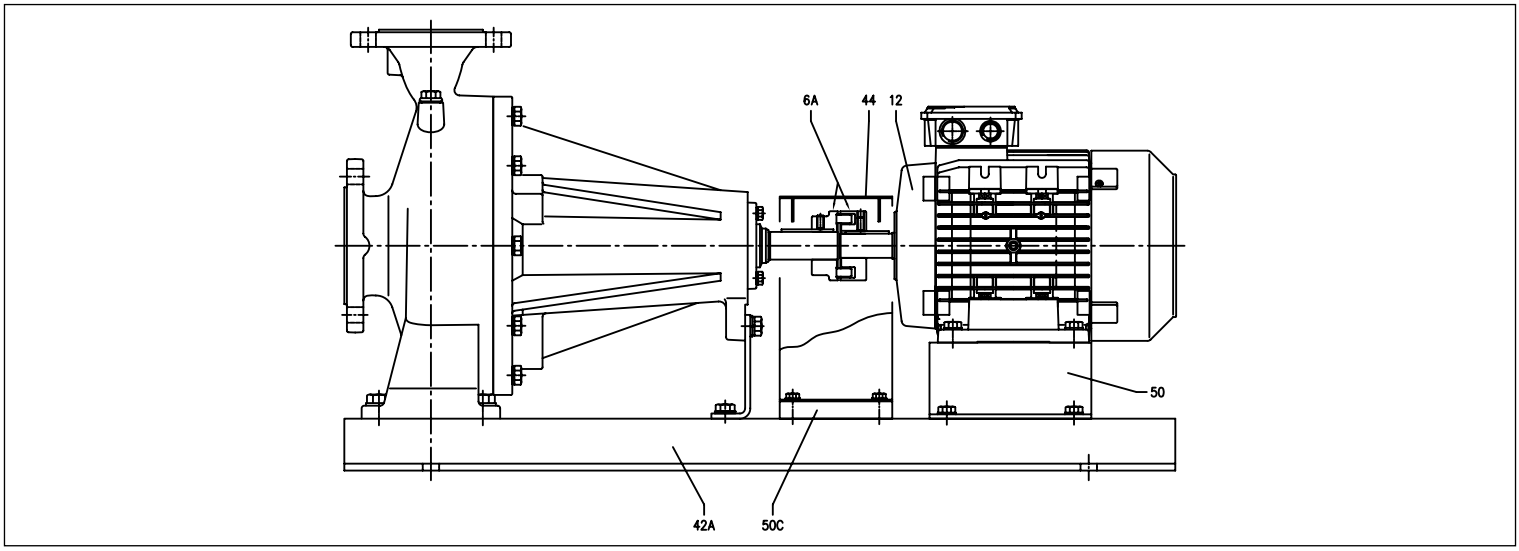
3 - 3L SERIES (4 POLES)

CENTRIFUGAL ELECTRIC PUMPS STANDARDISED IN COMPLIANCE WITH EN 733 (EX DIN 24255)

SECTIONAL VIEW 3LP4 SERIES 80-160

4 Poles





MATERIALS TABLE

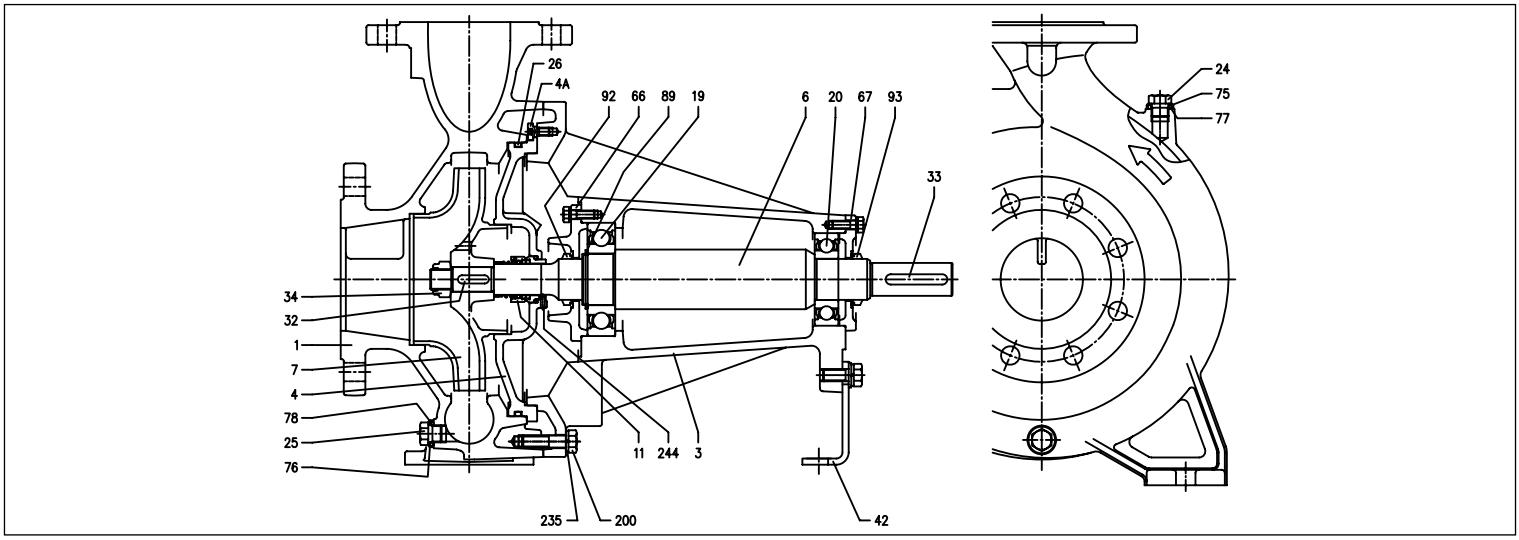
Ref.	Name	Material	Ref.	Name	Material
001	Pump body	EN 1.4401 (AISI 316)	042	Pump mount	Galvanised steel
003	Motor mount	Cast iron EN-GJL-200-EN 1561	042A	Base	Galvanised steel
004	Seal disk	EN 1.4404 (AISI 316L)	044	Protection	Galvanised steel
006	Shaft	EN 1.4404 (AISI316L) Part in contact with liquid	050	Motor foot	Galvanised steel
			050C	Coupling protection [2]	Aluminium
006A	Flexible coupling	Cast iron EN-GJL-200-EN 1561	066	Bearing cover	Cast iron EN-GJL-200-EN 1561
007	Impeller	EN 1.4401 (AISI 316)	067	Bearing cover	Cast iron EN-GJL-200-EN 1561
011	Mechanical seal	SiC/SiC/FKM	075	Washer	EN 1.4404 (AISI 316L)
012	Motor	-	076	Washer	
019	Bearing (pump side)	-	077	O-ring	FKM [1]
020	Bearing (motor side)	-	078	O-ring	
024	Filler cap	EN 1.4404 (AISI 316L)	089	Circlip	Carbon steel TC 80
025	Drain cap	EN 1.4404 (AISI 316L)	092	V ring	-
026	O-ring	FKM [1]	093	V ring	-
032	Key	EN 1.4401 (AISI 316)	200	Screw (pump body)	A2 70 stainless steel class ISO 3506/1
033	Key	C 40	200A	Bolt	A2 70 stainless steel class ISO 3506/1
034	Impeller nut	EN 1.4404 (AISI 316L)	235	Washer	EN 1.4301(AISI 304)

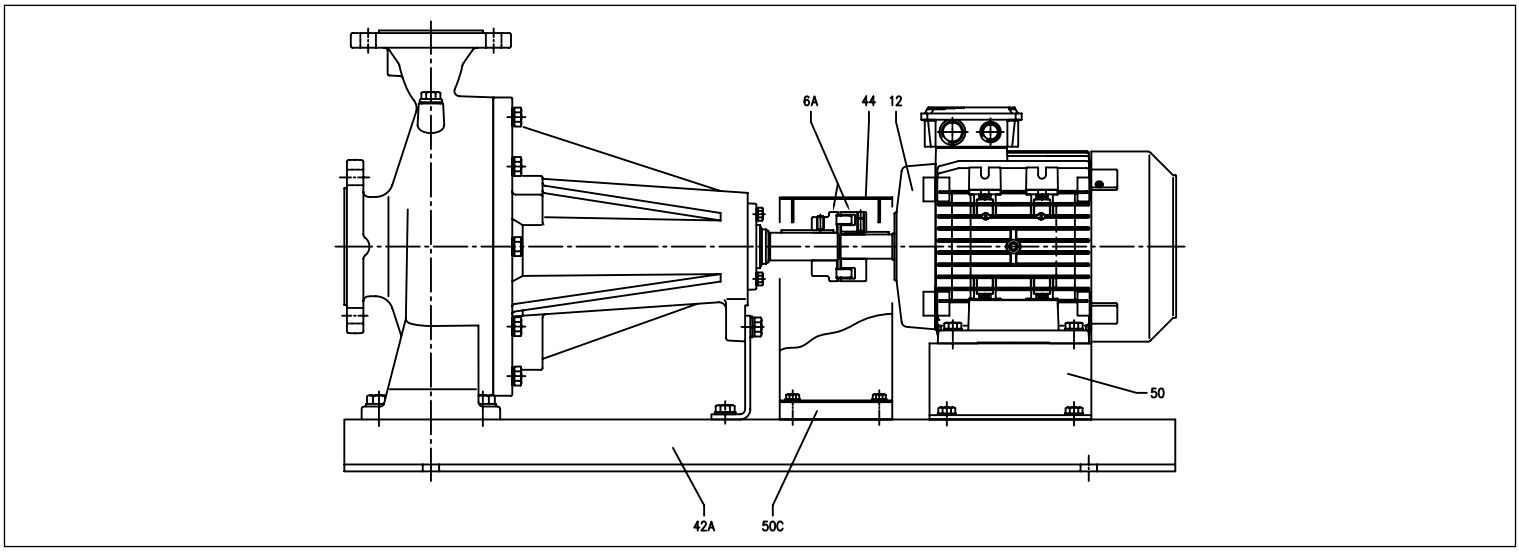
[1]= EPDM for version E
[2]= 1.5 kW only

CENTRIFUGAL ELECTRIC PUMPS STANDARDISED IN COMPLIANCE WITH EN 733 (EX DIN 24255)

SECTIONAL VIEW 3LP4 SERIES 65-250, 80

4 Poles





MATERIALS TABLE

Ref.	Name	Material	Ref.	Name	Material
001	Pump body	EN 1.4401 (AISI 316)	042	Foot	Galvanised steel
003	Motor mount	Cast iron EN-GJL-200-EN 1561	042A	Base	Galvanised steel
004	Seal disk	EN 1.4401 (AISI 316)	044	Protection	Galvanised steel
004A	Bolt for seal disk	EN 1.4301(AISI 304)	050	Motor foot	Galvanised steel
006	Shaft	EN 1.4462 (duplex steel) Part in contact with liquid	050C	Coupling protection	Aluminium
006A	Flexible coupling	Cast iron EN-GJL-200-EN 1561	066	Mount cover	Cast iron EN-GJL-200-EN 1561
007	Impeller	EN 1.4401 (AISI 316)	067	Mount cover	Cast iron EN-GJL-200-EN 1561
011	Mechanical seal	SiC/SiC/FKM	075	Washer	EN 1.4404 (AISI 316L)
012	Motor	-	076	Washer	EN 1.4404 (AISI 316L)
019	Bearing (pump side)	-	077	O-ring	FKM [2]
020	Bearing (motor side)	-	078	O-ring	
024	Filler cap	EN 1.4404 (AISI 316L)	089	Circlip	Carbon steel TC 80
025	Drain cap	EN 1.4404 (AISI 316L)	092	Seal ring	-
026	O-ring	FKM [2]	093	Seal ring	-
032	Key	EN 1.4401 (AISI 316)	200	Screw (pump body)	A2 70 stainless steel class ISO 3506/1
033	Key	C 40	235	Washer	EN 1.4301 (AISI 304)
034	Impeller nut	EN 1.4404 (AISI 316L)	244	Stud [1]	EN 1.4301 (AISI 304)

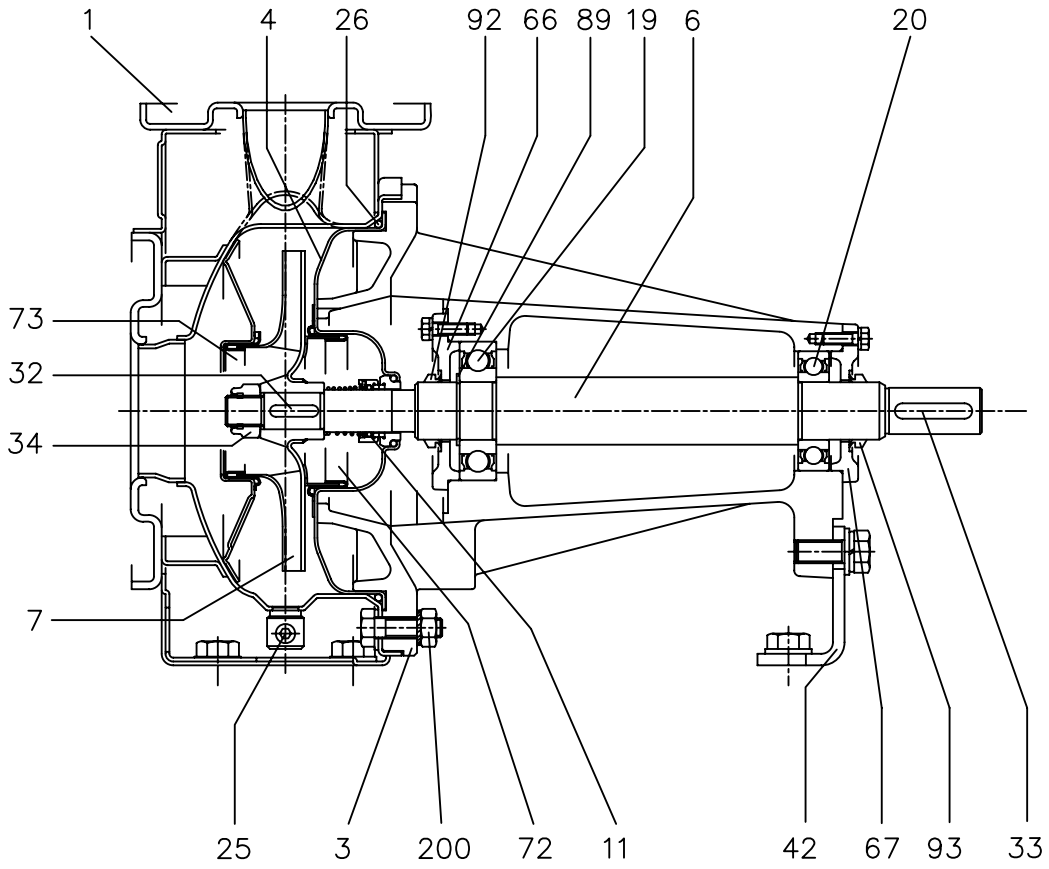
[1]= Not for versions H and E
[2]= EPDM for version E

3 - 3L SERIES (4 POLES)

CENTRIFUGAL ELECTRIC PUMPS STANDARDISED IN COMPLIANCE WITH EN 733 (EX DIN 24255)

SECTIONAL VIEW 3(L)PF4 SERIES 32, 40, 50, 65

4 Poles



MATERIALS TABLE

Ref.	Name	Material 3PF4	Material 3LPF4
001	Pump body	EN 1.4301 (AISI 304)	EN 1.4404 (AISI 316L)
003	Motor mount	Cast iron EN-GJL-200-EN 1561	
004	Seal disk	EN 1.4301 (AISI 304)	EN 1.4404 (AISI 316L)
006	Shaft - Part in contact with liquid	EN 1.4301 (AISI 304)	EN 1.4404 (AISI 316L)
007	Impeller 32, 40, 50	EN 1.4301 (AISI 304)	EN 1.4404 (AISI 316L)
	Impeller 65-125/160/200	EN 1.4401 (AISI 316)	
011	Mechanical seal	Carbon/Ceramic/NBR	SiC/SiC/FKM
019	Bearing (pump side)	-	
020	Bearing (motor side)	-	
025	Drain cap	EN 1.4401 (AISI 316) / PTFE	
026	O-ring	NBR [2]	FKM
032	Key	EN 1.4401 (AISI 316)	
033	Key	C 40	
034	Impeller nut	EN 1.4301 (AISI 304)	EN 1.4404 (AISI 316L)
042	Foot	Galvanised steel	
066	Mount cover	Cast iron EN-GJL-250-EN 1561	
067	Mount cover	Cast iron EN-GJL-250-EN 1561	
072	Clearance ring [1] not for 65	EN 1.4301 (AISI 304)	EN 1.4404 (AISI 316L)
073	Clearance ring not for 65	EN 1.4301 (AISI 304)	EN 1.4404 (AISI 316L)
089	Circlip	Carbon steel TC 80	
092	Seal ring	-	
093	Seal ring	-	
200	Screw (pump body)	A2 70 stainless steel class ISO 3506/1	

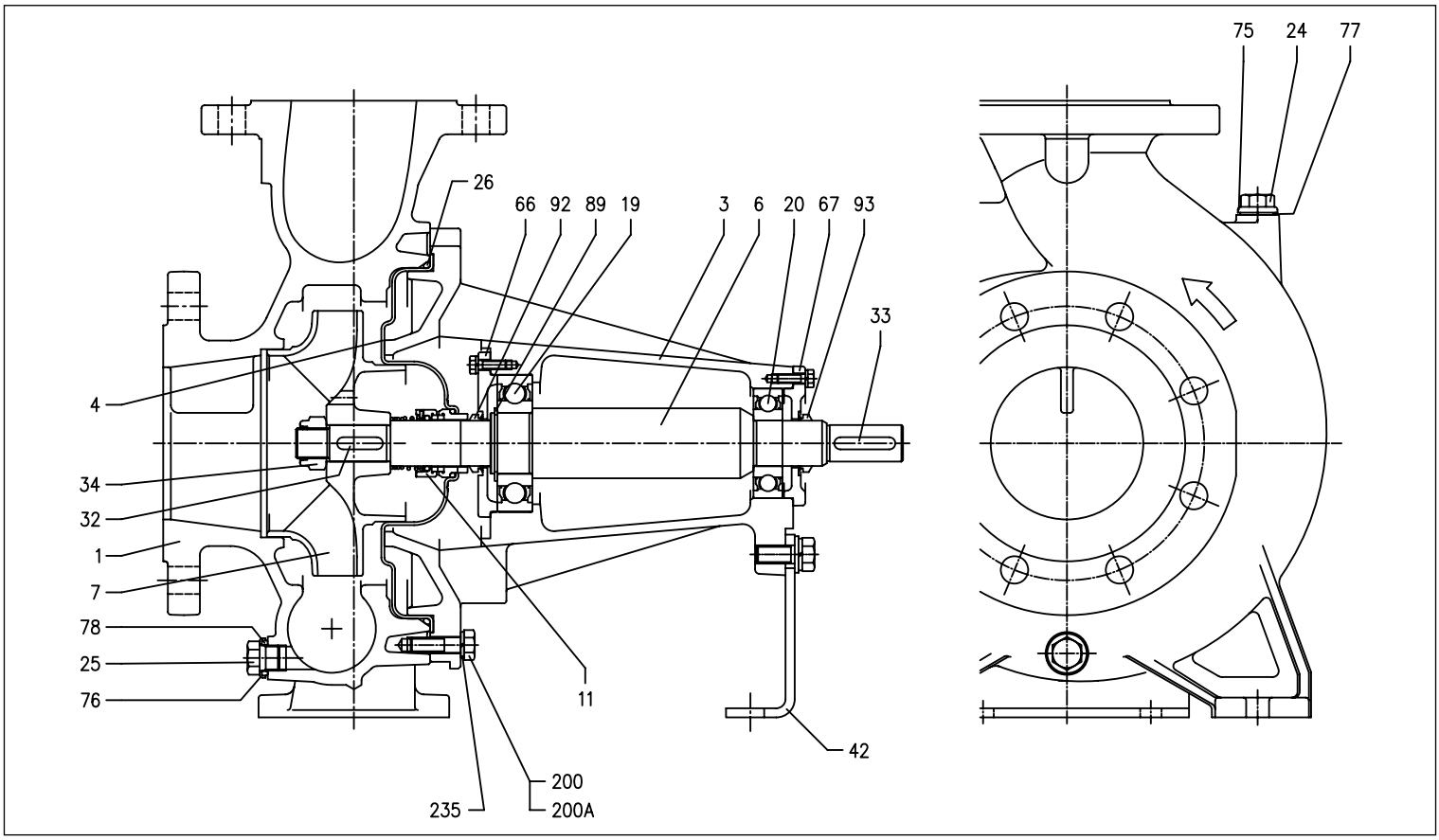
[1]= For versions: 32-200, 40-200, 50-160, 50-200
[2]= FKM for versions H and HS

3 - 3L SERIES (4 POLES)

CENTRIFUGAL ELECTRIC PUMPS STANDARDISED IN COMPLIANCE WITH EN 733 (EX DIN 24255)

SECTIONAL VIEW 3LPF4 SERIES 80-160

4 Poles



MATERIALS TABLE

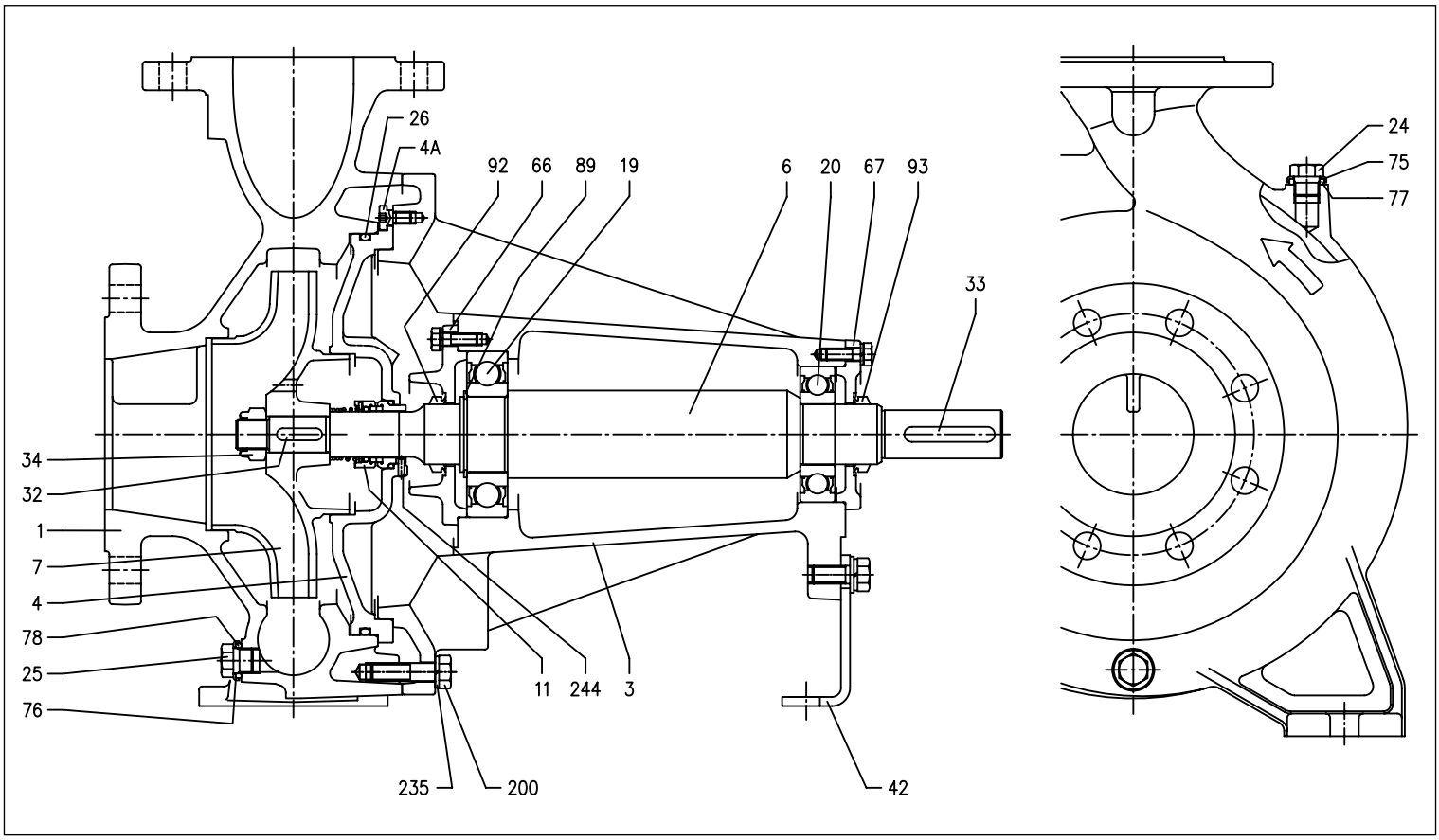
Ref.	Name	Material	Ref.	Name	Material
001	Pump body	EN 1.4401 (AISI 316)	033	Key	C 40
003	Motor mount	Cast iron EN-GJL-200-EN 1561	034	Impeller nut	EN 1.4404 (AISI 316L)
004	Seal disk	EN 1.4404 (AISI 316L)	042	Pump mount	Galvanised steel
006	Shaft	EN 1.4404 (AISI316L) Part in contact with liquid	066	Mount cover	Cast iron EN-GJL-200-EN 1561
			067	Mount cover	Cast iron EN-GJL-200-EN 1561
007	Impeller	EN 1.4401 (AISI 316)	075	Washer	EN 1.4404 (AISI 316L)
011	Mechanical seal	SiC/SiC/FKM	076	Washer	
			077	O-ring	FKM [1]
			078	O-ring	
019	Bearing (pump side)	-	089	Circlip	Carbon steel TC 80
020	Bearing (motor side)	-	092	V ring	-
024	Filler cap	EN 1.4404 (AISI 316L)	093	V ring	-
025	Drain cap	EN 1.4404 (AISI 316L)	200	Screw (pump body)	A2 70 stainless steel class ISO 3506/1
026	O-ring	FKM [1]	200A	Bolt	A2 70 stainless steel class ISO 3506/1
032	Key	EN 1.4401 (AISI 316)	235	Washer	EN 1.4301(AISI 304)

[1]= EPDM for version E

CENTRIFUGAL ELECTRIC PUMPS STANDARDISED IN COMPLIANCE WITH EN 733 (EX DIN 24255)

SECTIONAL VIEW 3LPF4 SERIES 65-250, 80

4 Poles



MATERIALS TABLE

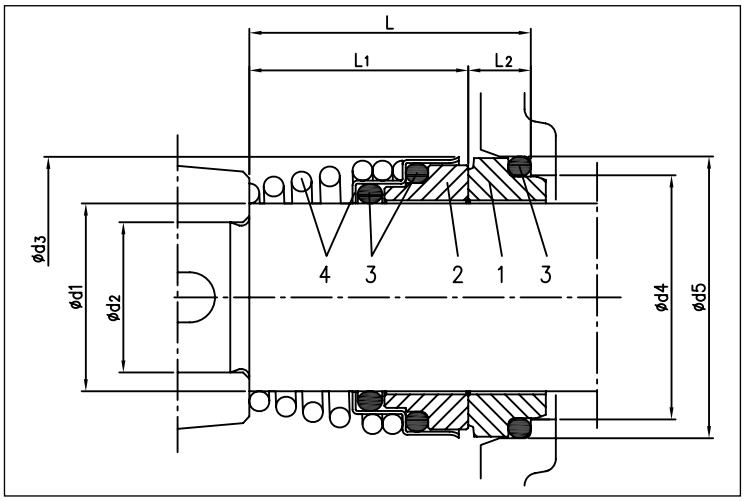
Ref.	Name	Material	Ref.	Name	Material
001	Pump body	EN 1.4401 (AISI 316)	034	Impeller nut	EN 1.4404 (AISI 316L)
003	Motor mount	Cast iron EN-GJL-200-EN 1561	042	Foot	Galvanised steel
004	Seal disk	EN 1.4401 (AISI 316)	066	Mount cover	Cast iron EN-GJL-200-EN 1561
004A	Bolt for seal disk	EN 1.4301(AISI 304)	067	Mount cover	Cast iron EN-GJL-200-EN 1561
006	Shaft	EN 1.4462 (duplex steel) Part in contact with liquid	075	Washer	EN 1.4404 (AISI 316L)
007	Impeller	EN 1.4401 (AISI316)	076	Washer	
011	Mechanical seal	SiC/SiC/FKM	077	O-ring	FKM [2]
			078	O-ring	
			089	Circlip	Carbon steel TC 80
019	Bearing (pump side)	-	092	Seal ring	-
020	Bearing (motor side)	-	093	Seal ring	-
024	Filler cap	EN 1.4404 (AISI 316L)	200	Screw (pump body)	A2 70 stainless steel class ISO 3506/1
025	Drain cap	EN 1.4404 (AISI 316L)	235	Washer	EN 1.4301 (AISI 304)
026	O-ring	FKM [2]	244	Stud [1]	EN 1.4301 (AISI 304)
032	Key	EN 1.4401 (AISI 316)			
033	Key	C 40			

[1]= Not for versions H and E
[2]= EPDM for version E

3 - 3L SERIES (4 POLES)

CENTRIFUGAL ELECTRIC PUMPS STANDARDISED IN COMPLIANCE WITH EN 733 (EX DIN 24255)

MECHANICAL SEAL standard version



MATERIALS TABLE

Ref.	Name	Materials	
		3 SERIES	3L SERIES
1	Fixed section	Carbon	SiC
2	Rotary section	Ceramic	SiC
3	Gasket	NBR	FKM
4	Frame + spring	EN 1.4401 (AISI 316)	EN 1.4571 (AISI 316Ti)

SPECIAL MECHANICAL SEALS 3 SERIES (on request)

Name	Materials				
	Version H	Version HS	Version HW	Version HSW	Version E
Fixed section	Carbon	SiC	Tungsten carbide	Tungsten carbide	Carbon
Rotary section	Ceramic	SiC	Tungsten carbide	SiC	Ceramic
Elastomers	FKM	FKM	FKM	FKM	EPDM
Spring	AISI 316	AISI 316Ti	AISI 316	AISI 316	AISI 316Ti
Structure/frame	AISI 316	AISI 316Ti	AISI 316	AISI 316	AISI 316Ti

SPECIAL MECHANICAL SEALS 3L SERIES (on request)

Name	Materials				
	Version H	Version HW	Version HSW	Version E*	Version ES**
Fixed section	Carbon	Tungsten carbide	Tungsten carbide	Carbon	Carbon
Rotary section	Ceramic	Tungsten carbide	SiC	Ceramic	SiC
Elastomers	FKM	FKM	FKM	EPDM	EPDM
Spring	AISI 316	AISI 316	AISI 316	AISI 316Ti	AISI 316Ti
Structure/frame	AISI 316	AISI 316	AISI 316	AISI 316Ti	AISI 316Ti

* Not available for 3L SERIES 80-250 2 poles
** Available for 3L SERIES 80-250 2 poles only

SPECIAL MECHANICAL SEALS 3-3L SERIES (on request)

Name	Materials				
	Version U3U3EGG	Version U3CEGG	Version Q1Q1EGG	Version Q1U3EGG	Version Q1AEGG
Fixed section	Tungsten carbide	Tungsten carbide	SiC	SiC	SiC
Rotary section	Tungsten carbide	Special carbon	SiC	Tungsten carbide	Metallised carbon
Elastomers	EPDM	EPDM	EPDM	EPDM	EPDM
Spring	AISI 316	AISI 316	AISI 316	AISI 316	AISI 316
Structure/frame	AISI 316	AISI 316	AISI 316	AISI 316	AISI 316

3 - 3L SERIES (4 POLES)

CENTRIFUGAL ELECTRIC PUMPS STANDARDISED IN COMPLIANCE WITH EN 733 (EX DIN 24255)

ELECTRICAL DATA TABLE 3(L)M4 SERIES

4 Poles

Model Three phase 230/400/690V	Motor	P_2		P_1	Efficiency	Efficiency (%) Three phase η %			Absorbed current [A] Three phase		
		[HP]	[kW]	Three phase [kW]	Three phase	50%	75%	100%	230V	400V	690V
3(.)M4 32-125/0.25	71	0.33	0.25	0.55	-	-	-	-	1.9	1.1	-
3(.)M4 32-160/0.37R	80	0.5	0.37	0.8	-	-	-	-	2.6	1.5	-
3(.)M4 32-160/0.37		0.5	0.37	0.8	-	-	-	-	2.6	1.5	-
3(.)M4 32-200/0.55R	80	0.75	0.55	0.8	-	-	-	-	2.6	1.5	-
3(.)M4 32-200/0.55		0.75	0.55	0.8	-	-	-	-	2.6	1.5	-
3(.)M4 32-200/0.75	90	1	0.75	1.41	IE2	78.4	81.6	81.9	4.6	2.7	-
3(.)M4 40-125/0.37R	71	0.5	0.37	0.55	-	-	-	-	1.9	1.1	-
3(.)M4 40-125/0.37		0.5	0.37	0.55	-	-	-	-	1.9	1.1	-
3(.)M4 40-160/0.55R	80	0.75	0.55	0.8	-	-	-	-	2.6	1.5	-
3(.)M4 40-160/0.55		0.75	0.55	0.8	-	-	-	-	2.6	1.5	-
3(.)M4 40-200/1.1R	90	1.5	1.1	1.41	IE2	78.4	81.6	81.9	4.6	2.7	-
3(.)M4 40-200/1.1		1.5	1.1	1.41	IE2	78.4	81.6	81.9	4.6	2.7	-
3(.)M4 40-200/1.5		2	1.5	1.88	IE2	80.3	83.4	83.8	6.2	3.6	-
3(.)M4 50-125/0.55R	80	0.75	0.55	0.8	-	-	-	-	2.6	1.5	-
3(.)M4 50-125/0.55		0.75	0.55	0.8	-	-	-	-	2.6	1.5	-
3(.)M4 50-160/1.1R	90	1.5	1.1	1.41	IE2	78.4	81.6	81.9	4.6	2.7	-
3(.)M4 50-160/1.1		1.5	1.1	1.41	IE2	78.4	81.6	81.9	4.6	2.7	-
3(.)M4 50-200/1.5R		2	1.5	1.88	IE2	80.3	83.4	83.8	6.2	3.6	-
3(.)M4 50-200/1.5		2	1.5	1.88	IE2	80.3	83.4	83.8	6.2	3.6	-
3(.)M4 50-200/2.2	100	3	2.2	2.70	IE2	84.6	86.0	85.6	8.1	4.7	-
3(.)M4 65-125/0.55	80	0.75	0.55	0.8	-	-	-	-	2.6	1.5	-
3(.)M4 65-125/0.75	90	1	0.75	1.41	IE2	78.4	81.6	81.9	4.6	2.7	-
3(.)M4 65-125/1.1		1.5	1.1	1.41	IE2	78.4	81.6	81.9	4.6	2.7	-
3(.)M4 65-160/1.1		1.5	1.1	1.41	IE2	78.4	81.6	81.9	4.6	2.7	-
3(.)M4 65-160/1.5		2	1.5	1.88	IE2	80.3	83.4	83.8	6.2	3.6	-
3(.)M4 65-160/2.2	100	3	2.2	2.70	IE2	84.6	86.0	85.6	8.1	4.7	-
3(.)M4 65-200/2.2R		3	2.2	2.70	IE2	84.6	86.0	85.6	8.1	4.7	-
3(.)M4 65-200/2.2		3	2.2	2.70	IE2	84.6	86.0	85.6	8.1	4.7	-
3(.)M4 65-200/3		4	3	3.54	IE2	81.6	86.1	89.0	11.8	6.8	-
3LM4 65-250/4	112	5.5	4	4.75	IE2	87.6	89.0	88.5	14.9	8.6	-
3LM4 65-250/5.5	132	7.5	5.5	6.52	IE2	74.7	81.9	88.6	-	11.3	6.6
3LM4 80-160/1.5	90	2	1.5	1.88	IE2	80.3	83.4	83.8	6.2	3.6	-
3LM4 80-160/2.2R	100	3	2.2	2.70	IE2	84.6	86.0	85.6	8.1	4.7	-
3LM4 80-160/2.2		3	2.2	2.70	IE2	84.6	86.0	85.6	8.1	4.7	-
3LM4 80-200/3		4	3	3.54	IE2	81.6	86.1	89.0	11.8	6.8	-
3LM4 80-200/4R	112	5.5	4	4.75	IE2	87.6	89.0	88.5	14.9	8.6	-
3LM4 80-200/4	112	5.5	4	4.75	IE2	87.6	89.0	88.5	14.9	8.6	-
3LM4 80-250/5.5R	132	7.5	5.5	6.52	IE2	74.7	81.9	88.6	-	11.3	6.6
3LM4 80-250/5.5		7.5	5.5	6.52	IE2	74.7	81.9	88.6	-	11.3	6.6
3LM4 80-250/7.5	132M	10	7.5	8.27	IE3	89.8	90.9	90.4	-	15.3	8.8

CENTRIFUGAL ELECTRIC PUMPS STANDARDISED IN COMPLIANCE WITH EN 733 (EX DIN 24255)

ELECTRICAL DATA TABLE 3(L)S4 - 3(L)P4 SERIES

4 Poles

Model		Motor	P2		Efficiency	P1	Efficiency (%) Three phase η %			Absorbed current [A] Three phase		
Three phase 230/400/690V	Three phase 230/400/690V		[HP]	[kW]	Three phase	[kW]	50%	75%	100%	230V	400V	690V
3(.)S4 32-125/0.25	3(.)P4 32-125/0.25	71	0.25	0.33	-	0.41	55.0	59.0	64.0	1.6	0.9	-
3(.)S4 32-160/0.37R	3(.)P4 32-160/0.37R		0.37	0.5	-	0.56	60.0	63.0	67.0	2.1	1.2	-
3(.)S4 32-160/0.37	3(.)P4 32-160/0.37		0.37	0.5	-	0.56	60.0	63.0	67.0	2.1	1.2	-
3(.)S4 32-200/0.55R	3(.)P4 32-200/0.55R	80	0.55	0.75	-	0.80	67.0	69.0	70.0	2.8	1.6	-
3(.)S4 32-200/0.55	3(.)P4 32-200/0.55		0.55	0.75	-	0.80	67.0	69.0	70.0	2.8	1.6	-
3(.)S4 32-200/0.75	3(.)P4 32-200/0.75		0.75	1	IE2	0.95	79.2	80.3	80.2	3.1	1.8	-
					IE3	0.92	80.7	81.5	82.5	3.1	1.8	-
3(.)S4 40-125/0.37R	3(.)P4 40-125/0.37R	71	0.37	0.5	-	0.56	60.0	63.0	67.0	2.1	1.2	-
3(.)S4 40-125/0.37	3(.)P4 40-125/0.37				-	0.56	60.0	63.0	67.0	2.1	1.2	-
3(.)S4 40-160/0.55R	3(.)P4 40-160/0.55R	80	0.55	0.75	-	0.80	67.0	69.0	70.0	2.8	1.6	-
3(.)S4 40-160/0.55	3(.)P4 40-160/0.55				-	0.80	67.0	69.0	70.0	2.8	1.6	-
3(.)S4 40-200/1.1R	3(.)P4 40-200/1.1R	90S	1.1	1.5	IE2	1.33	81.4	82.7	82.5	4.3	2.5	-
					IE3	1.30	83.3	84.3	84.1	4.3	2.5	-
3(.)S4 40-200/1.1	3(.)P4 40-200/1.1		1.1	1.5	IE2	1.33	81.4	82.7	82.5	4.3	2.5	-
					IE3	1.30	83.3	84.3	84.1	4.3	2.5	-
3(.)S4 40-200/1.5	3(.)P4 40-200/1.5	90L	1.5	2	IE2	1.81	82.0	83.5	83.0	5.9	3.4	-
					IE3	1.80	84.1	85.2	85.3	6.2	3.6	-
3(.)S4 50-125/0.55R	3(.)P4 50-125/0.55R	80	0.55	0.75	-	0.80	67.0	69.0	70.0	2.8	1.6	-
3(.)S4 50-125/0.55	3(.)P4 50-125/0.55		0.55	0.75	-	0.80	67.0	69.0	70.0	2.8	1.6	-
3(.)S4 50-160/1.1R	3(.)P4 50-160/1.1R	90S	1.1	1.5	IE2	1.33	81.4	82.7	82.5	4.3	2.5	-
					IE3	1.30	83.3	84.3	84.1	4.3	2.5	-
3(.)S4 50-160/1.1	3(.)P4 50-160/1.1		1.1	15	IE2	1.33	81.4	82.7	82.5	4.3	2.5	-
					IE3	1.30	83.3	84.3	84.1	4.3	2.5	-
3(.)S4 50-200/1.5R	3(.)P4 50-200/1.5R	90L	1.5	2	IE2	1.81	82.0	83.5	83.0	5.9	3.4	-
					IE3	1.80	84.1	85.2	85.3	6.2	3.6	-
3(.)S4 50-200/1.5	3(.)P4 50-200/1.5		1.5	2	IE2	1.81	82.0	83.5	83.0	5.9	3.4	-
					IE3	1.80	84.1	85.2	85.3	6.2	3.6	-
3(.)S4 50-200/2.2	3(.)P4 50-200/2.2	100L	2.2	3	IE2	2.61	84.0	85.3	85.1	8.8	5.1	-
					IE3	2.58	83.2	86.2	86.7	10.2	5.9	-
3(.)S4 65-125/0.55	3(.)P4 65-125/0.55	80	0.55	0.75	-	0.80	67.0	69.0	70.0	2.8	1.6	-
3(.)S4 65-125/0.75	3(.)P4 65-125/0.75		0.75	1	IE2	0.95	79.2	80.3	80.2	3.1	1.8	-
					IE3	0.92	80.7	81.5	82.5	3.1	1.8	-
3(.)S4 65-125/1.1	3(.)P4 65-125/1.1	90S	1.1	1.5	IE2	1.33	81.4	82.7	82.5	4.3	2.5	-
					IE3	1.30	83.3	84.3	84.1	4.3	2.5	-
3(.)S4 65-160/1.1	3(.)P4 65-160/1.1		1.1	1.5	IE2	1.33	81.4	82.7	82.5	4.3	2.5	-
					IE3	1.30	83.3	84.3	84.1	4.3	2.5	-
3(.)S4 65-160/1.5	3(.)P4 65-160/1.5	90L	1.5	2	IE2	1.81	82.0	83.5	83.0	5.9	3.4	-
					IE3	1.80	84.1	85.2	85.3	6.2	3.6	-
3(.)S4 65-160/2.2	3(.)P4 65-160/2.2	100L	2.2	3	IE2	2.61	84.0	85.3	85.1	8.8	5.1	-
					IE3	2.58	83.2	86.2	86.7	10.2	5.9	-
3(.)S4 65-200/2.2R	3(.)P4 65-200/2.2R		2.2	3	IE2	2.61	84.0	85.3	85.1	8.8	5.1	-
					IE3	2.58	83.2	86.2	86.7	10.2	5.9	-
3(.)S4 65-200/2.2	3(.)P4 65-200/2.2		2.2	3	IE2	2.61	84.0	85.3	85.1	8.8	5.1	-
					IE3	2.58	83.2	86.2	86.7	10.2	5.9	-
3(.)S4 65-200/3	3(.)P4 65-200/3		3	4	IE2	3.47	85.3	86.6	86.4	11.3	6.5	-
					IE3	3.44	85.1	87.1	87.7	11.8	6.8	-
3LS4 65-250/4	3LP4 65-250/4	112M	4	5.5	IE2	4.59	86.0	87.3	87.1	14.7	8.5	-
					IE3	4.54	87.2	88.3	88.6	14.2	8.2	-
3LS4 65-250/5.5	3LP4 65-250/5.5	132S	5.5	7.5	IE2	6.29	87.5	88.3	88.1	-	10.8	6.2
					IE3	6.17	89.8	90.2	89.6	-	10.6	6.1
3LS4 80-160/1.5	3LP4 80-160/1.5	90L	1.5	2	IE2	1.81	82.0	83.5	83.0	5.9	3.4	-
					IE3	1.80	84.1	85.2	85.3	6.2	3.6	-
3LS4 80-160/2.2R	3LP4 80-160/2.2R	100L	2.2	3	IE2	2.61	84.0	85.3	85.1	8.8	5.1	-
					IE3	2.58	83.2	86.2	86.7	10.2	5.9	-
3LS4 80-160/2.2	3LP4 80-160/2.2		2.2	3	IE2	2.61	84.0	85.3	85.1	8.8	5.1	-
					IE3	2.58	83.2	86.2	86.7	10.2	5.9	-
3LS4 80-200/3	3LP4 80-200/3		3	4	IE2	3.47	85.3	86.6	86.4	11.3	6.5	-
					IE3	3.44	85.1	87.1	87.7	11.8	6.8	-
3LS4 80-200/4R	3LP4 80-200/4R	112M	4	5.5	IE2	4.59	86.0	87.3	87.1	14.7	8.5	-
					IE3	4.54	87.2	88.3	88.6	14.2	8.2	-
3LS4 80-200/4	3LP4 80-200/4		4	5.5	IE2	4.59	86.0	87.3	87.1	14.7	8.5	-
					IE3	4.54	87.2	88.3	88.6	14.2	8.2	-
3LS4 80-250/5.5R	3LP4 80-250/5.5R	132S	5.5	75	IE2	6.29	87.5	88.3	88.1	-	10.8	6.2
					IE3	6.17	89.8	90.2	89.6	-	10.6	6.1
3LS4 80-250/5.5	3LP4 80-250/5.5		5.5	7.5	IE2	6.29	87.5	88.3	88.1	-	10.8	6.2
					IE3	6.17	89.8	90.2	89.6	-	10.6	6.1
3LS4 80-250/7.5	3LP4 80-250/7.5	132M	75	10	IE3	8.27	89.8	90.9	90.4	-	15.3	8.8

3 - 3L SERIES (4 POLES)

CENTRIFUGAL ELECTRIC PUMPS STANDARDISED IN COMPLIANCE WITH EN 733 (EX DIN 24255)

NOISE DATA TABLE

4 Poles

Model Single phase 230V	P_2 [HP]	P_2 [kW]	L_{pA} - dB(A)*
3(L)M4 32-125/0.25	0.33	0.25	<70
3(L)M4 32-160/0.37R	0.5	0.37	
3(L)M4 32-160/0.37	0.5	0.37	
3(L)M4 32-200/0.55R	0.75	0.55	
3(L)M4 32-200/0.55	0.75	0.55	
3(L)M4 32-200/0.75	1	0.75	
3(L)M4 40-125/0.37R	0.5	0.37	<70
3(L)M4 40-125/0.37	0.5	0.37	
3(L)M4 40-160/0.55R	0.75	0.55	
3(L)M4 40-160/0.55	0.75	0.55	
3(L)M4 40-200/1.1R	1.5	1.1	
3(L)M4 40-200/1.1	1.5	1.1	
3(L)M4 40-200/1.5	2	1.5	
3(L)M4 50-125/0.55R	0.75	0.55	<70
3(L)M4 50-125/0.55	0.75	0.55	
3(L)M4 50-160/1.1R	1.5	1.1	
3(L)M4 50-160/1.1	1.5	1.1	
3(L)M4 50-200/1.5R	2	1.5	
3(L)M4 50-200/1.5	2	1.5	
3(L)M4 50-200/2.2	3	2.2	
3(L)M4 65-125/0.55	0.75	0.55	<70
3(L)M4 65-125/0.75	1	0.75	
3(L)M4 65-125/1.1	1.5	1.1	
3(L)M4 65-160/1.1	1.5	1.1	
3(L)M4 65-160/1.5	2	1.5	
3(L)M4 65-160/2.2	3	2.2	
3(L)M4 65-200/2.2R	3	2.2	
3(L)M4 65-200/2.2	3	2.2	
3(L)M4 65-200/3	4	3	
3LM4 65-250/4	5.5	4	
3LM4 65-250/5.5	7.5	5.5	71
3LM4 80-160/1.5	2	1.5	<70
3LM4 80-160/2.2R	3	2.2	
3LM4 80-160/2.2	3	2.2	
3LM4 80-200/3	4	3	
3LM4 80-200/4R	5.5	4	
3LM4 80-200/4	5.5	4	
3LM4 80-250/5.5R	7.5	5.5	71
3LM4 80-250/5.5	7.5	5.5	
3LM4 80-250/7.5	10	7.5	<70**

* Mean noise level measured at 1 m from the electric pump.
Tolerance ± 2.5 dB.

Model Single phase 230V	Model Three phase 230/400/690V	P_2 [HP]	P_2 [kW]	L_{pA} - dB(A)*
3(L)S4 32-125/0.25	3(L)P4 32-125/0.25	0.33	0.25	<70
3(L)S4 32-160/0.37R	3(L)P4 32-160/0.37R	0.5	0.37	
3(L)S4 32-160/0.37	3(L)P4 32-160/0.37	0.5	0.37	
3(L)S4 32-200/0.55R	3(L)P4 32-200/0.55R	0.75	0.55	
3(L)S4 32-200/0.55	3(L)P4 32-200/0.55	0.75	0.55	
3(L)S4 32-200/0.75	3(L)P4 32-200/0.75	1	0.75	
3(L)S4 40-125/0.37R	3(L)P4 40-125/0.37R	0.5	0.37	<70
3(L)S4 40-125/0.37	3(L)P4 40-125/0.37	0.5	0.37	
3(L)S4 40-160/0.55R	3(L)P4 40-160/0.55R	0.75	0.55	
3(L)S4 40-160/0.55	3(L)P4 40-160/0.55	0.75	0.55	
3(L)S4 40-200/1.1R	3(L)P4 40-200/1.1R	1.5	1.1	
3(L)S4 40-200/1.1	3(L)P4 40-200/1.1	1.5	1.1	
3(L)S4 40-200/1.5	3(L)P4 40-200/1.5	2	1.5	
3(L)S4 50-125/0.55R	3(L)P4 50-125/0.55R	0.75	0.55	<70
3(L)S4 50-125/0.55	3(L)P4 50-125/0.55	0.75	0.55	
3(L)S4 50-160/1.1R	3(L)P4 50-160/1.1R	1.5	1.1	
3(L)S4 50-160/1.1	3(L)P4 50-160/1.1	1.5	1.1	
3(L)S4 50-200/1.5R	3(L)P4 50-200/1.5R	2	1.5	
3(L)S4 50-200/1.5	3(L)P4 50-200/1.5	2	1.5	
3(L)S4 50-200/2.2	3(L)P4 50-200/2.2	3	2.2	
3(L)S4 65-125/0.55	3(L)P4 65-125/0.55	0.75	0.55	<70
3(L)S4 65-125/0.75	3(L)P4 65-125/0.75	1	0.75	
3(L)S4 65-125/1.1	3(L)P4 65-125/1.1	1.5	1.1	
3(L)S4 65-160/1.1	3(L)P4 65-160/1.1	1.5	1.1	
3(L)S4 65-160/1.5	3(L)P4 65-160/1.5	2	1.5	
3(L)S4 65-160/2.2	3(L)P4 65-160/2.2	3	2.2	
3(L)S4 65-200/2.2R	3(L)P4 65-200/2.2R	3	2.2	
3(L)S4 65-200/2.2	3(L)P4 65-200/2.2	3	2.2	
3(L)S4 65-200/3	3(L)P4 65-200/3	4	3	
3LS4 65-250/4	3LP4 65-250/4	5.5	4	
3LS4 65-250/5.5	3LP4 65-250/5.5	7.5	5.5	
3LS4 80-160/1.5	3LP4 80-160/1.5	2	1.5	<70
3LS4 80-160/2.2R	3LP4 80-160/2.2R	3	2.2	
3LS4 80-160/2.2	3LP4 80-160/2.2	3	2.2	
3LS4 80-200/3	3LP4 80-200/3	4	3	
3LS4 80-200/4R	3LP4 80-200/4R	5.5	4	
3LS4 80-200/4	3LP4 80-200/4	5.5	4	
3LS4 80-250/5.5R	3LP4 80-250/5.5R	7.5	5.5	
3LS4 80-250/5.5	3LP4 80-250/5.5	7.5	5.5	
3LS4 80-250/7.5	3LP4 80-250/7.5	10	7.5	

* Mean noise level measured at 1 m from the electric pump.
Tolerance ± 2.5 dB.

3D SERIES (4 POLES)

MONOBLOC AND CENTRIFUGAL ELECTRIC PUMPS STANDARDISED IN COMPLIANCE WITH EN 733 (EX DIN 24255)

Monobloc centrifugal electric pumps (3D SERIES) and normalised per EN 733 (3DS-3DP SERIES) in cast iron.

APPLICATIONS
- Handling of water and chemically non-aggressive clean fluids
- Water supply
- Pressurisation
- Washing and industrial systems
- Water circulation in air conditioning systems
- Irrigation and agriculture

TECHNICAL FEATURES
- Robust construction
- Stainless steel impeller
- Highly efficient

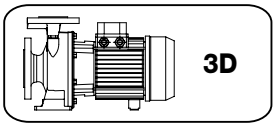
PUMP TECHNICAL DATA
- Maximum operating pressure: 10 bar
- Fluid temperature:
  -5°C ÷ +90°C
  -5°C ÷ +110°C (versions H-HS-HW-HSW)
  -5°C ÷ +120°C (version E)
- MEI > 0.4
  For further information, refer to our Data Book on www.ebaraeurope.com

MOTOR TECHNICAL DATA
- High efficiency motors
  IE2 for powers 0.75kW to 5.5kW
  IE3 for powers 0.75kW and above (starting from 7.5kW for 3D4)
- 2 and 4 poles self-ventilating asynchronous motors
- Insulation class F (B for high temperatures)
- Protection rating IP 55
- Single phase voltage 230V ±10% 50Hz,
  three phase voltage 230/400 ±10% (up to and including 4kW), 50Hz,
  three phase voltage 400/690V ±10%, 50 Hz, 5.5 kW and above
- Protection to be provided by the user

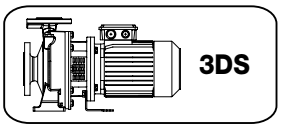
MATERIALS
- Pump body in cast iron EN-GJL-250-EN 1561
- Impeller in:
  - AISI 304 for 3D SERIES 32, 40, 50
  - AISI 316 microcast for 3D SERIES 65
- Shaft made of AISI 304 steel (part in contact with liquid)
- Mechanical seal in:
  - Ceramic/Carbon/NBR (standard)
  - special versions: see page 71

SPECIAL VERSIONS
- Special voltages
- Version 3DPF (hydraulic only) available on request

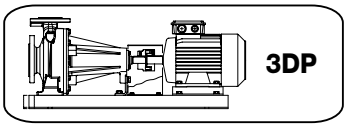
Available in 3 versions with 2 and 4 poles motors



Monobloc with extended motor shaft



Monobloc with standard motor and rigid coupling

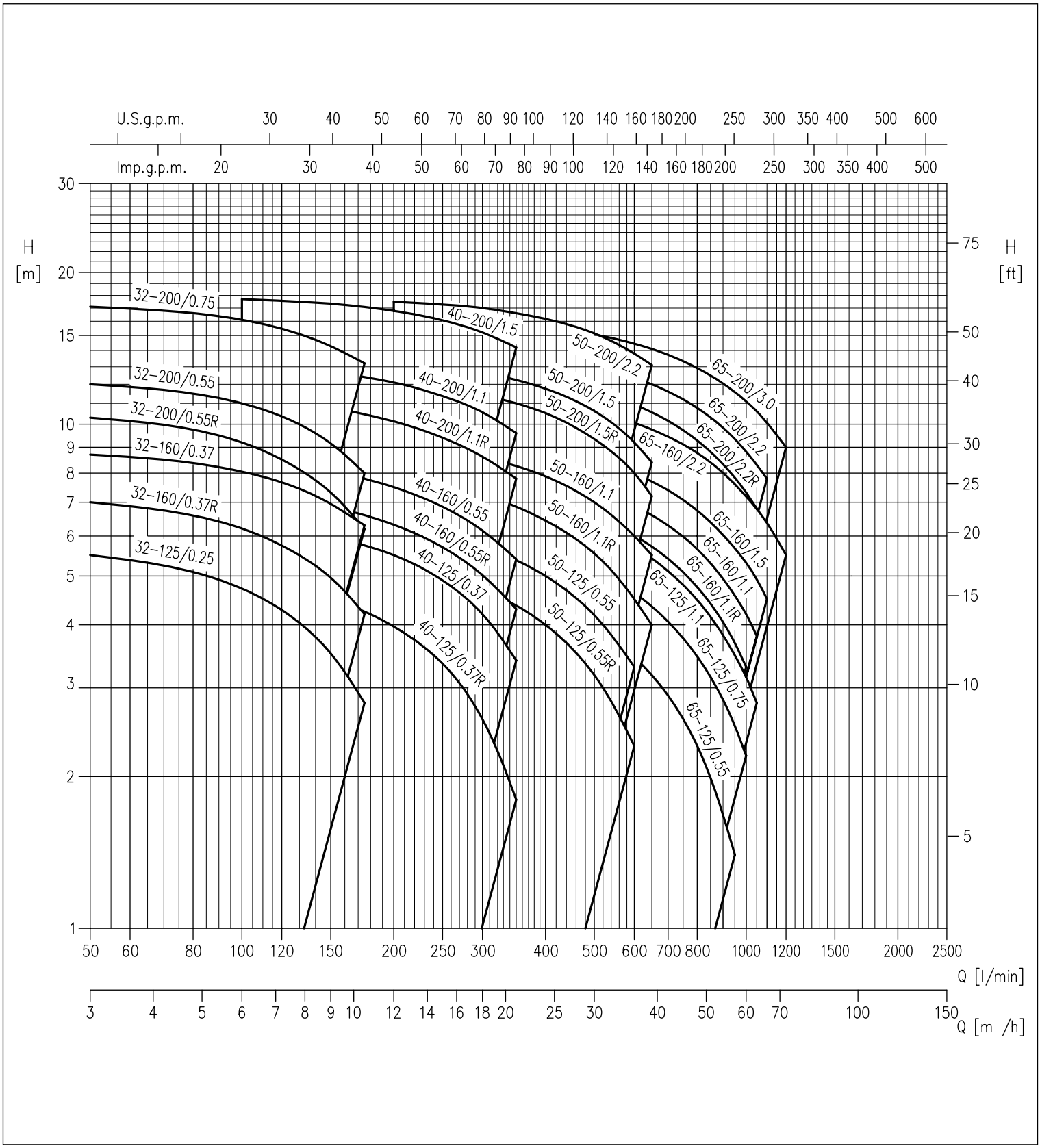


On basement, with standard motor and elastic coupling

3D SERIES (4 POLES)

MONOBLOC AND CENTRIFUGAL ELECTRIC PUMPS STANDARDISED IN COMPLIANCE WITH EN 733 (EX DIN 24255)

PERFORMANCE RANGE at 1400^{-1} rpm (per ISO 9906 Annex A) **4 Poles**



3D SERIES (4 POLES)

MONOBLOC AND CENTRIFUGAL ELECTRIC PUMPS STANDARDISED IN COMPLIANCE WITH EN 733 (EX DIN 24255)

PERFORMANCE TABLE 3D(.)4 SERIES 32

4 Poles

Model	P2		Q=Flow rate			
			l/min	50	100	150	175
	[HP]	[kW]	m³/h	3	6	9	10.5
			H=Head [m]				
3D(.)4 32-125/0.25	0.33	0.25		5.5	4.7	3.5	2.8
3D(.)4 32-125/0.37R	0.5	0.37		7.0	6.2	5.0	4.2
3D(.)4 32-125/0.37	0.5	0.37		8.7	8.1	7.0	6.3
3D(.)4 32-125/0.55R	0.75	0.55		10.3	9.2	7.3	6.2
3D(.)4 32-125/0.55	0.75	0.55		12.0	11.0	9.2	8.0
3D(.)4 32-125/0.75	1	0.75		17.1	16.1	14.3	13.2

PERFORMANCE TABLE 3D(.)4 SERIES 40

4 Poles

Model	P2		Q=Flow rate						
			l/min	100	150	175	200	250	300	350
	[HP]	[kW]	m³/h	6	9	10.5	12	15	18	21
			H=Head [m]							
3D(.)4 40-125/0.37R	0.5	0.37		4.8	4.5	4.3	4.0	3.4	2.6	1.8
3D(.)4 40-125/0.37	0.5	0.37		6.3	6.0	5.8	5.5	4.9	4.2	3.4
3D(.)4 40-160/0.55R	0.75	0.55		7.3	6.9	6.6	6.3	5.7	5.0	4.3
3D(.)4 40-160/0.55	0.75	0.55		8.6	8.1	7.8	7.5	6.9	6.2	5.4
3D(.)4 40-200/1.1R	1.5	1.1		11.2	10.8	10.5	10.1	9.4	8.6	7.8
3D(.)4 40-200/1.1	1.5	1.1		13.2	12.7	12.4	12.1	11.4	10.6	9.6
3D(.)4 40-200/1.5	2	1.5		17.7	17.3	17.1	16.8	16.1	15.2	14.2

PERFORMANCE TABLE 3D(.)4 SERIES 50

4 Poles

Model	P2		Q=Flow rate							
			l/min	200	250	300	350	400	500	600	650
	[HP]	[kW]	m³/h	12	15	18	21	24	30	36	39
			H=Head [m]								
3D(.)4 50-125/0.55R	0.75	0.55		5.2	5.0	4.7	4.4	4.0	3.2	2.3	-
3D(.)4 50-125/0.55	0.75	0.55		6.2	6.0	5.7	5.4	5.0	4.2	3.3	-
3D(.)4 50-160/1.1R	1.5	1.1		7.8	7.6	7.2	6.9	6.4	5.5	4.5	4.0
3D(.)4 50-160/1.1	1.5	1.1		9.1	8.9	8.6	8.3	7.9	7.0	6.0	5.5
3D(.)4 50-200/1.5R	2	1.5		12.1	11.8	11.4	11.0	10.5	9.3	8.0	7.2
3D(.)4 50-200/0.1.5	2	1.5		13.3	13.0	12.7	12.2	11.8	10.6	9.2	8.4
3D(.)4 50-200/2.2	3	2.2		17.5	17.3	17.0	16.6	16.2	15.1	13.8	13.1

PERFORMANCE TABLE 3D(.)4 SERIES 65

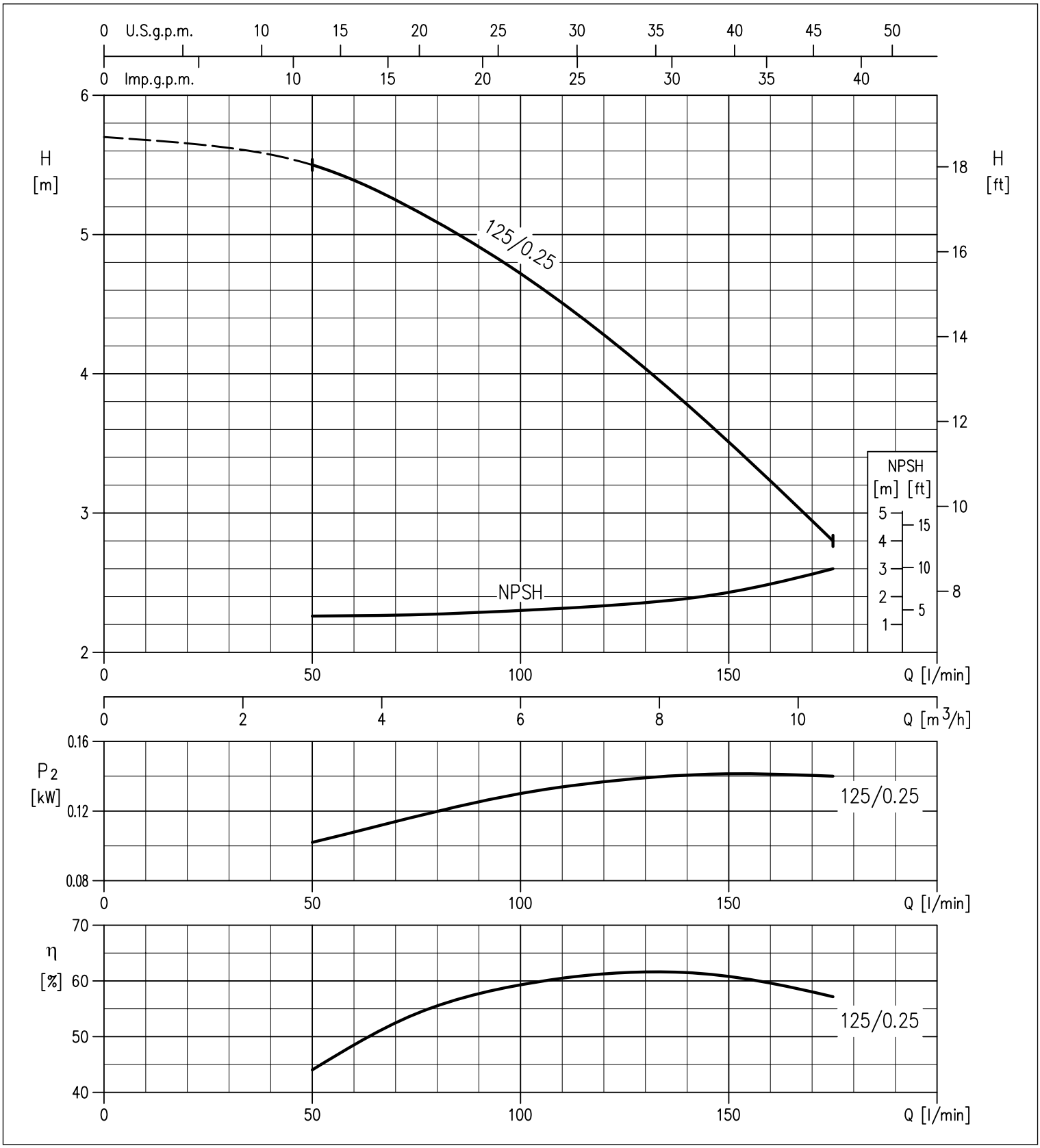
4 Poles

Model	P2		Q=Flow rate									
			l/min	300	350	500	600	800	950	1000	1050	1100	1200
	[HP]	[kW]	m³/h	18	21	30	36	48	57	60	63	66	72
			H=Head [m]										
3D(.)4 65-125/0.55	0.75	0.55		4.8	4.6	4.0	3.5	2.3	1.4	-	-	-	-
3D(.)4 65-125/0.75	1	0.75		6.0	5.8	5.2	4.6	3.5	2.5	2.2	-	-	-
3D(.)4 65-125/1.1	1.50	1.10		7.2	7.0	6.3	5.7	4.5	3.5	3.2	2.8	-	-
3D(.)4 65-160/1.1	1.50	1.10		-	8.1	7.4	6.9	5.7	4.6	4.2	3.8	-	-
3D(.)4 65-160/1.5	2	1.50		-	9.2	8.5	8.0	6.7	5.7	5.3	4.9	4.5	-
3D(.)4 65-160/2.2	3	2.20		-	11.3	10.6	10.1	8.8	7.6	7.2	6.8	6.4	5.5
3D(.)4 65-200/2.2R	3	2.20		-	12.4	11.6	10.9	9.3	7.8	7.3	6.8	-	-
3D(.)4 65-200/2.2	3	2.20		-	13.9	13.0	12.4	10.8	9.3	8.8	8.3	7.8	-
3D(.)4 65-200/3	4	3		-	15.8	15.1	14.4	12.9	11.6	11.1	10.6	10.1	9

3D SERIES (4 POLES)

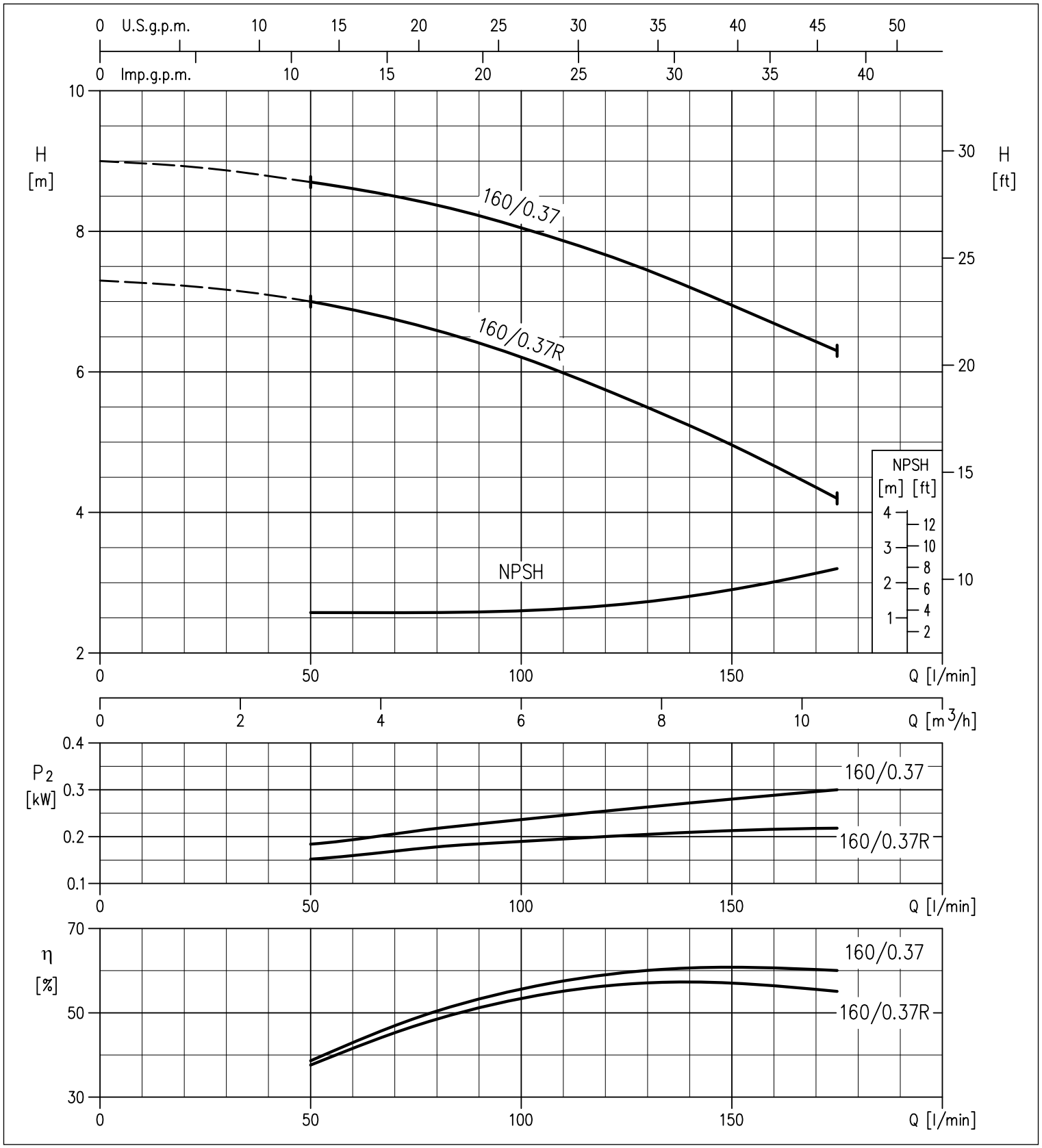
MONOBLOC AND CENTRIFUGAL ELECTRIC PUMPS STANDARDISED IN COMPLIANCE WITH EN 733 (EX DIN 24255)

PERFORMANCE CURVES 3D(.)4 SERIES 32-125 at 1400^{-1} rpm (per ISO 9906 Annex A) **4 Poles**



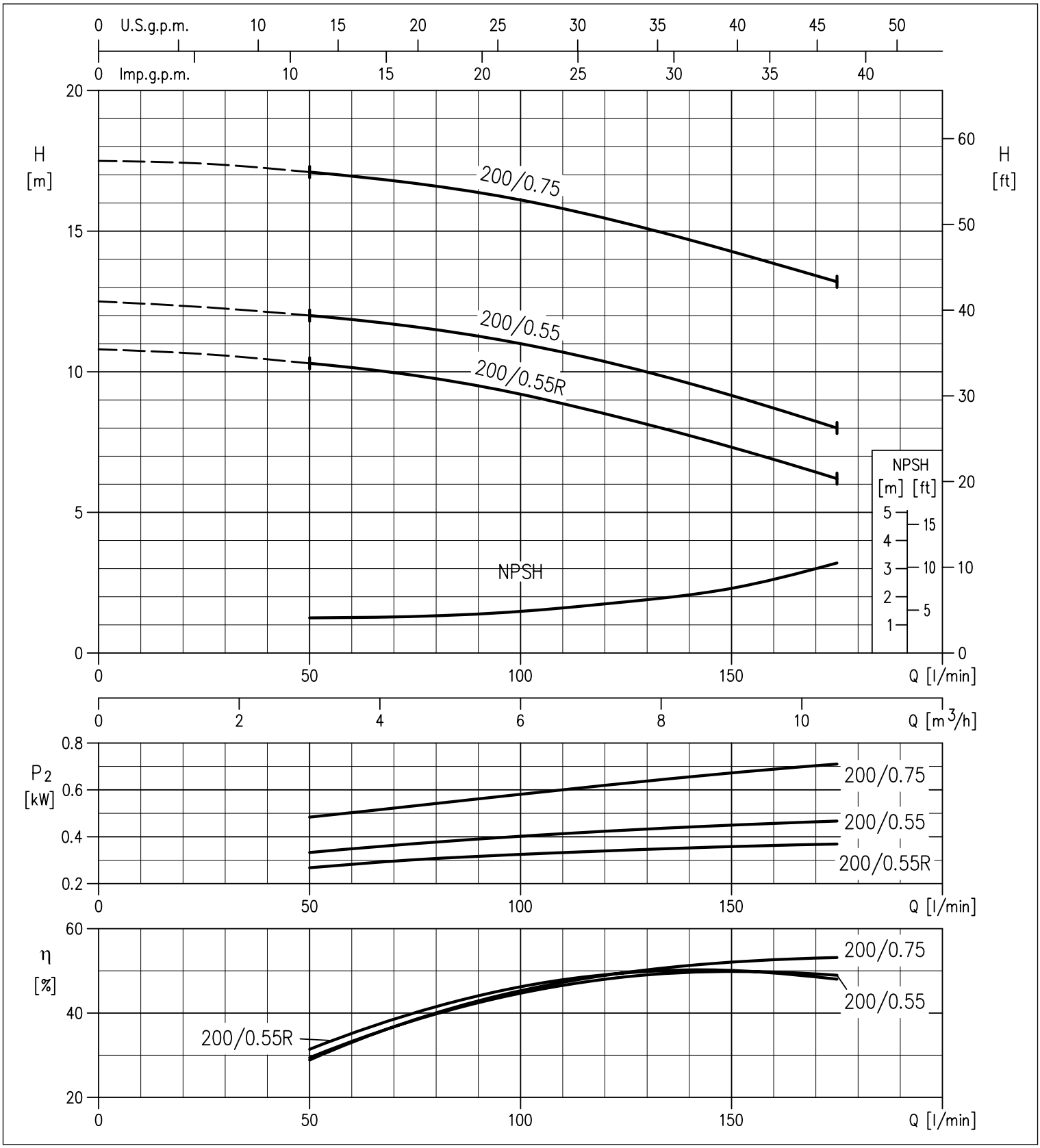
MONOBLOC AND CENTRIFUGAL ELECTRIC PUMPS STANDARDISED IN COMPLIANCE WITH EN 733 (EX DIN 24255)

PERFORMANCE CURVES 3D(.)4 SERIES 32-160 at 1400^{-1} rpm (per ISO 9906 Annex A) **4 Poles**



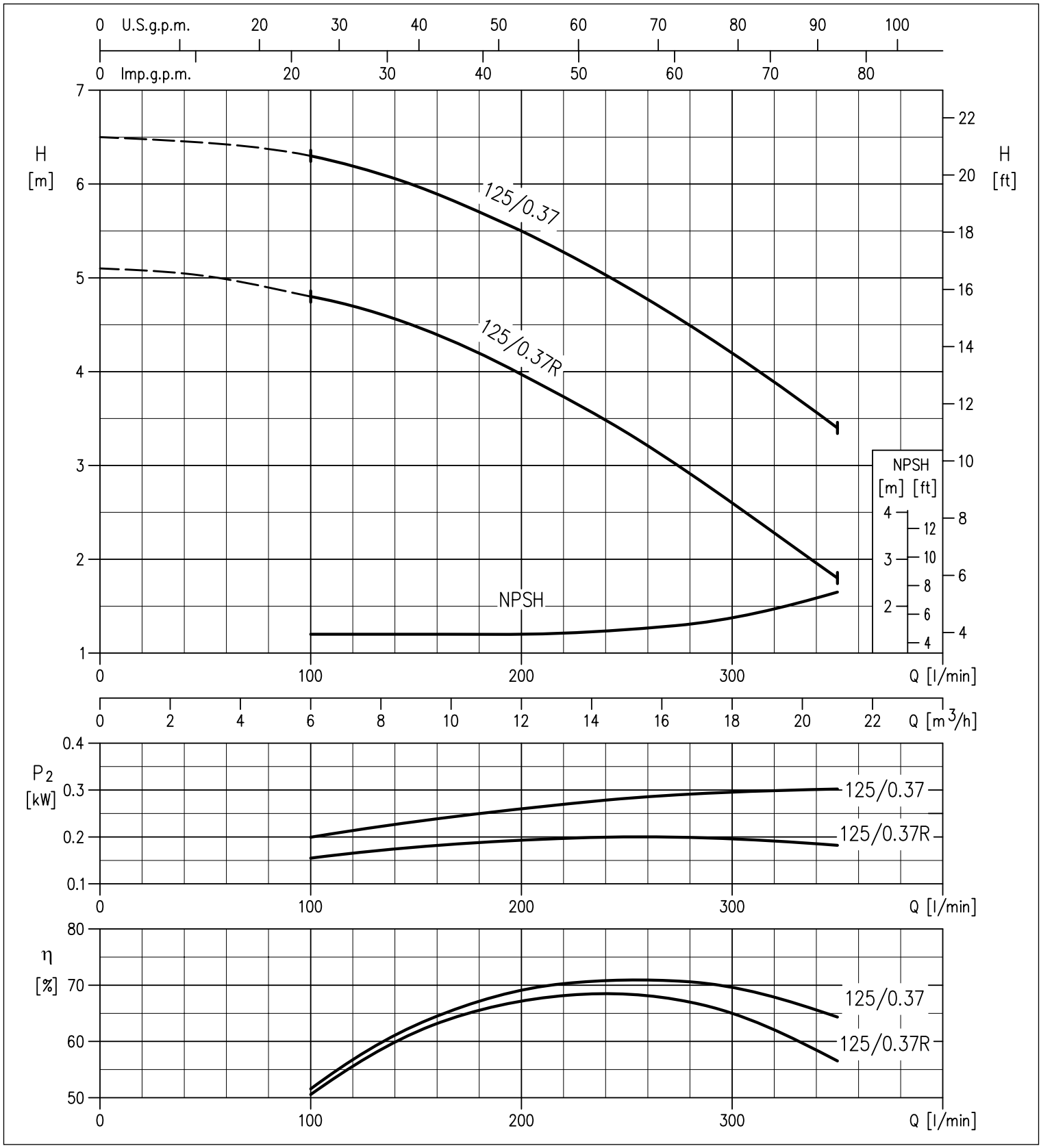
MONOBLOC AND CENTRIFUGAL ELECTRIC PUMPS STANDARDISED IN COMPLIANCE WITH EN 733 (EX DIN 24255)

PERFORMANCE CURVES 3D(.)4 SERIES 32-200 at 1400^{-1} rpm (per ISO 9906 Annex A) **4 Poles**



MONOBLOC AND CENTRIFUGAL ELECTRIC PUMPS STANDARDISED IN COMPLIANCE WITH EN 733 (EX DIN 24255)

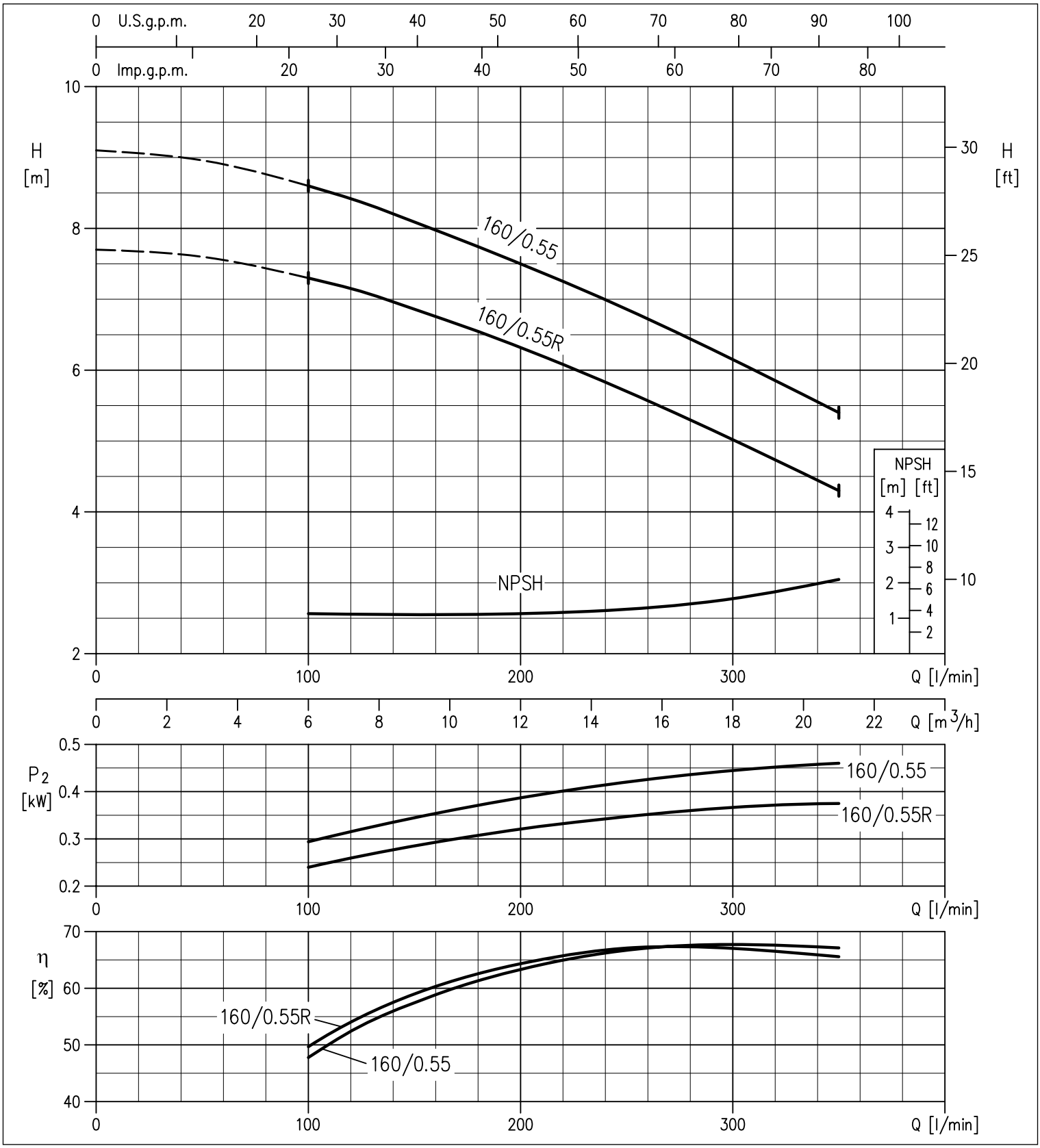
PERFORMANCE CURVES 3D(.)4 SERIES 40-125 at 1400^{-1} rpm (per ISO 9906 Annex A) **4 Poles**



3D SERIES (4 POLES)

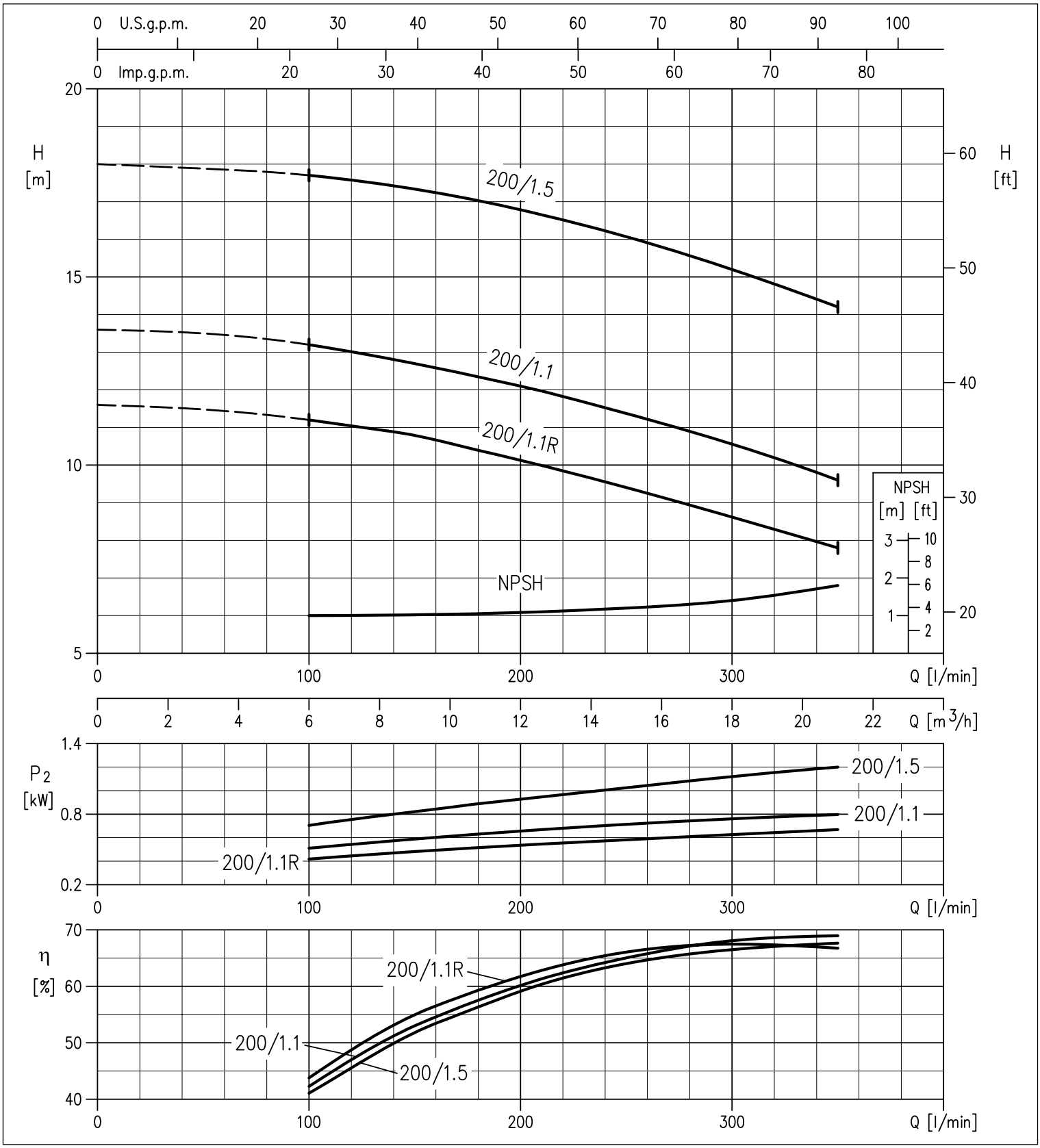
MONOBLOC AND CENTRIFUGAL ELECTRIC PUMPS STANDARDISED IN COMPLIANCE WITH EN 733 (EX DIN 24255)

PERFORMANCE CURVES 3D(.)4 SERIES 40-160 at 1400^{-1} rpm (per ISO 9906 Annex A) **4 Poles**



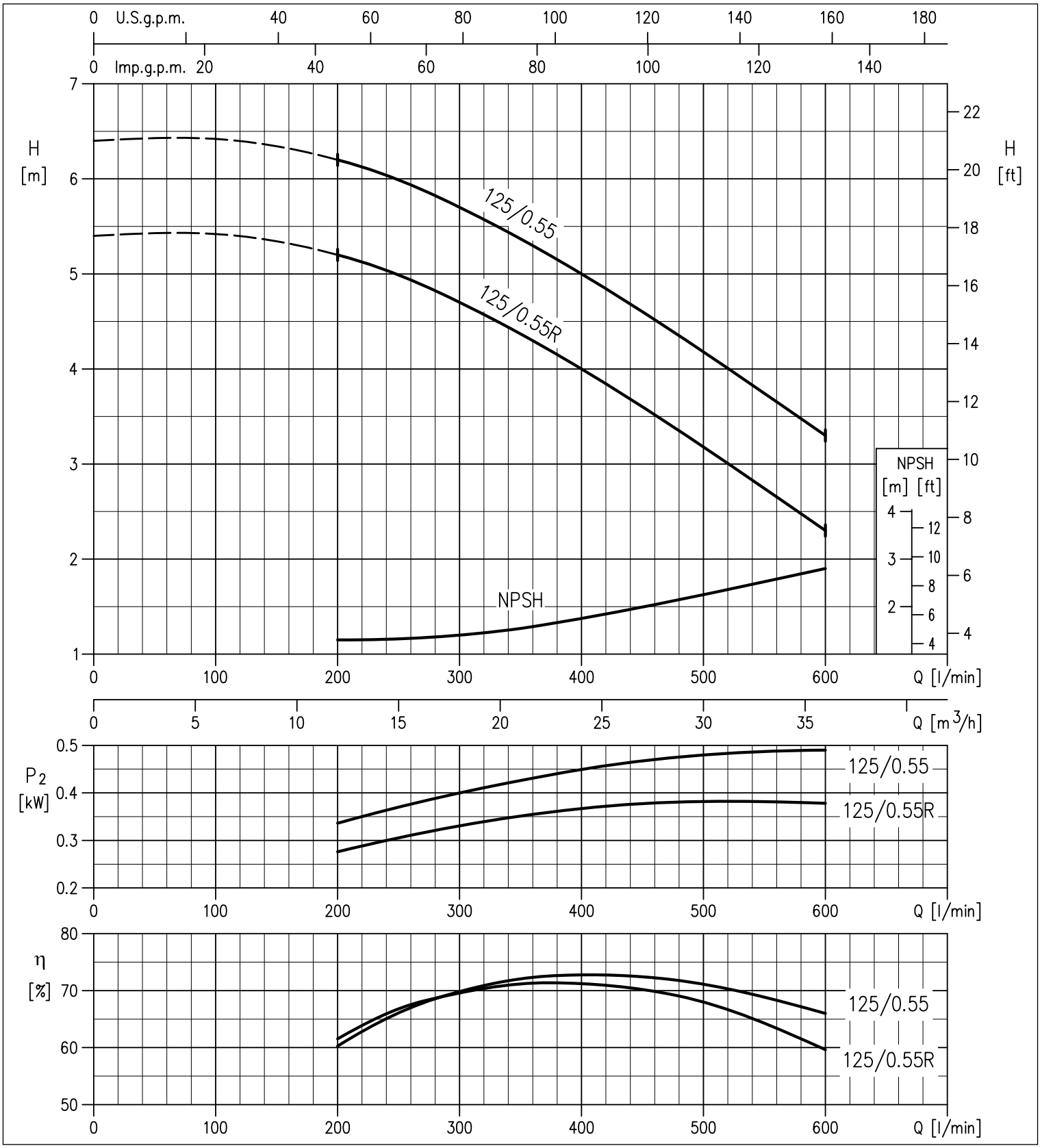
MONOBLOC AND CENTRIFUGAL ELECTRIC PUMPS STANDARDISED IN COMPLIANCE WITH EN 733 (EX DIN 24255)

PERFORMANCE CURVES 3D(.)4 SERIES 40-200 at 1400^{-1} rpm (per ISO 9906 Annex A) **4 Poles**



MONOBLOC AND CENTRIFUGAL ELECTRIC PUMPS STANDARDISED IN COMPLIANCE WITH EN 733 (EX DIN 24255)

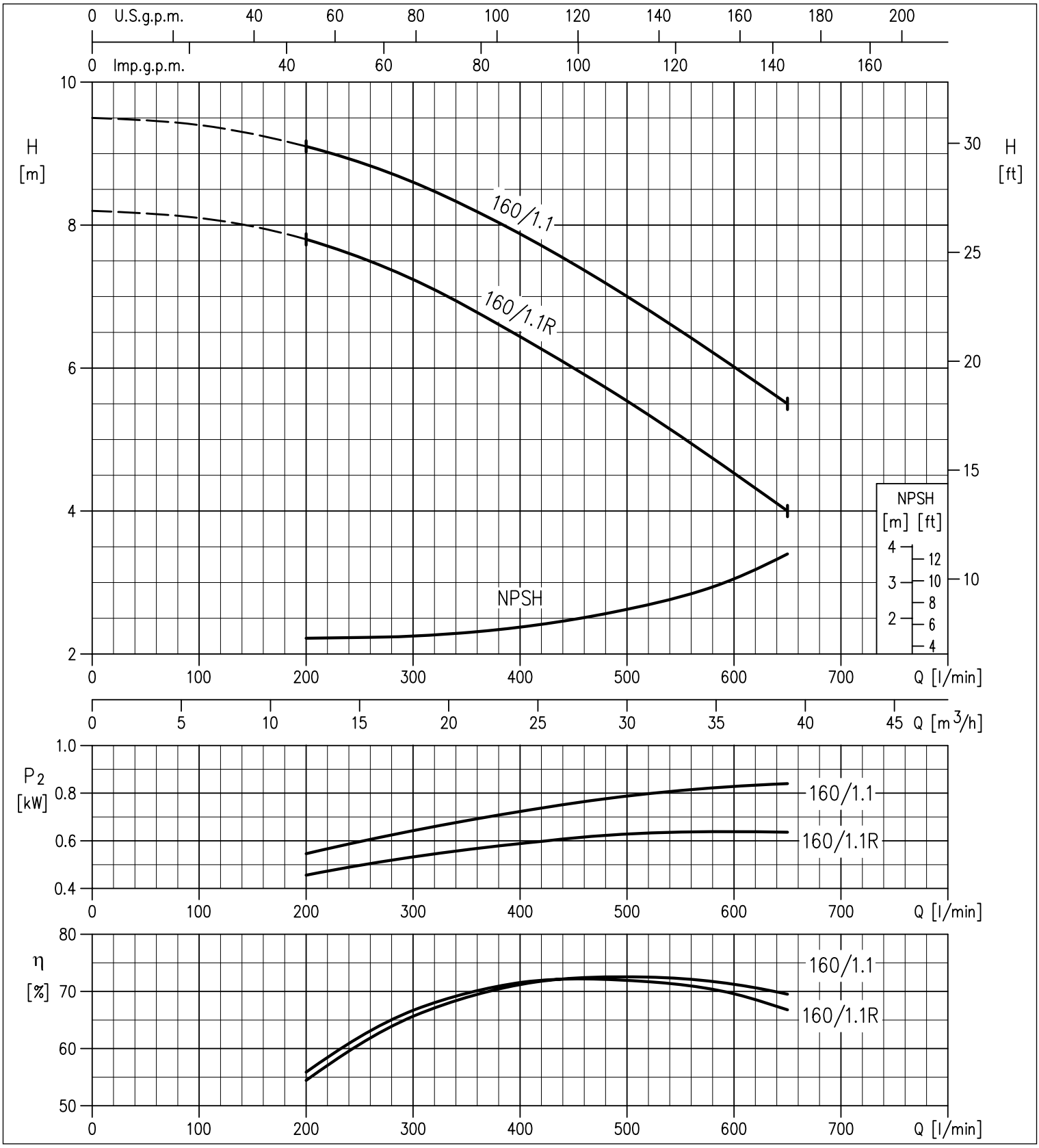
PERFORMANCE CURVES 3D(.)4 SERIES 50-125 at 1400^{-1} rpm (per ISO 9906 Annex A) **4 Poles**



3D SERIES (4 POLES)

MONOBLOC AND CENTRIFUGAL ELECTRIC PUMPS STANDARDISED IN COMPLIANCE WITH EN 733 (EX DIN 24255)

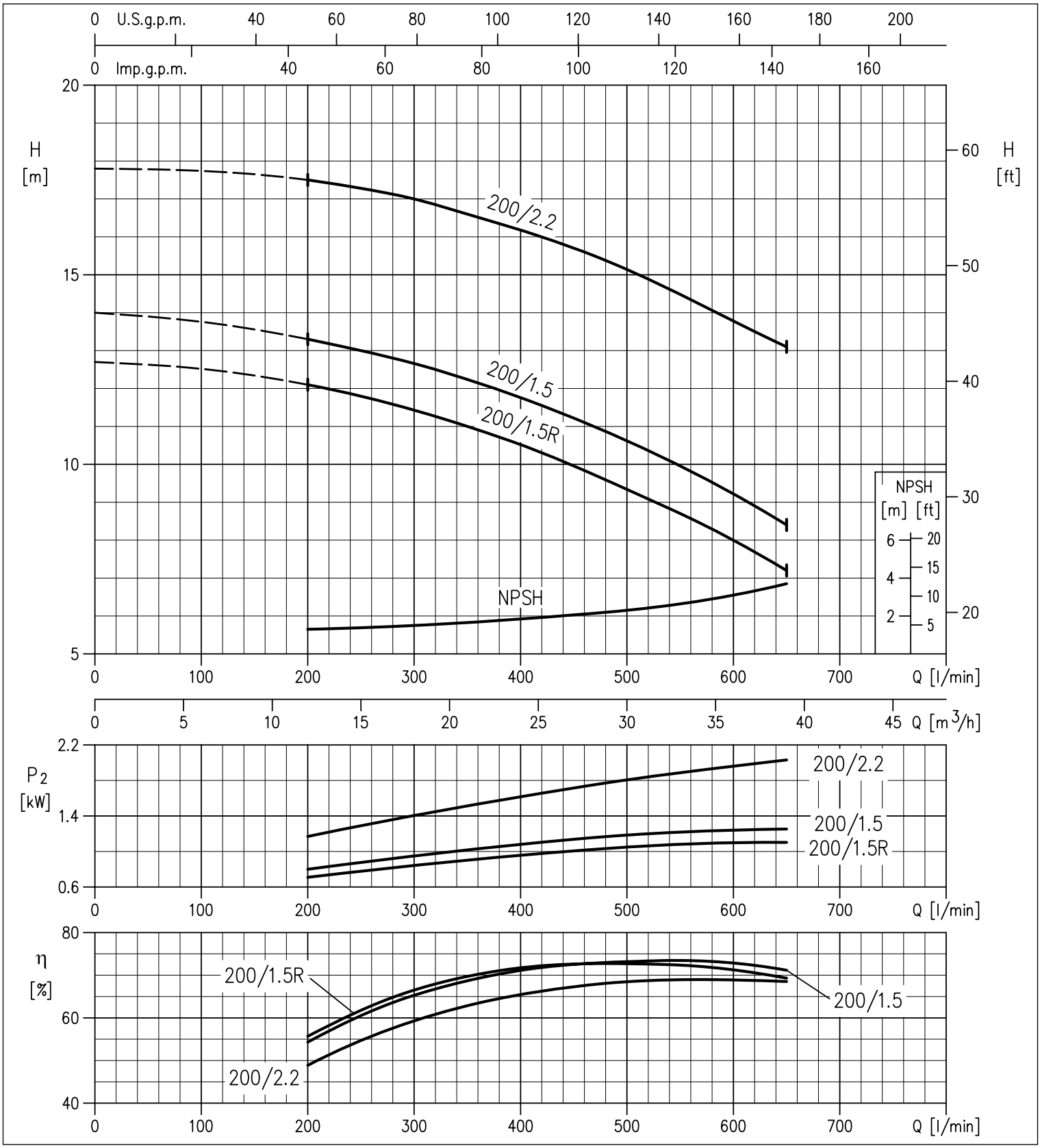
PERFORMANCE CURVES 3D(.)4 SERIES 50-160 at 1400^{-1} rpm (per ISO 9906 Annex A) **4 Poles**



3D SERIES (4 POLES)

MONOBLOC AND CENTRIFUGAL ELECTRIC PUMPS STANDARDISED IN COMPLIANCE WITH EN 733 (EX DIN 24255)

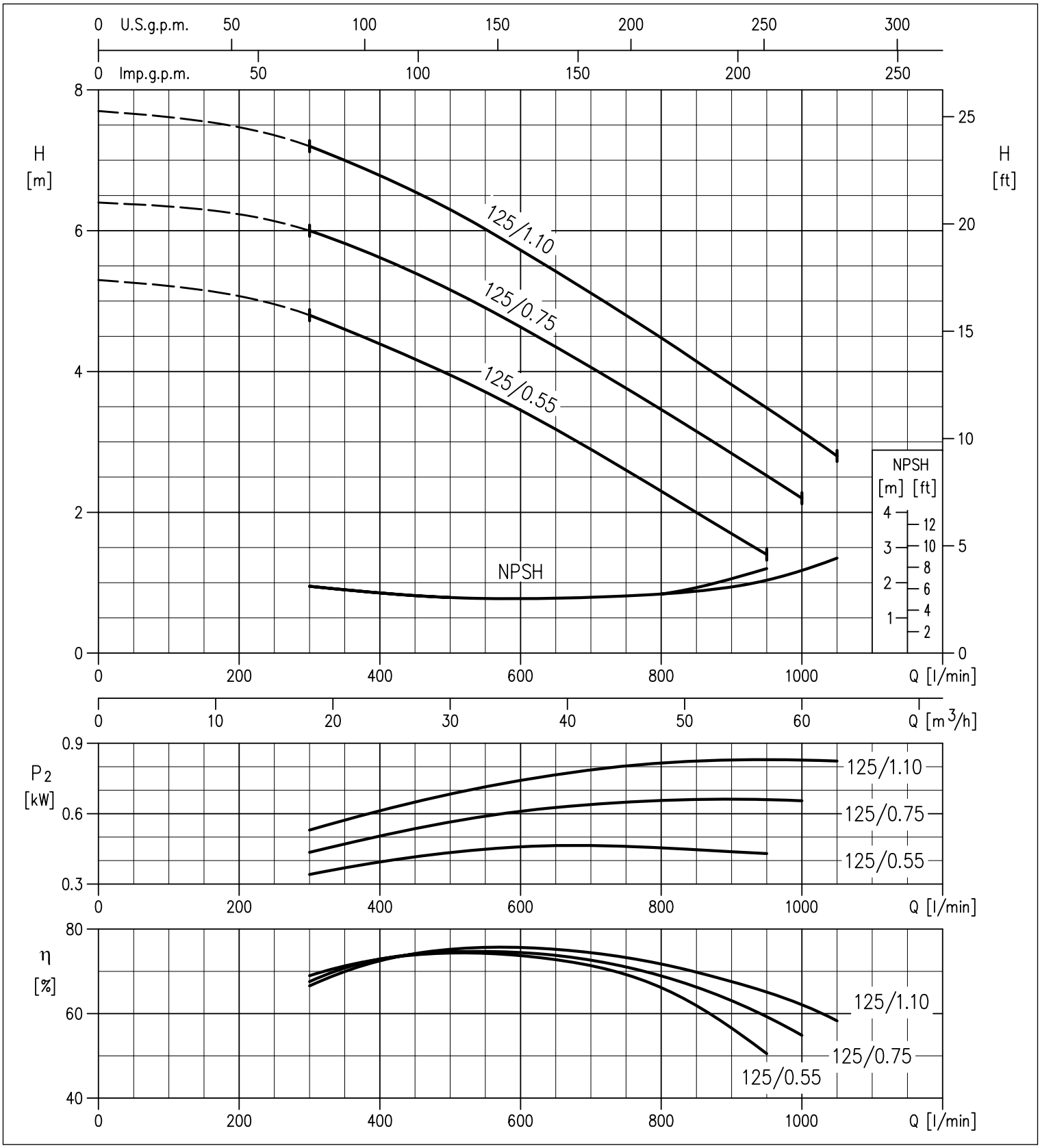
PERFORMANCE CURVES 3D(.)4 SERIES 50-200 at 1400^{-1} rpm (per ISO 9906 Annex A) **4 Poles**



3D SERIES (4 POLES)

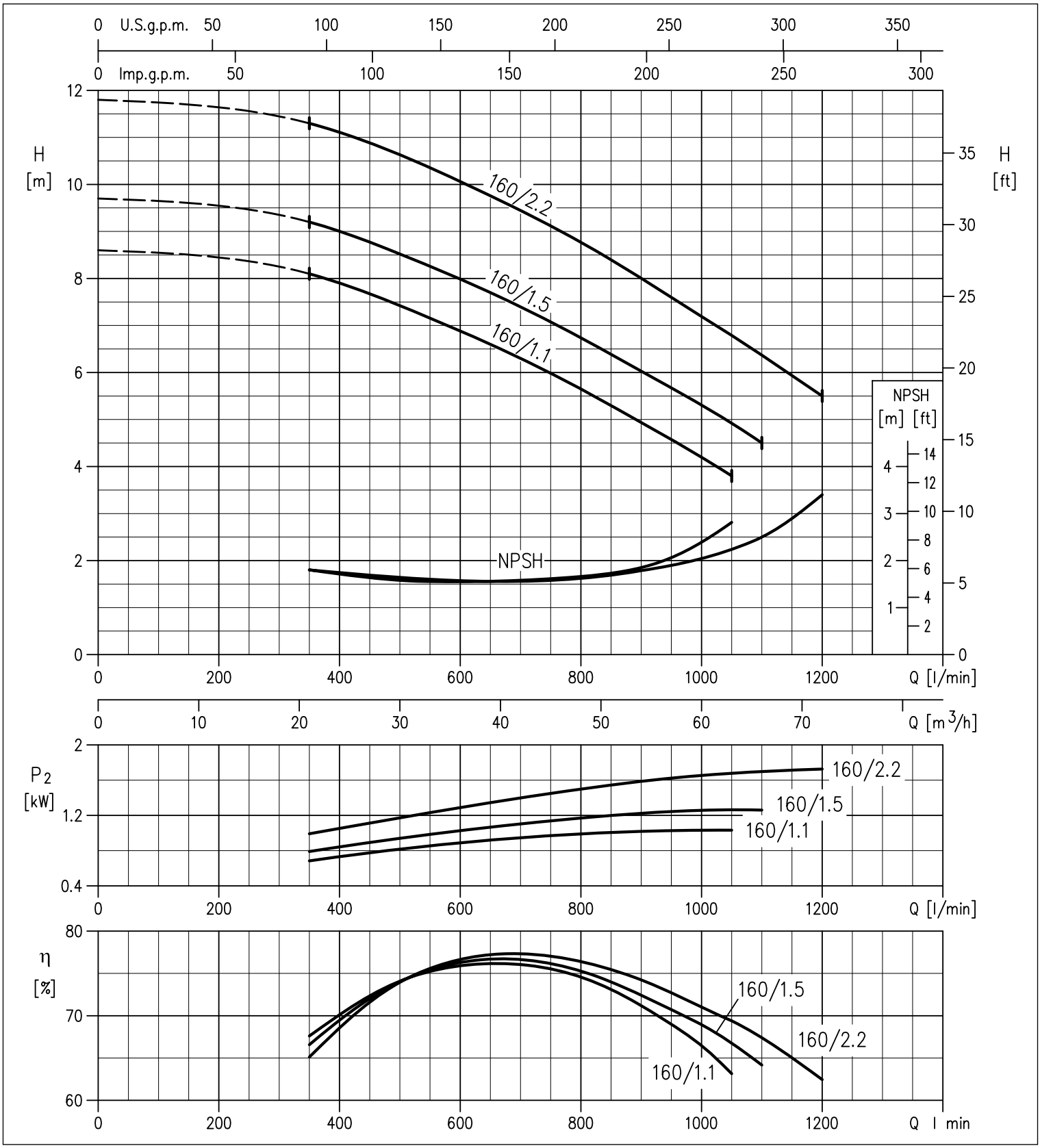
MONOBLOC AND CENTRIFUGAL ELECTRIC PUMPS STANDARDISED IN COMPLIANCE WITH EN 733 (EX DIN 24255)

PERFORMANCE CURVES 3D(.)4 SERIES 65-125 at 1400^{-1} rpm (per ISO 9906 Annex A) **4 Poles**



MONOBLOC AND CENTRIFUGAL ELECTRIC PUMPS STANDARDISED IN COMPLIANCE WITH EN 733 (EX DIN 24255)

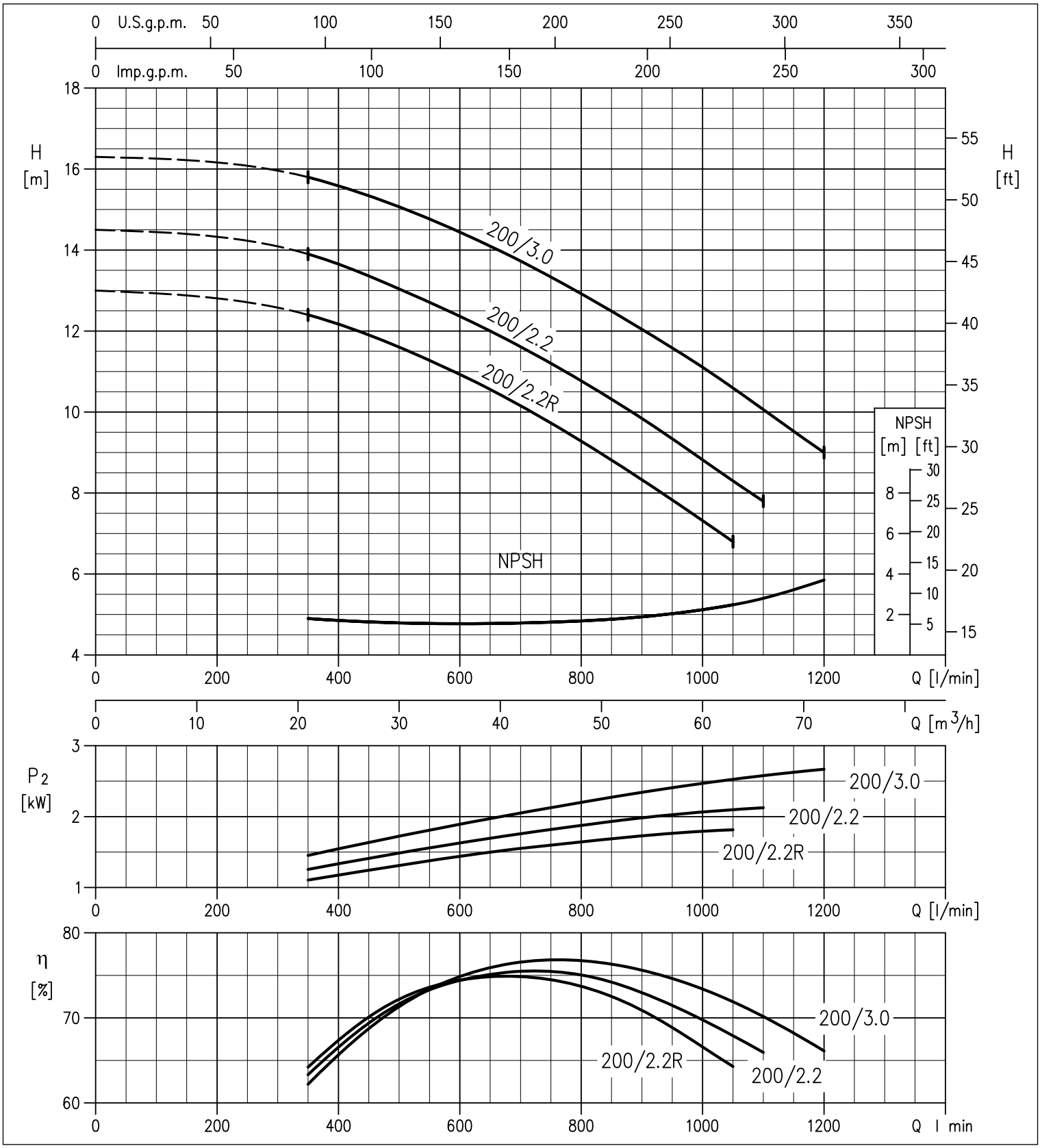
PERFORMANCE CURVES 3D(.)4 SERIES 65-160 at 1400^{-1} rpm (per ISO 9906 Annex A) **4 Poles**



3D SERIES (4 POLES)

MONOBLOC AND CENTRIFUGAL ELECTRIC PUMPS STANDARDISED IN COMPLIANCE WITH EN 733 (EX DIN 24255)

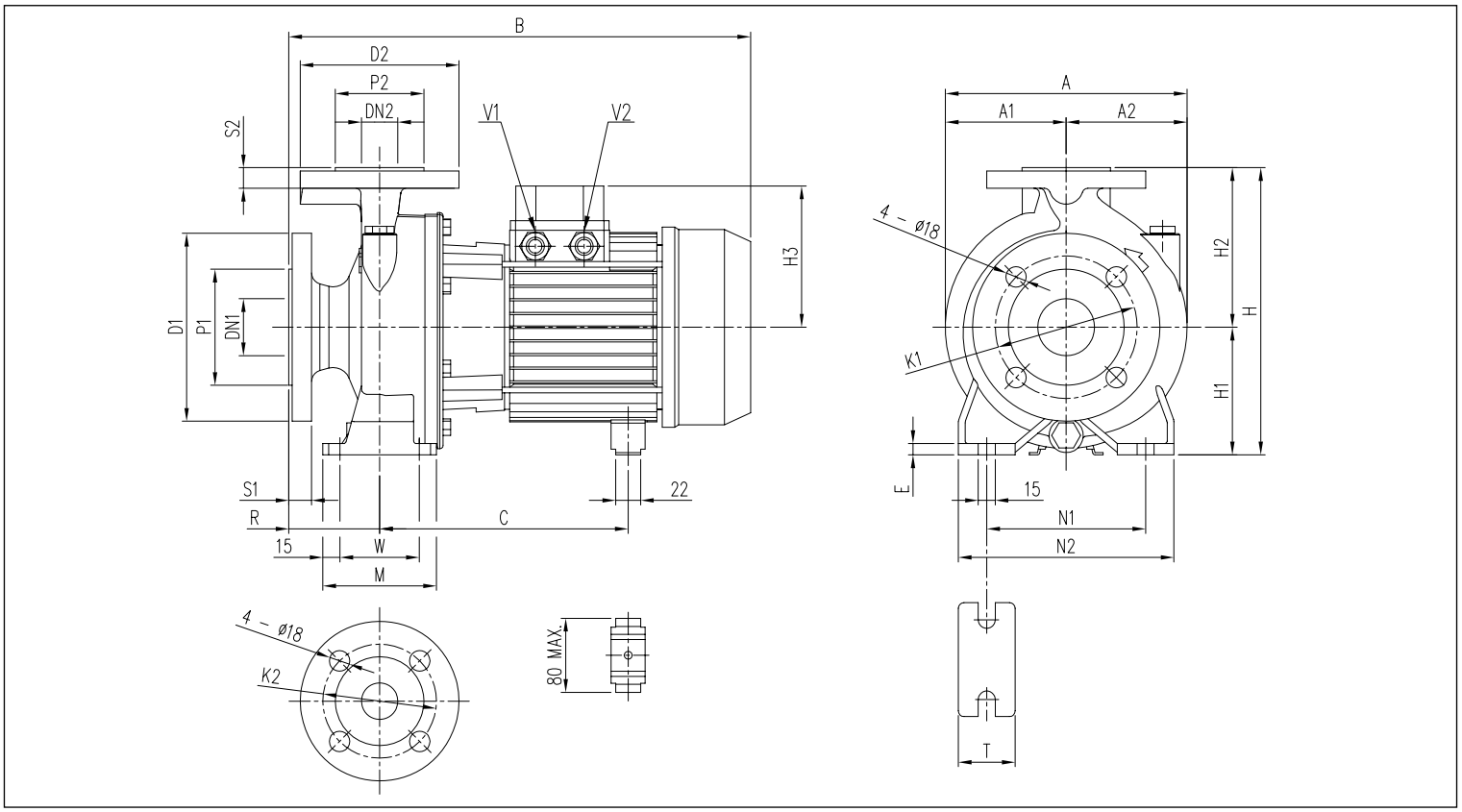
PERFORMANCE CURVES 3D(.)4 SERIES 65-200 at 1400^{-1} rpm (per ISO 9906 Annex A) **4 Poles**



MONOBLOC AND CENTRIFUGAL ELECTRIC PUMPS STANDARDISED IN COMPLIANCE WITH EN 733 (EX DIN 24255)

DIMENSIONS 3D4 SERIES

4 Poles



DIMENSIONS CHART

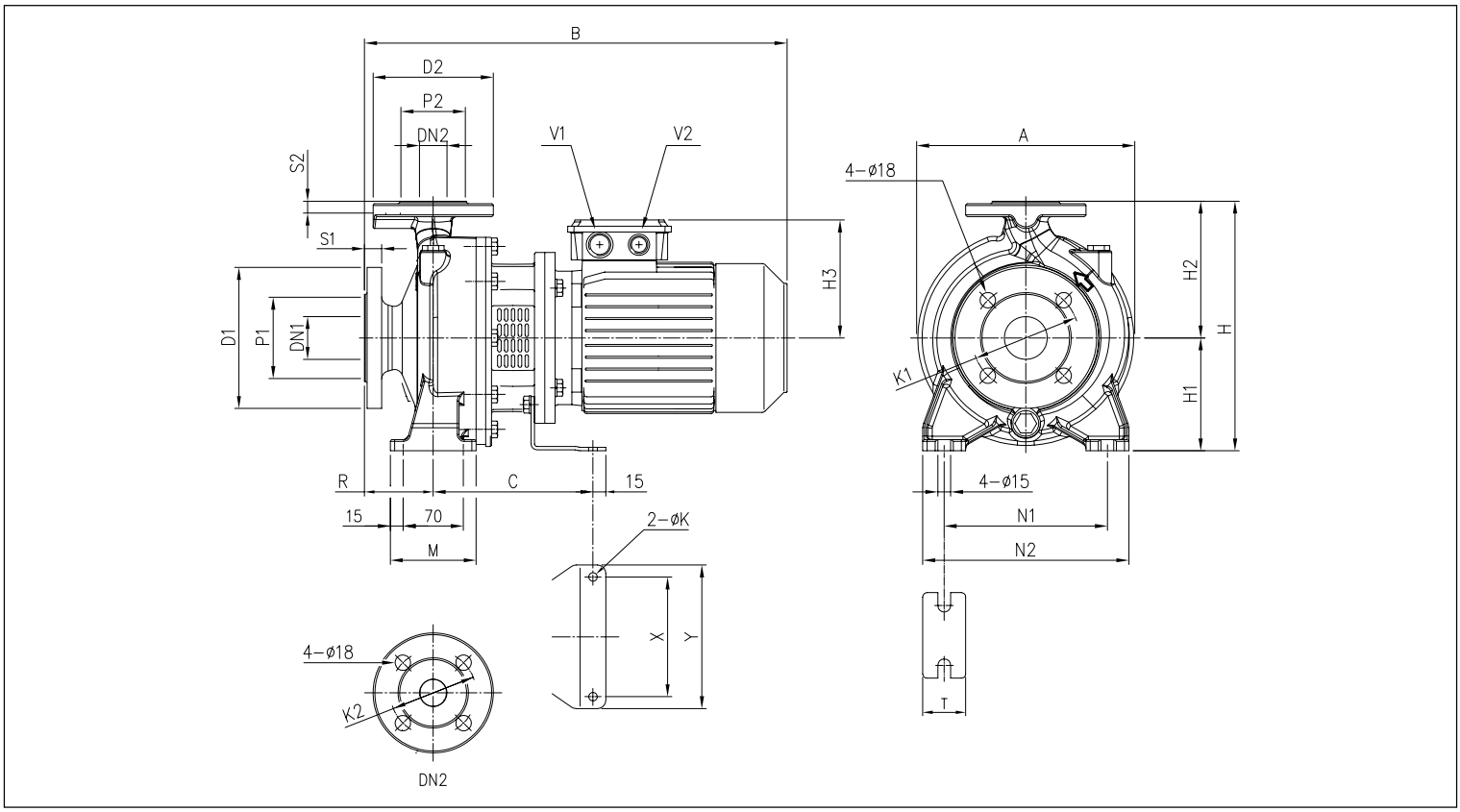
Model	Dimensions [mm]																											Weight [kg]
	DN1 Ø	P1 Ø	K1 Ø	D1 Ø	S1	DN2 Ø	P2 Ø	K2 Ø	D2 Ø	S2	H	H1	H2	H3	R	W	M	N1	N2	T	E	A	A1	A2	B	C	V2	
3D4 32-125/0.25	50	102	125	165	20	32	78	100	140	18	252	112	140	102	80	70	100	140	190	50	10	213	106.5	106.5	371	205	PG 11	23.9
3D4 32-160/0.37R	50	102	125	165	20	32	78	100	140	18	292	132	160	119	80	70	100	190	240	50	10	254	127	127	393	219	PG 11	31.1
3D4 32-160/0.37	50	102	125	165	20	32	78	100	140	18	292	132	160	119	80	70	100	190	240	50	10	254	127	127	393	219	PG 11	31.3
3D4 32-200/0.55R	50	102	125	165	20	32	78	100	140	18	340	160	180	119	80	70	100	190	240	50	10	296	148	148	393	219	PG 11	35.9
3D4 32-200/0.55	50	102	125	165	20	32	78	100	140	18	340	160	180	119	80	70	100	190	240	50	10	296	148	148	393	219	PG 11	35.9
3D4 32-200/0.75	50	102	125	165	20	32	78	100	140	18	340	160	180	124	80	70	100	190	240	50	10	296	148	148	432	244 - 255	PG 13.5	39.5
3D4 40-125/0.37R	65	122	145	185	20	40	88	110	150	18	252	112	140	102	80	70	100	160	210	50	10	213	108	112	371	205	PG 11	24.7
3D4 40-125/0.37	65	122	145	185	20	40	88	110	150	18	252	112	140	102	80	70	100	160	210	50	10	213	108	112	371	205	PG 11	24.8
3D4 40-160/0.55R	65	122	145	185	20	40	88	110	150	18	292	132	160	119	80	70	100	190	240	50	12	254	127	127	393	219	PG 11	32.3
3D4 40-160/0.55	65	122	145	185	20	40	88	110	150	18	292	132	160	119	80	70	100	190	240	50	12	254	127	127	393	219	PG 11	32.7
3D4 40-200/1.1R	65	122	145	185	20	40	88	110	150	18	340	160	180	124	100	70	100	212	265	50	12	296	148	148	452	244 - 255	PG 13.5	41.2
3D4 40-200/1.1	65	122	145	185	20	40	88	110	150	18	340	160	180	124	100	70	100	212	265	50	12	296	148	148	452	244 - 255	PG 13.5	41.3
3D4 40-200/1.5	65	122	145	185	20	40	88	110	150	18	340	160	180	124	100	70	100	212	265	50	12	296	148	148	491	244 - 255	PG 13.5	43.0
3D4 50-125/0.55R	65	122	145	185	20	50	102	125	165	20	292	132	160	119	100	70	100	190	240	50	10	254	127	127	413	219	PG 11	32.7
3D4 50-125/0.55	65	122	145	185	20	50	102	125	165	20	292	132	160	119	100	70	100	190	240	50	10	254	127	127	413	219	PG 11	32.8
3D4 50-160/1.1R	65	122	145	185	20	50	102	125	165	20	340	160	180	124	100	70	100	212	265	50	10	296	148	148	452	244 - 255	PG 13.5	42.2
3D4 50-160/1.1	65	122	145	185	20	50	102	125	165	20	340	160	180	124	100	70	100	212	265	50	10	296	148	148	452	244 - 255	PG 13.5	42.3
3D4 50-200/1.5R	65	122	145	185	20	50	102	125	165	20	360	160	200	124	100	70	100	212	265	50	10	296	148	148	491	244 - 255	PG 13.5	43.4
3D4 50-200/1.5	65	122	145	185	20	50	102	125	165	20	360	160	200	124	100	70	100	212	265	50	10	296	148	148	491	244 - 255	PG 13.5	44.5
3D4 50-200/2.2	65	122	145	185	20	50	102	125	165	20	360	160	200	141	100	70	100	212	265	50	10	296	148	148	474	253	PG 16	42.9
3D4 65-125/0.55	80	138	160	200	22	65	122	145	185	20	340	160	180	119	100	95	125	212	280	65	12	263	127	136	413	219	PG 11	37.2
3D4 65-125/0.75	80	138	160	200	22	65	122	145	185	20	340	160	180	124	100	95	125	212	280	65	12	263	127	136	452	244 - 255	PG 13.5	35.3
3D4 65-125/1.1	80	138	160	200	22	65	122	145	185	20	340	160	180	124	100	95	125	212	280	65	12	263	127	136	452	244 - 255	PG 13.5	35.3
3D4 65-160/1.1	80	138	160	200	22	65	122	145	185	20	360	160	200	124	100	95	125	212	280	65	12	296	148	148	452	244 - 255	PG 13.5	44.6
3D4 65-160/1.5	80	138	160	200	22	65	122	145	185	20	360	160	200	124	100	95	125	212	280	65	12	296	148	148	491	244 - 255	PG 13.5	46.1
3D4 65-160/2.2	80	138	160	200	22	65	122	145	185	20	360	160	200	141	100	95	125	212	280	65	12	296	148	148	474	253	PG 16	48.1
3D4 65-200/2.2R	80	138	160	200	22	65	122	145	185	20	405	180	225	141	100	95	125	250	320	65	12	312	154.5	157.5	474	253	PG 16	46.5
3D4 65-200/2.2	80	138	160	200	22	65	122	145	185	20	405	180	225	141	100	95	125	250	320	65	12	312	154.5	157.5	474	253	PG 16	46.5
3D4 65-200/3	80	138	160	200	22	65	122	145	185	20	405	180	225	141	100	95	125	250	320	65	12	312	154.5	157.5	514	253	PG 16	54.5

3D SERIES (4 POLES)

MONOBLOC AND CENTRIFUGAL ELECTRIC PUMPS STANDARDISED IN COMPLIANCE WITH EN 733 (EX DIN 24255)

DIMENSIONS 3DS4 SERIES 32, 40, 50, 65

4 Poles



DIMENSIONS CHART

Model	Dimensions [mm]																											Weight [kg]	
	DN1 Ø	P1 Ø	K1 Ø	D1 Ø	S1	DN2 Ø	P2 Ø	K2 Ø	D2 Ø	S2	H	H1	H2	H3	R	W	M	N1	N2	T	A	B	C	X	Y	K	V2	V2		*
3DS4 32-125/0.25	50	102	125	165	20	32	78	100	140	18	252	112	140	114	80	70	100	140	190	50	213	404	153	112	140	8	M20x1.5	M16x1.5	24.3	-
3DS4 32-160/0.37R	50	102	125	165	20	32	78	100	140	18	292	132	160	114	80	70	100	190	240	50	254	404	153	112	140	8	M20x1.5	M16x1.5	29.9	-
3DS4 32-160/0.37	50	102	125	165	20	32	78	100	140	18	292	132	160	114	80	70	100	190	240	50	254	404	153	112	140	8	M20x1.5	M16x1.5	30.1	-
3DS4 32-200/0.55R	50	102	125	165	20	32	78	100	140	18	340	160	180	139	80	70	100	190	240	50	296	430	174	140	168	10	M25x1.5	M20x1.5	39.4	-
3DS4 32-200/0.55	50	102	125	165	20	32	78	100	140	18	340	160	180	139	80	70	100	190	240	50	296	430	174	140	168	10	M25x1.5	M20x1.5	44.4	-
3DS4 32-200/0.75	50	102	125	165	20	32	78	100	140	18	340	160	180	139	80	70	100	190	240	50	296	430	174	140	168	10	M25x1.5	M20x1.5	40.9	40.9
3DS4 40-125/0.37R	65	122	145	185	20	40	88	110	150	18	252	112	140	114	80	70	100	160	210	50	220	404	153	112	140	8	M20x1.5	M16x1.5	25.3	-
3DS4 40-125/0.37	65	122	145	185	20	40	88	110	150	18	252	112	140	114	80	70	100	160	210	50	220	404	153	112	140	8	M20x1.5	M16x1.5	25.3	-
3DS4 40-160/0.55R	65	122	145	185	20	40	88	110	150	18	292	132	160	139	80	70	100	190	240	50	254	430	174	140	168	10	M25x1.5	M20x1.5	35.6	-
3DS4 40-160/0.55	65	122	145	185	20	40	88	110	150	18	292	132	160	139	80	70	100	190	240	50	254	430	174	140	168	10	M25x1.5	M20x1.5	35.6	-
3DS4 40-200/1.1R	65	122	145	185	20	40	88	110	150	18	340	160	180	148	100	70	100	212	265	50	296	497	186	140	168	10	M25x1.5	M20x1.5	47	49.2
3DS4 40-200/1.1	65	122	145	185	20	40	88	110	150	18	340	160	180	148	100	70	100	212	265	50	296	497	186	140	168	10	M25x1.5	M20x1.5	47	49.2
3DS4 40-200/1.5	65	122	145	185	20	40	88	110	150	18	340	160	180	148	100	70	100	212	265	50	296	497	186	140	168	10	M25x1.5	M20x1.5	48.2	50.8
3DS4 50-125/0.55R	65	122	145	185	20	50	102	125	165	20	292	132	160	139	100	70	100	190	240	50	254	450	174	140	168	10	M25x1.5	M20x1.5	36	-
3DS4 50-125/0.55	65	122	145	185	20	50	102	125	165	20	292	132	160	139	100	70	100	190	240	50	254	450	174	140	168	10	M25x1.5	M20x1.5	36	-
3DS4 50-160/1.1R	65	122	145	185	20	50	102	125	165	20	340	160	180	148	100	70	100	212	265	50	296	497	186	140	168	10	M25x1.5	M20x1.5	47.6	49.8
3DS4 50-160/1.1	65	122	145	185	20	50	102	125	165	20	340	160	180	148	100	70	100	212	265	50	296	497	186	140	168	10	M25x1.5	M20x1.5	47.6	49.8
3DS4 50-200/1.5R	65	122	145	185	20	50	102	125	165	20	360	160	200	148	100	70	100	212	265	50	296	497	186	140	168	10	M25x1.5	M20x1.5	50	52.6
3DS4 50-200/1.5	65	122	145	185	20	50	102	125	165	20	360	160	200	148	100	70	100	212	265	50	296	497	186	140	168	10	M25x1.5	M20x1.5	50	52.6
3DS4 65-125/0.55	80	138	160	200	22	65	122	145	185	20	340	160	180	139	100	95	125	212	280	65	263	450	174	140	168	10	M25x1.5	M20x1.5	36.8	-
3DS4 65-125/0.75	80	138	160	200	22	65	122	145	185	20	340	160	180	139	100	95	125	212	280	65	263	450	174	140	168	10	M25x1.5	M20x1.5	45.3	45.3
3DS4 65-125/1.1	80	138	160	200	22	65	122	145	185	20	340	160	180	148	100	95	125	212	280	65	263	497	186	140	168	10	M25x1.5	M20x1.5	45.3	47.5
3DS4 65-160/1.1	80	138	160	200	22	65	122	145	185	20	360	160	200	148	100	95	125	212	280	65	296	497	186	140	168	10	M25x1.5	M20x1.5	47.1	49.3
3DS4 65-160/1.5	80	138	160	200	22	65	122	145	185	20	360	160	200	148	100	95	125	212	280	65	296	497	186	140	168	10	M25x1.5	M20x1.5	59.1	61.7

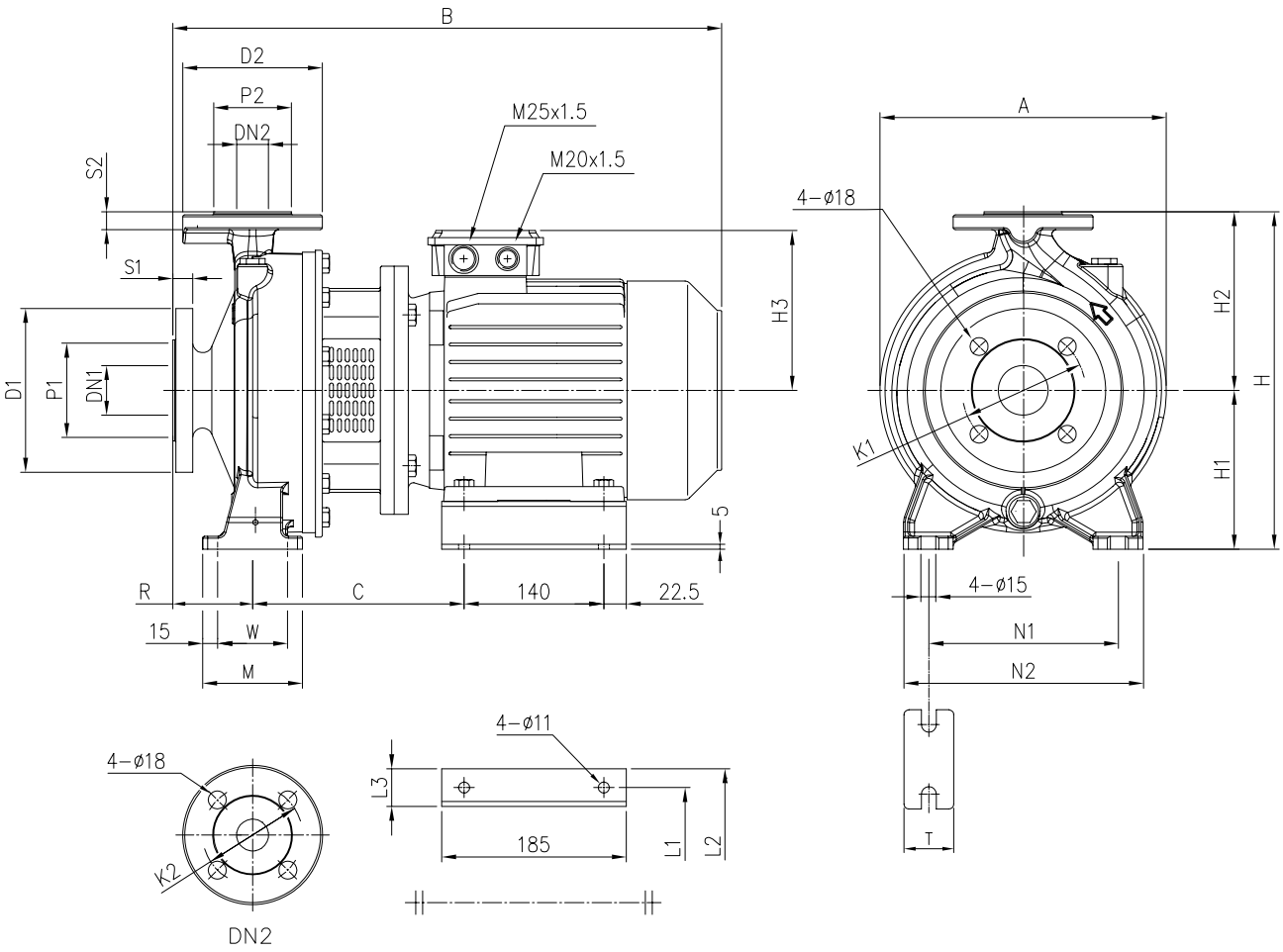
* = IE3 motors only

3D SERIES (4 POLES)

MONOBLOC AND CENTRIFUGAL ELECTRIC PUMPS STANDARDISED IN COMPLIANCE WITH EN 733 (EX DIN 24255)

DIMENSIONS 3DS4 SERIES 50, 60

4 Poles



DIMENSIONS CHART

Model	Dimensions [mm]																				Weight [kg]	
	DN1 Ø	P1 Ø	K1 Ø	D1 Ø	S1	DN2 Ø	P2 Ø	K2 Ø	D2 Ø	S2	H	H1	H2	R	W	M	A	N1	N2	T		*
3DS4 50-200/2.20	65	122	145	185	20	50	102	125	165	20	360	160	200	100	70	100	296	212	265	50	55.9	56.3
3DS4 65-160/2.20	80	138	160	200	22	65	122	145	185	20	360	160	200	100	95	125	296	212	280	65	62.1	62.5
3DS4 65-200/2.20R	80	138	160	200	22	65	122	145	185	20	405	180	225	100	95	125	312	250	320	65	59	59.4
3DS4 65-200/2.20	80	138	160	200	22	65	122	145	185	20	405	180	225	100	95	125	312	250	320	65	59.5	59.9
3DS4 65-200/3.00	80	138	160	200	22	65	122	145	185	20	405	180	225	100	95	125	312	250	320	65	65	65

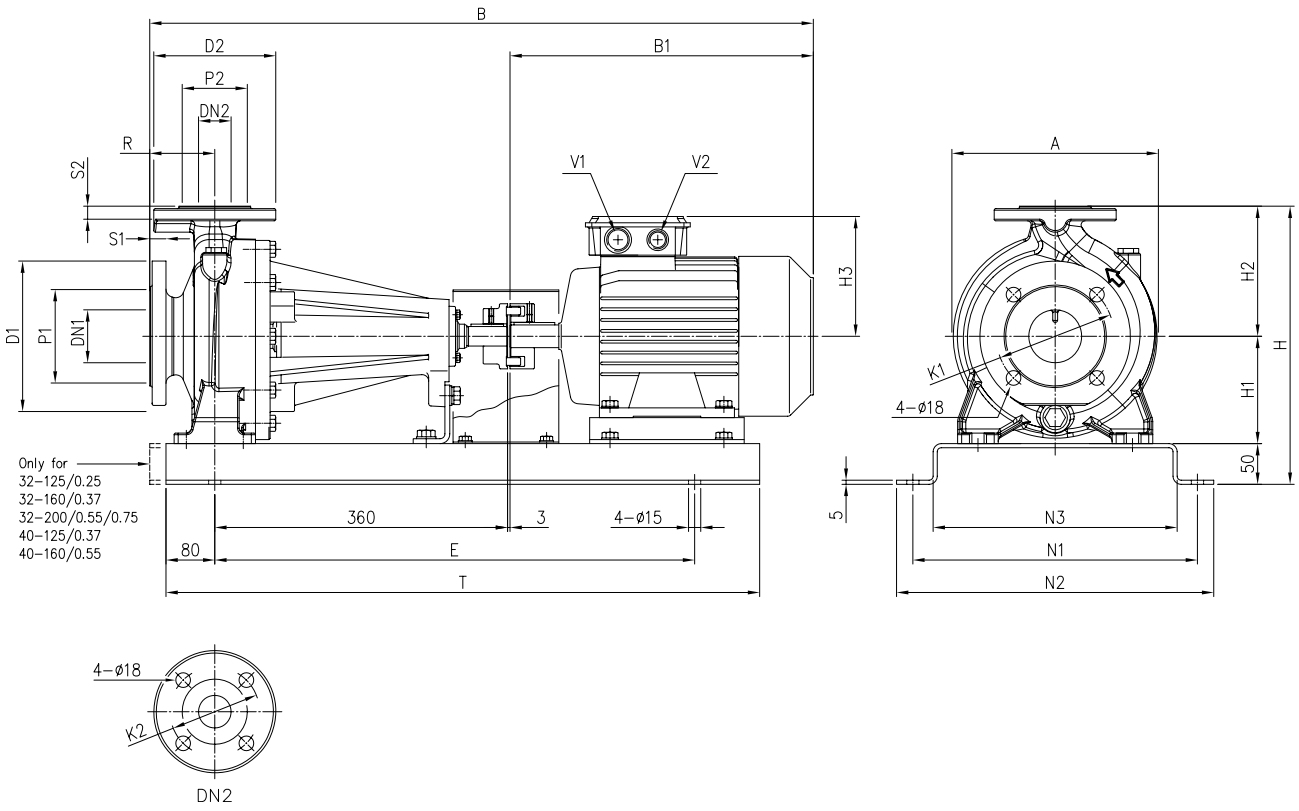
* = IE3 motors only

3D SERIES (4 POLES)

MONOBLOC AND CENTRIFUGAL ELECTRIC PUMPS STANDARDISED IN COMPLIANCE WITH EN 733 (EX DIN 24255)

DIMENSIONS 3DP4 SERIES 32, 65

4 Poles



DIMENSIONS CHART

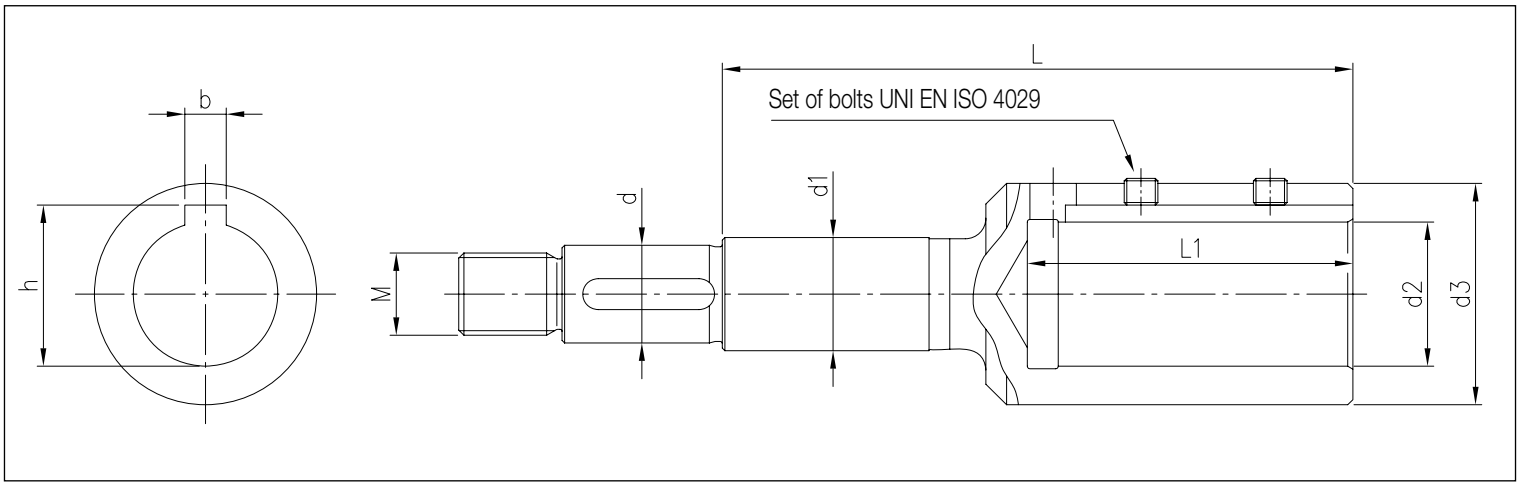
Model	Dimensions [mm]																									Weight [kg]	
	DN1 Ø	P1 Ø	K1 Ø	D1 Ø	S1	DN2 Ø	P2 Ø	K2 Ø	D2 Ø	S2	H	H1	H2	H3	R	A	B	B1	E	N1	N2	N3	T	V2	V2		*
3DP4 32-125/0.25	50	102	125	165	20	32	78	100	140	18	302	112	140	114	80	213	689	246	550	300	340	250	710	M20X1.5	M16X1.5	45.9	-
3DP4 32-160/0.37R	50	102	125	165	20	32	78	100	140	18	342	132	160	114	80	254	689	246	510	350	390	300	670	M20X1.5	M16X1.5	52.4	-
3DP4 32-160/0.37	50	102	125	165	20	32	78	100	140	18	342	132	160	114	80	254	689	246	510	350	390	300	670	M20X1.5	M16X1.5	52.4	-
3DP4 32-200/0.55R	50	102	125	165	20	32	78	100	140	18	390	160	180	139	80	296	715	272	510	350	390	300	670	M25X1.5	M20X1.5	64.9	-
3DP4 32-200/0.55	50	102	125	165	20	32	78	100	140	18	390	160	180	139	80	296	715	272	510	350	390	300	670	M25X1.5	M20X1.5	64.9	-
3DP4 32-200/0.75	50	102	125	165	20	32	78	100	140	18	390	160	180	139	80	296	715	272	510	350	390	300	670	M25X1.5	M20X1.5	65.9	65.9
3DP4 40-125/0.37R	65	122	145	185	20	40	88	110	150	18	302	112	140	114	80	220	689	246	550	300	340	250	710	M20X1.5	M16X1.5	55.6	-
3DP4 40-125/0.37	65	122	145	185	20	40	88	110	150	18	302	112	140	114	80	220	689	246	550	300	340	250	710	M20X1.5	M16X1.5	55.6	-
3DP4 40-160/0.55R	65	122	145	185	20	40	88	110	150	18	342	132	160	139	80	254	715	272	510	350	390	300	670	M25X1.5	M20X1.5	56.6	-
3DP4 40-160/0.55	65	122	145	185	20	40	88	110	150	18	342	132	160	139	80	254	715	272	510	350	390	300	670	M25X1.5	M20X1.5	56.6	-
3DP4 40-200/1.1R	65	122	145	185	20	40	88	110	150	18	390	160	180	148	100	296	780	317	590	350	390	300	750	M25X1.5	M20X1.5	74.2	76.4
3DP4 40-200/1.1	65	122	145	185	20	40	88	110	150	18	390	160	180	148	100	296	780	317	590	350	390	300	750	M25X1.5	M20X1.5	74.2	76.4
3DP4 40-200/1.5	65	122	145	185	20	40	88	110	150	18	390	160	180	148	100	296	780	317	590	350	390	300	750	M25X1.5	M20X1.5	76.7	79.3
3DP4 50-125/0.55R	65	122	145	185	20	50	102	125	165	20	342	132	160	139	100	254	735	272	510	350	390	300	670	M25X1.5	M20X1.5	57.3	-
3DP4 50-125/0.55	65	122	145	185	20	50	102	125	165	20	342	132	160	139	100	254	735	272	510	350	390	300	670	M25X1.5	M20X1.5	57.3	-
3DP4 50-160/1.1R	65	122	145	185	20	50	102	125	165	20	390	160	180	148	100	296	780	317	590	350	390	300	750	M25X1.5	M20X1.5	66.1	68.3
3DP4 50-160/1.1	65	122	145	185	20	50	102	125	165	20	390	160	180	148	100	296	780	317	590	350	390	300	750	M25X1.5	M20X1.5	66.1	68.3
3DP4 50-200/1.5R	65	122	145	185	20	50	102	125	165	20	410	160	200	148	100	296	780	317	590	350	390	300	750	M25X1.5	M20X1.5	76.9	79.5
3DP4 50-200/1.5	65	122	145	185	20	50	102	125	165	20	410	160	200	148	100	296	780	317	590	350	390	300	750	M25X1.5	M20X1.5	76.9	79.5
3DP4 50-200/1.5	65	122	145	185	20	50	102	125	165	20	410	160	200	155	100	296	829	366	590	350	390	300	750	M25X1.5	M20X1.5	82.9	83.3
3DP4 65-125/0.55	80	138	160	200	22	65	122	145	185	20	390	160	180	139	100	263	735	272	510	350	390	300	670	M25X1.5	M20X1.5	63.8	-
3DP4 65-125/0.75	80	138	160	200	22	65	122	145	185	20	390	160	180	139	100	263	735	272	510	350	390	300	670	M25X1.5	M20X1.5	63.8	63.8
3DP4 65-125/1.1	80	138	160	200	22	65	122	145	185	20	390	160	180	148	100	263	780	317	590	350	390	300	750	M25X1.5	M20X1.5	71.3	73.5
3DP4 65-160/1.1	80	138	160	200	22	65	122	145	185	20	410	160	200	148	100	296	780	317	590	350	390	300	750	M25X1.5	M20X1.5	78.6	80.8
3DP4 65-160/1.5	80	138	160	200	22	65	122	145	185	20	410	160	200	148	100	296	780	317	590	350	390	300	750	M25X1.5	M20X1.5	79.6	82.2
3DP4 65-160/2.2	80	138	160	200	22	65	122	145	185	20	410	160	200	155	100	296	829	366	590	350	390	300	750	M25X1.5	M20X1.5	87.6	88
3DP4 65-200/2.2R	80	138	160	200	22	65	122	145	185	20	455	180	225	155	100	296	829	366	590	380	420	330	750	M25X1.5	M20X1.5	90.5	90.9
3DP4 65-200/2.2	80	138	160	200	22	65	122	145	185	20	455	180	225	155	100	296	829	366	590	380	420	330	750	M25X1.5	M20X1.5	90.5	90.9
3DP4 65-200/3	80	138	160	200	22	65	122	145	185	20	455	180	225	155	100	296	829	366	590	380	420	330	750	M25X1.5	M20X1.5	94	94

* = IE3 motors only

3D SERIES (4 POLES)

MONOBLOC AND CENTRIFUGAL ELECTRIC PUMPS STANDARDISED IN COMPLIANCE WITH EN 733 (EX DIN 24255)

Coupling for 3DS4 SERIES **4 Poles**



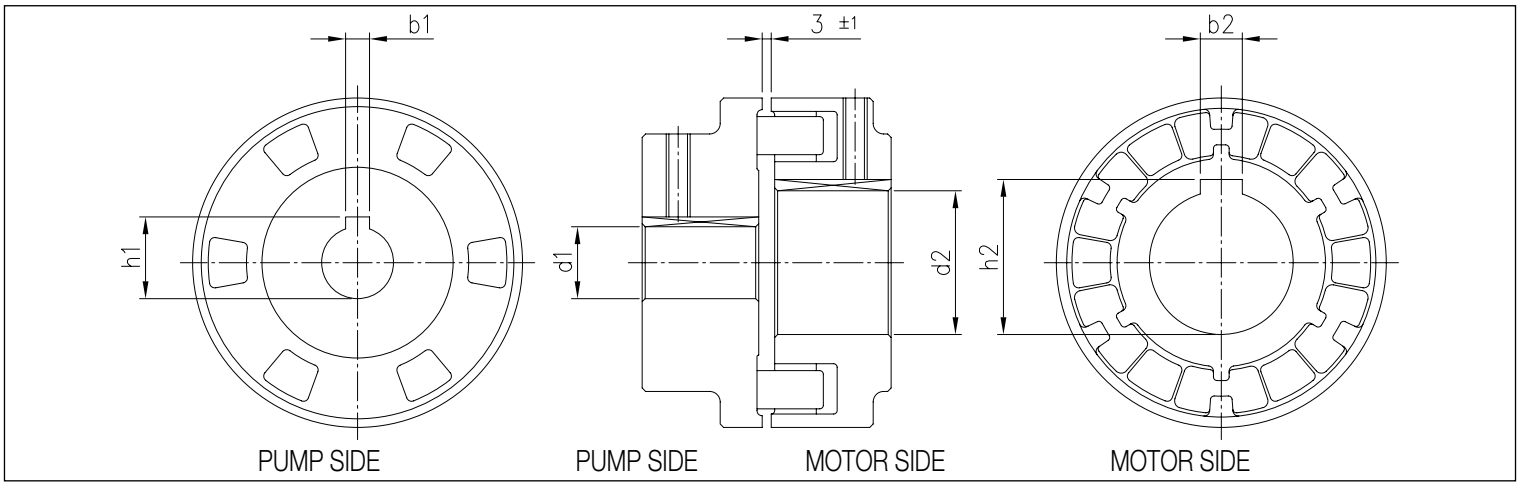
DIMENSIONS CHART

Model	[HP]	[kW]	Motor size	Dimensions [mm]									
				d	d1	d2	d3	M	L	L1	b	h	Set of bolts
3DS4 32-125/0.25	0.33	0.25	71	19	22	14	28	M16x1.5	88	33	5	16.3	M5x6
3DS4 32-160/0.37R	0.5	0.37	71	19	22	14	28	M16x1.5	88	33	5	16.3	M5x6
3DS4 32-160/0.37	0.5	0.37	71	19	22	14	28	M16x1.5	88	33	5	16.3	M5x6
3DS4 32-200/0.55R	0.75	0.55	80	19	22	19	33	M16x1.5	98	43	6	21.8	M6x6
3DS4 32-200/0.55	0.75	0.55	80	19	22	19	33	M16x1.5	98	43	6	21.8	M6x6
3DS4 32-200/0.75	1	0.75	80	19	22	19	33	M16x1.5	98	43	6	21.8	M6x6
3DS4 40-125/0.37R	0.5	0.37	71	19	22	14	28	M16x1.5	88	33	5	16.3	M5x6
3DS4 40-125/0.37	0.5	0.37	71	19	22	14	28	M16x1.5	88	33	5	16.3	M5x6
3DS4 40-160/0.55R	0.75	0.55	80	19	22	19	33	M16x1.5	98	43	6	21.8	M6x6
3DS4 40-160/0.55	0.75	0.55	80	19	22	19	33	M16x1.5	98	43	6	21.8	M6x6
3DS4 40-200/1.1R	1.5	1.1	90	19	22	24	39	M16x1.5	110	53	8	27.3	M8x8
3DS4 40-200/1.1	1.5	1.1	90	19	22	24	39	M16x1.5	110	53	8	27.3	M8x8
3DS4 40-200/1.5	2	1.5	90	19	22	24	39	M16x1.5	110	53	8	27.3	M8x8
3DS4 50-125/0.55R	0.75	0.55	80	19	22	19	33	M16x1.5	98	43	6	21.8	M6x6
3DS4 50-125/0.55	0.75	0.55	80	19	22	19	33	M16x1.5	98	43	6	21.8	M6x6
3DS4 50-160/1.1R	1.5	1.1	90	19	22	24	39	M16x1.5	110	53	8	27.3	M8x8
3DS4 50-160/1.1	1.5	1.1	90	19	22	24	39	M16x1.5	110	53	8	27.3	M8x8
3DS4 50-200/1.5R	2	1.5	90	19	22	24	39	M16x1.5	110	53	8	27.3	M8x8
3DS4 50-200/1.5	2	1.5	90	19	22	24	39	M16x1.5	110	53	8	27.3	M8x8
3DS4 50-200/2.2	3	2.2	100	22	22	28	43	M18x1.5	153	63	8	31.3	M8x8
3DS4 65-125/0.55	0.75	0.55	80	19	22	19	33	M16x1.5	98	43	6	21.8	M6x6
3DS4 65-125/0.75	1	0.75	80	19	22	19	33	M16x1.5	98	43	6	21.8	M6x6
3DS4 65-125/1.1	1.5	1.1	90	19	22	24	39	M16x1.5	110	53	8	27.3	M8x8
3DS4 65-160/1.1	1.5	1.1	90	19	22	24	39	M16x1.5	110	53	8	27.3	M8x8
3DS4 65-160/1.5	2	1.5	90	19	22	24	39	M16x1.5	110	53	8	27.3	M8x8
3DS4 65-160/2.2	3	2.2	100	19	22	28	43	M16x1.5	122	63	8	31.3	M8x8
3DS4 65-200/2.2R	3	2.2	100	19	22	28	43	M16x1.5	122	63	8	31.3	M8x8
3DS4 65-200/2.2	3	2.2	100	19	22	28	43	M16x1.5	122	63	8	31.3	M8x8
3DS4 65-200/3	4	3	100	19	22	28	43	M16x1.5	122	63	8	31.3	M8x8

3D SERIES (4 POLES)

MONOBLOC AND CENTRIFUGAL ELECTRIC PUMPS STANDARDISED IN COMPLIANCE WITH EN 733 (EX DIN 24255)

Coupling for 3DP4 SERIES **4 Poles**



DIMENSIONS CHART

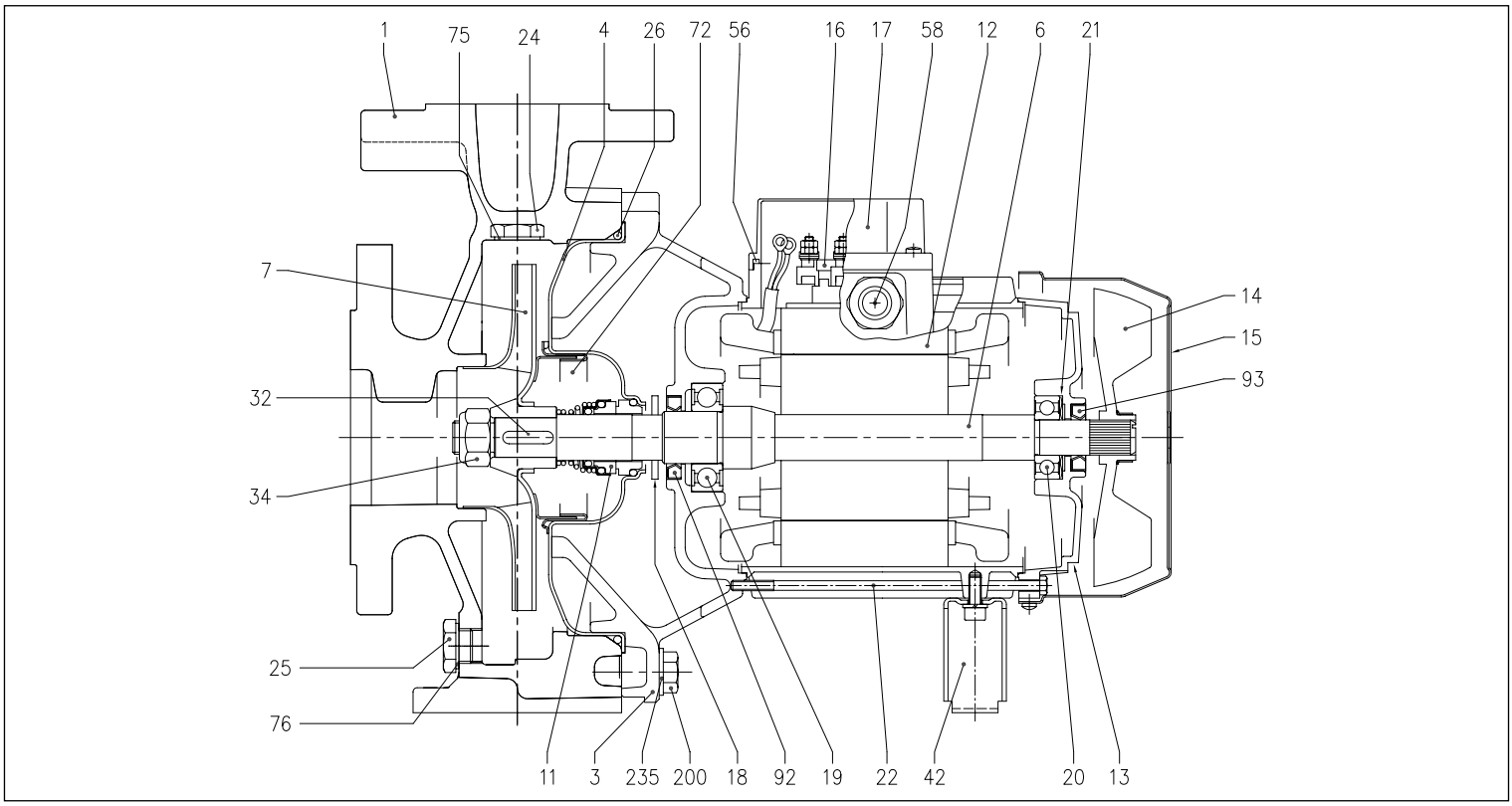
Model	[HP]	[kW]	Motor size	Dimensions [mm]					
				d1	b1	h1	d2	b2	h2
3DP4 32-125/0.25	0.33	0.25	71	24	8	27.3	14	5	16.3
3DP4 32-160/0.37R	0.50	0.37	71	24	8	27.3	14	5	16.3
3DP4 32-160/0.37	0.50	0.37	71	24	8	27.3	14	5	16.3
3DP4 32-200/0.55R	0.75	0.55	80	24	8	27.3	19	6	21.8
3DP4 32-200/0.55	0.75	0.55	80	24	8	27.3	19	6	21.8
3DP4 32-200/0.75	1.00	0.75	80	24	8	27.3	19	6	21.8
3DP4 40-125/0.37R	0.50	0.37	71	24	8	27.3	14	5	16.3
3DP4 40-125/0.37	0.50	0.37	71	24	8	27.3	14	5	16.3
3DP4 40-160/0.55R	0.75	0.55	80	24	8	27.3	19	6	21.8
3DP4 40-160/0.55	0.75	0.55	80	24	8	27.3	19	6	21.8
3DP4 40-200/1.10R	1.50	1.10	90	24	8	27.3	24	8	27.3
3DP4 40-200/1.10	1.50	1.10	90	24	8	27.3	24	8	27.3
3DP4 40-200/1.50	2.00	1.50	90	24	8	27.3	24	8	27.3
3DP4 50-125/0.55R	0.75	0.55	80	24	8	27.3	19	6	21.8
3DP4 50-125/0.55	0.75	0.55	80	24	8	27.3	19	6	21.8
3DP4 50-160/1.10R	1.50	1.10	90	24	8	27.3	24	8	27.3
3DP4 50-160/1.10	1.50	1.10	90	24	8	27.3	24	8	27.3
3DP4 50-200/1.50R	2.00	1.50	90	24	8	27.3	24	8	27.3
3DP4 50-200/1.50	2.00	1.50	90	24	8	27.3	24	8	27.3
3DP4 50-200/2.20	3.00	2.20	100	24	8	27.3	28	8	31.3
3DP4 65-125/0.55	0.75	0.55	80	24	8	27.3	19	6	21.8
3DP4 65-125/0.75	1.00	0.75	80	24	8	27.3	19	6	21.8
3DP4 65-125/1.10	1.50	1.10	90	24	8	27.3	24	8	27.3
3DP4 65-160/1.10	1.50	1.10	90	24	8	27.3	24	8	27.3
3DP4 65-160/1.50	2.00	1.50	90	24	8	27.3	24	8	27.3
3DP4 65-160/2.20	3.00	2.20	100	24	8	27.3	28	8	31.3
3DP4 65-200/2.20R	3.00	2.20	100	24	8	27.3	28	8	31.3
3DP4 65-200/2.20	3.00	2.20	100	24	8	27.3	28	8	31.3
3DP4 65-200/3.00	4.00	3.00	100	24	8	27.3	28	8	31.3

3D SERIES (4 POLES)

MONOBLOC AND CENTRIFUGAL ELECTRIC PUMPS STANDARDISED IN COMPLIANCE WITH EN 733 (EX DIN 24255)

SECTIONAL VIEW 3D4 SERIES

4 Poles



MATERIALS TABLE

Ref.	Name	Material	Ref.	Name	Material
001	Pump body	Cast iron EN-GJL-250-EN 1561[1]	022	Linkage	Fe 42 galvanised
003	Motor mount	[1]	024	Filler cap	Brass
004	Seal disk	EN 1.4301 (AISI 304)	025	Drain cap	Brass
006	Rotor shaft (part in contact with liquid)	EN 1.4301 (AISI 304)	026	O-ring	NBR [3]
007	Impeller	[2]	032	Key	EN 1.4401 (AISI 316)
011	Mechanical seal	Ceramic/Carbon/NBR	034	Impeller nut	EN 1.4301 (AISI 304)
012	Motor casing	-	042	Foot	Aluminium / Galvanised steel
013	Motor cover	Aluminium	056	Terminal block gasket	NBR
014	Fan	PA	058	Cable gland	-
015	Fan cover	Fe P04 galvanised	072	Clearance ring [4]	EN 1.4301 (AISI 304)
016	Terminal block	-	075	Washer	Aluminium
017	Terminal block cover	Aluminium (three phase only)	076	Washer	Aluminium
018	Splash guard washer	NBR	092	Seal ring	-
019	Bearing (pump side)	-	093	Seal ring	-
020	Bearing (motor side)	-	200	Bolt	8.8 galvanised steel class ISO 898-1
021	Compensator ring	C70 steel	235	Washer	Galvanised steel

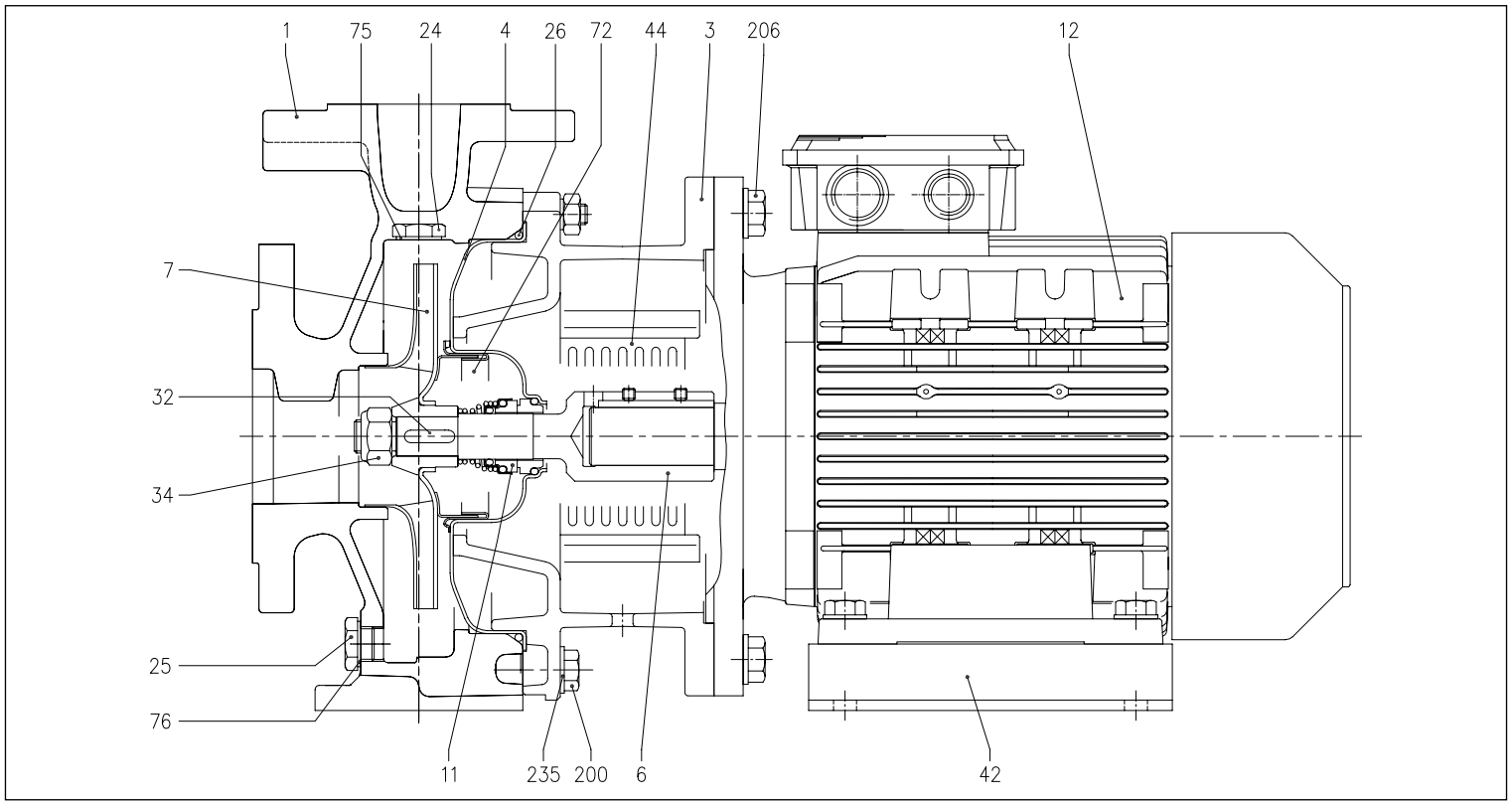
[1]= Aluminium AL-EN-1706-AC-46000-D for models 3D4 SERIES 50-200/2.2, 65-125/0.75 and 1.1, 65-160/2.2, 65-200/2.2 and 3 kW; cast iron EN-GJL-200-EN 1561 for the rest of the range
[2]= EN 1.4301 (AISI 304) for 3D4 SERIES 32, 40, 50; EN 1.4401 (AISI 316) for 3D4 SERIES 65
[3]= FPM for versions H, HS, HW, HSW; EPDM for version E
[4]= 3D4 SERIES 32-200, 40-200, 50-160, 50-200 only

3D SERIES (4 POLES)

MONOBLOC AND CENTRIFUGAL ELECTRIC PUMPS STANDARDISED IN COMPLIANCE WITH EN 733 (EX DIN 24255)

SECTIONAL VIEW 3DS4 SERIES

4 Poles



MATERIALS TABLE

Ref.	Name	Material
001	Pump body	Cast iron EN-GJL-250-EN 1561
003	Motor mount	Cast iron EN-GJL-250-EN 1561
004	Seal disk	EN 1.4301 (AISI 304)
006	Coupling (Part in contact with liquid)	EN 1.4301 (AISI 304)
007	Impeller	[1]
011	Mechanical seal	Ceramic/Carbon/NBR
012	Motor	-
024	Filler cap	Brass
025	Drain cap	Brass
026	O-ring	NBR [2]
032	Key	EN 1.4401 (AISI 316)
034	Impeller nut	EN 1.4301 (AISI 304)
042	Foot	Galvanised steel
044	Mount protection	EN 1.4301 (AISI 304)
072	Clearance ring [3]	EN 1.4301 (AISI 304)
075	Washer	Aluminium
076	Washer	Aluminium
200	Bolt	8.8 galvanised steel class ISO 898-1
206	Bolt (mount)	8.8 galvanised steel class ISO 898-1
235	Washer	Galvanised steel

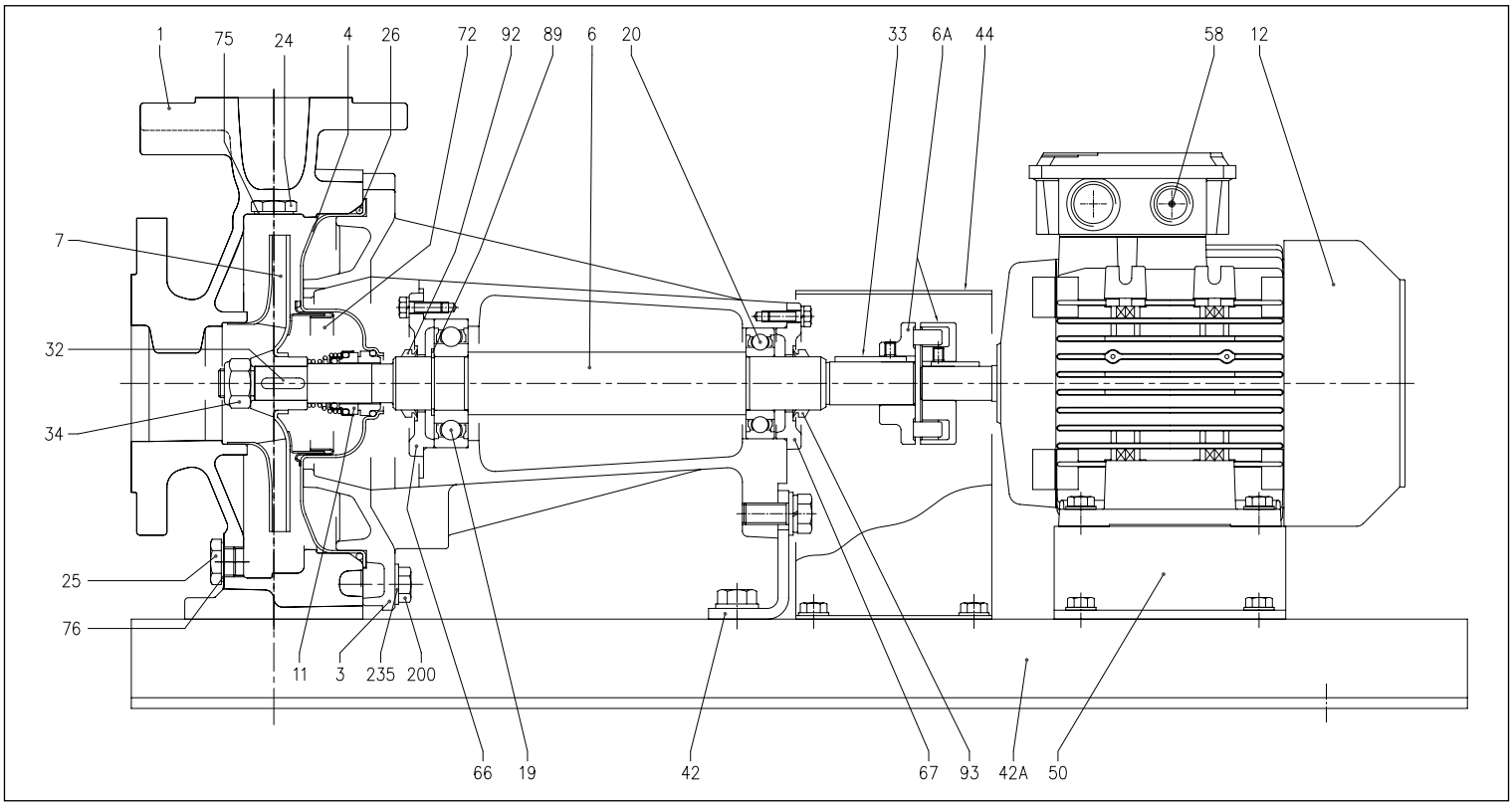
[1]= EN 1.4301 (AISI 304) for models 3DS4 SERIES 32, 40, 50; EN 1.4401 (AISI 316) for 3 SERIES DS4 65
[2]= FPM for versions H, HS, HW, HSW; EPDM for version E
[3]= 3DS4 SERIES 32-200, 40-200, 50-160, 50-200 only

3D SERIES (4 POLES)

MONOBLOC AND CENTRIFUGAL ELECTRIC PUMPS STANDARDISED IN COMPLIANCE WITH EN 733 (EX DIN 24255)

SECTIONAL VIEW 3DP4 SERIES

4 Poles



MATERIALS TABLE

Ref.	Name	Material	Ref.	Name	Material
001	Pump body	Cast iron EN-GJL-250-EN 1561	034	Impeller nut	EN 1.4301 (AISI 304)
003	Motor mount	Cast iron EN-GJL-250-EN 1561	042	Pump mount	Fe 37 galvanised
004	Seal disk	EN 1.4301 (AISI 304)	042A	Base	Fe 37 galvanised
006	Rotor shaft	EN 1.4301 (AISI 304)	050	Foot	Aluminium / Galvanised steel
006A	Flexible coupling	Cast iron EN-GJL-250-EN 1561	058	Cable gland	-
007	Impeller	[1]	066	Mount cover	Cast iron EN-GJL-250-EN 1561
011	Mechanical seal	Ceramic/Carbon/NBR	067	Mount cover	Cast iron EN-GJL-250-EN 1561
012	Motor casing	-	072	Clearance ring [3]	EN 1.4301 (AISI 304)
019	Bearing	-	075	Washer	Aluminium
020	Bearing	-	076	Washer	Aluminium
024	Filler cap	Brass	089	Circlip	Carbon steel TC 80
025	Drain cap	Brass	092	Seal ring	-
026	O-ring	NBR [2]	093	Seal ring	-
032	Key	EN 1.4401 (AISI 316)	200	Bolt	8.8 galvanised steel class ISO 898-1
033	Key	C40	235	Washer	Galvanised steel

[1]= EN 1.4301 (AISI 304) for models 3DP4 SERIES 32, 40, 50; EN 1.4401 (AISI 316) for 3DP4 SERIES 65
[2]= FPM for versions H, HS, HW, HSW; EPDM for version E
[3]= 3DP4 SERIES 32-200, 40-200, 50-160, 50-200 only

3D SERIES (4 POLES)

MONOBLOC AND CENTRIFUGAL ELECTRIC PUMPS STANDARDISED IN COMPLIANCE WITH EN 733 (EX DIN 24255)

MECHANICAL SEAL standard version

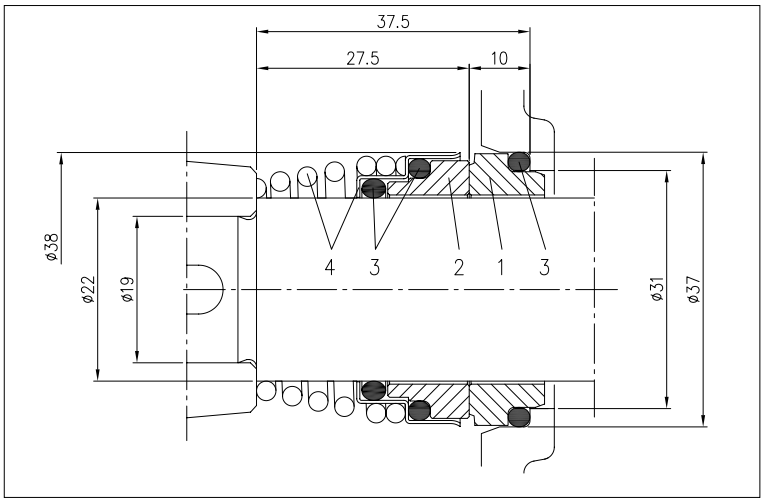


TABLE OF MATERIALS

Ref.	Name	Material
1	Fixed section	Carbon
2	Rotary section	Ceramic
3	Gasket	NBR
4	Frame + spring	EN 1.4401 (AISI 316)

SPECIAL MECHANICAL SEALS (on request)

Ref.	Name	Material				
		Version H	Version HS	Version HW	Version HSW	Version E
1	Fixed section	Carbon	SiC	Tungsten carbide	Tungsten carbide	Carbon
2	Rotary section	Ceramic	SiC	Tungsten carbide	SiC	Ceramic
3	Gasket	FPM	FPM	FPM	FPM	EPDM
4	Frame + spring	EN 1.4401 (AISI 316)	EN 1.4571 (AISI 316Ti)	EN 1.4401 (AISI 316)	EN 1.4401 (AISI 316)	EN 1.4401 (AISI 316)

3D SERIES (4 POLES)

MONOBLOC AND CENTRIFUGAL ELECTRIC PUMPS STANDARDISED IN COMPLIANCE WITH EN 733 (EX DIN 24255)

ELECTRICAL DATA TABLE 3D4 SERIES

4 Poles

Model Three phase 230/400V	P_2 [HP]	P_2 [kW]	Efficiency	Efficiency (%) Three phase η % 50%	75%	100%	P_1 [kW]	Absorbed current [A] Three phase 230V	400V
3D4 32-125/0.25	0.33	0.25	-	-	-	-	0.55	1.9	1.1
3D4 32-160/0.37R	0.5	0.37	-	-	-	-	0.80	2.6	1.5
3D4 32-160/0.37	0.5	0.37	-	-	-	-	0.80	2.6	1.5
3D4 32-200/0.55R	0.75	0.55	-	-	-	-	0.80	2.6	1.5
3D4 32-200/0.55	0.75	0.55	-	-	-	-	0.80	2.6	1.5
3D4 32-200/0.75	1	0.75	IE2	78.4	81.6	81.9	1.41	4.6	2.7
3D4 40-125/0.37R	0.5	0.37	-	-	-	-	0.55	1.9	1.1
3D4 40-125/0.37	0.5	0.37	-	-	-	-	0.55	1.9	1.1
3D4 40-160/0.55R	0.75	0.55	-	-	-	-	0.80	2.6	1.5
3D4 40-160/0.55	0.75	0.55	-	-	-	-	0.80	2.6	1.5
3D4 40-200/1.1R	1.5	1.1	IE2	78.4	81.6	81.9	1.41	4.6	2.7
3D4 40-200/1.1	1.5	1.1	IE2	78.4	81.6	81.9	1.41	4.6	2.7
3D4 40-200/1.5	2	1.5	IE2	80.3	83.4	83.8	1.88	6.2	3.6
3D4 50-125/0.55R	0.75	0.55	-	-	-	-	0.80	2.6	1.5
3D4 50-125/0.55	0.75	0.55	-	-	-	-	0.80	2.6	1.5
3D4 50-160/1.1R	1.5	1.1	IE2	78.4	81.6	81.9	1.41	4.6	2.7
3D4 50-160/1.1	1.5	1.1	IE2	78.4	81.6	81.9	1.41	4.6	2.7
3D4 50-200/1.5R	2	1.5	IE2	80.3	83.4	83.8	1.88	6.2	3.6
3D4 50-200/1.5	2	1.5	IE2	80.3	83.4	83.8	1.88	6.2	3.6
3D4 50-200/2.2	3	2.2	IE2	84.6	86.0	85.6	2.70	8.1	4.7
3D4 65-125/0.55	0.75	0.55	-	-	-	-	0.80	2.6	1.5
3D4 65-125/0.75	1	0.75	IE2	78.4	81.6	81.9	1.41	4.6	2.7
3D4 65-125/1.1	1.5	1.1	IE2	78.4	81.6	81.9	1.41	4.6	2.7
3D4 65-160/1.1	1.5	1.1	IE2	78.4	81.6	81.9	1.41	4.6	2.7
3D4 65-160/1.5	2	1.5	IE2	80.3	83.4	83.8	1.88	6.2	3.6
3D4 65-160/2.2	3	2.2	IE2	84.6	86.0	85.6	2.70	8.1	4.7
3D4 65-200/2.2R	3	2.2	IE2	84.6	86.0	85.6	2.70	8.1	4.7
3D4 65-200/2.2	3	2.2	IE2	84.6	86.0	85.6	2.70	8.1	4.7
3D4 65-200/3	4	3	IE2	81.6	86.1	89.0	3.54	11.8	6.8

3D SERIES (4 POLES)

MONOBLOC AND CENTRIFUGAL ELECTRIC PUMPS STANDARDISED IN COMPLIANCE WITH EN 733 (EX DIN 24255)

ELECTRICAL DATA TABLE 3DS - 3DP SERIES

4 Poles

Model		Size Motors	P_2		Efficiency	Efficiency (%) Three phase η %			P_1	Absorbed current [A] Three phase	
3DS4 SERIES Three phase 230/400V	3DP4 SERIES Three phase 230/400V		[HP]	[kW]		50%	75%	100%	[kW]	230V	400V
3DS4 32-125/0.25	3DP4 32-125/0.25	71	0.33	0.25	-	55.0	59.0	64.0	0.41	1.6	0.9
3DS4 32-160/0.37R	3DP4 32-160/0.37R		0.5	0.37	-	60.0	63.0	67.0	0.56	2.1	1.2
3DS4 32-160/0.37	3DP4 32-160/0.37		0.5	0.37	-	60.0	63.0	67.0	0.56	2.1	1.2
3DS4 32-200/0.55R	3DP4 32-200/0.55R	80	0.75	0.55	-	67.0	69.0	70.0	0.80	2.8	1.6
3DS4 32-200/0.55	3DP4 32-200/0.55		0.75	0.55	-	67.0	69.0	70.0	0.80	2.8	1.6
3DS4 32-200/0.75	3DP4 32-200/0.75		1	0.75	IE2	79.2	80.3	80.2	0.95	3.1	1.8
3DS4 32-200/0.75	3DP4 32-200/0.75				IE3	80.7	81.5	82.5	0.92	3.1	1.8
3DS4 40-125/0.37R	3DP4 40-125/0.37R	71	0.5	0.37	-	60.0	63.0	67.0	0.56	2.1	1.2
3DS4 40-125/0.37	3DP4 40-125/0.37		0.5	0.37	-	60.0	63.0	67.0	0.56	2.1	1.2
3DS4 40-160/0.55R	3DP4 40-160/0.55R	80	0.75	0.55	-	67.0	69.0	70.0	0.80	2.8	1.6
3DS4 40-160/0.55	3DP4 40-160/0.55		0.75	0.55	-	67.0	69.0	70.0	0.80	2.8	1.6
3DS4 40-200/1.1R	3DP4 40-200/1.1R	90L	1.5	1.1	IE2	81.4	82.7	82.5	1.33	4.3	2.5
3DS4 40-200/1.1R	3DP4 40-200/1.1R				IE3	83.3	84.3	84.1	1.30	4.3	2.5
3DS4 40-200/1.1	3DP4 40-200/1.1		1.5	1.1	IE2	81.4	82.7	82.5	1.33	4.3	2.5
3DS4 40-200/1.1	3DP4 40-200/1.1				IE3	83.3	84.3	84.1	1.30	4.3	2.5
3DS4 40-200/1.5	3DP4 40-200/1.5		2	1.5	IE2	82.0	83.5	83.0	1.81	5.9	3.4
3DS4 40-200/1.5	3DP4 40-200/1.5				IE3	84.1	85.2	85.3	1.80	6.2	3.6
3DS4 50-125/0.55R	3DP4 50-125/0.55R	80	0.75	0.55	-	67.0	69.0	70.0	0.80	2.8	1.6
3DS4 50-125/0.55	3DP4 50-125/0.55		0.75	0.55	-	67.0	69.0	70.0	0.80	2.8	1.6
3DS4 50-160/1.1R	3DP4 50-160/1.1R	90L	1.5	1.1	IE2	81.4	82.7	82.5	1.33	4.3	2.5
3DS4 50-160/1.1R	3DP4 50-160/1.1R				IE3	83.3	84.3	84.1	1.30	4.3	2.5
3DS4 50-160/1.1	3DP4 50-160/1.1		1.5	1.1	IE2	81.4	82.7	82.5	1.33	4.3	2.5
3DS4 50-160/1.1	3DP4 50-160/1.1				IE3	83.3	84.3	84.1	1.30	4.3	2.5
3DS4 50-200/1.5R	3DP4 50-200/1.5R		2	1.5	IE2	82.0	83.5	83.0	1.81	5.9	3.4
3DS4 50-200/1.5R	3DP4 50-200/1.5R				IE3	84.1	85.2	85.3	1.80	6.2	3.6
3DS4 50-200/1.5	3DP4 50-200/1.5		2	1.5	IE2	82.0	83.5	83.0	1.81	5.9	3.4
3DS4 50-200/1.5	3DP4 50-200/1.5				IE3	84.1	85.2	85.3	1.80	6.2	3.6
3DS4 50-200/2.2	3DP4 50-200/2.2	100L	3	2.2	IE2	84.0	85.3	85.1	2.61	8.8	5.1
3DS4 50-200/2.2	3DP4 50-200/2.2				IE3	83.2	86.2	86.7	2.58	10.2	5.9
3DS4 65-125/0.55	3DP4 65-125/0.55	80	0.75	0.55	-	67.0	69.0	70.0	0.80	2.8	1.6
3DS4 65-125/0.75	3DP4 65-125/0.75		1	0.75	IE2	79.2	80.3	80.2	0.95	3.1	1.8
3DS4 65-125/0.75	3DP4 65-125/0.75				IE3	80.7	81.5	82.5	0.92	3.1	1.8
3DS4 65-125/1.1	3DP4 65-125/1.1	90L	1.5	1.1	IE2	81.4	82.7	82.5	1.33	4.3	2.5
3DS4 65-125/1.1	3DP4 65-125/1.1				IE3	83.3	84.3	84.1	1.30	4.3	2.5
3DS4 65-160/1.1	3DP4 65-160/1.1		1.5	1.1	IE2	81.4	82.7	82.5	1.33	4.3	2.5
3DS4 65-160/1.1	3DP4 65-160/1.1				IE3	83.3	84.3	84.1	1.30	4.3	2.5
3DS4 65-160/1.5	3DP4 65-160/1.5		2	1.5	IE2	82.0	83.5	83.0	1.81	5.9	3.4
3DS4 65-160/1.5	3DP4 65-160/1.5				IE3	84.1	85.2	85.3	1.80	6.2	3.6
3DS4 65-160/2.2	3DP4 65-160/2.2	100L	3	2.2	IE2	84.0	85.3	85.1	2.61	8.8	5.1
3DS4 65-160/2.2	3DP4 65-160/2.2				IE3	83.2	86.2	86.7	2.58	10.2	5.9
3DS4 65-200/2.2R	3DP4 65-200/2.2R		3	2.2	IE2	84.0	85.3	85.1	2.61	8.8	5.1
3DS4 65-200/2.2R	3DP4 65-200/2.2R				IE3	83.2	86.2	86.7	2.58	10.2	5.9
3DS4 65-200/2.2	3DP4 65-200/2.2		3	2.2	IE2	84.0	85.3	85.1	2.61	8.8	5.1
3DS4 65-200/2.2	3DP4 65-200/2.2				IE3	83.2	86.2	86.7	2.58	10.2	5.9
3DS4 65-200/3	3DP4 65-200/3		4	3	IE2	85.3	86.6	86.4	3.47	11.3	6.5
3DS4 65-200/3	3DP4 65-200/3				IE3	85.1	87.1	87.7	3.44	11.8	6.8

3D SERIES (4 POLES)

MONOBLOC AND CENTRIFUGAL ELECTRIC PUMPS STANDARDISED IN COMPLIANCE WITH EN 733 (EX DIN 24255)

NOISE DATA TABLE 3D4 SERIES — 4 poles

Model	P_2		L_{pA} - dB(A)*
3D4	[HP]	[kW]	
3D4 32-125/0.25	0.33	0.25	
3D4 32-160/0.37R	0.5	0.37	
3D4 32-160/0.37	0.5	0.37	
3D4 32-200/0.55R	0.75	0.55	
3D4 32-200/0.55	0.75	0.55	
3D4 32-200/0.75	1	0.75	
3D4 40-125/0.37R	0.5	0.37	
3D4 40-125/0.37	0.5	0.37	
3D4 40-160/0.55R	0.75	0.55	
3D4 40-160/0.55	0.75	0.55	
3D4 40-200/1.10R	1.5	1.1	
3D4 40-200/1.10	1.5	1.1	
3D4 40-200/1.50	2	1.5	
3D4 50-125/0.55R	0.75	0.55	
3D4 50-125/0.55	0.75	0.55	<70
3D4 50-160/1.10R	1.5	1.1	
3D4 50-160/1.10	1.5	1.1	
3D4 50-200/1.50R	2	1.5	
3D4 50-200/1.50	2	1.5	
3D4 50-200/2.20	3	2.20	
3D4 65-125/0.55	0.75	0.55	
3D4 65-125/0.75	1	0.75	
3D4 65-125/1.10	1.5	1.1	
3D4 65-160/1.10	1.5	1.1	
3D4 65-160/1.50	2	1.5	
3D4 65-160/2.20	3	2.20	
3D4 65-200/2.20R	3	2.20	
3D4 65-200/2.20	3	2.20	
3D4 65-200/3.00	4	3	

* Mean noise level measured at 1 m from the electric pump. Tolerance ± 2.5 dB.

NOISE DATA TABLE 3DS4 SERIES - 3DP4 — 4 poles

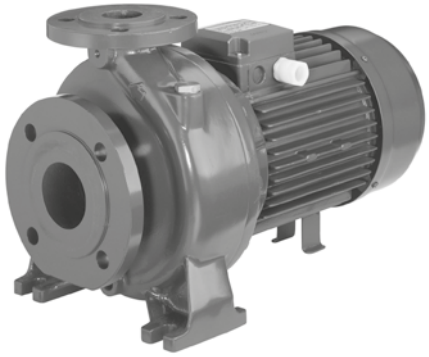
Model		P_2		L_{pA} - dB(A)*
3DS4	3DP4	[HP]	[kW]	
3DS4 32-125/0.25	3DP4 32-125/0.25	0.33	0.25	
3DS4 32-160/0.37R	3DP4 32-160/0.37R	0.5	0.37	
3DS4 32-160/0.37	3DP4 32-160/0.37	0.5	0.37	
3DS4 32-200/0.55R	3DP4 32-200/0.55R	0.75	0.55	
3DS4 32-200/0.55	3DP4 32-200/0.55	0.75	0.55	
3DS4 32-200/0.75	3DP4 32-200/0.75	1	0.75	
3DS4 40-125/0.37R	3DP4 40-125/0.37R	0.5	0.37	
3DS4 40-125/0.37	3DP4 40-125/0.37	0.5	0.37	
3DS4 40-160/0.55R	3DP4 40-160/0.55R	0.75	0.55	
3DS4 40-160/0.55	3DP4 40-160/0.55	0.75	0.55	
3DS4 40-200/1.10R	3DP4 40-200/1.10R	1.5	1.1	
3DS4 40-200/1.10	3DP4 40-200/1.10	1.5	1.1	
3DS4 40-200/1.50	3DP4 40-200/1.50	2	1.5	
3DS4 50-125/0.55R	3DP4 50-125/0.55R	0.75	0.55	
3DS4 50-125/0.55	3DP4 50-125/0.55	0.75	0.55	<70
3DS4 50-160/1.10R	3DP4 50-160/1.10R	1.5	1.1	
3DS4 50-160/1.10	3DP4 50-160/1.10	1.5	1.1	
3DS4 50-200/1.50R	3DP4 50-200/1.50R	2	1.5	
3DS4 50-200/1.50	3DP4 50-200/1.50	2	1.5	
3DS4 50-200/2.20	3DP4 50-200/2.20	3	2.20	
3DS4 65-125/0.55	3DP4 65-125/0.55	0.75	0.55	
3DS4 65-125/0.75	3DP4 65-125/0.75	1	0.75	
3DS4 65-125/1.10	3DP4 65-125/1.10	1.5	1.1	
3DS4 65-160/1.10	3DP4 65-160/1.10	1.5	1.1	
3DS4 65-160/1.50	3DP4 65-160/1.50	2	1.5	
3DS4 65-160/2.20	3DP4 65-160/2.20	3	2.20	
3DS4 65-200/2.20R	3DP4 65-200/2.20R	3	2.20	
3DS4 65-200/2.20	3DP4 65-200/2.20	3	2.20	
3DS4 65-200/3.00	3DP4 65-200/3.00	4	3	

* Mean noise level measured at 1 m from the electric pump. Tolerance ± 2.5 dB.

MMD (4 POLES)

MONOBLOC CENTRIFUGAL PUMPS IN COMPLIANCE WITH EN 733

in cast iron



Monobloc centrifugal electric pumps in compliance with EN 733 in cast iron.

APPLICATIONS

- Handling clean water for civil, agricultural, industrial applications, pressurisation units, heating and air conditioning systems
- Farm irrigation
- Sports facilities
- Washing systems

PUMP TECHNICAL DATA

- Fluid temperature:
  -10°C ÷ +90°C
- Maximum operating pressure: 10 bar
- MEI > 0.4
  For further information, refer to our Data Book on www.ebaraeurope.com

MOTOR TECHNICAL DATA

- High efficiency motors IE2 from 1.1kW up to 5.5kW
  IE3 from 7.5kW up to 22kW
- 4 poles self-ventilating asynchronous motors
- Insulation class F
- Protection rating IP55
- Three phase voltage 230/400V ±10% 50Hz up to and including 4 kW,
  Three phase voltage 400/690V ±10% 50Hz from 5.5 kW and above
- Permanently active condenser and integrated automatic re-arming thermal cutout for the single-phase motor
- Protection must be supplied by the user for the three phase version

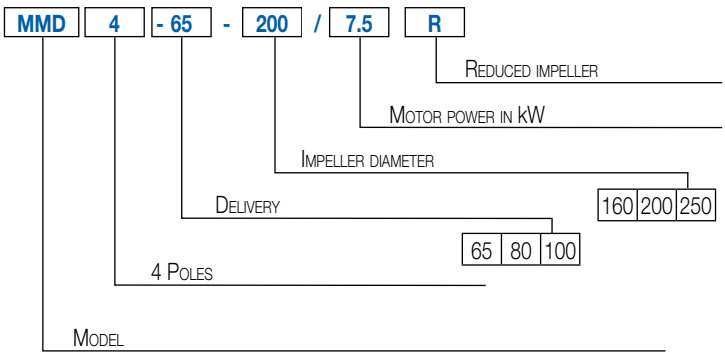
MATERIALS

- Pump body and mount in cast iron
- Shaft made of AISI 420 steel
- Mechanical seal made of SiC/SiC/NBR
- Impeller made of cast iron

ACCESSORIES (on request)

- Galvanised counterflanges

IDENTIFICATION CODE MMD4



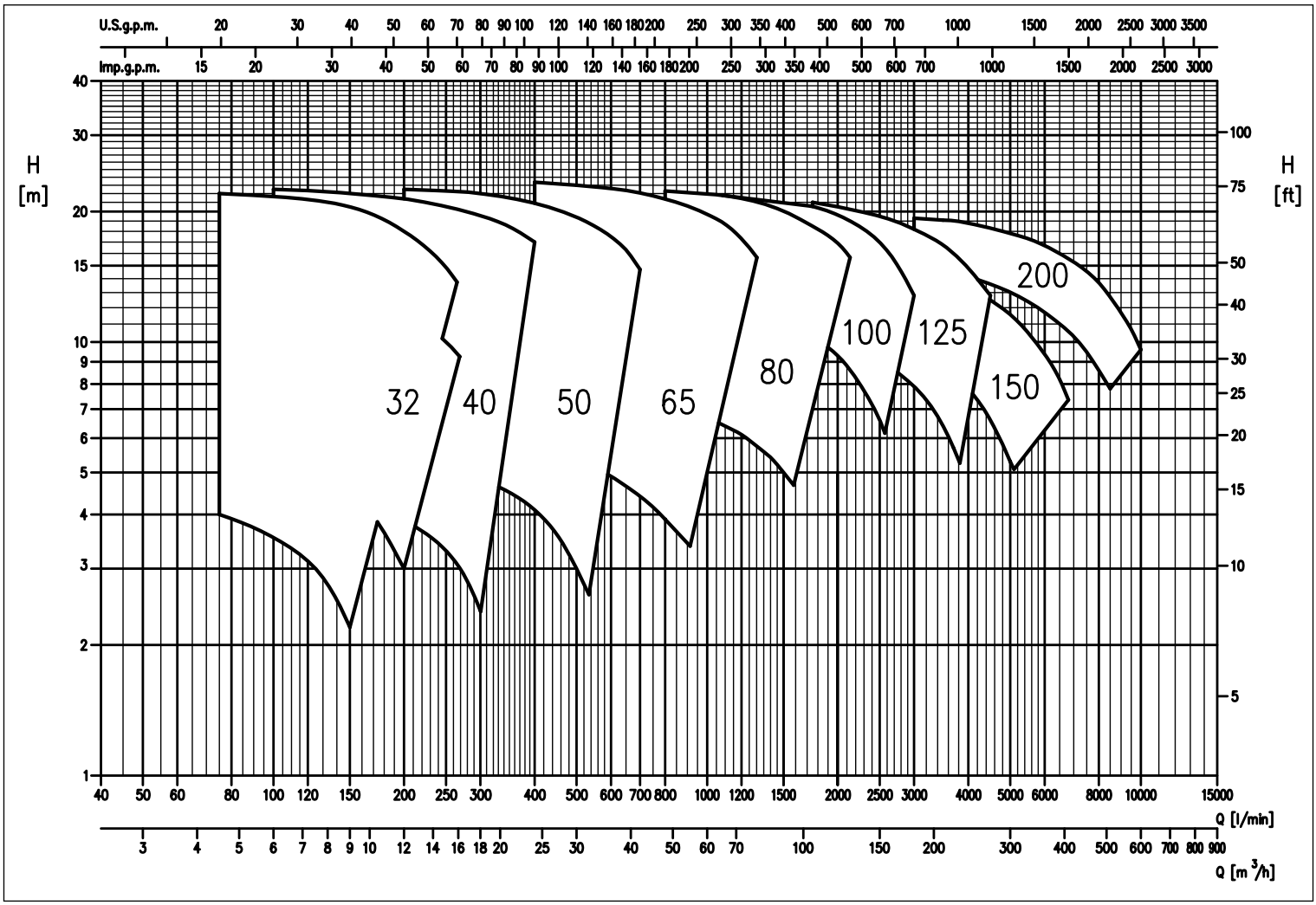
MMD (4 POLES)

MONOBLOC CENTRIFUGAL PUMPS IN COMPLIANCE WITH EN 733

in cast iron

PERFORMANCE RANGE MMD4 (per ISO 9906 Annex A)

4 Poles



PERFORMANCE TABLE MMD4

4 Poles

Model	P2		Q=Flow rate																		
	[HP]	[kW]	l/min	50	75	100	125	150	175	200	225	250	275	300	350	400	450	500	550	600	650	700
			m³/h	3	5	6	8	9	11	12	14	15	17	18	21	24	27	30	33	36	39	42
			H=Head [m]																			
MMD4 32-250/1.1	1.5	1.1	-	18.5	18.0	17.5	17.0	15.9	14.5	12.8	11.0	-	-	-	-	-	-	-	-	-	-	-
MMD4 32-250/1.5	2	1.5	-	22.0	21.6	21.2	20.5	19.4	18.0	16.5	15.0	13.0	-	-	-	-	-	-	-	-	-	-
MMD4 40-250/1.5	2	1.5	-	-	18.3	18.0	17.7	17.4	17.0	16.7	16.2	15.6	15.0	13.7	12.0	-	-	-	-	-	-	-
MMD4 40-250/2.2	3	2.2	-	-	22.5	22.3	22.0	21.7	21.4	21.2	20.5	20.2	19.5	18.5	17.0	-	-	-	-	-	-	-
MMD4 50-250/2.2	3	2.2	-	-	-	-	-	-	18.5	18.3	18.1	17.8	17.5	17.0	16.2	15.5	14.5	13.5	12.5	11.3	10.0	
MMD4 50-250/3	4	3	-	-	-	-	-	-	22.5	22.4	22.3	22.2	22.0	21.5	20.9	20.2	19.4	18.5	17.5	16.3	14.7	

MMD (4 POLES)

MONOBLOC CENTRIFUGAL PUMPS IN COMPLIANCE WITH EN 733

in cast iron

PERFORMANCE TABLE MMD4

4 Poles

Model	P2		Q=Flow rate																				
			l/min	300	350	400	450	500	550	600	650	700	800	900	1000	1100	1200	1300	1400	1500	1750	2000	2250
	[HP]	[kW]	m³/h	18	21	24	27	30	33	36	39	42	48	54	60	66	72	78	84	90	105	120	135
			H=Head [m]																				
MMD4 65-250/4	5.5	4		-	-	-	-	19.5	19.3	19.1	18.8	18.5	17.5	16.5	15.5	14.0	12.5	10.4	-	-	-	-	-
MMD4 65-250/5.5	7.5	5.5		-	-	-	-	23.0	22.8	22.6	22.4	22.2	21.4	20.6	19.7	18.7	17.3	15.7	14.0	-	-	-	-
MMD4 80-160/1.5	2	1.5		-	-	-	-	-	-	7.7	7.6	7.5	7.3	7.0	6.7	6.4	6.1	5.7	5.4	5.0	-	-	-
MMD4 80-160/2.2	3	2.2		-	-	-	-	-	-	9.7	9.6	9.5	9.3	9.0	8.8	8.5	8.2	7.9	7.5	7.1	6.0	-	-
MMD4 80-200/3	4	3		-	-	-	-	-	-	12.0	11.9	11.7	11.5	11.3	11.0	10.5	10.0	9.5	9.0	8.5	7.0	-	-
MMD4 80-200/4	5.5	4		-	-	-	-	-	-	14.4	14.3	14.2	14	13.8	13.5	13.1	12.6	12.2	11.6	11.0	9.0	6.5	-
MMD4 80-250/5.5	7.5	5.5		-	-	-	-	-	-	-	-	-	19.2	18.9	18.5	18.0	17.6	17.1	16.5	16.0	14.0	12.0	-
MMD4 80-250/7.5	10	7.5		-	-	-	-	-	-	-	-	-	22.3	22.1	21.9	21.7	21.3	21.0	20.5	20.0	18.5	16.9	14.5

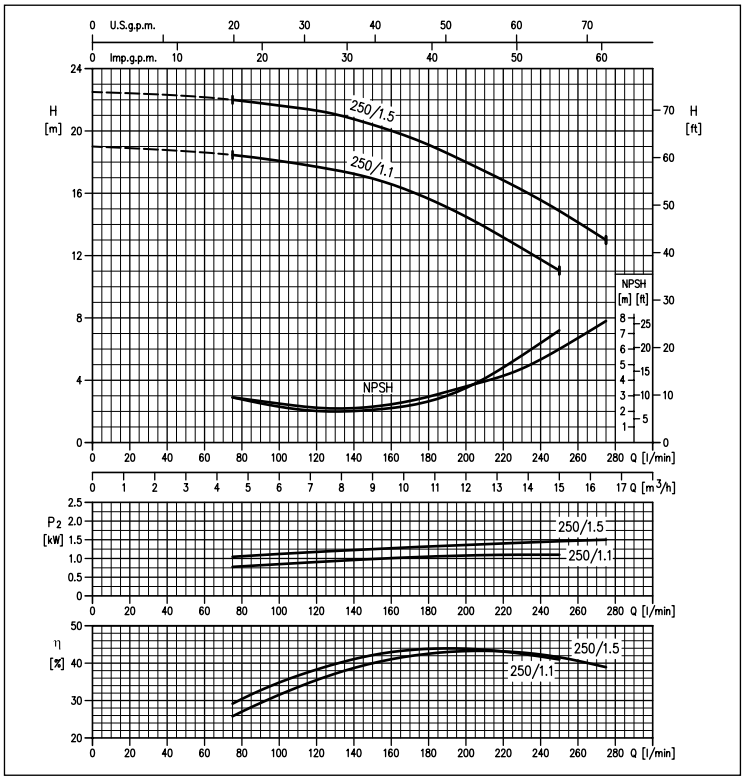
Model	P2		Q=Flow rate																					
			l/min	900	1000	1200	1500	1750	2000	2250	2500	2750	3000	3500	3700	4000	4500	5000	5500	6500	7000	8500	9000	9500	10000
	[HP]	[kW]	m³/h	54	60	72	90	105	120	135	150	165	180	210	222	240	270	300	330	390	420	510	540	570	60
			H=Head [m]																					
MMD4 100-200/4	5.5	4		12.3	12.2	11.8	11.2	10.3	9.3	8.0	6.6	4.8	-	-	-	-	-	-	-	-	-	-	-	-
MMD4 100-200/5.5	7.5	5.5		14.5	14.4	14.0	13.4	12.8	12.0	11.0	9.8	8.5	-	-	-	-	-	-	-	-	-	-	-	-
MMD4 100-250/7.5	10	7.5		-	19.5	19.1	18.5	17.5	16.5	15.2	14.0	12.0	-	-	-	-	-	-	-	-	-	-	-	-
MMD4 100-250/11	15	11		-	22	21.8	21.5	20.5	19.5	18.5	17.0	15.0	12.8	-	-	-	-	-	-	-	-	-	-	-
MMD4 125-200/5.5	7.5	5.5		-	-	-	10.5	10.3	9.9	9.5	9.1	8.5	7.9	6.4	5.7	-	-	-	-	-	-	-	-	-
MMD4 125-200/7.5R	10	7.5		-	-	-	11.8	11.6	11.3	11.0	10.6	10.2	9.6	8.3	7.7	6.7	-	-	-	-	-	-	-	-
MMD4 125-200/7.5	10	7.5		-	-	-	-	12.9	12.7	12.4	12.1	11.7	11.2	10.1	9.6	8.7	7.1	-	-	-	-	-	-	-
MMD4 125-200/11	15	11		-	-	-	-	14.3	14.1	13.8	13.6	13.2	12.8	11.8	11.3	10.6	9.2	7.6	-	-	-	-	-	-
MMD4 125-250/11	15	11		-	-	-	-	17.2	16.7	16.2	15.5	14.8	13.9	12	11.3	10.0	-	-	-	-	-	-	-	-
MMD4 125-250/15	20	15		-	-	-	-	21.0	20.5	20.1	19.5	18.9	18.2	16.6	16.0	14.8	12.8	-	-	-	-	-	-	-
MMD4 150-200/7.5	10	7.5		-	-	-	-	-	11.0	10.7	10.4	10.1	9.7	8.8	8.4	7.8	6.6	5.3	-	-	-	-	-	-
MMD4 150-200/11R	15	11		-	-	-	-	-	12.0	11.8	11.6	11.2	10.9	10.2	9.8	9.2	8.0	6.8	5.6	-	-	-	-	-
MMD4 150-200/11	15	11		-	-	-	-	-	-	-	13.7	13.5	13.2	12.5	12.2	11.7	10.8	9.8	8.7	6.1	-	-	-	-
MMD4 150-200/15	20	15		-	-	-	-	-	-	-	15.2	14.9	14.7	14.2	13.8	13.4	12.5	11.6	10.5	8.2	6.8	-	-	-
MMD4 200-250/18.5R	25	18.5		-	-	-	-	-	-	-	-	-	14.9	14.5	14.3	14.1	13.6	13	12.3	11	10.3	7.8	-	-
MMD4 200-250/18.5	25	18.5		-	-	-	-	-	-	-	-	-	15.9	15.5	15.3	15.2	14.7	14.2	13.6	12.3	11.6	9.1	8.2	-
MMD4 200-250/22R	30	22		-	-	-	-	-	-	-	-	-	-	18.0	17.8	17.6	17.1	16.6	16.0	14.7	13.9	11.2	10.1	9.0
MMD4 200-250/22	30	22		-	-	-	-	-	-	-	-	-	-	19.1	18.9	18.8	18.3	17.8	17.3	16.0	15.3	12.7	11.7	10.7	9.6

MONOBLOC CENTRIFUGAL PUMPS IN COMPLIANCE WITH EN 733

in cast iron

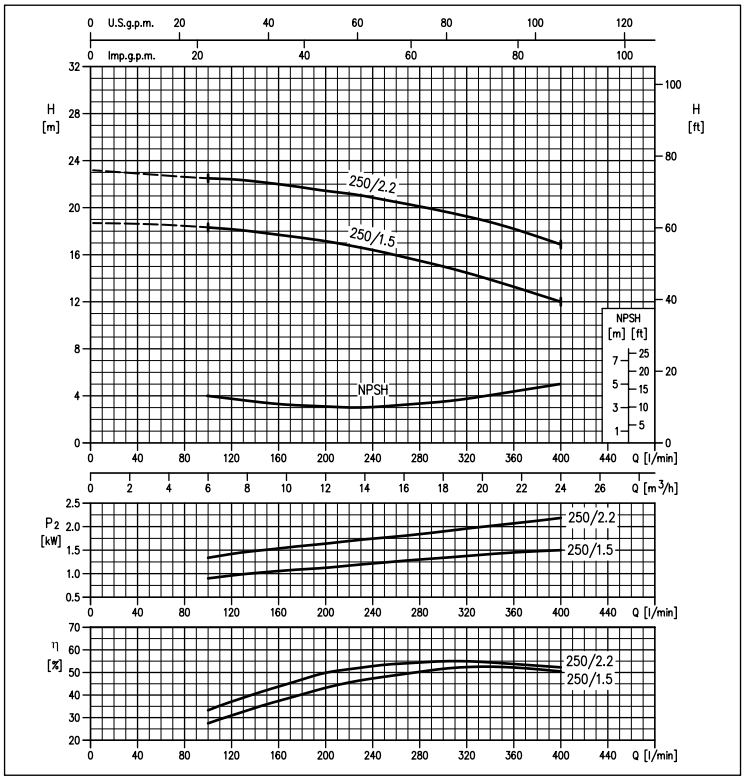
PERFORMANCE CURVES series MMD4 32-250 — 4 Poles

(per ISO 9906 Annex A)



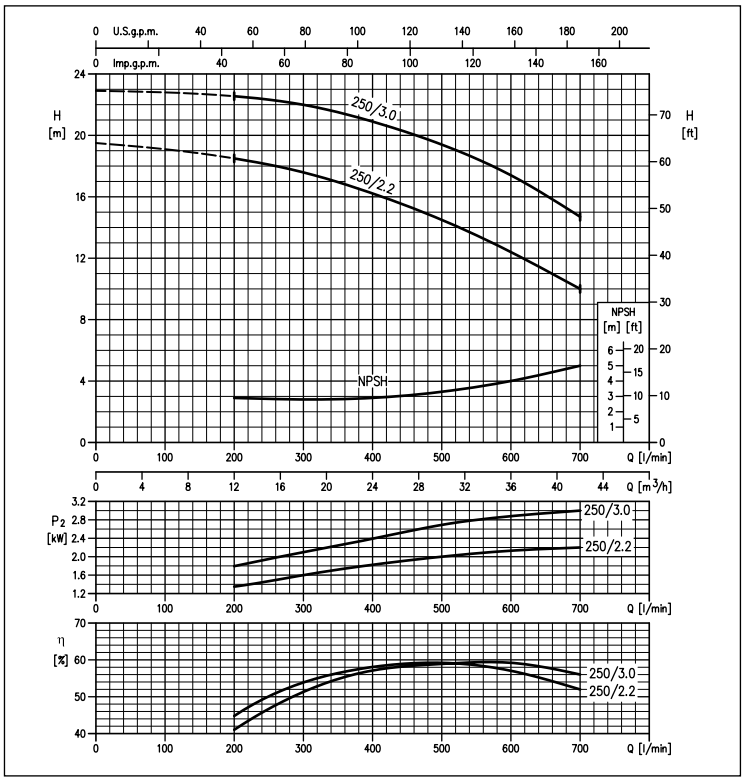
PERFORMANCE CURVES series MMD4 40-250 — 4 Poles

(per ISO 9906 Annex A)



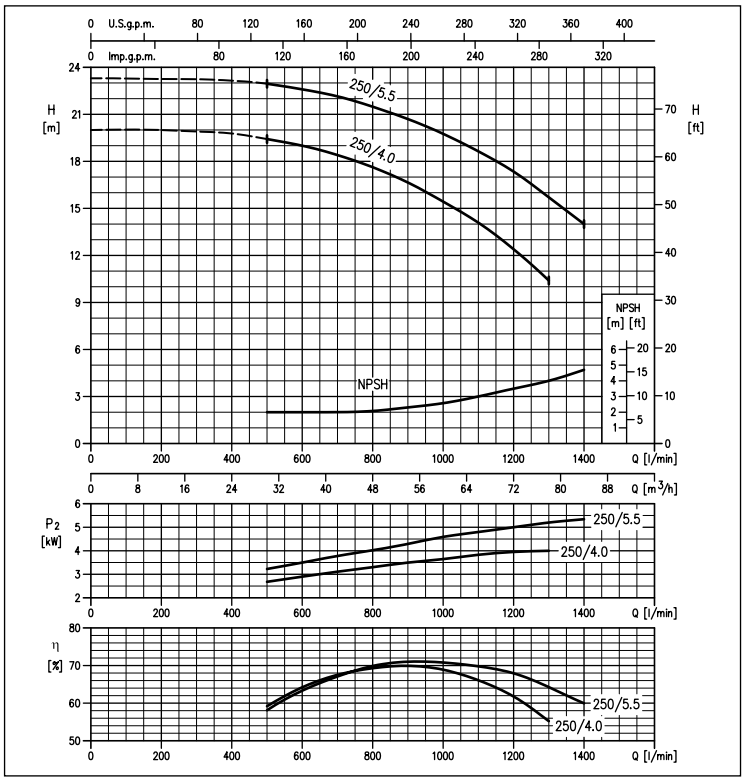
PERFORMANCE CURVES series MMD4 50-250 — 4 Poles

(per ISO 9906 Annex A)



PERFORMANCE CURVES series MMD4 65-250 — 4 Poles

(per ISO 9906 Annex A)

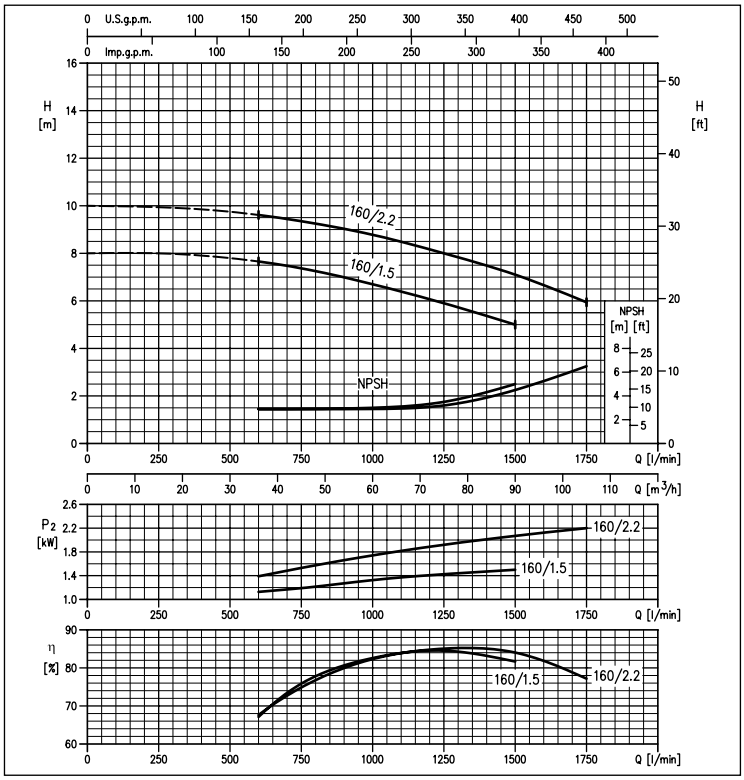


MONOBLOC CENTRIFUGAL PUMPS IN COMPLIANCE WITH EN 733

in cast iron

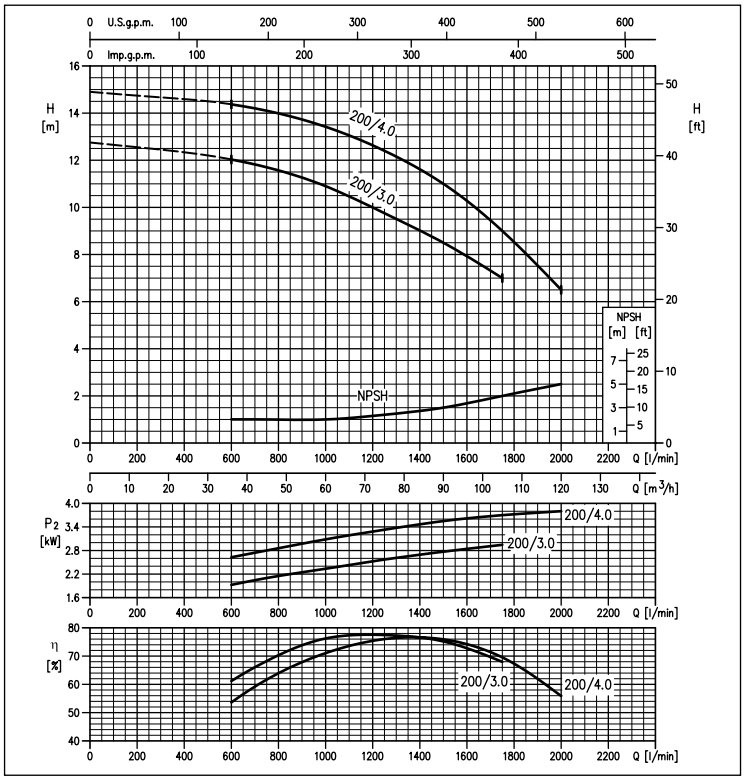
PERFORMANCE CURVES series MMD4 80-160 — 4 Poles

(per ISO 9906 Annex A)



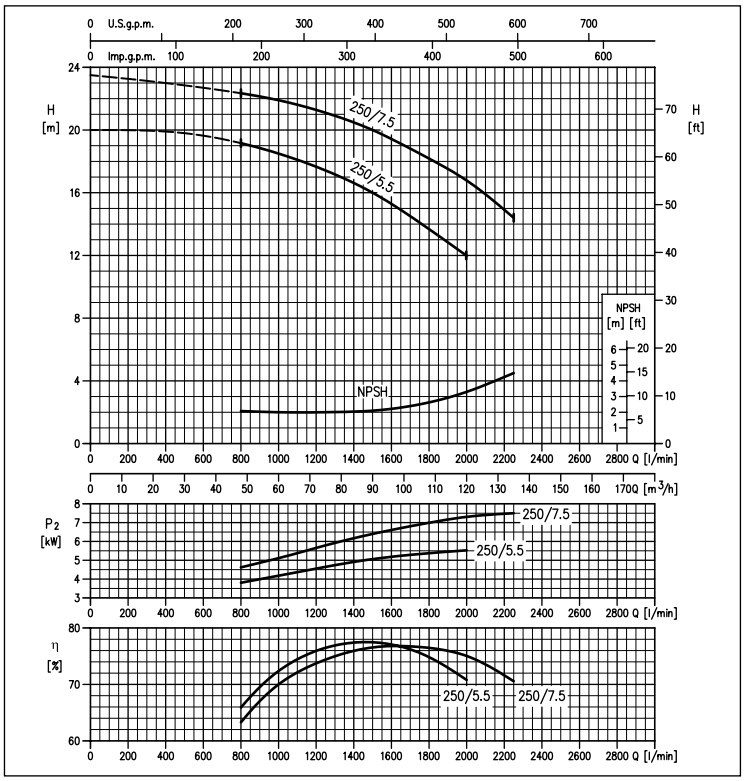
PERFORMANCE CURVES series MMD4 80-200 — 4 Poles

(per ISO 9906 Annex A)



PERFORMANCE CURVES series MMD4 80-250 — 4 Poles

(per ISO 9906 Annex A)



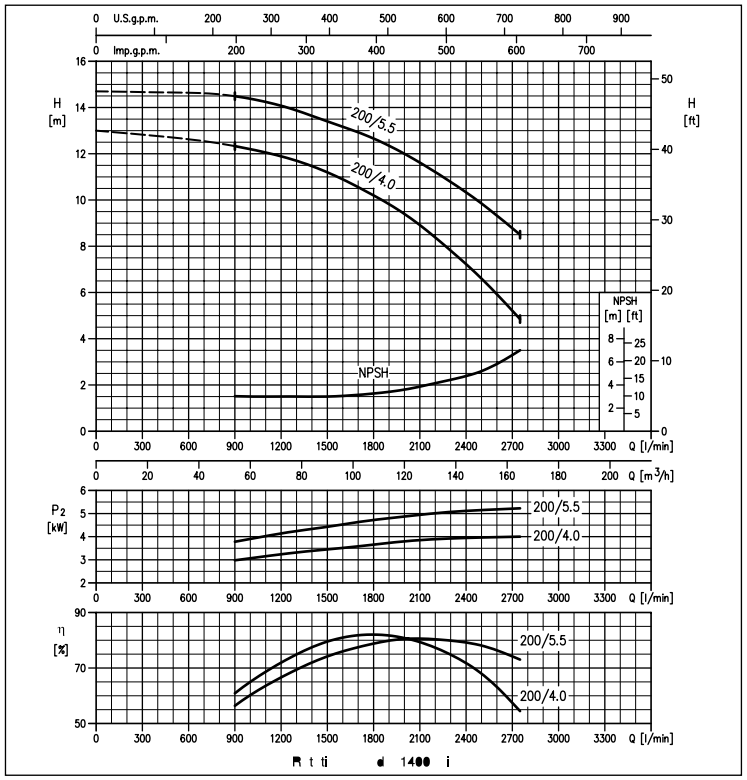
MMD (4 POLES)

MONOBLOC CENTRIFUGAL PUMPS IN COMPLIANCE WITH EN 733

in cast iron

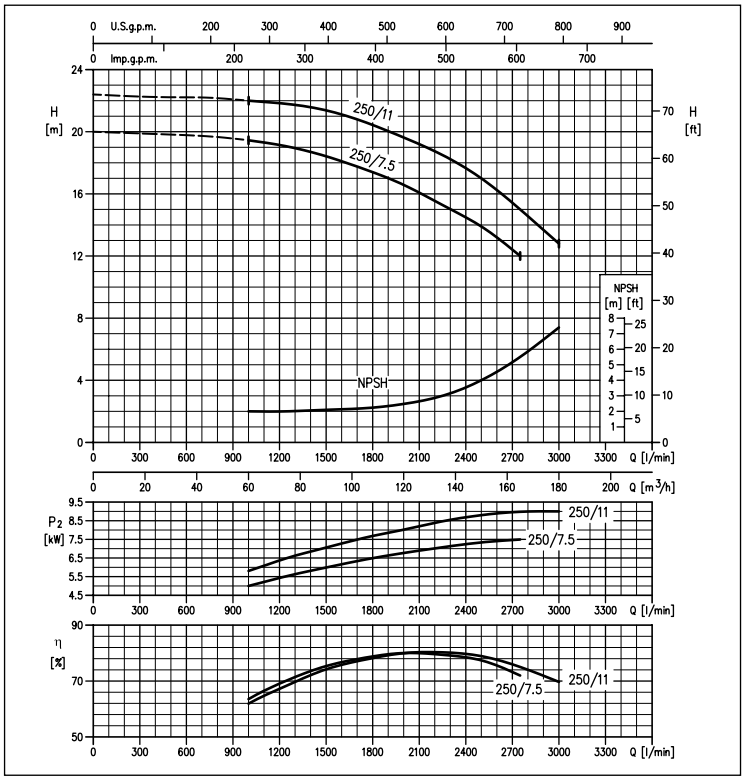
PERFORMANCE CURVES series MMD4 100-200 — 4 Poles

(per ISO 9906 Annex A)



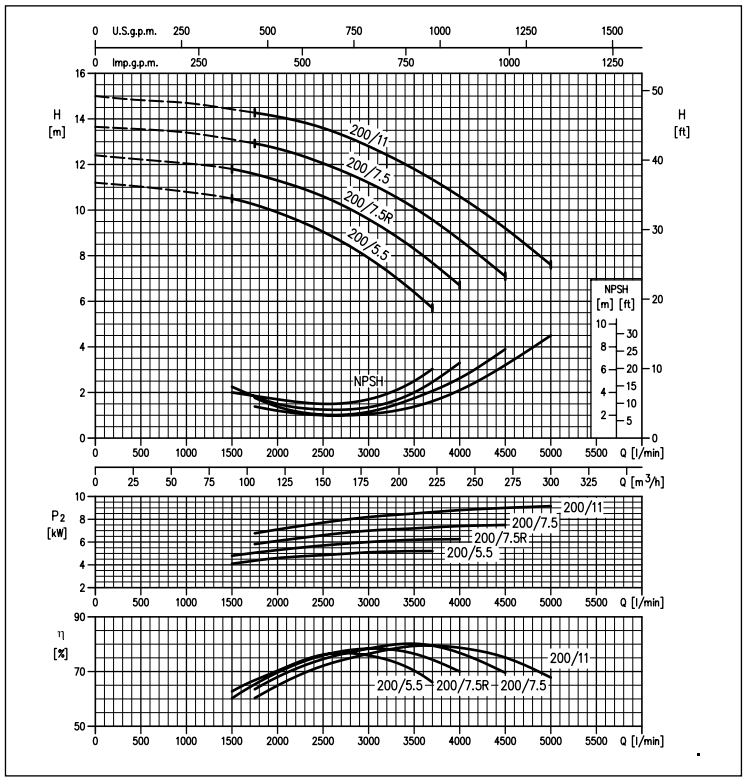
PERFORMANCE CURVES series MMD4 100-250 — 4 Poles

(per ISO 9906 Annex A)



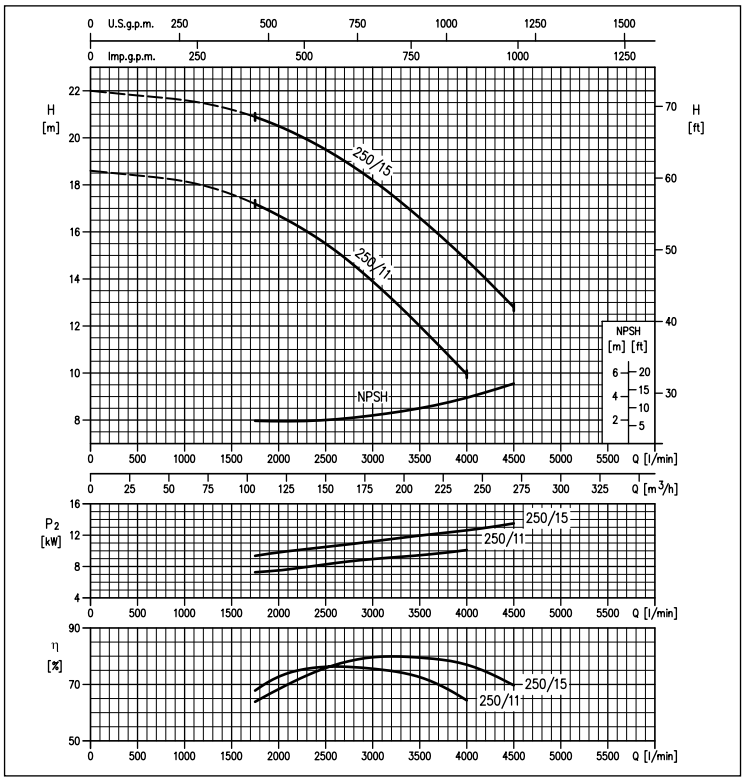
PERFORMANCE CURVES series MMD4 125-200 — 4 Poles

(per ISO 9906 Annex A)



PERFORMANCE CURVES series MMD4 125-250 — 4 Poles

(per ISO 9906 Annex A)

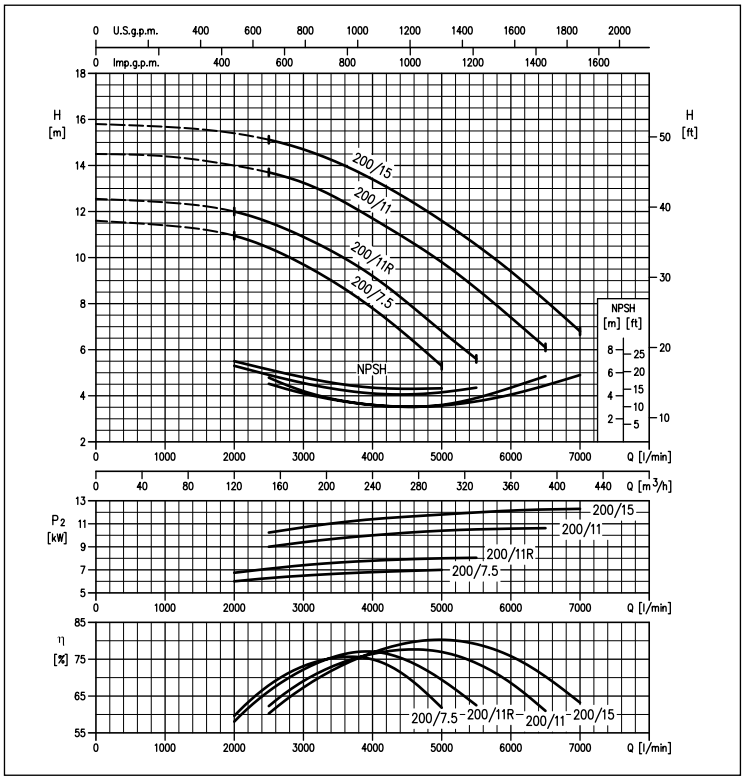


MONOBLOC CENTRIFUGAL PUMPS IN COMPLIANCE WITH EN 733

in cast iron

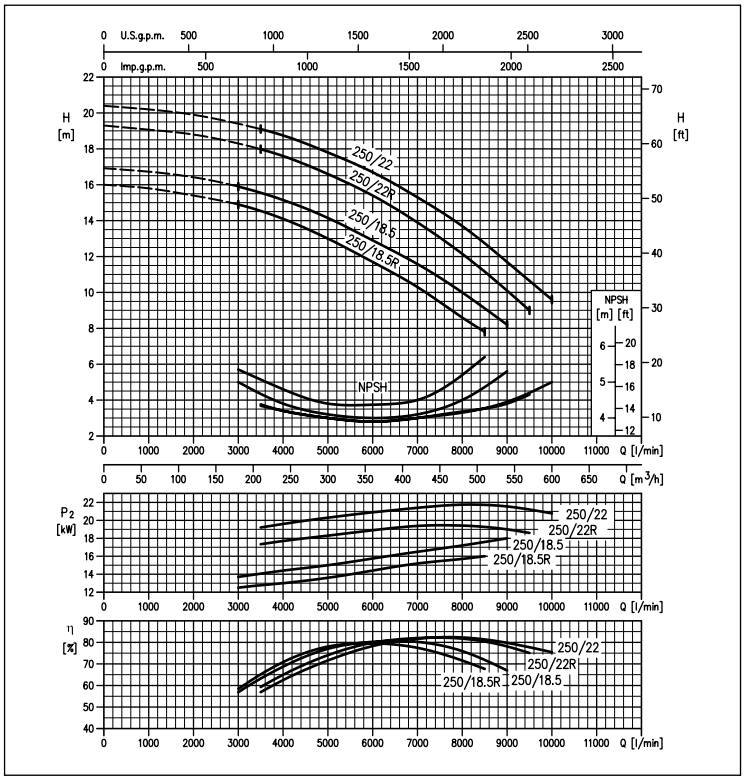
PERFORMANCE CURVES series MMD4 150-200 — 4 Poles

(per ISO 9906 Annex A)



PERFORMANCE CURVES series MMD4 200-250 — 4 Poles

(per ISO 9906 Annex A)



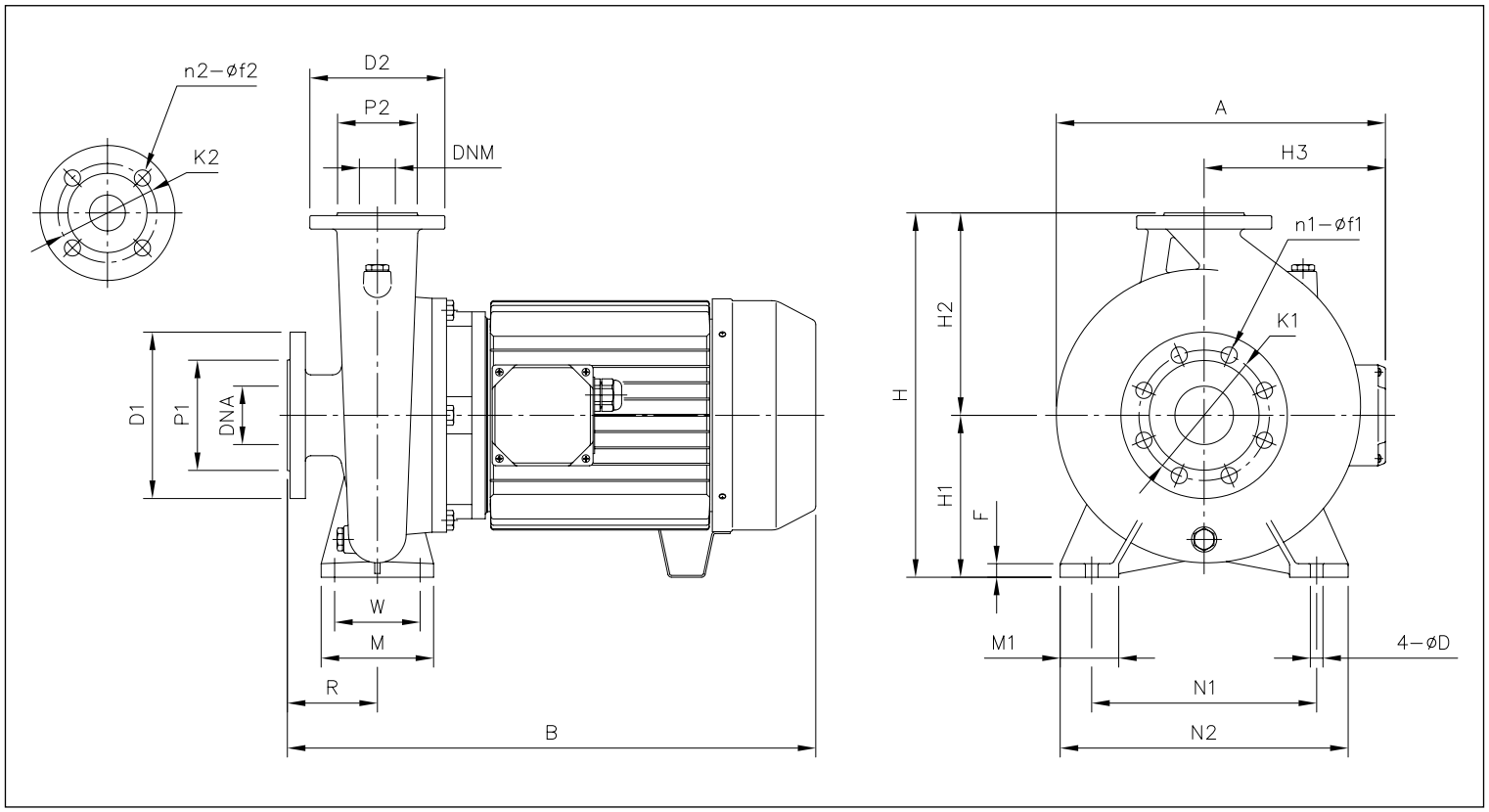
MMD (4 POLES)

MONOBLOC CENTRIFUGAL PUMPS IN COMPLIANCE WITH EN 733

in cast iron

DIMENSIONS MMD4 up to 65

4 Poles



DIMENSIONS CHART

Model	Dimensions [mm]																											Weight [kg]
	DNA	n1	f1	P1	K1	D1	DNM	n2	f2	P2	K2	D2	H	H1	H2	H3	R	W	N1	M	N2	M1	F	A	B	D	
MMD4/E 32-250/1.1	50	4	18	102	125	165	32	4	14	78	100	140	405	180	225	138	100	95	250	125	320	65	12	320	476	14	50
MMD4/E 32-250/1.5	50	4	18	102	125	165	32	4	14	78	100	140	405	180	225	138	100	95	250	125	320	65	12	320	476	14	51
MMD4/E 40-250/1.5	65	4	18	122	145	185	40	4	18	88	110	150	405	180	225	138	100	95	250	125	320	65	12	325	476	14	49
MMD4/E 40-250/2.2	65	4	18	122	145	185	40	4	18	88	110	150	405	180	225	145	100	95	250	125	320	65	12	325	515	14	55
MMD4/E 50-250/2.2	65	4	18	122	145	185	50	4	18	102	125	165	405	180	225	145	100	95	250	125	320	65	14	333	515	14	58
MMD4/E 50-250/3	65	4	18	122	145	185	50	4	18	102	125	165	405	180	225	145	100	95	250	125	320	65	14	333	549	14	65
MMD4/E 65-250/4	80	8	18	138	160	200	65	4	18	122	145	185	450	200	250	160	100	120	280	160	360	80	14	365	549	14	79
MMD4/E 65-250/5.5	80	8	18	138	160	200	65	4	18	122	145	185	450	200	250	194	100	120	280	160	360	80	14	365	606	14	103

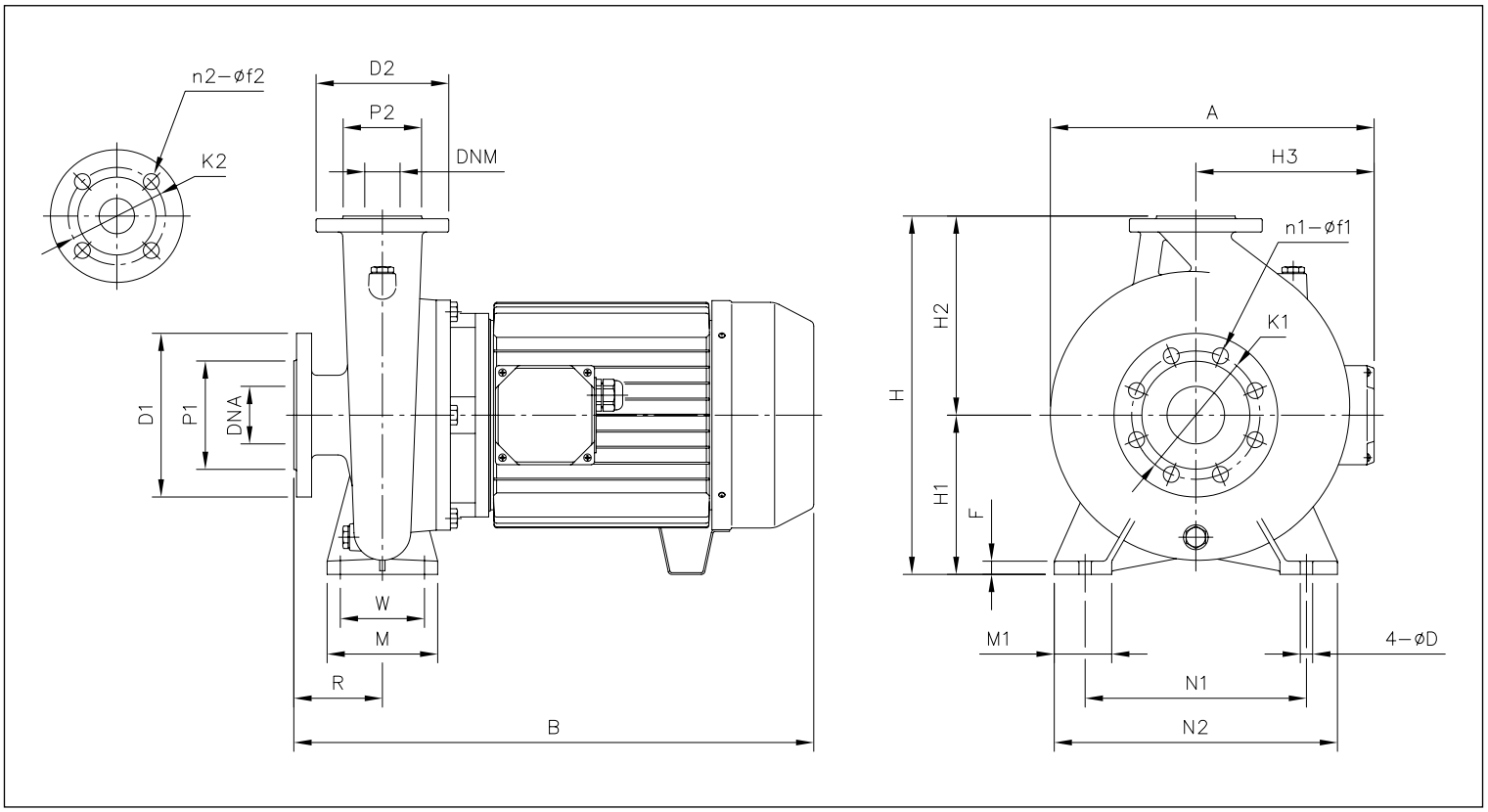
MMD (4 POLES)

MONOBLOC CENTRIFUGAL PUMPS IN COMPLIANCE WITH EN 733

in cast iron

DIMENSIONS MMD4 80 to 200

4 Poles



DIMENSIONS CHART

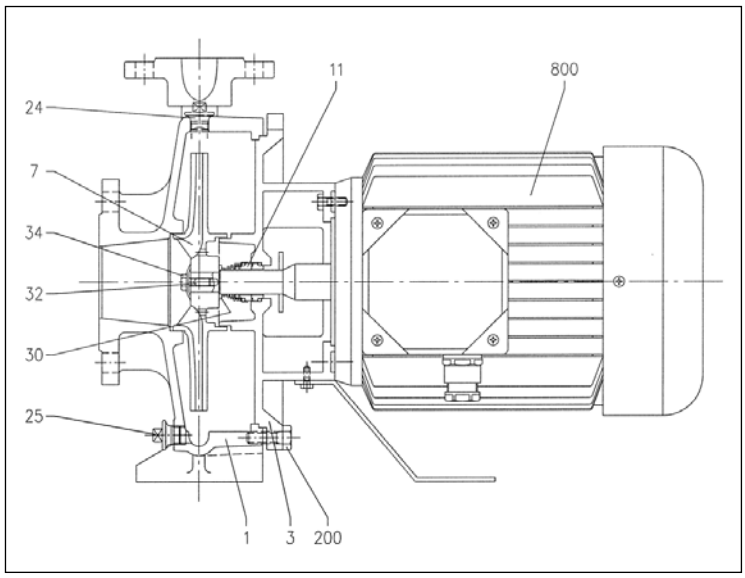
Model	Dimensions [mm]																										Weight
	DNA	n1	f1	P1	K1	D1	DNM	n2	f2	P2	K2	D2	H	H1	H2	H3	R	W	N1	M	N2	M1	F	A	B	D	[kg]
MMD4 80-160/1.5	100	8	18	158	180	220	80	8	18	138	160	200	405	180	225	138	125	95	250	125	320	65	14	330	501	14	46.0
MMD4 80-160/2.2	100	8	18	158	180	220	80	8	18	138	160	200	405	180	225	145	125	95	250	125	320	65	14	330	540	14	52.0
MMD4 80-200/3	100	8	18	158	180	220	80	8	18	138	160	200	430	180	250	145	125	95	280	125	345	65	12	355	586	14	68.0
MMD4 80-200/4	100	8	18	158	180	220	80	8	18	138	160	200	430	180	250	160	125	95	280	125	345	65	12	355	574	14	72.0
MMD4 80-250/5.5	100	8	18	158	180	220	80	8	18	138	160	200	480	200	280	194	125	120	315	160	400	80	14	400	631	18	109.0
MMD4 80-250/7.5	100	8	18	158	180	220	80	8	18	138	160	200	480	200	280	194	125	120	315	160	400	80	14	400	671	18	119.0
MMD4 100-200/4	125	8	18	188	210	250	100	8	18	158	180	220	480	200	280	160	125	120	280	160	360	80	14	385	574	18	77.0
MMD4 100-200/5.5	125	8	18	188	210	250	100	8	18	158	180	220	480	200	280	194	125	120	280	160	360	80	14	385	631	18	103.0
MMD4 100-250/7.5	125	8	18	188	210	250	100	8	18	158	180	220	505	225	280	194	140	120	315	160	400	80	14	420	686	18	125.0
MMD4 100-250/11	125	8	18	188	210	250	100	8	18	158	180	220	505	225	280	238	140	120	315	160	400	80	14	420	779	18	168.0
MMD4 125-200/5.5	150	8	22	212	240	285	125	8	18	188	210	250	565	250	280	194	140	120	315	160	400	80	14	470	657	18	137.0
MMD4 125-200/7.5R	150	8	22	212	240	285	125	8	18	188	210	250	565	250	315	194	140	120	315	160	400	80	14	470	697	18	147.0
MMD4 125-200/7.5	150	8	22	212	240	285	125	8	18	188	210	250	565	250	315	194	140	120	315	160	400	80	14	470	697	18	147.0
MMD4 125-200/11	150	8	22	212	240	285	125	8	18	188	210	250	565	250	315	238	140	120	315	160	400	80	14	470	790	18	190.0
MMD4 125-250/11	150	8	22	212	240	285	125	8	18	188	210	250	605	250	355	238	140	120	315	160	400	80	16	470	790	18	196.0
MMD4 125-250/15	150	8	22	212	240	285	125	8	18	188	210	250	605	250	355	238	140	120	315	160	400	80	16	470	854	18	216.0
MMD4 150-200/7.5	200	12	22	268	295	340	150	8	22	212	240	285	680	280	400	194	160	155	450	200	550	100	22	550	717	24	180.0
MMD4 150-200/11R	200	12	22	268	295	340	150	8	22	212	240	285	680	280	400	238	160	155	450	200	550	100	22	550	810	24	223.0
MMD4 150-200/11	200	12	22	268	295	340	150	8	22	212	240	285	680	280	400	238	160	155	450	200	550	100	22	550	810	24	223.0
MMD4 150-200/15	200	12	22	268	295	340	150	8	22	212	240	285	680	280	400	238	160	155	450	200	550	100	22	550	874	24	229.0
MMD4 200-250/18.5R	250	12	25	320	355	405	200	12	22	268	295	340	765	315	450	238	200	155	450	200	550	100	22	630	962	24	368.0
MMD4 200-250/18.5	250	12	25	320	355	405	200	12	22	268	295	340	765	315	450	238	200	155	450	200	550	100	22	630	962	24	368.0
MMD4 200-250/22R	250	12	25	320	355	405	200	12	22	268	295	340	765	315	450	238	200	155	450	200	550	100	22	630	1002	24	383.0
MMD4 200-250/22	250	12	25	320	355	405	200	12	22	268	295	340	765	315	450	238	200	155	450	200	550	100	22	630	1002	24	383.0

MMD (4 POLES)

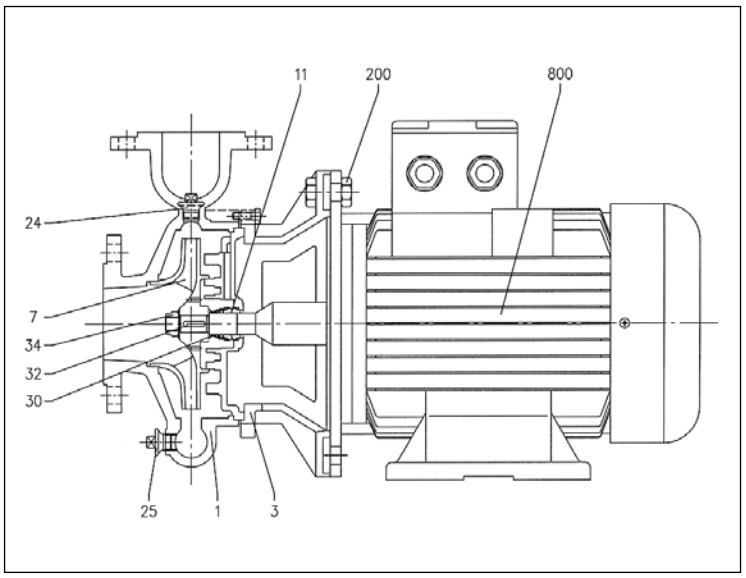
MONOBLOC CENTRIFUGAL PUMPS IN COMPLIANCE WITH EN 733

in cast iron

SECTIONAL VIEW MMD4 up to MEC 132



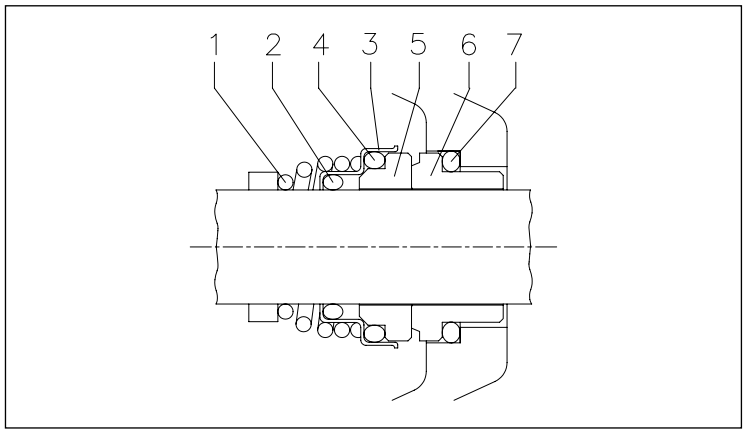
SECTIONAL VIEW MMD4 above MEC 160



MATERIALS TABLE

Ref.	Name	Material	Ref.	Name	Material
1	Pump body	Cast iron EN-GJL-200-EN 1561	30	Spacer	Stainless steel
3	Motor mount	Cast iron EN-GJL-200-EN 1561	32	Key	Stainless steel
7	Impeller	Cast iron EN-GJL-200-EN 1561	34	Impeller nut	Stainless steel
11	Mechanical seal	SiC/SiC/NBR	200	Screw (pump body)	Stainless steel
24	Filler cap	Stainless steel	800	Motor	Aluminium (up to MEC 132) cast iron (above MEC 160)
25	Drain cap	Stainless steel			

MECHANICAL SEAL MMD4



MATERIALS TABLE

Ref.	Name	Material
1	Spring	AISI 316
2	O-ring	NBR
3	Structure/frame	AISI 316
4	O-ring	NBR
5	Rotary section	SiC
6	Fixed section	SiC
7	O-ring	NBR

MMD (4 POLES)

MONOBLOC CENTRIFUGAL PUMPS IN COMPLIANCE WITH EN 733

in cast iron

ELECTRICAL DATA TABLE MMD4

4 Poles

Model Three phase	P2		Efficiency	Efficiency (%) Three phase η %			P1	Absorbed current [A] Three phase		
	[HP]	[kW]	Three phase	50%	75%	100%	Three phase [kW]	230V	400V	690V
MMD4 32-250/1.1	1.5	1.1	IE2	81.4	82.7	82.5	1.33	4.3	2.5	-
MMD4 32-250/1.5	2	1.5	IE2	81.0	83.5	83.0	1.81	5.9	3.4	-
MMD4 40-250/1.5	2	1.5	IE2	81.0	83.5	83.0	1.81	5.9	3.4	-
MMD4 40-250/2.2	3	2.2	IE2	84.0	85.3	85.1	2.61	8.9	5.1	-
MMD4 50-250/2.2	3	2.2	IE2	84.0	85.3	85.1	2.61	8.9	5.1	-
MMD4 50-250/3	4	3	IE2	82.6	84.7	86.4	3.47	11.3	6.5	-
MMD4 65-250/4	5.5	4	IE2	86.0	87.3	87.1	4.59	14.8	8.5	-
MMD4 65-250/5.5	7.5	5.5	IE2	87.5	88.3	88.1	6.16	-	11.4	6.6
MMD4 80-160/1.5	2	1.5	IE2	81.0	83.5	83.0	1.81	5.9	3.4	-
MMD4 80-160/2.2	3	2.2	IE2	84.0	85.3	85.1	2.61	8.9	5.1	-
MMD4 80-200/3	4	3	IE2	82.6	84.7	86.4	3.47	11.3	6.5	-
MMD4 80-200/4	5.5	4	IE2	86.0	87.3	87.1	4.59	14.8	8.5	-
MMD4 80-250/5.5	7.5	5.5	IE2	87.5	88.3	88.1	6.16	-	11.4	6.6
MMD4 80-250/7.5	10	7.5	IE3	88.5	89.4	89.2	8.41	-	16.4	9.5
MMD4 100-200/4	5.5	4	IE2	86.0	87.3	87.1	4.59	14.8	8.5	-
MMD4 100-200/5.5	7.5	5.5	IE2	87.5	88.3	88.1	6.16	-	11.4	6.6
MMD4 100-250/7.5	10	7.5	IE3	88.5	89.4	89.2	8.41	-	16.4	9.5
MMD4 100-250/11	15	11	IE3	89.4	90.3	90.1	12.49	-	22.0	12.7
MMD4 125-200/5.5	7.5	5.5	IE2	87.5	88.3	88.1	6.16	-	11.4	6.6
MMD4 125-200/7.5R	10	7.5	IE3	88.5	89.4	89.2	8.41	-	16.4	9.5
MMD4 125-200/7.5	10	7.5	IE3	88.5	89.4	89.2	8.41	-	16.4	9.5
MMD4 125-200/11R	15	11	IE3	89.4	90.3	90.1	12.49	-	22.0	12.7
MMD4 125-250/11	15	11	IE3	89.4	90.3	90.1	12.49	-	22.0	12.7
MMD4 125-250/15	20	15	IE3	90.6	91.2	91.0	16.87	-	29.0	16.7
MMD4 150-200/7.5	10	7.5	IE3	88.5	89.4	89.2	8.41	-	16.4	9.5
MMD4 150-200/11R	15	11	IE3	89.4	90.3	90.1	12.49	-	22.0	12.7
MMD4 150-200/11	15	11	IE3	89.4	90.3	90.1	12.49	-	22.0	12.7
MMD4 150-200/15	20	15	IE3	90.6	91.2	91.0	16.87	-	29.0	16.7
MMD4 200-250/18.5R	22	18.5	IE3	90.7	92.6	92.6	19.96	-	34.3	19.8
MMD4 200-250/18.5	22	18.5	IE3	90.7	92.6	92.6	19.96	-	34.3	19.8
MMD4 200-250/22R	30	22	IE3	91.1	93.0	93.0	23.67	-	40.2	23.2
MMD4 200-250/22	30	22	IE3	91.1	93.0	93.0	23.67	-	40.2	23.2

MMD (4 POLES)

MONOBLOC CENTRIFUGAL PUMPS IN COMPLIANCE WITH EN 733

in cast iron

NOISE DATA TABLE MMD4 — 4 Poles

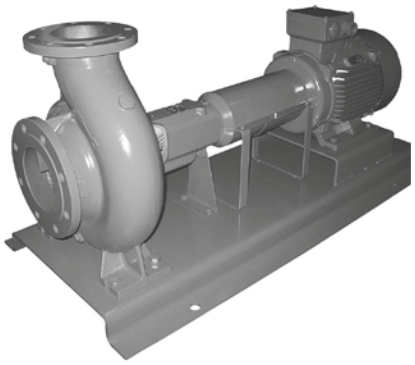
Model Three phase	P_2 [HP]	P_2 [kW]	L_{pA} - dB(A)*
MMD4 32-250/1.1	1.5	1.1	<70
MMD4 32-250/1.5	2	1.5	
MMD4 40-250/1.5	2	1.5	
MMD4 40-250/2.2	3	2.2	
MMD4 50-250/2.2	3	2.2	
MMD4 50-250/3.0	4	3	72
MMD4 65-250/4.0	5.5	4	78
MMD4 65-250/5.5	7.5	5.5	
MMD4 80-160/1.5	2	1.5	<70
MMD4 80-160/2.2	3	2.2	
MMD4 80-200/3	4	3	72
MMD4 80-200/4	5.5	4	78
MMD4 80-250/5.5	7.5	5.5	
MMD4 80-250/7.5	10	7.5	80
MMD4 100-200/4	5.5	4	78
MMD4 100-200/5.5	7.5	5.5	
MMD4 100-250/7.5	10	7.5	80
MMD4 100-250/11	15	11	
MMD4 125-200/5.5	7.5	5.5	78
MMD4 125-200/7.5R	10	7.5	80
MMD4 125-200/7.5	10	7.5	
MMD4 125-200/11R	15	11	
MMD4 125-250/11	15	11	
MMD4 125-250/15	20	15	
MMD4 150-200/7.5	10	7.5	
MMD4 150-200/11R	15	11	
MMD4 150-200/11	15	11	
MMD4 150-200/15	20	15	
MMD4 200-250/18.5R	22	18.5	81
MMD4 200-250/18.5	22	18.5	
MMD4 200-250/22R	30	22	
MMD4 200-250/22	30	22	

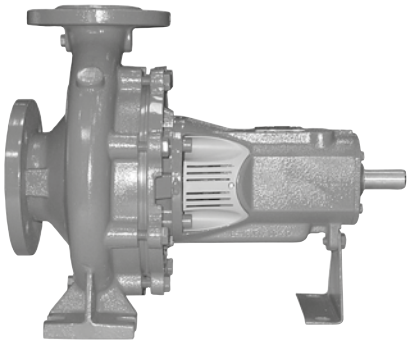
* Mean noise level measured at 1 m from the electric pump.
Tolerance ± 2.5 dB.

ENR

MONOBLOC CENTRIFUGAL PUMPS AND ELECTRIC PUMPS PER EN 733

in cast iron





Normalised centrifugal pumps and electric pumps derived from EN 733 (ex DIN 24255).

APPLICATIONS

- Water supply in civil, agricultural and industrial installations
- Pressurisation
- Fire, heating and air conditioning systems
- Industrial fluid handling
- Purification plant, aqueducts and irrigation

TECHNICAL FEATURES

- Robust construction
- Suited for use in fire equipment
- Suited for use in complex industrial machinery

PUMP TECHNICAL DATA

- Maximum operating pressure: 14.7 bar
- Fluid temperature: -20°C ÷ 120°C
- Suction and delivery: flanged DIN 2532 (standard)
- MEI > 0.4

MOTOR TECHNICAL DATA

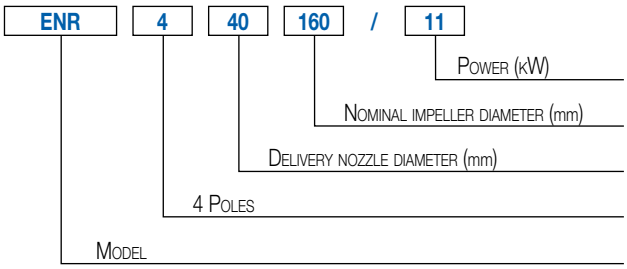
- High efficiency motors IE2 for power ratings 0.75kW to 5.5kW
  IE3 for power ratings above 0.75kW
- 2 and 4 poles self-ventilating asynchronous motors
- Insulation class F
- Protection rating IP 55
- Three phase voltage 400/690V ±10%, 50Hz

MATERIALS

- Cast (or bronze) impeller
- Pump body made of cast iron
- Shaft made of AISI 420 stainless steel
- Mechanical seal made of SiC/Carbon/EPDM

- **For further information, refer to our Data Book on www.ebaraeurope.com**
- **For further information, quotes and availability information, contact our sales network**

IDENTIFICATION CODE



ENR

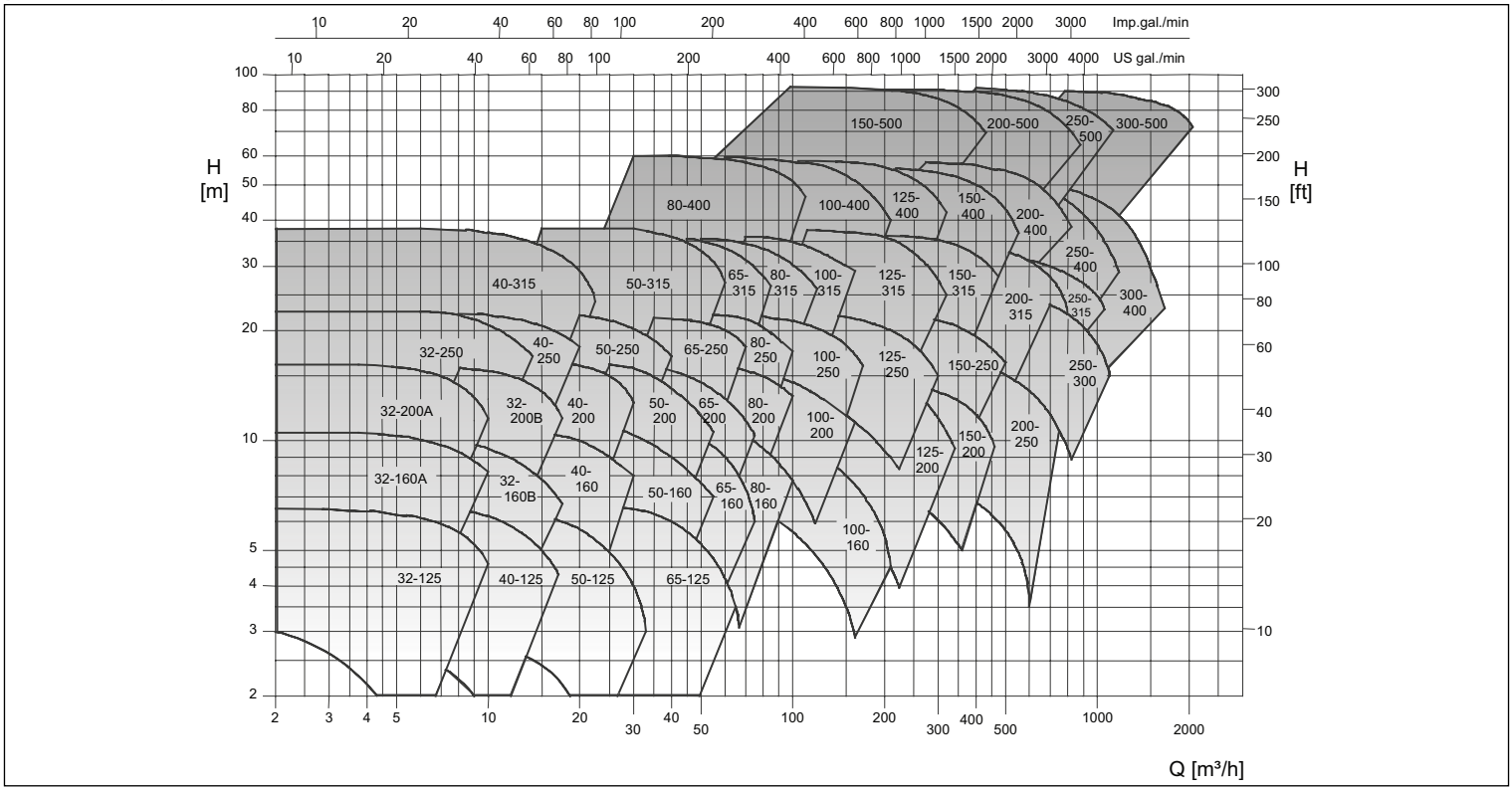
MONOBLOC CENTRIFUGAL PUMPS AND ELECTRIC PUMPS PER EN 733

in cast iron

PERFORMANCE CURVES series ENR

4 Poles

(per ISO 9906 Annex A)



Ego RANGE

HIGH EFFICIENCY ELECTRONIC CIRCULATORS

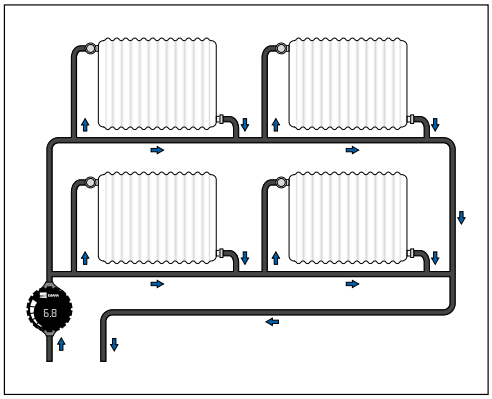
in cast iron with cataphoretic coating

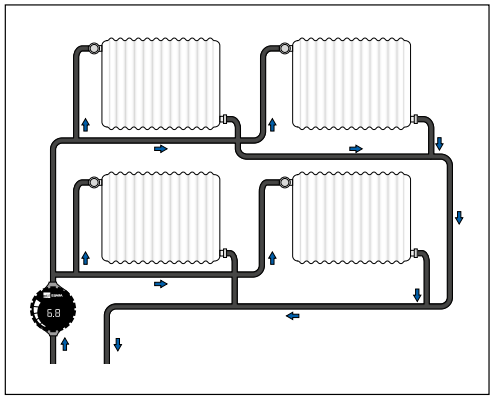
GENERAL CHARACTERISTICS

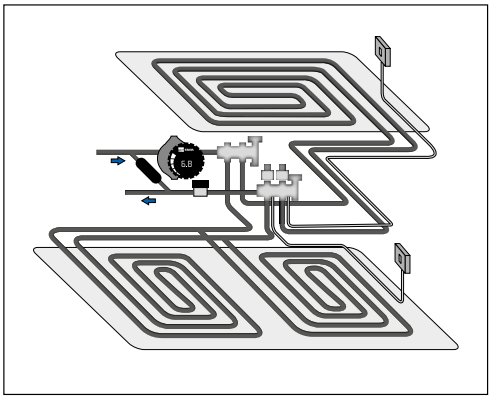
"*Ego*" is a range of advanced electronic circulators, fully conforming with European Directive ErP 2009/125/EC. All *Ego* circulators are equipped with the **ECM technology (electronic switching motor with permanent magnet rotor)**, for automatic continuous performance control (flow/head) in relation to demand, thus giving significant power savings.

APPLICATIONS

Ego circulators are designed specifically for heating systems and for circulating fluid in air conditioning installations.







Heating systems

The pumps are suited to use in one-pipe and two-pipe systems, floor heating systems and mixing loops in large installations. All *Ego* circulators control the differential pressure independently and automatically, and can thus adjust pump performance to match the heating demand.

Air conditioning systems

For the use of *Ego* pumps in air conditioning systems, refer to the minimum admitted temperature for each product family. Some models are suited to circulating fluids at temperatures below 0°C (and are thus particularly suited to use in air conditioning and cooling solutions).

CONSTRUCTION

All *Ego* pumps are of the wet rotor type, in which the pump and motor form a single unit with mechanical seal; the rotor bearings are lubricated by the pumped fluid. One of the strong points of *Ego* circulators is the **rotor jacket**, made **in a single piece in AISI 316 stainless steel, without welds**: this solution, characteristic of all *Ego* models, ensure a stable, reliable and hermetically sealed separation of the stator from the parts in contact with the fluid.

All *Ego* models also have the following features:

- Corrosion resistant impeller
- Pump body in cast iron with cataphoretic surface treatment
- Very low friction bearings, or low noise and reduced power dissipation

For details on the materials, refer to the technical data sheets for each model.

Ego Range

HIGH EFFICIENCY ELECTRONIC CIRCULATORS

in cast iron with cataphoretic coating

PUMPED FLUIDS

Ego circulators are suited for pumping:

- clear, clean, non-aggressive and non-explosive fluids, with no solid particles or fibres (per VDI 2035)
- water/glycol mixes

Fluid viscosity

In selecting the pump for your application, fluid viscosity is a prime concern, as it affects (and can reduce) the maximum performance of the pump. In particular, **for water/glycol mixes at a concentration in excess of 20%, you should carefully check the resulting viscosity,** which is critical to selecting the best circulator for the application (please contact our technical assistance office for further details).

The hydraulic performance ratings and all technical data given in this catalogue assume a fluid with viscosity of 1mm^2/s at 18°C.

Fluid and ambient temperatures

Admitted fluid temperature range:

- *Ego* small size (models E*go* -/40, -/60, -/80): +5 to +95°C
- *Ego* medium size (models E*go* easy –60, -80, -100): +2 to +110°C
- *Ego* large size (models E*go* slim, E*go*, E*go* H): -10 to +110°C
- *Ego B* for domestic water systems: +5 to +65°C

The admitted ambient temperature is 0 to 40°C, with relative humidity of the air below 95%. If used with low temperature fluids, the ambient temperature should always be lower than the fluid temperature, to prevent condensation forming on the stator casing.

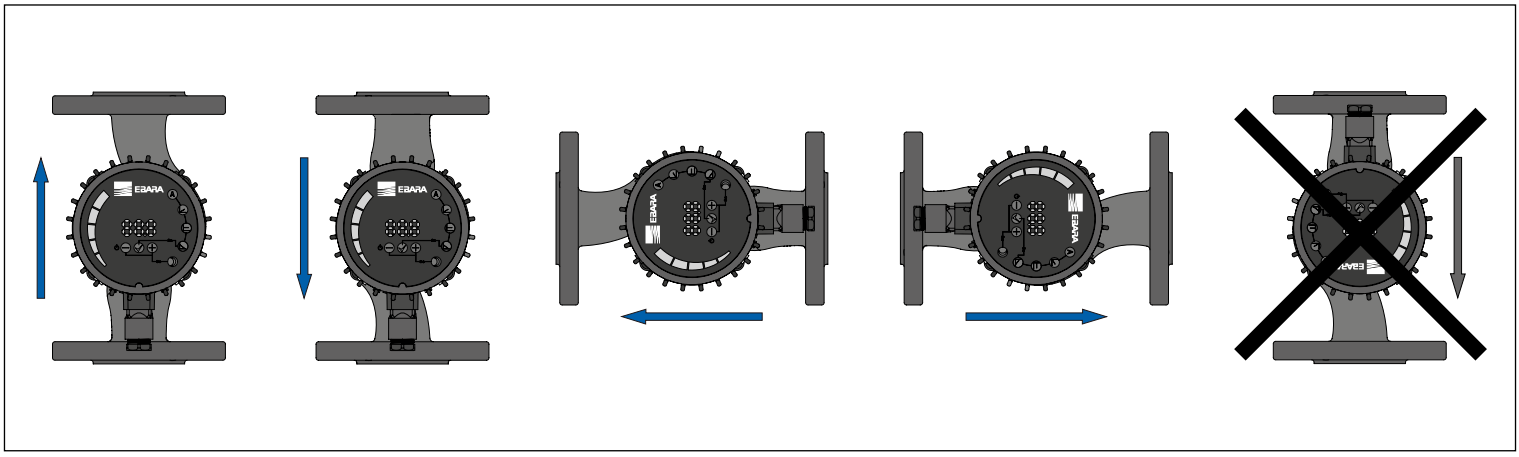
Intake pressure

To prevent noise, cavitation and damage to the pump bearings, a certain minimum pressure must be maintained at the suction port (refer to the manuals of the individual models for details on the minimum pressure in relation to fluid temperature).

Maximum operating pressure

The maximum operating pressure for all ***Ego* models is 1 MPa (10 bar) – PN10.**

MOUNTING POSITIONS



All *Ego* circulators must be installed with the **motor shaft perfectly horizontal**, as shown in the figure above (applies to all models). **The power cord must never be routed upwards** (this promotes ingress of water into the terminal block housing): if necessary, rotate the electronics or pump body accordingly (see the manual).

HIGH EFFICIENCY ELECTRONIC CIRCULATORS

in cast iron with cataphoretic coating

ELECTRICAL CHARACTERISTICS AND ADJUSTMENTS

All *Ego* models are equipped with synchronous motors with permanent magnet rotors and integrated frequency converters (ECM technology); **the control logic measures the current draw and calculates the instantaneous pressure and flow, to permit continuous regulation of the hydraulic performance.** If the flow demand reduces (typically when the circuit valves are closed), the frequency converter automatically reduces the speed of the pump and hence its power draw, with variations of as much as 1/5 of its maximum power.

This technology ensures:

- **Continuous adaptation of performance to actual demand**
- **High efficiency**
- **High starting torque (which means automatic unblocking even after long periods of disuse)**
- **Integrated motor protection**

Power supply

For all *Ego* models, the power supply is rated **1~230V - 50/60 Hz**

Control modes

The integrated control logic offers a variety of control modes depending on need, as follows:

- **Automatic regulation**
- **ΔP-v Proportional pressure**
- **ΔP-c Constant pressure**
- **Constant speed**
- **Current limited control**
- **Power limited control**

(Refer to the data sheets for the individual models for which control modes are available).

HIGH EFFICIENCY ELECTRONIC CIRCULATORS

in cast iron with cataphoretic coating

CONNECTIONS AND REMOTE CONTROL

Depending on the model, the following supplementary connections are available:

a) external analogue control (0-10V contact)

The external 0-10V contact can be used in a variety of ways:

- in constant speed control mode, the 0-10V contact enables you to switch from one constant curve to another, depending on the value of the input signal.
- in proportional pressure control mode, the 0-10V contact enables you to switch from one variable pressure curve to another, depending on the value of the input signal.

With the signal value at less than 1V, the circulator goes into standby.

b) PC control (Ethernet connection)

Some E*go* models can be programmed and controlled entirely by PC, using an Ethernet connection. There are 2 modes of connection:

- **Direct** circulator – PC **connection** (using a cross-over cable) - **Fig. 1**
- **Networked connection** using a router (with a patch cable) - **Fig. 2**

1.

DIRECT CONNECTION

2.

NETWORKED CONNECTION

Once the Ethernet connection has been hooked up, you can access the circulator with any internet browser (Chrome, Internet Explorer, Firefox, etc.) by entering the pump's IP address, given in the manual. Once it has interfaced with the PC, you can completely program the circulator, its digital inputs, relays, and so on, and also view its instantaneous performance parameters, consumption and errors.

c) Remote control via Modbus

Some models are equipped with an RS-485 connection for the **Modbus RTU protocol.**

d) Digital inputs and output relays

Some models have digital inputs and output relays for:

- Remote activation and control
- Tandem operation
- Standby, operation, error etc. signals

HIGH EFFICIENCY ELECTRONIC CIRCULATORS

in cast iron with cataphoretic coating

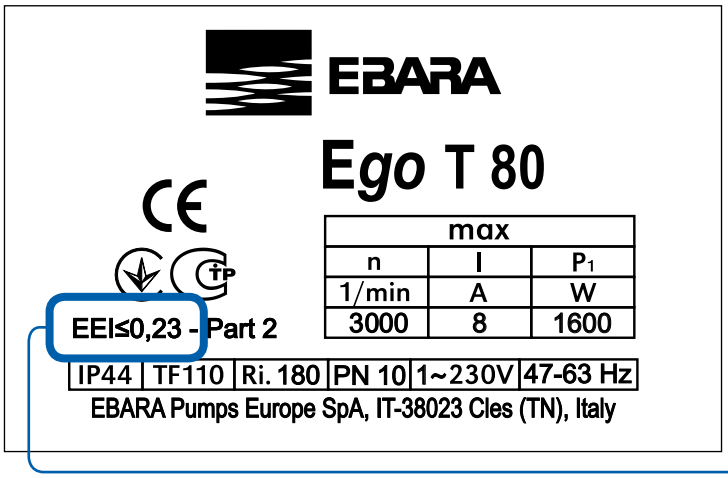
ENERGY LABELLING

All *Ego* models are conforming with European Directive ErP 2009/125/EC.
For wet rotor circulator pumps, the **reference parameter is the EEI (Energy Efficiency Index)**, which identifies the overall efficiency of the pump on a decreasing scale (i.e. lower values of the EEI correspond to a more efficient pump).

The deadlines envisaged by the Directive are as follows:

- **1st step:** from **01/01/2013** onwards, only circulator pumps with **EEI ≤ 0.27** are admitted (excluding integrated circulators and circulators for solar and domestic water installations)
- **2nd step:** from **01/08/2015** onwards, only circulator pumps with **EEI ≤ 0.23** are admitted (excluding circulators for domestic water installations)
- **3rd step:** from **01/01/2020** onwards, even circulators replacing integrated circulators must be rated **EEI ≤ 0.23** (excluding circulators for domestic water installations)

The products' technical data sheets give the EEI for each model (this value is also given on the nameplate, as required by the standard).



EXAMPLE NAMEPLATE WITH EEI RATING

HIGH EFFICIENCY ELECTRONIC CIRCULATORS

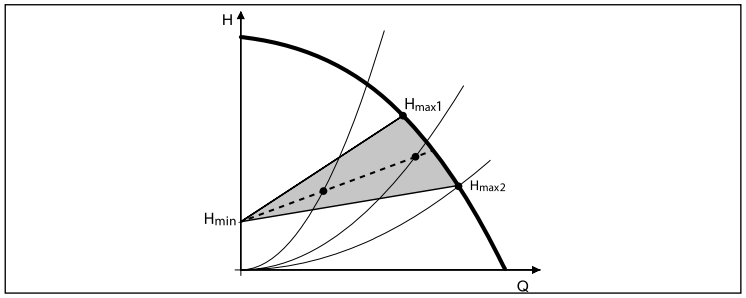
in cast iron with cataphoretic coating

CONTROL MODES

We describe the control modes available for the E*go* series. Depending on model, all or only some of them may be available; refer to the data sheets to determine which are present for a given model.

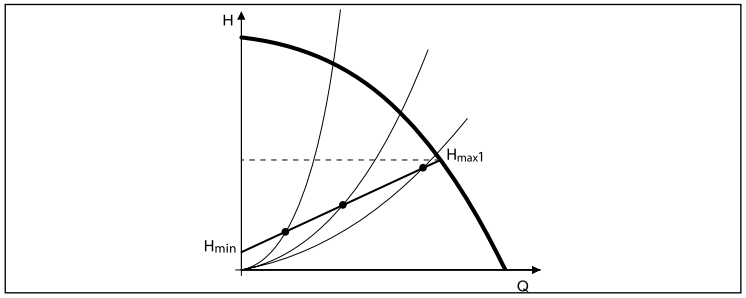
a) AUTO (factory setting, where available)

In this mode, the **pump automatically regulates the hydraulic performance** as a function of system demand, and continuously determines the optimal H/Q working point. AUTO mode is a proportional pressure mode in which the curves have a fixed origin (H_{min}); the circulator works in response to system demand at any point in the area shown in the figure, in which both H_{min}, H_{max1} and H_{max2} are factory preset values. **This mode is suited to most applications and ensures excellent energy savings.**



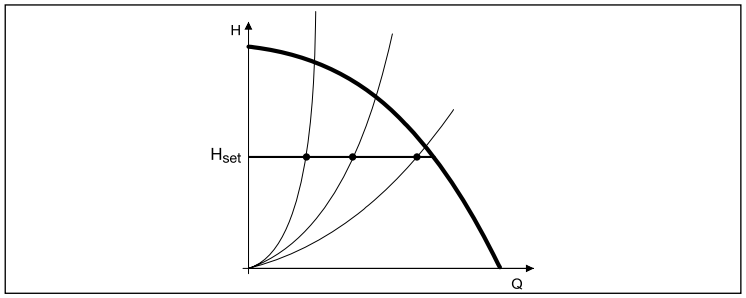
b) Proportional pressure (Δp-v)

In this mode,m the pump automatically regulates the pressure in relation to the flow rate demanded by the system, varying it linearly within a set range. Effectively: **as the flow demand increases, so does the differential pressure** generated by the pump (and vice-versa). This mode is recommended **in systems with relatively high pressure drops.** In smaller models, the working curves (H_{min}-H_{max}) are preset, while in the bigger models they can be programmed over a wide range of values.



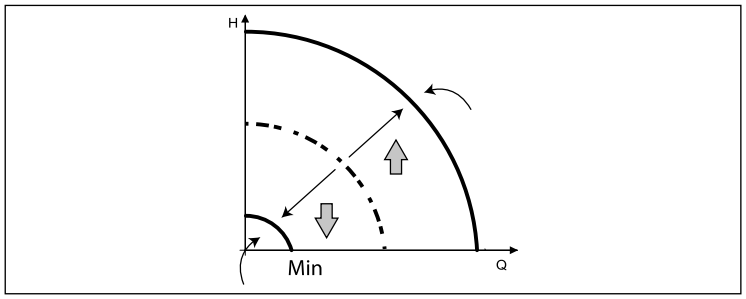
c) Constant pressure (ΔP-c)

In this mode, **the head is held constant** (at the value set by the user) **regardless of flow rate.** This mode, **which is recommended for relatively minor pressure drops,** is available from medium sizes up, and allows you to select the pressure setting H_{set} (in metres) within a wide range of values.



d) Constant speed

In this mode **the pump is run with a constant curve,** like a normal pump without regulation.
You can set a variety of speeds (constant working curves). In smaller models, the curves are preset, while in larger models they can be programmed over a wide range of values (by setting the pump speed in *rpm*).

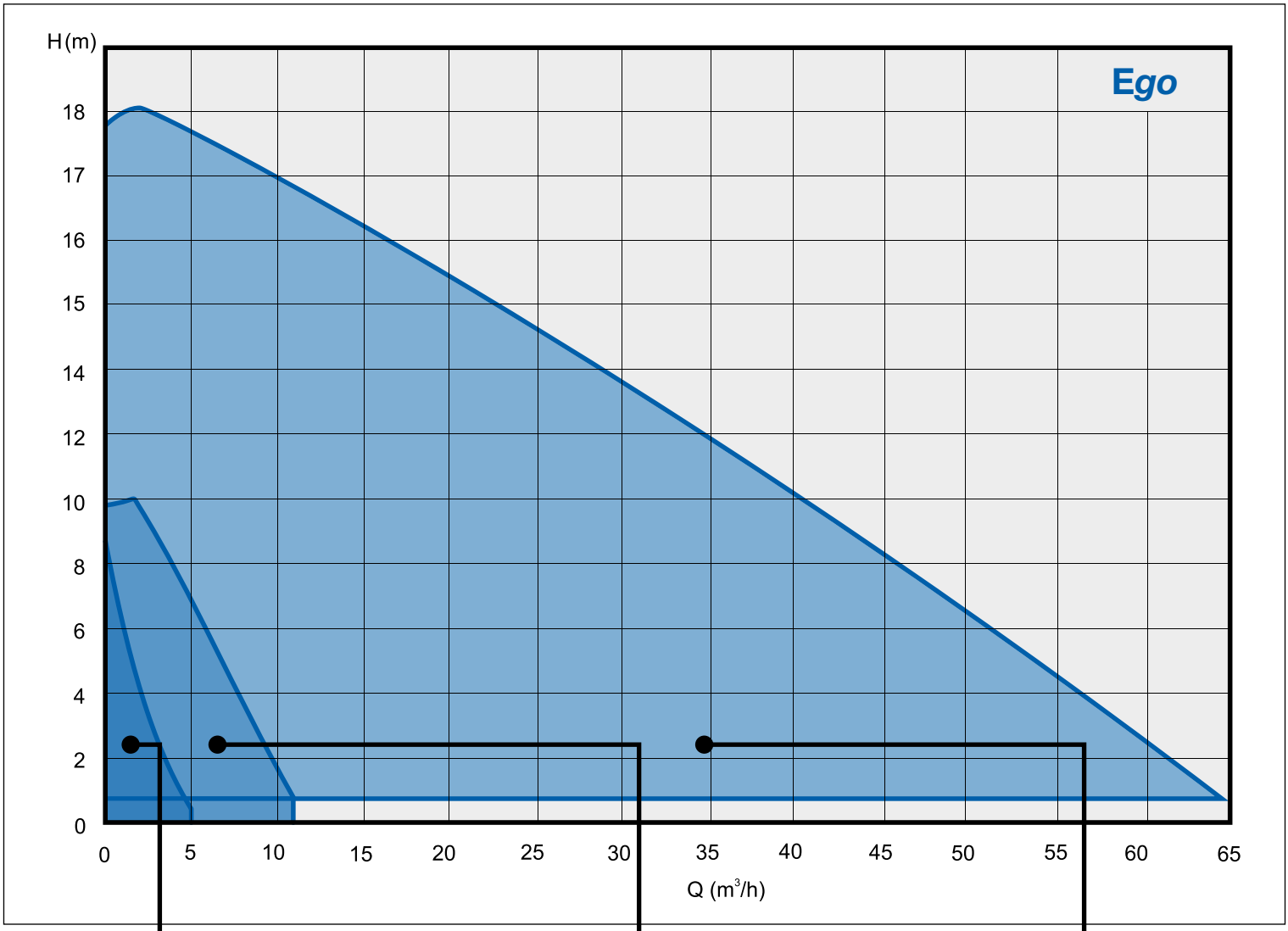


Ego RANGE

HIGH EFFICIENCY ELECTRONIC CIRCULATORS

in cast iron with cataphoretic coating

PERFORMANCE RANGE



THREADED CIRCULATORS

Ego (T) (ER) -/40, -/60, -/80

THREADED/FLANGED CIRCULATORS

Ego (T) (C) easy -60, -80, -100, -120

FLANGED CIRCULATORS

Ego (T) (C) 50, 65, 80, 100 (H)

Ego (T) (C) slim 40, 50

Ego

THREADED CIRCULATORS

Ego (T) (ER) -/40, -/60, -/80, single and twin

High efficiency wet rotor circulator pump with threaded fitting, permanent magnet motor and integrated electronic control.

APPLICATIONS

Domestic heating and air conditioning systems

SPECIAL FEATURES

- Integrated frequency converter
- Two operating modes ("ΔP-v" and "constant speed")
- Automatic air relief function
- High starting torque (automatically unlocks the rotor)
- Easy to install and adjust with a single lamp button
- 0-10V contact (optional, see "ER" versions)

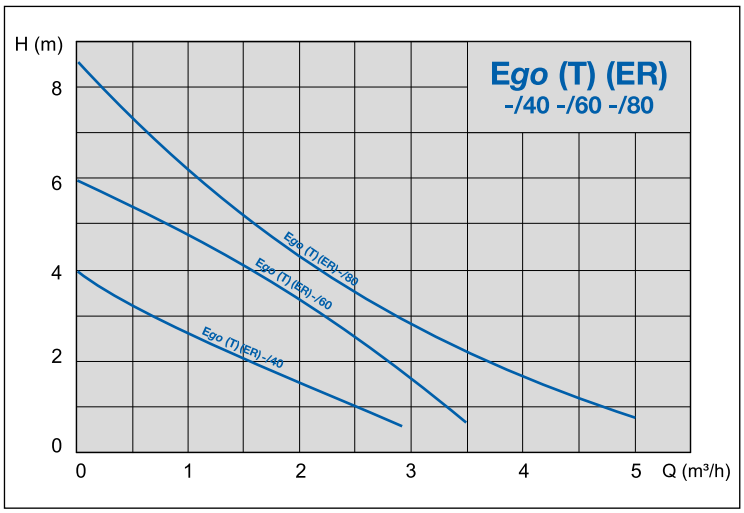
PUMP TECHNICAL DATA

- Fluid temperature: +5 ÷ +95°C
- Ambient temperature: 0 ÷ +40°C
- Air relative humidity: ≤ 95%
- Admitted fluids: clean, non-aggressive and non-explosive fluids, with no solid particles or fibres
- Maximum pressure: 10 bar
- Minimum suction pressure:
  - 0.05 bar at 50°C
  - 0.4 bar at 80°C
  - 1.1 bar at 110°C
- Maximum glycol ratio: 20%*
- Threaded ports: G1 - 1"½ - 2" (per ISO 228)
- Protection rating: IP44

MOTOR TECHNICAL DATA

- Type: synchronous, permanent magnet
- Rpm: variable
- Power supply: 1~230V
- Frequency: 50/60 Hz
- Insulation class: F

** For larger quantities, check the resulting viscosity and conditions of use.*



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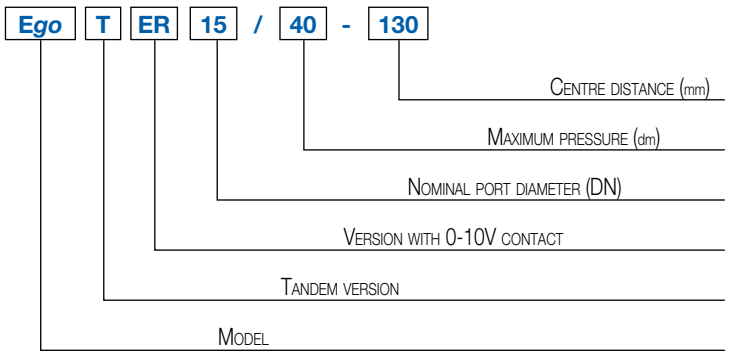
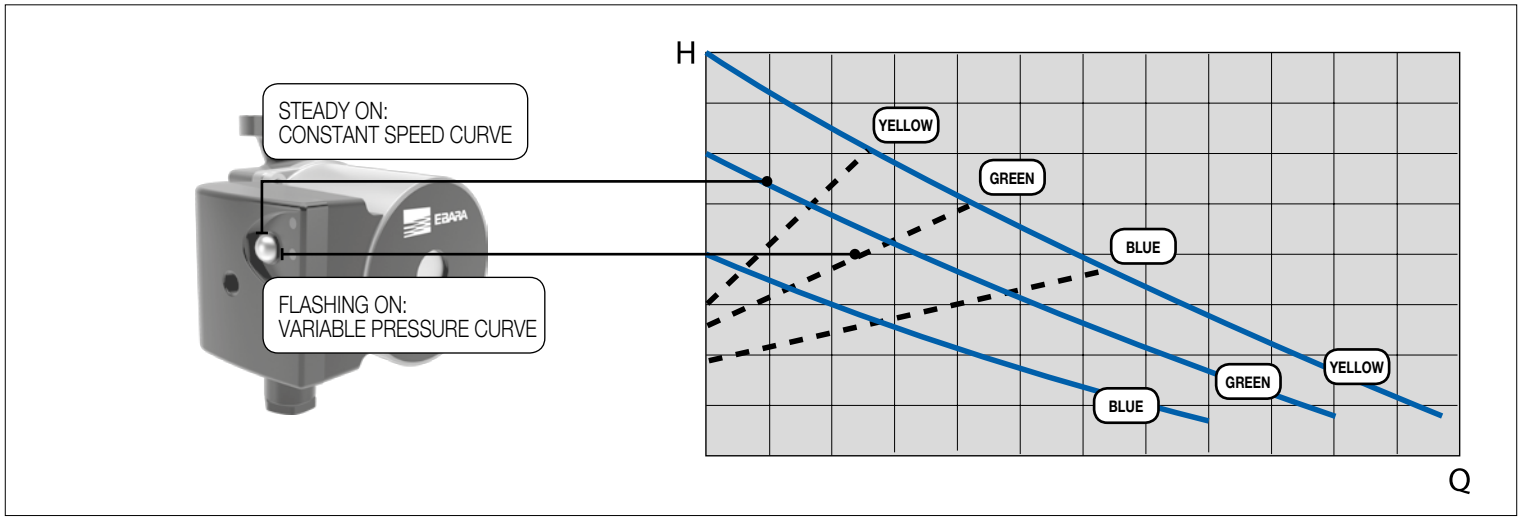


THREADED CIRCULATORS

Ego (T) (ER) -/40, -/60, -/80, single and twin

OPERATING MODES

Two operating modes, selectable with the lamp button on the terminal block box:



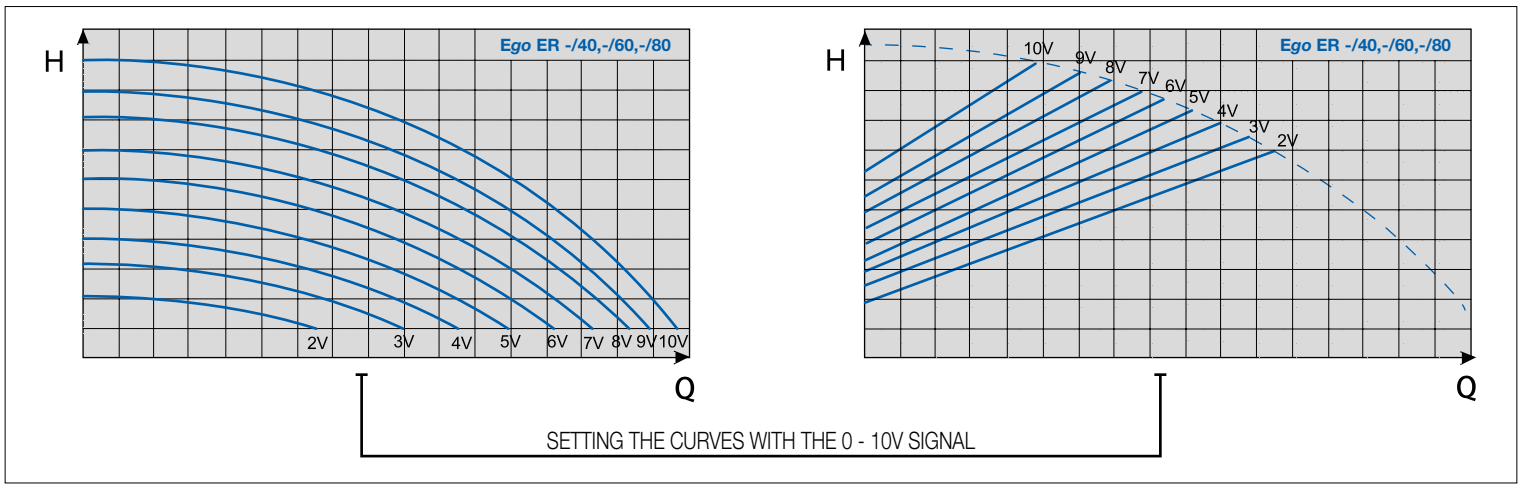
- **ΔP-v Proportional pressure (factory setting)**
  This range of circulators can work in **variable pressure mode with 3 preset curves.** When this mode is active, **the lamp button flashes** at a speed which depends on the instantaneous flow rate. **The colour of the lamp identifies the curve** (blue for the lowest curve, green for the intermediate curve and yellow for the highest curve); to switch between curves, simply press the button briefly.

From variable pressure mode (led flashing) you can switch to constant speed mode (lamp steady on) by holding the lamp button down for at least 5 seconds.

- **Constant speed**
  This range of circulators can work in **constant speed mode with 3 preset curves.** In this case the pump acts as a normal pump without regulation and its power draw is constant. When this mode is active, **the lamp remains steady on;** in this case too, the **colour of the led identifies the curve** (blue for the lowest curve, green for the intermediate curve and yellow for the highest curve). To switch between curves, press the lamp button briefly (thus returning to variable press mode), select the curve (with the colour of the led), and then hold the button down again for a few seconds.

VERSIONS WITH 0-10V ANALOGUE REGULATION (models *Ego* ER -/40, -/60, -/80)

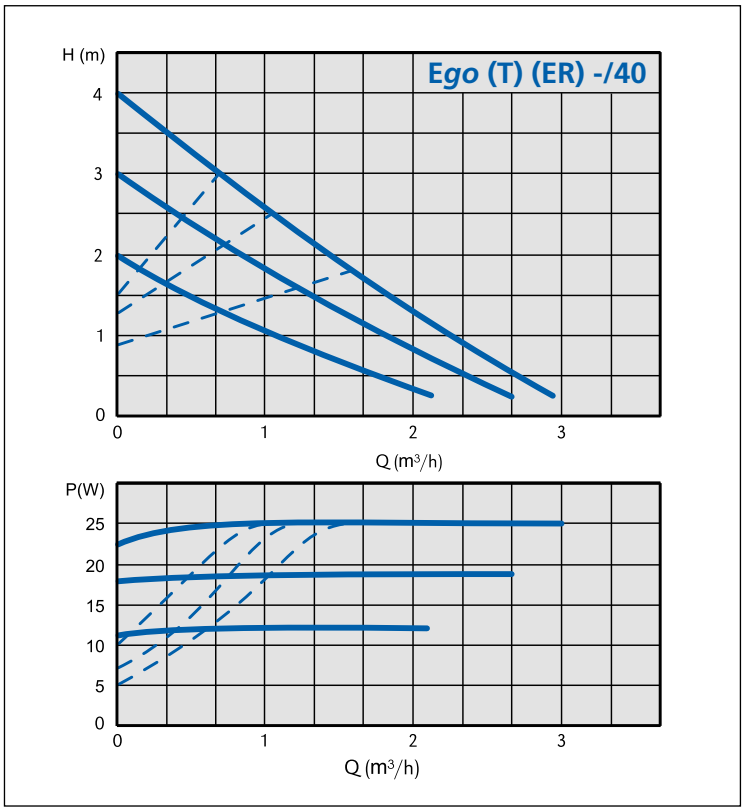
The special ***Ego* ER** versions, equipped with the 0-10V contact inside the terminal block box, allow you to set the working curve remotely (in both fixed speed and variable differential pressure modes). In this case, as shown in the following diagrams, there are many more working curves.

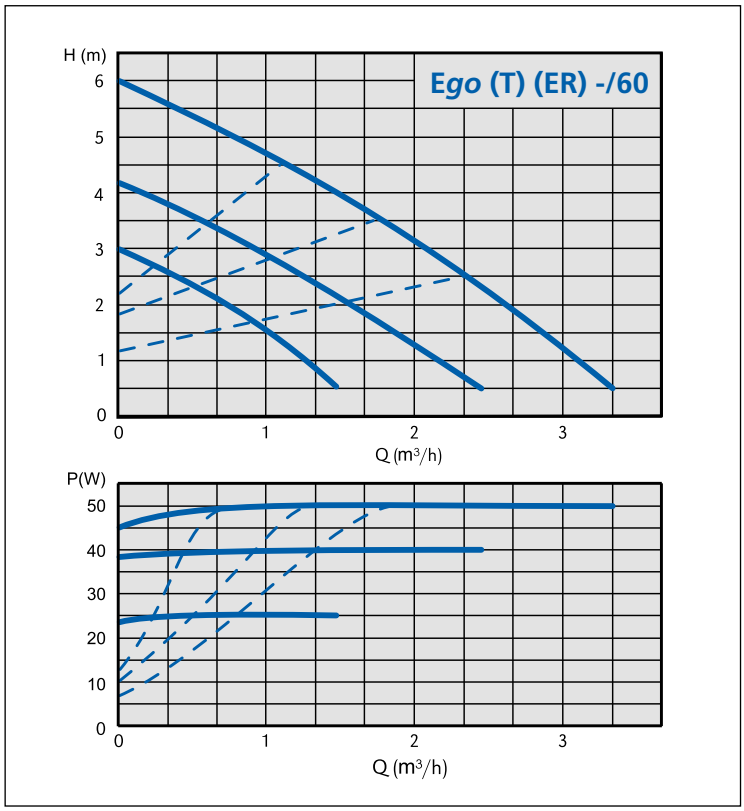


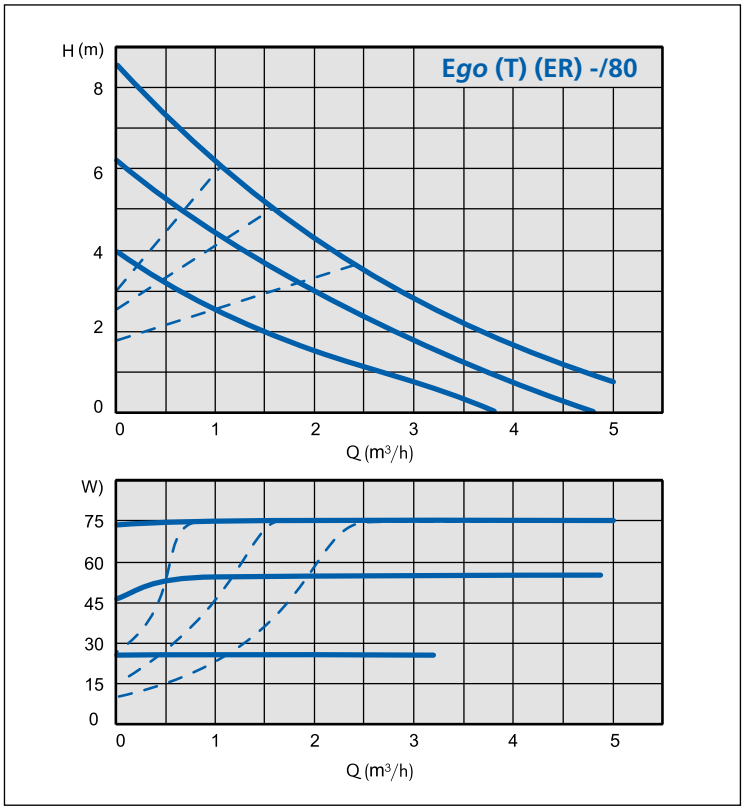
THREADED CIRCULATORS

Ego (T) (ER) -/40, -/60, -/80, single and twin

PERFORMANCE CURVES





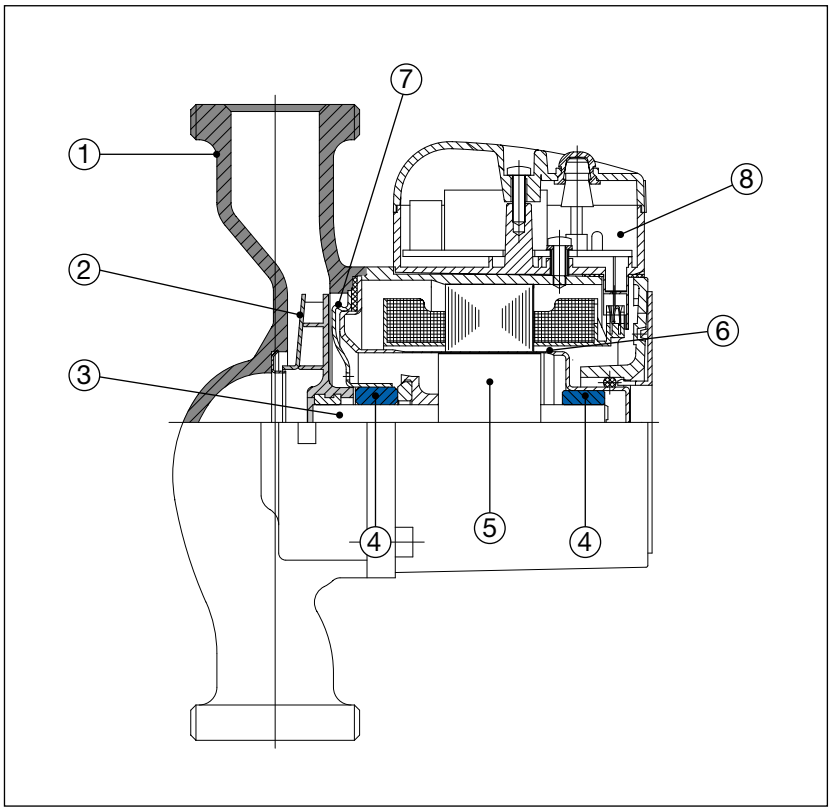


Ego

THREADED CIRCULATORS

Ego (T) (ER) -/40, -/60, -/80, single and twin

SECTIONAL VIEW



MATERIALS TABLE

Ref.	Component	Material
1	Pump body	Cast iron with cataphoretic coating
2	Impeller	Technopolymer
3	Shaft	Ceramic
4	Bearings	Ceramic
5	Rotor	Coated in stainless steel
6	Pipe	AISI 316 stainless steel
7	Separator plate	AISI 316 stainless steel
8	Electronic board	-

TECHNICAL CHARACTERISTICS - single

Model	EEI (energy efficiency index)	Pump connection	Pipeline connection	Power P_1 [W] P_{max}	Current draw [A] I_{min} - I_{max}	Weight [kg]
Ego (ER) 15/40-130	≤ 0.15	G1	Rp ½	25	0.05 - 0.2	1.9
Ego (ER) 25/40-130	≤ 0.15	G1½	Rp 1"	25	0.05 - 0.2	2.1
Ego (ER) 15/60-130	≤ 0.17	G1	Rp ½	50	0.05 - 0.4	1.9
Ego (ER) 25/60-130	≤ 0.17	G1½	Rp 1"	50	0.05 - 0.4	2.1
Ego (ER) 25/80-130	≤ 0.19	G1½	Rp 1"	75	0.05 - 0.6	2.1
Ego (ER) 25/40-180	≤ 0.15	G1½	Rp 1"	25	0.05 - 0.2	2.4
Ego (ER) 32/40-180	≤ 0.15	G2	Rp 1"¼	25	0.05 - 0.2	2.5
Ego (ER) 25/60-180	≤ 0.17	G1½	Rp 1"	50	0.05 - 0.4	2.4
Ego (ER) 32/60-180	≤ 0.17	G2	Rp 1"¼	50	0.05 - 0.4	2.5
Ego (ER) 25/80-180	≤ 0.19	G1½	Rp 1"	75	0.05 - 0.6	2.4
Ego (ER) 32/80-180	≤ 0.19	G2	Rp 1"¼	75	0.05 - 0.6	2.5

TECHNICAL CHARACTERISTICS - twin

Model	EEI (energy efficiency index)	Pump connection	Pipeline connection	Power P_1 [W] P_{max}	Current draw [A] I_{min} - I_{max}	Weight [kg]
Ego T 25/60-180	≤ 0.17	G1½	Rp 1"	50	0.05 - 0.4	5.5
Ego T 32/60-180	≤ 0.17	G2	Rp 1"¼	50	0.05 - 0.4	5.5
Ego T 25/80-180	≤ 0.19	G1½	Rp 1"	75	0.05 - 0.6	5.7
Ego T 32/80-180	≤ 0.19	G2	Rp 1"¼	75	0.05 - 0.6	5.7

THREADED CIRCULATORS

Ego -/40, -/60, -/80

DIMENSIONS - single

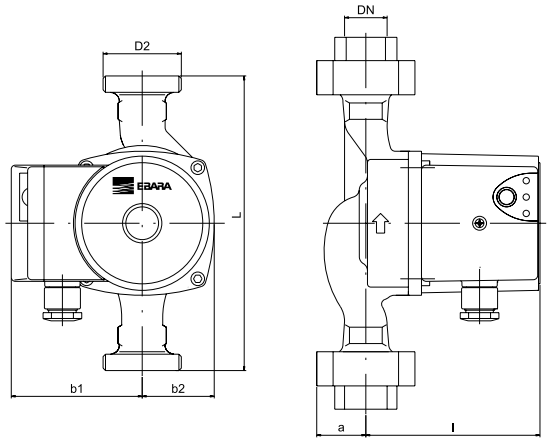


TABLE OF DIMENSIONS - single

Model	Dimensions [mm]						
	L	DN	b1	b2	l	a	D2
Ego (ER) 15/40-130	130	15	80	48	108	27	1"
Ego (ER) 25/40-130	130	25	80	48	108	32	1"½
Ego (ER) 15/60-130	130	15	80	48	108	27	1"
Ego (ER) 25/60-130	130	25	80	48	108	32	1"½
Ego (ER) 25/80-130	130	25	80	48	108	32	1"½
Ego (ER) 25/40-180	180	25	80	48	108	32	1"½
Ego (ER) 32/40-180	180	32	80	48	108	40	2"
Ego (ER) 25/60-180	180	25	80	48	108	32	1"½
Ego (ER) 32/60-180	180	32	80	48	108	40	2"
Ego (ER) 25/80-180	180	25	80	48	108	32	1"½
Ego (ER) 32/80-180	180	32	80	48	108	40	2"

DIMENSIONS - twin

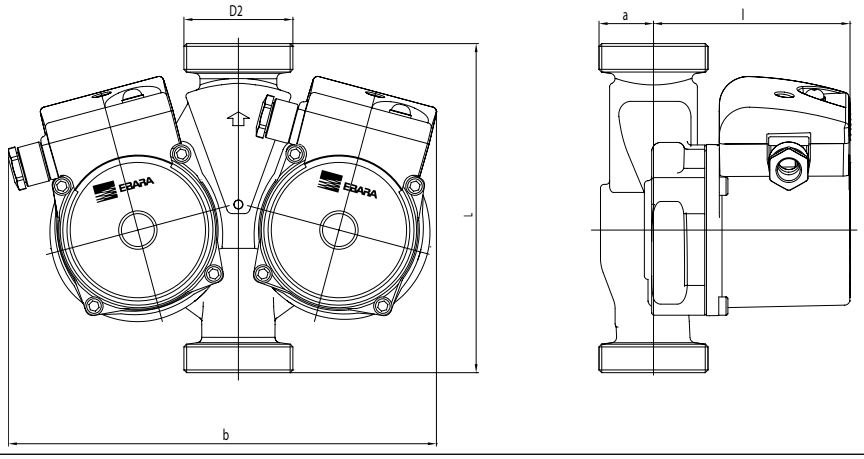


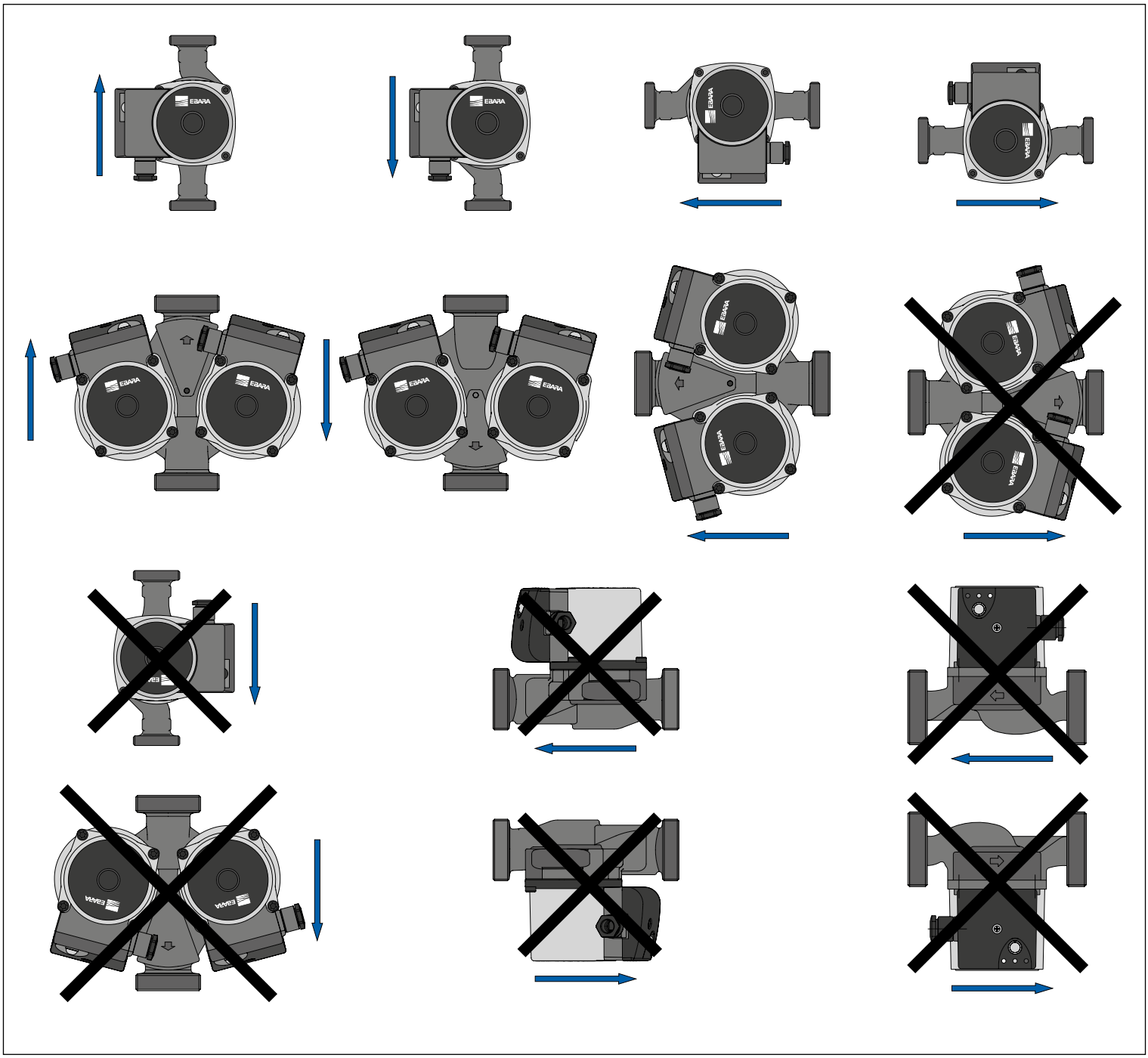
TABLE OF DIMENSIONS - twin

Model	Dimensions [mm]					
	L	DN	b	l	a	D2
Ego T 25/80-180	180	25	234	107.2	29.8	1"½
Ego T 32/80-180	180	32	234	107.2	29.8	2"
Ego T 25/60-180	180	25	234	107.2	29.8	1"½
Ego T 32/60-180	180	32	234	107.2	29.8	2"

THREADED CIRCULATORS

Ego -/40, -/60, -/80

MOUNTING POSITIONS



Ego easy

THREADED/FLANGED CIRCULATORS

Ego (T) (C) easy -60, -80, -100, -120 single and twin

High efficiency wet rotor circulator pump with threaded or flanged fitting, permanent magnet motor and integrated electronic control.

APPLICATIONS

Domestic and industrial heating and air conditioning systems

SPECIAL FEATURES

- Integrated frequency converter
- Four operating modes
- Numerical/graphic display for easy programming and parameter display
- Automatic air relief function
- Integrated overload protection
- High starting torque (automatically unlocks the rotor)
- Optional communications module (with Ethernet connection, 0-10V contact, digital inputs, etc.)

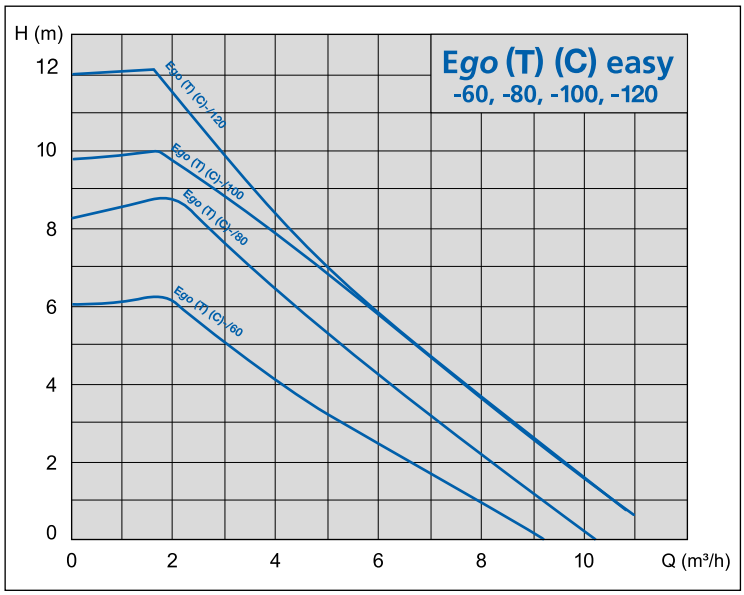
PUMP TECHNICAL DATA

- Fluid temperature: +2 ÷ +110°C
- Ambient temperature: 0 ÷ +40°C
- Air relative humidity: ≤ 95%
- Admitted fluids: clean, non-aggressive and non-explosive fluids, with no solid particles or fibres
- Maximum pressure: 10 bar
- Minimum suction pressure:
  - 0.05 bar at 50°C
  - 0.8 bar at 80°C
  - 1.4 bar at 110°C
- Maximum glycol ratio: 20%*
- Threaded ports: G 1"½ - 2" (per ISO 228)
- Flanged ports: DN 32 to DN 50
- Protection rating: IP44

MOTOR TECHNICAL DATA

- Type: synchronous, permanent magnet
- Rpm: variable
- Power supply: 1~230V
- Frequency: 50/60 Hz
- Insulation class: F

** For larger quantities, check the resulting viscosity and conditions of use.*



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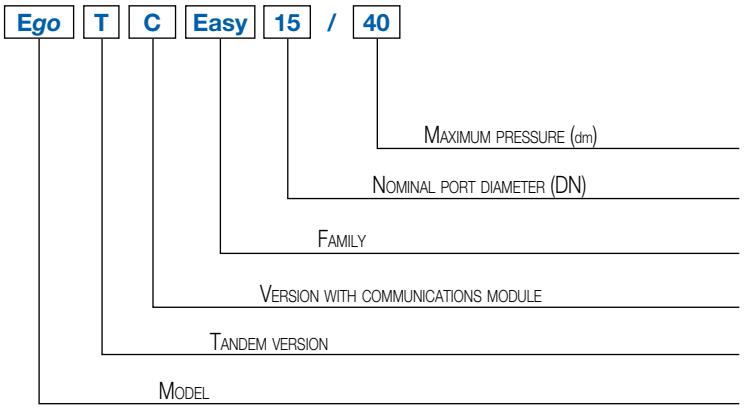
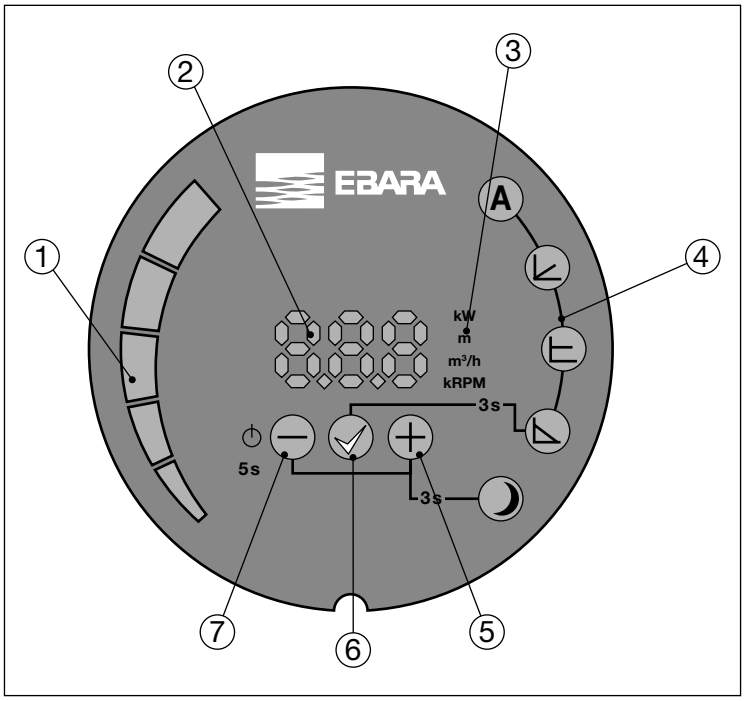


THREADED/FLANGED CIRCULATORS

Ego (T) (C) easy -60, -80, -100, -120 single and twin

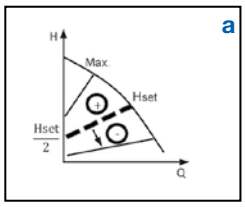
OPERATING MODES

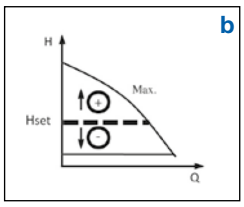
The operating modes can be selected with the buttons on the rear panel:

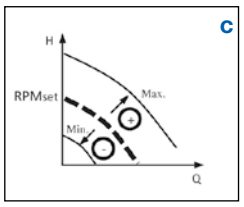


LEGEND

1 Segment display
2 Numerical display
3 Select parameter display
4 Selected mode display
5 Select key
6 Confirm key
7 Select key







AUTO mode (factory setting)
In this mode, the pump automatically regulates the hydraulic performance as a function of system demand, and continuously determines the optimal H/Q working point. This mode is suited to most applications and ensures excellent energy savings.

Proportional pressure (ΔP-v) - fig. a
The circulator regulates the head as a function of flow rate, varying it linearly from the maximum (H_{set}) to the minimum (= $H_{set}/2$). The pressure value (H_{set}) is set with the ⊕ and ⊖ buttons, and is expressed in metres; the minimum value is calculated automatically by the circulator.

Constant pressure (ΔP-c) - fig. b
The circulator holds the head constant as the flow rate varies. The pressure value (H_{set}) is set with the ⊕ and ⊖ buttons, and is expressed in metres.

Constant speed - fig. c
The circulator works with a constant curve, set with the ⊕ and ⊖ buttons (to select the speed in “rpm”).

Night mode
Night mode can be activated in combination with of the above modes, and runs the pump with a minimum curve (hence low consumption) when the fluid temperature diminishes by 15-20°C. When the temperature rises again, the normal curve is restored (depending on the selected mode).

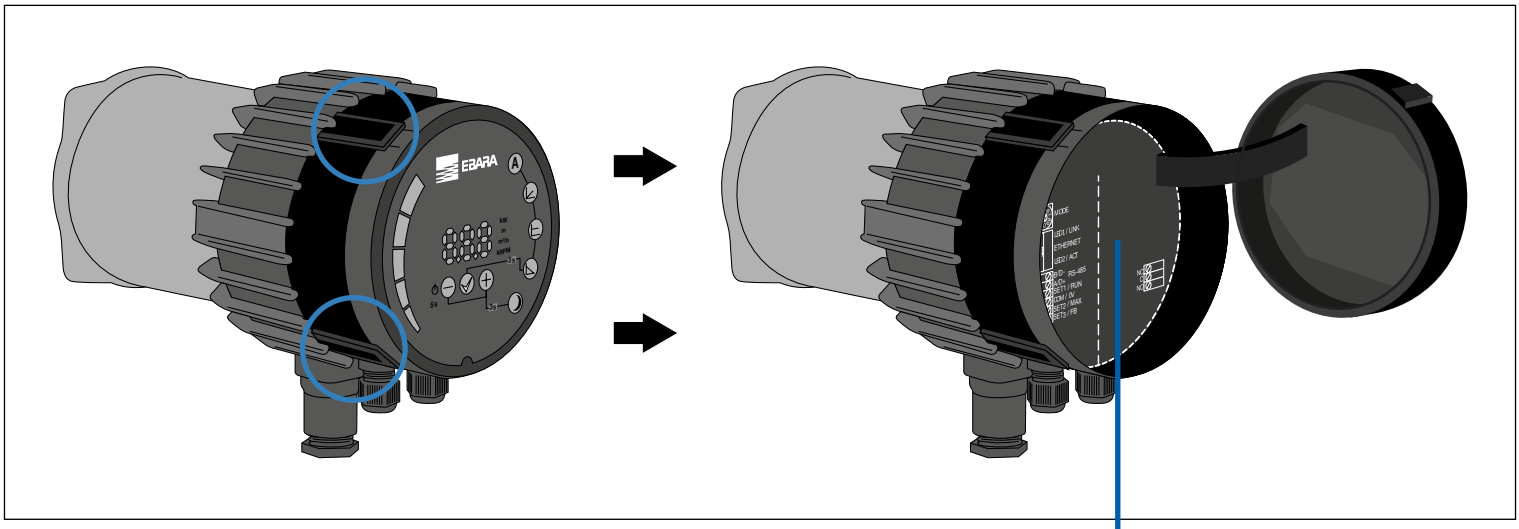
THREADED/FLANGED CIRCULATORS

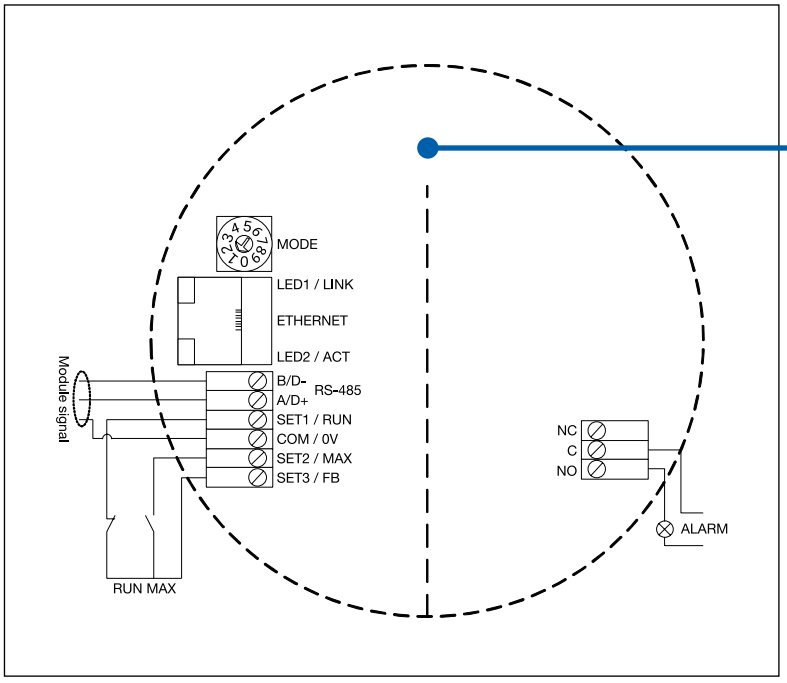
Ego (T) (C) easy -60, -80, -100, -120 single and twin

COMMUNICATIONS MODULE

The twin versions ***Ego T C* easy** are equipped as standard supply with a supplementary communications module, which can be accessed by opening the rear display panel. The communications module is also available as a separate accessory, for *Ego* easy single models.
The module offers a wide range of remote applications, including:

- **Ethernet access**
- **Remote On/Off**
- **0-10V analogue control**
- **Modbus RTU**
- **Alarm/status relays**



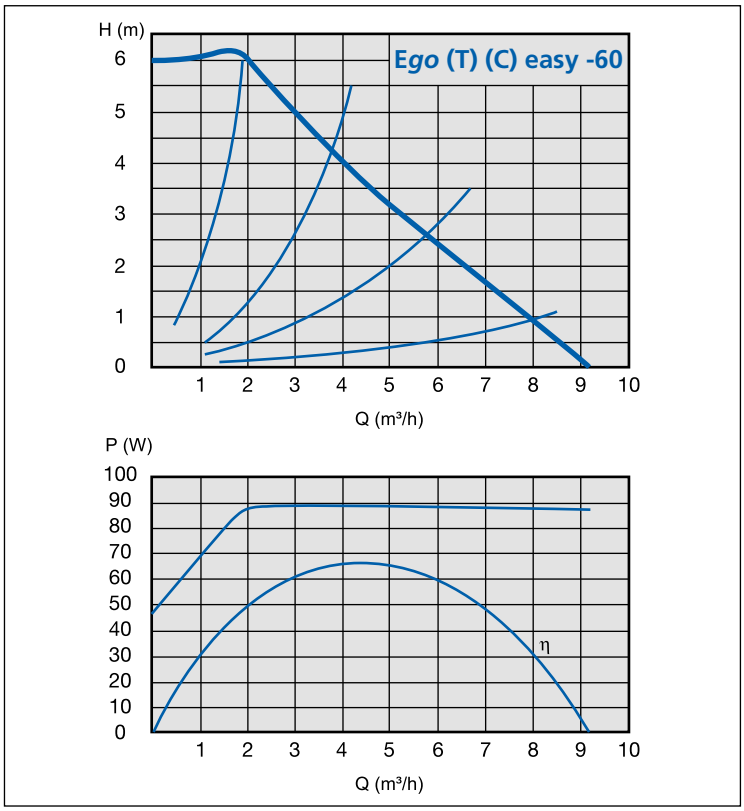


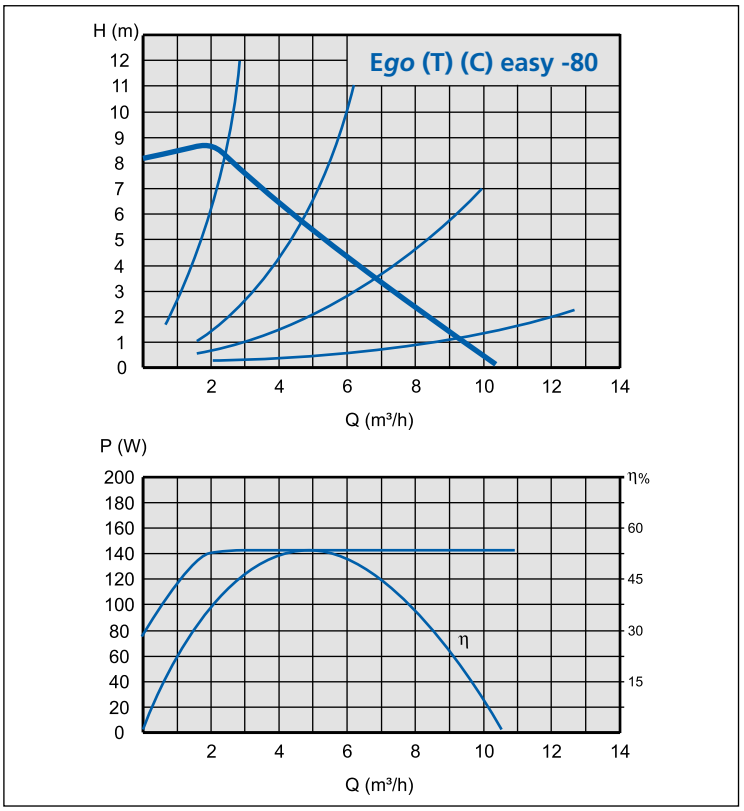
Ego easy

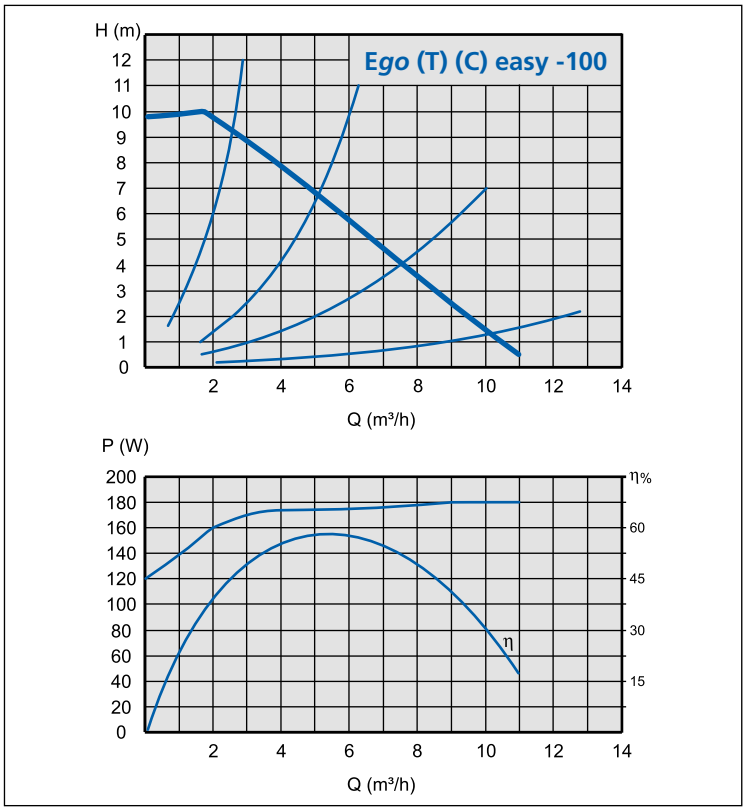
THREADED/FLANGED CIRCULATORS

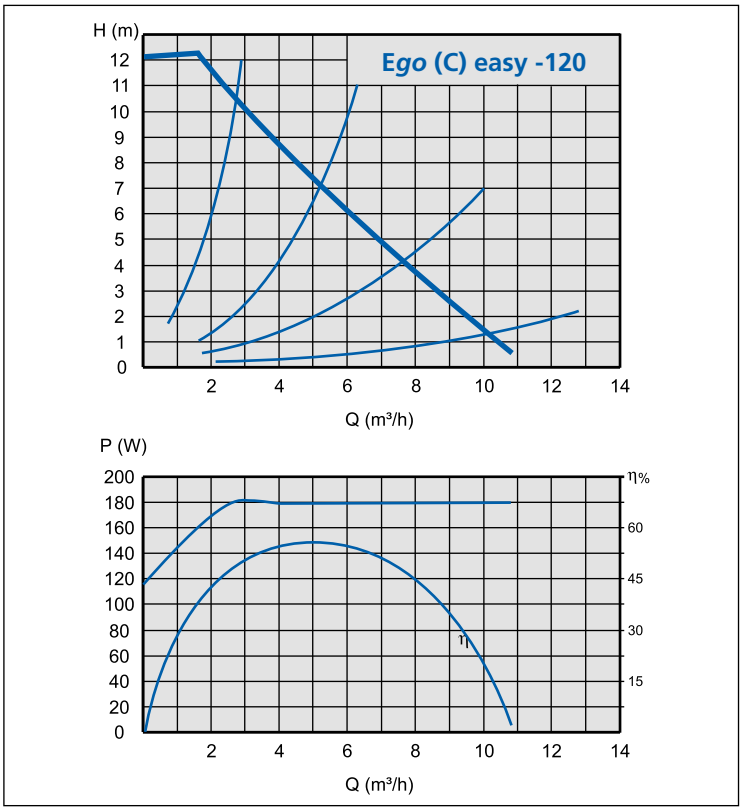
Ego (T) (C) easy -60, -80, -100, -120 single and twin

PERFORMANCE CURVES







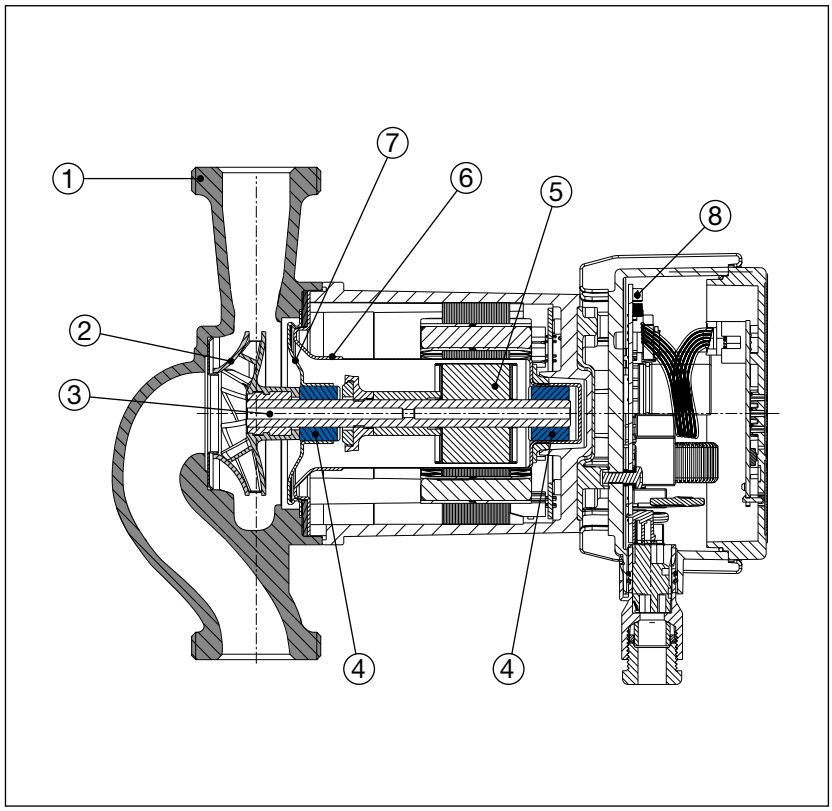


Ego easy

THREADED/FLANGED CIRCULATORS

Ego (T) (C) easy -60, -80, -100, -120 single and twin

SECTIONAL VIEW



MATERIALS TABLE

Ref.	Component	Material
1	Pump body	Cast iron with cataphoretic coating
2	Impeller	Technopolymer
3	Shaft	Stainless steel
4	Bearings	Graphite
5	Rotor	Coated in stainless steel
6	Pipe	AISI 316 stainless steel
7	Separator plate	AISI 316 stainless steel
8	Electronic board	-

TECHNICAL CHARACTERISTICS - single

Model	EEI (energy efficiency index)	Pump connection	Pipeline connection	Power P_1 [W] P_{max}	Current draw [A] I_{min} - I_{max}	Weight [kg]
Ego easy 25-60	≤ 0.21	G1"½	Rp 1"	90	0.1 - 0.75	4.0
Ego easy 32-60	≤ 0.21	G2"	Rp 1"¼	90	0.1 - 0.75	4.1
Ego easy 25-80	≤ 0.21	G1"½	Rp 1"	140	0.1 - 1.15	4.0
Ego easy 32-80	≤ 0.21	G2"	Rp 1"¼	140	0.1 - 1.15	4.1
Ego easy 25-100	≤ 0.21	G1"½	Rp 1"	180	0.1 - 1.5	4.0
Ego easy 32-100	≤ 0.21	G2"	Rp 1"¼	180	0.1 - 1.5	4.1
Ego easy 25-120	≤ 0.22	G1"½	Rp 1"½	180	0.1 - 1.5	4.0
Ego easy 32-120	≤ 0.22	G2"	Rp 2"	180	0.1 - 1.5	4.1
Ego easy 32-100F	≤ 0.21	DN 32	-	180	0.1 - 1.5	7.4
Ego easy 40-100F	≤ 0.21	DN 40	-	180	0.1 - 1.5	8.5
Ego easy 50-100F	≤ 0.21	DN 50	-	180	0.1 - 1.5	9.8

TECHNICAL CHARACTERISTICS - twin

Model	EEI (energy efficiency index)	Pump connection	Pipeline connection	Power P_1 [W] P_{max}	Current draw [A] I_{min} - I_{max}	Weight [kg]
Ego T C easy 32-60	≤ 0.21	G 2"	Rp 1"¼	90	0.1 - 0.75	8.2
Ego T C easy 32-80	≤ 0.21	G 2"	Rp 1"¼	140	0.1 - 1.15	8.2
Ego T C easy 32-100	≤ 0.21	G 2"	Rp 1"¼	180	0.1 - 1.50	8.2
Ego T C easy 40-100F	≤ 0.21	DN 40	-	180	0.1 - 1.50	11.0

THREADED/FLANGED CIRCULATORS

Ego (T) (C) easy -60, -80, -100, -120 single and twin

DIMENSIONS - single

Fig. 1

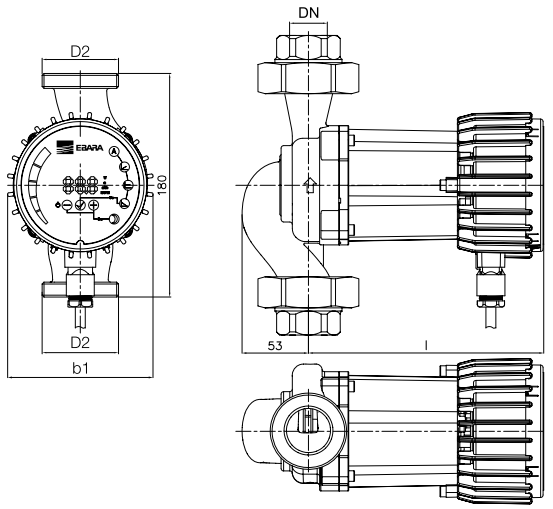


Fig. 2

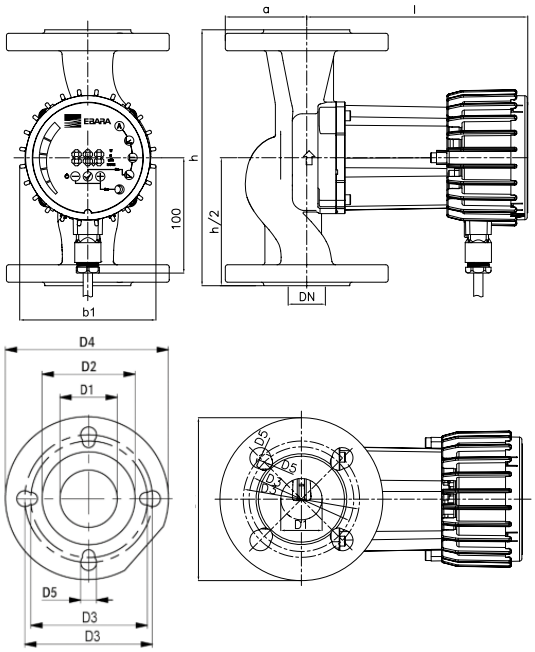


TABLE OF DIMENSIONS - single

Ref.	Model	Dimensions [mm]										
		h	DN	b1	l	a	D1	D2	D3	D4	D5	n. holes
Fig. 1	Ego easy 25-60	180	25	117	190 (222)*	-	-	1"½	-	-	-	-
	Ego easy 32-60	180	32	117	190 (222)*	-	-	2"	-	-	-	-
	Ego easy 25-80	180	25	117	190 (222)*	-	-	1"½	-	-	-	-
	Ego easy 32-80	180	32	117	190 (222)*	-	-	2"	-	-	-	-
	Ego easy 25-100	180	25	117	190 (222)*	-	-	1"½	-	-	-	-
	Ego easy 32-100	180	32	117	190 (222)*	-	-	2"	-	-	-	-
	Ego easy 25-120	180	25	117	190 (222)*	-	-	1"½	-	-	-	-
	Ego easy 32-120	180	32	117	190 (222)*	-	-	2"	-	-	-	-
Fig. 2	Ego easy 32-100F	220	32	117	190 (222)*	70	32	74	90/100	140	14/18	4
	Ego easy 40-100F	220	40	117	190 (222)*	75	40	80	100/110	150	14/19	4
	Ego easy 50-100F	240	50	117	190 (222)*	82.5	50	90	110/125	165	14/19	4

* Dimensions in parentheses refer to the circulator without module C

THREADED/FLANGED CIRCULATORS

Ego (T) (C) easy -60, -80, -100, -120 single and twin

DIMENSIONS - twin

Fig. 1

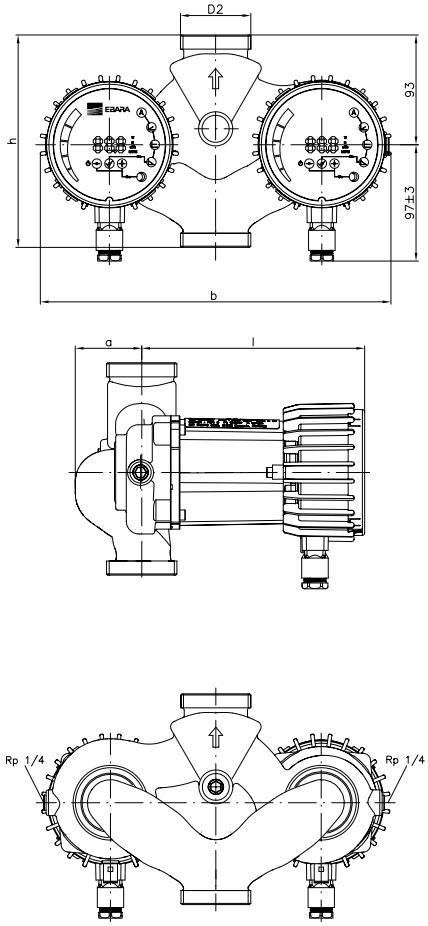
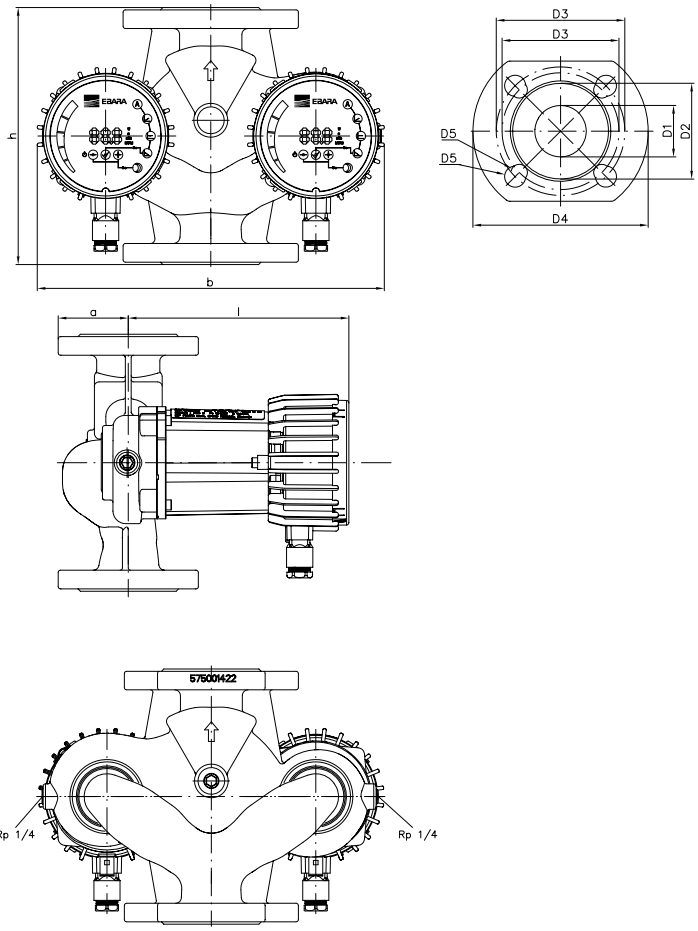


Fig. 2



DIMENSIONS - twin

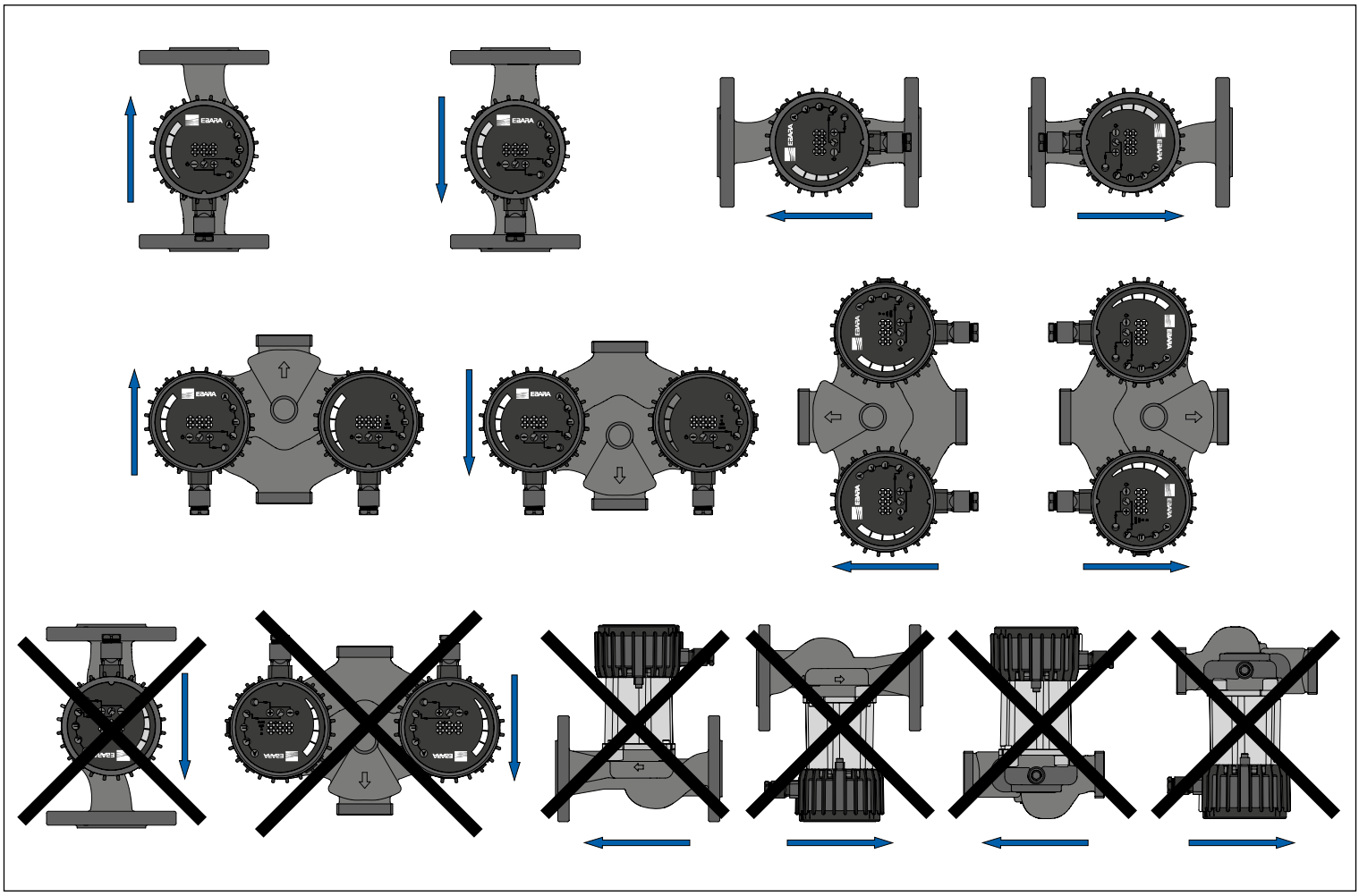
Ref.	Model	Dimensions [mm]										
		h	DN	b	l	a	D1	D2	D3	D4	D5	n. holes
	Ego T C easy 32-60	180	32	297	222	56	-	2"	-	-	-	-
Fig. 1	*Ego* T C easy 32-80	180	32	297	222	56	-	2"	-	-	-	-
	Ego T C easy 32-100	180	32	297	222	56	-	2"	-	-	-	-
Fig. 2	*Ego* T C easy 40-100F	220	40	297	222	75	40	80	100/110	150	14/19	4

* Module C is standard supply for twin units

THREADED/FLANGED CIRCULATORS

Ego (T) (C) easy -60, -80, -100, -120 single and twin

MOUNTING POSITIONS



Ego slim

FLANGED CIRCULATORS

Ego (T) (C) slim 40, 50

High efficiency wet rotor circulator pump with fitting or flanged, permanent magnet motor and integrated electronic control.

APPLICATIONS

Domestic and industrial heating and air conditioning systems

SPECIAL FEATURES

- Integrated frequency converter
- A variety of operating modes
- Numerical/graphic display for easy programming and parameter display
- Automatic air relief function
- Integrated overload protection
- High starting torque (automatically unlocks the rotor)
- Optional communications module (with Ethernet connection, 0-10V contact, digital inputs, etc.)

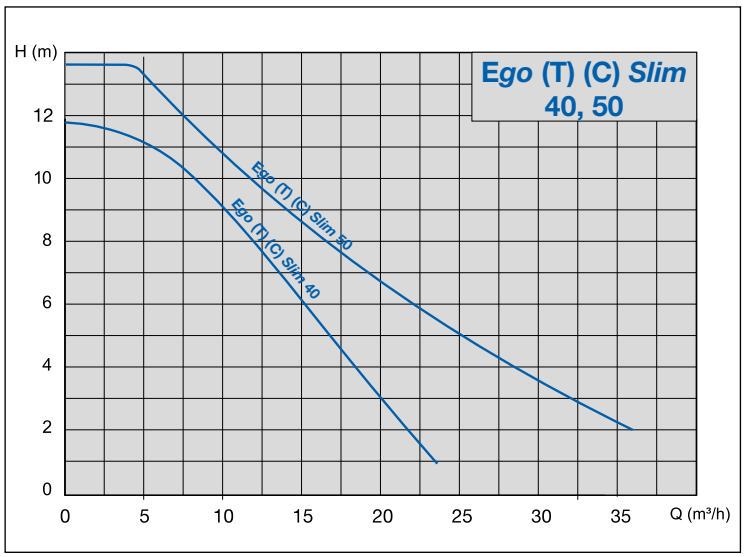
PUMP TECHNICAL DATA

- Fluid temperature: -10 ÷ +110°C
- Ambient temperature: 0 ÷ +40°C
- Air relative humidity: ≤ 95%
- Admitted fluids: clean, non-aggressive and non-explosive fluids, with no solid particles or fibres
- Maximum pressure: 10 bar
- Minimum suction pressure:
  - 0.05 bar at 50°C
  - 0.8 bar at 80°C
  - 1.4 bar at 110°C
- Maximum glycol ratio: 20%*
- Threaded ports: G 1"½ - 2" (per ISO 228)
- Flanged ports: DN 32 to DN 50
- Protection rating: IP44

MOTOR TECHNICAL DATA

- Type: synchronous, permanent magnet
- Rpm: variable
- Power supply: 1~230V
- Frequency: 50/60 Hz
- Insulation class: F

** For larger quantities, check the resulting viscosity and conditions of use.*



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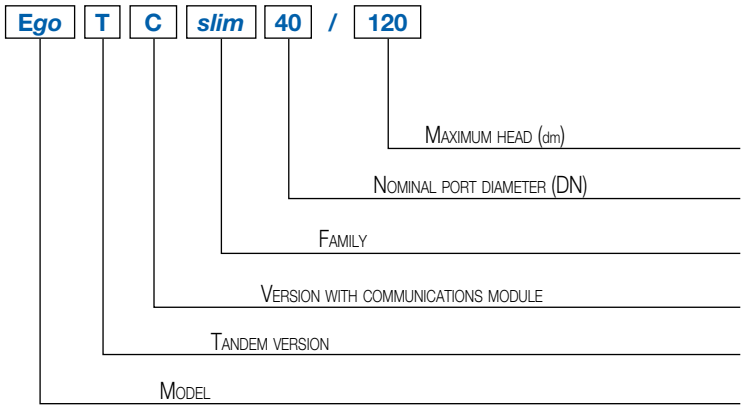
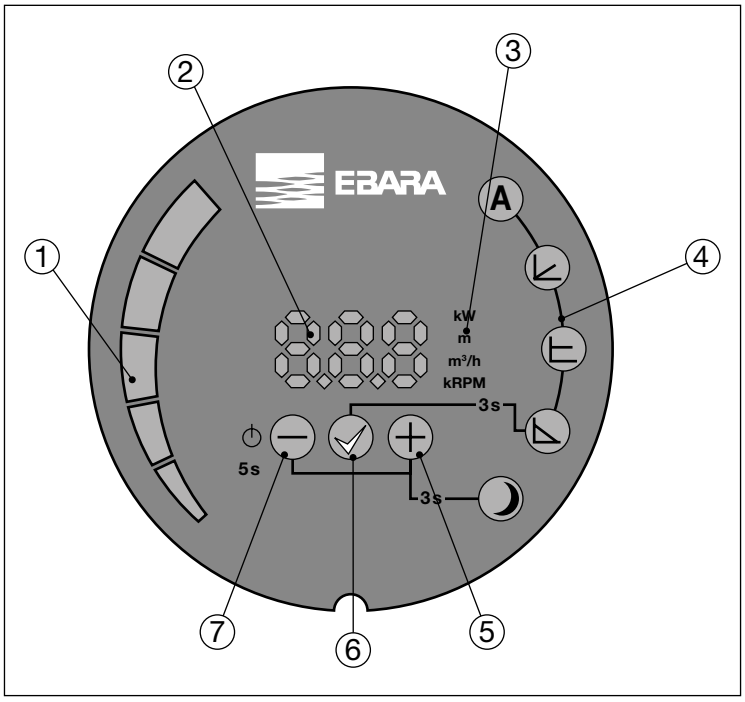


FLANGED CIRCULATORS

Ego (T) (C) *slim 40, 50*

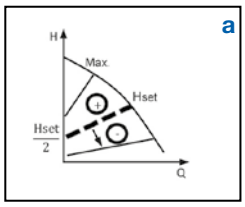
OPERATING MODES

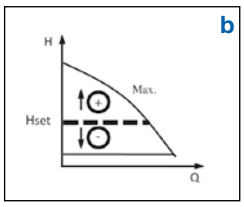
The operating modes can be selected with the buttons on the rear panel:

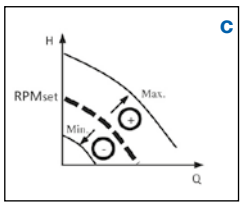


LEGEND

1 Segment display
2 Numerical display
3 Select parameter display
4 Selected mode display
5 Select key
6 Confirm key
7 Select key







AUTO mode (factory setting)
In this mode, the pump automatically regulates the hydraulic performance as a function of system demand, and continuously determines the optimal H/Q working point. This mode is suited to most applications and ensures excellent energy savings.

Proportional pressure (ΔP-v) - fig. a
The circulator regulates the head as a function of flow rate, varying it linearly from the maximum (H_{set}) to the minimum (= $H_{set}/2$). The pressure value (H_{set}) is set with the ⊕ and ⊖ buttons, and is expressed in metres; the minimum value is calculated automatically by the circulator.

Constant pressure (ΔP-c) - fig. b
The circulator holds the head constant as the flow rate varies. The pressure value (H_{set}) is set with the ⊕ and ⊖ buttons, and is expressed in metres.

Constant speed - fig. c
The circulator works with a constant curve, set with the ⊕ and ⊖ buttons (to select the speed in “rpm”).

Night mode
Night mode can be activated in combination with of the above modes, and runs the pump with a minimum curve (hence low consumption) when the fluid temperature diminishes by 15-20°C. When the temperature rises again, the normal curve is restored (depending on the selected mode).

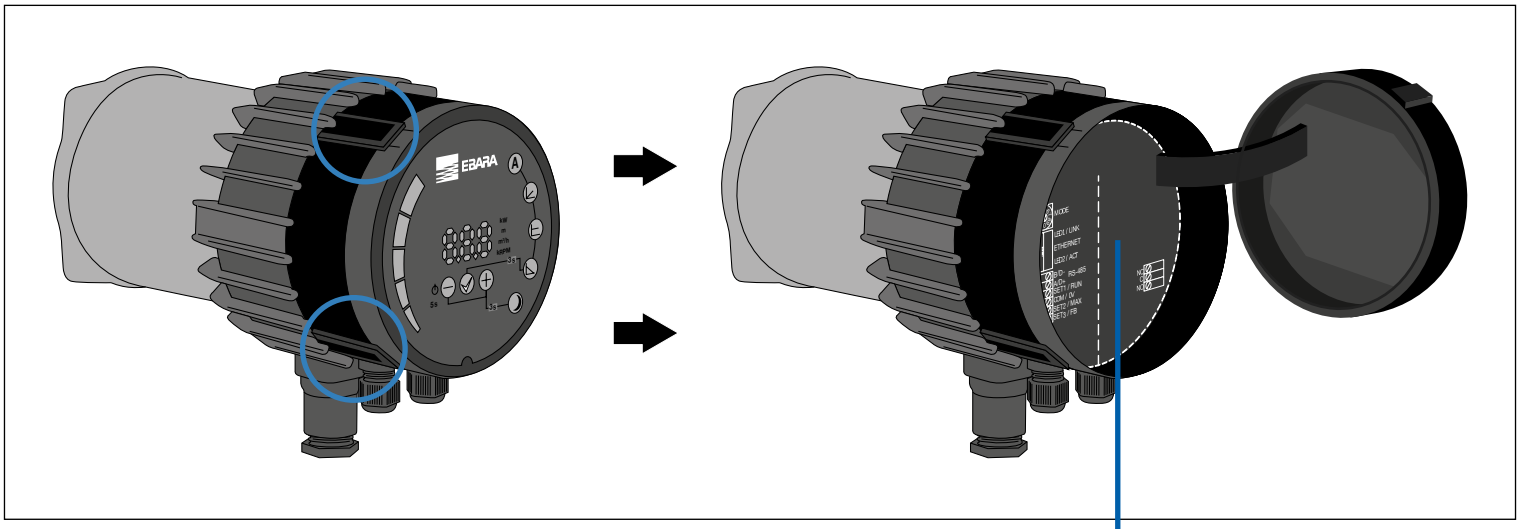
FLANGED CIRCULATORS

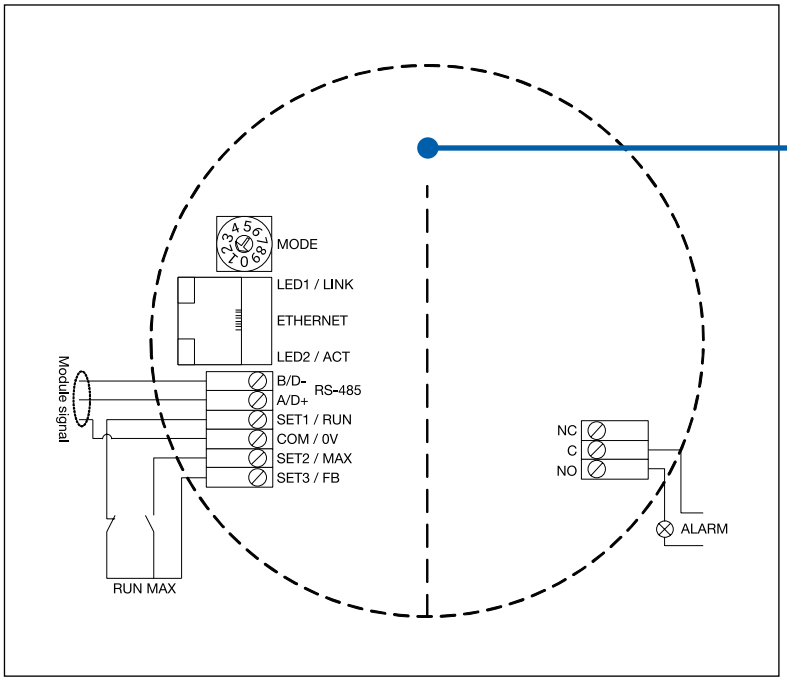
Ego (T) (C) *slim 40, 50*

COMMUNICATIONS MODULE

The twin versions **Ego T C slim** are equipped as standard supply with a supplementary communications module, which can be accessed by opening the rear display panel. The communications module is also available as a separate accessory, for single models.
The module offers a wide range of remote applications, including:

- **Ethernet access**
- **Remote On/Off**
- **0-10V analogue control**
- **Modbus RTU**
- **Alarm/status relays**

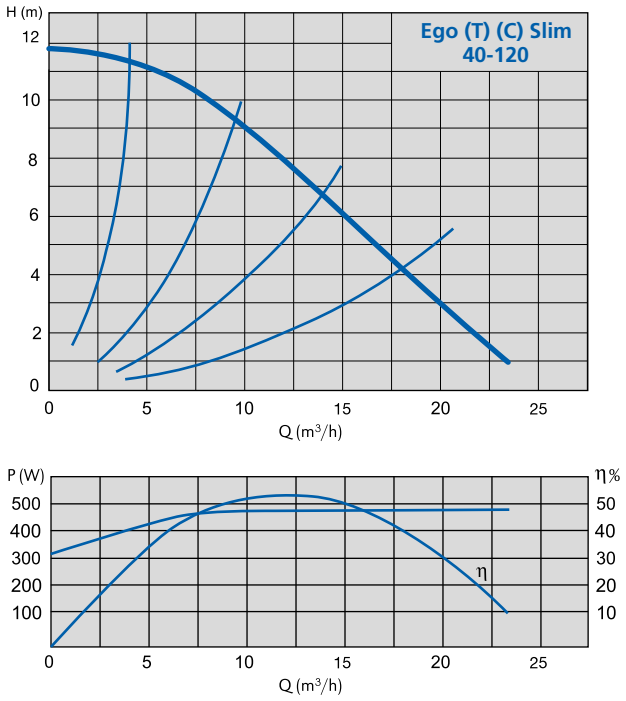


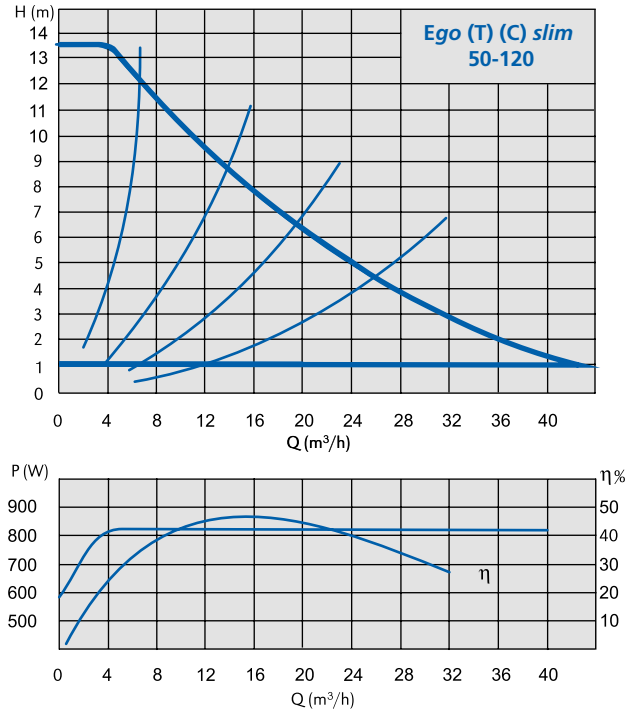


FLANGED CIRCULATORS

Ego (T) (C) slim 40, 50

PERFORMANCE CURVES



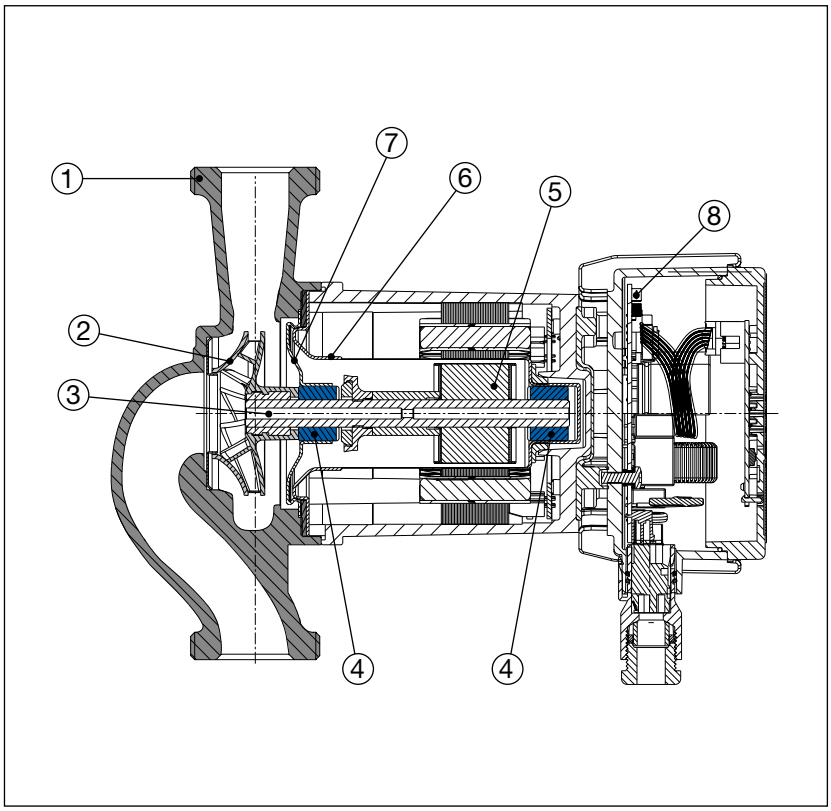


Ego slim

FLANGED CIRCULATORS

Ego (T) (C) *slim 40, 50*

SECTIONAL VIEW



MATERIALS TABLE

Ref.	Component	Material
1	Pump body	Cast iron with cataphoretic coating
2	Impeller	Stainless steel
3	Shaft	Stainless steel
4	Bearings	Graphite
5	Rotor	Coated in stainless steel
6	Pipe	AISI 316 stainless steel
7	Separator plate	AISI 316 stainless steel
8	Electronic board	-

TECHNICAL CHARACTERISTICS - single

Model	EEI (energy efficiency index)	Pump connection	Power P_1 [W] P_{max}	Current draw [A] I_{min} - I_{max}	Weight [kg]
Ego slim 40-120	≤ 0.21	DN 40	480	2.6 - 3.8	15.5
Ego slim 50-120	≤ 0.21	DN 50	800	-	20.1

TECHNICAL CHARACTERISTICS - twin

Model	EEI (energy efficiency index)	Pump connection	Power P_1 [W] P_{max}	Current draw [A] I_{min} - I_{max}	Weight [kg]
Ego TC *slim* 40-120	≤ 0.21	DN 40	480	2.6 - 3.8	29
Ego TC *slim* 50-120	≤ 0.21	DN 50	800	-	39.5

FLANGED CIRCULATORS

Ego (T) (C) *slim 40, 50*

DIMENSIONS - single

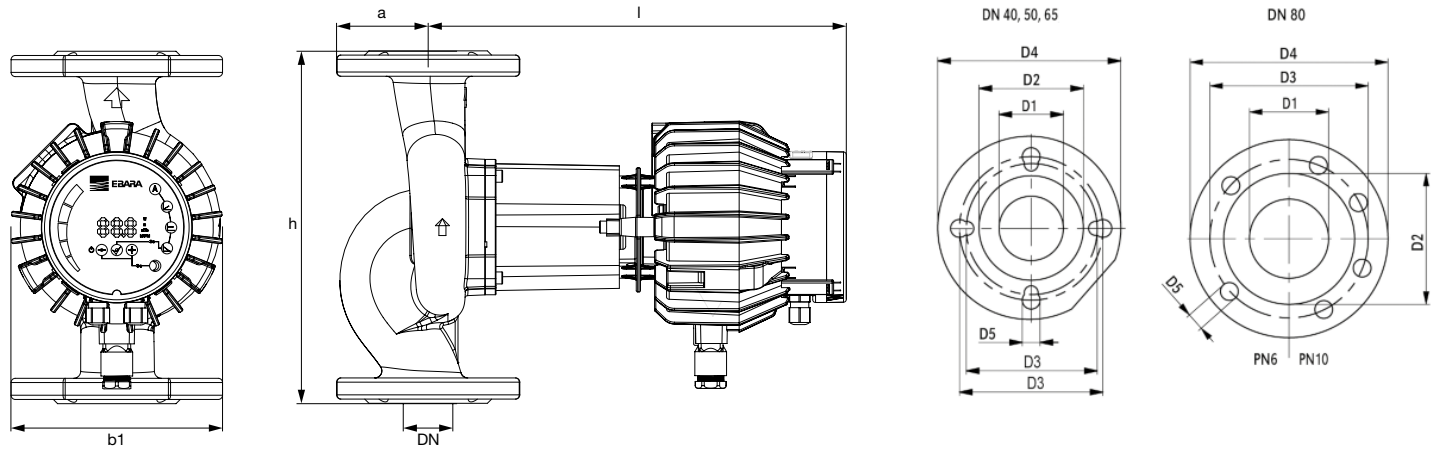
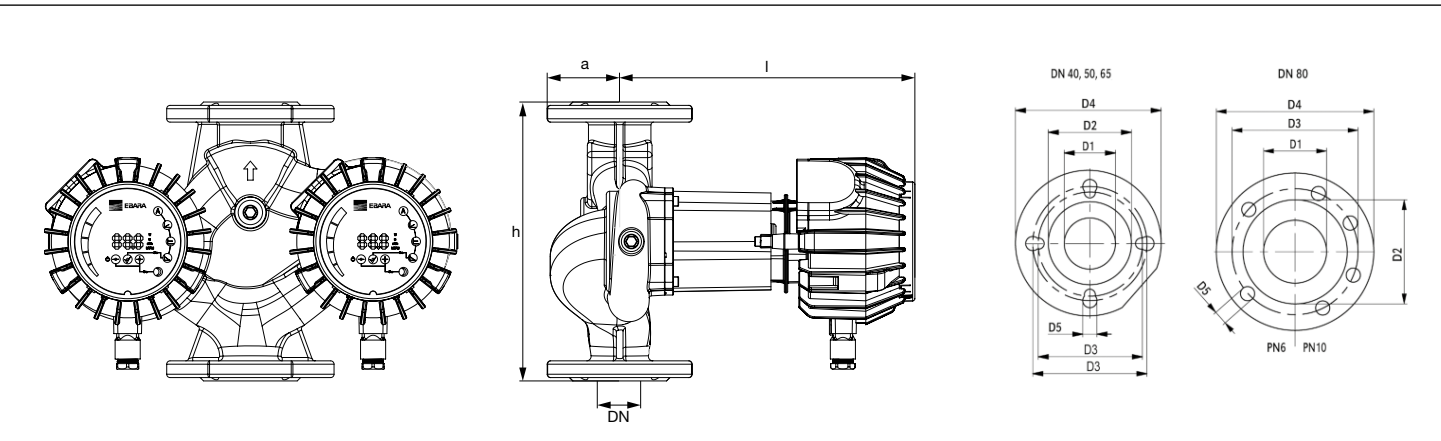


TABLE OF DIMENSIONS - single

Model	Dimensions [mm]										
	DN	b1	l	h	a	D1	D2	D3	D4	D5	n. holes
Ego slim 40-120	40	146	260 (292)*	250	65	40	80	110/110	150	14/19	4
Ego slim 50-120	50	146	260 (292)*	280		50	90	100/125	165	14/19	4

DIMENSIONS - twin



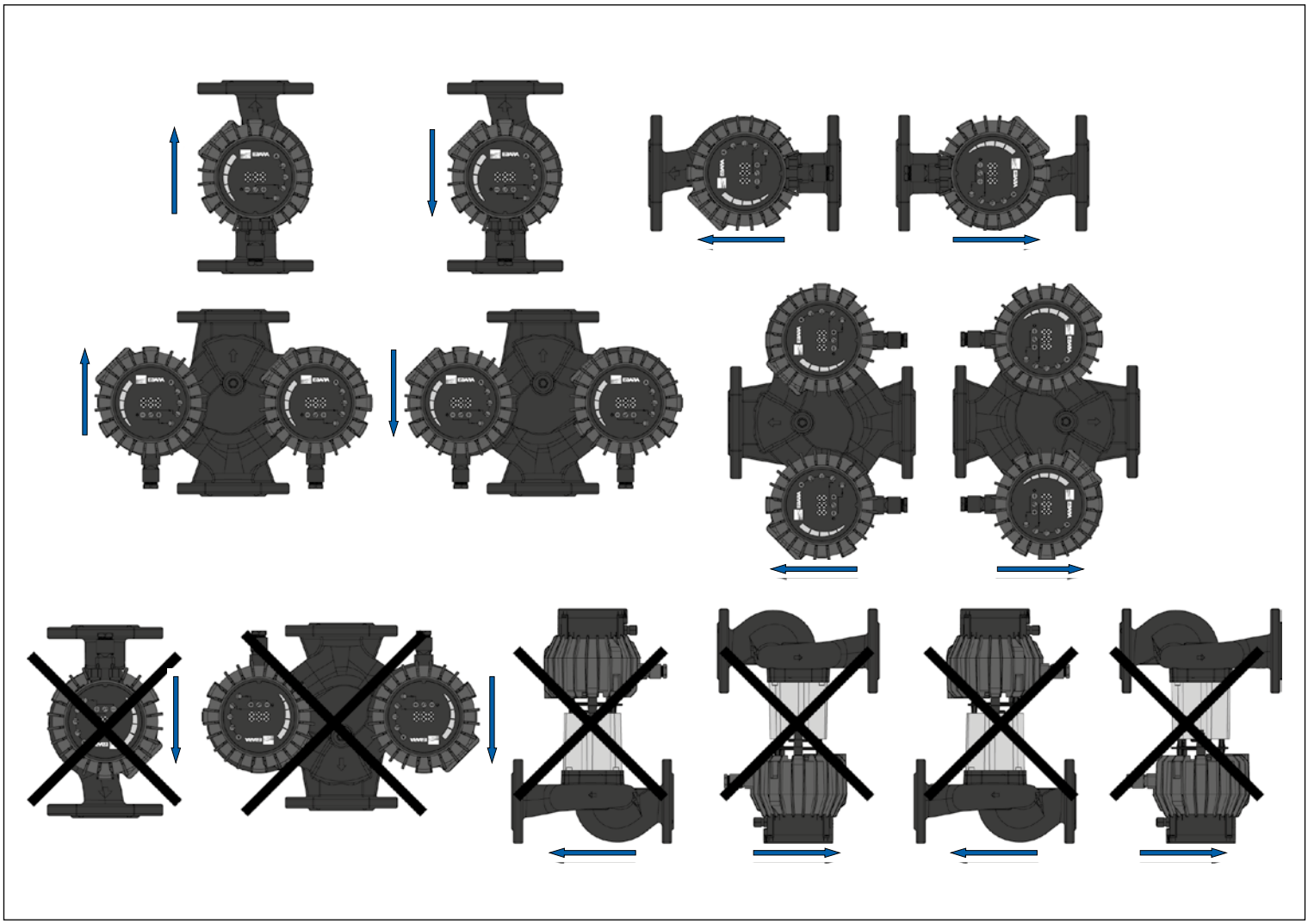
DIMENSIONS - twin

Model	Dimensions [mm]									
	DN	l	h	a	D1	D2	D3	D4	D5	n. holes
Ego TC *slim* 40-120	40	292	250	65	40	80	110/110	150	14/19	4
Ego TC *slim* 50-120	50	292	280	-	50	90	100/125	165	14/19	4

FLANGED CIRCULATORS

Ego (T) (C) slim 40, 50

MOUNTING POSITIONS



Ego

FLANGED CIRCULATORS (version 12 and 18 m)

Ego (T) C (H) single and twin

High efficiency wet rotor circulator pump with flanged fitting, permanent magnet motor and integrated electronic control.

APPLICATIONS

Collective and industrial heating and air conditioning systems

SPECIAL FEATURES

- Integrated frequency converter
- Four operating modes
- Numerical/graphic display for easy programming and parameter display
- Automatic air relief function
- Integrated overload protection
- High starting torque (automatically unlocks the rotor)
- Ethernet connection, digital inputs and output relays (standard)
- Integrated module C (communications), with Modbus protocol and 0-10V contact (both single and twin)

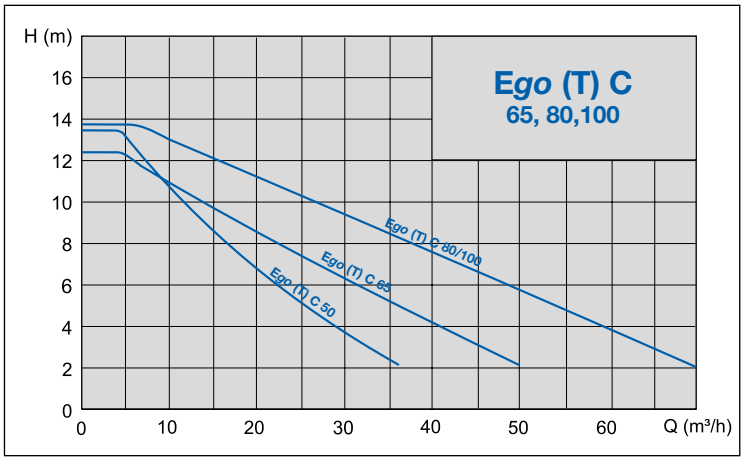
PUMP TECHNICAL DATA

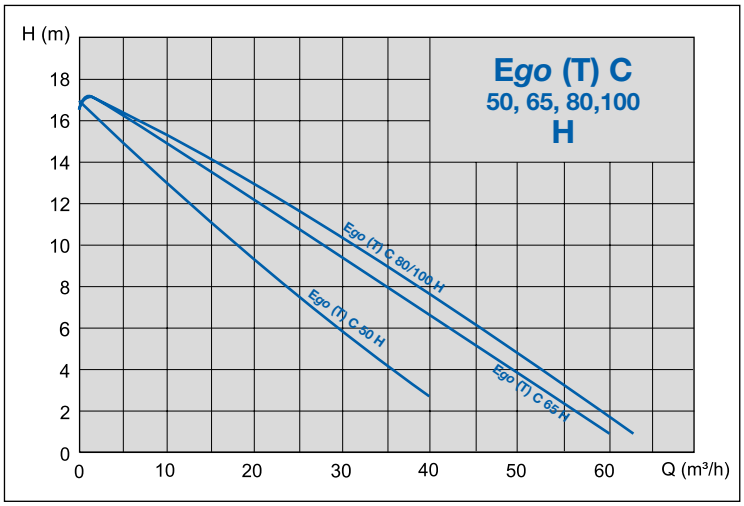
- Fluid temperature: -10 ÷ +110°C
- Ambient temperature: 0 ÷ +40°C
- Air relative humidity: ≤ 95%
- Admitted fluids: clean, non-aggressive and non-explosive fluids, with no solid particles or fibres
- Maximum pressure: 10 bar
- Minimum suction pressure:
  - 0.3 bar at 50°C
  - 1.1 bar at 80°C
  - 1.6 bar at 110°C
- Maximum glycol ratio: 20%*
- Flanged ports: DN 50 to DN 100
- Protection rating: IP44

MOTOR TECHNICAL DATA

- Type: synchronous, permanent magnet
- Rpm: variable
- Power supply: 1~230V
- Frequency: 50/60 Hz
- Insulation class: F

** For larger quantities, check the resulting viscosity and conditions of use.*





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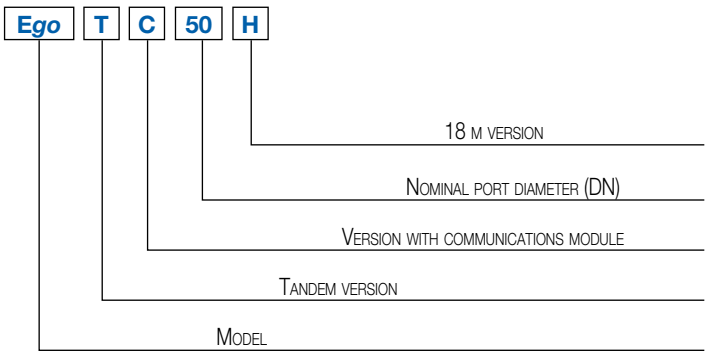
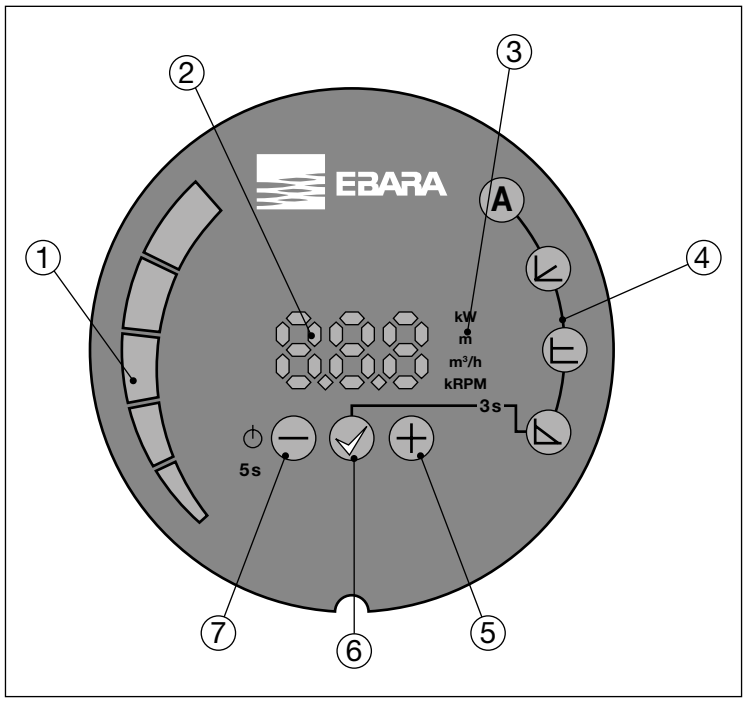


FLANGED CIRCULATORS (version 12 and 18 m)

Ego (T) C (H) single and twin

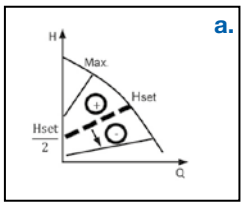
OPERATING MODES

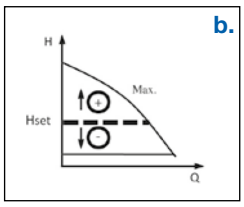
The operating modes can be selected with the buttons on the rear panel:

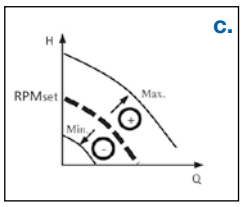


LEGEND

1 Segment display
2 Numerical display
3 Select parameter display
4 Selected mode display
5 Select key
6 Confirm key
7 Select key







AUTO mode (factory setting)

In this mode, the pump automatically regulates the hydraulic performance as a function of system demand, and continuously determines the optimal H/Q working point. This mode is suited to most applications and ensures excellent energy savings.

Proportional pressure (ΔP-v) - fig. a

The circulator regulates the head as a function of flow rate, varying it linearly from the maximum (H_{set}) to the minimum (= $H_{set}/2$). The pressure value (H_{set}) is set with the ⊕ and ⊖ buttons, and is expressed in metres; the minimum value is calculated automatically by the circulator.

Constant pressure (ΔP-c) - fig. b

The circulator holds the head constant as the flow rate varies. The pressure value (H_{set}) is set with the ⊕ and ⊖ buttons, and is expressed in metres.

Constant speed - fig. c

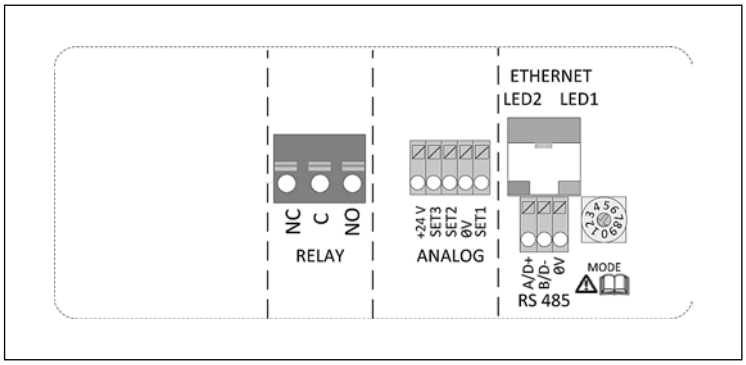
The circulator works with a constant curve, set with the ⊕ and ⊖ buttons (to select the speed in “rpm”).

REMOTE CONTROL

Standard configuration

The standard configuration for flanged *Ego* circulators includes:

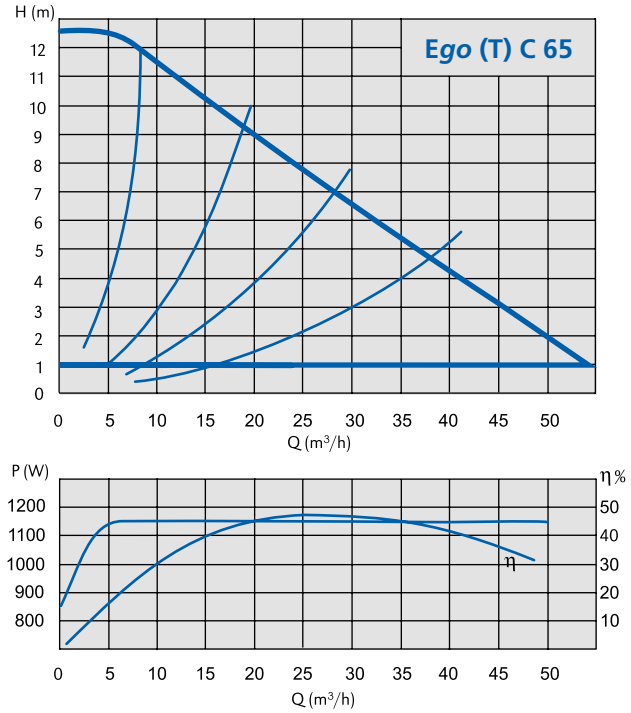
- Ethernet connection for remote control by PC
- Digital inputs
- Output relay
- 0-10V analogue control
- Modbus RTU

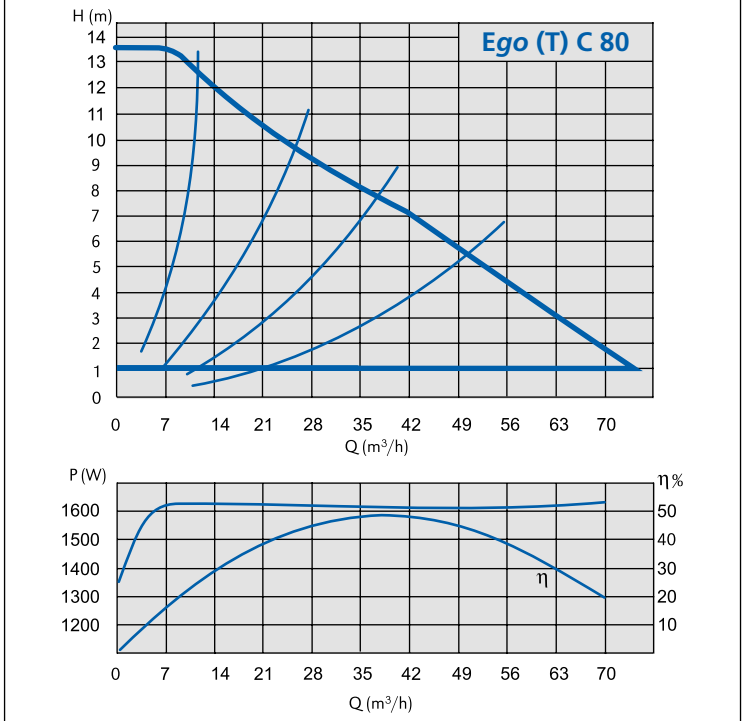


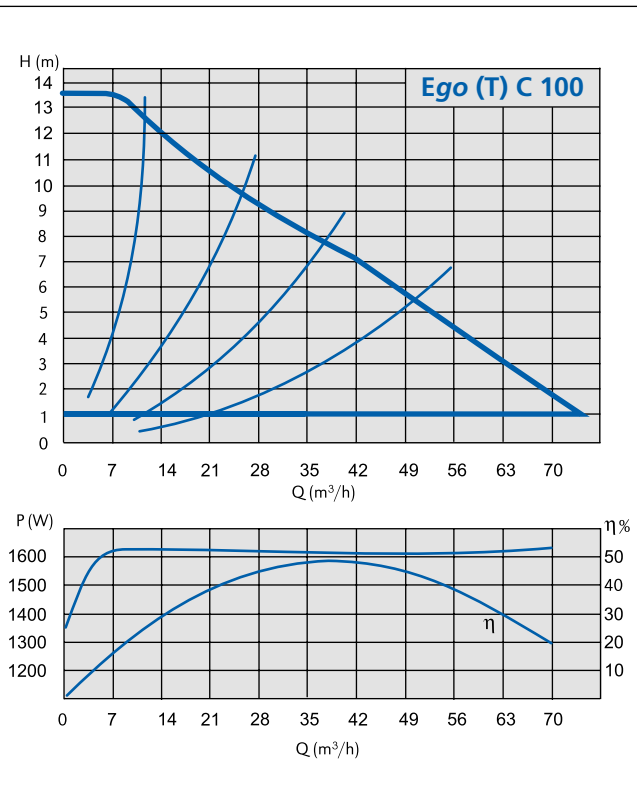
FLANGED CIRCULATORS (version 12 and 18 m)

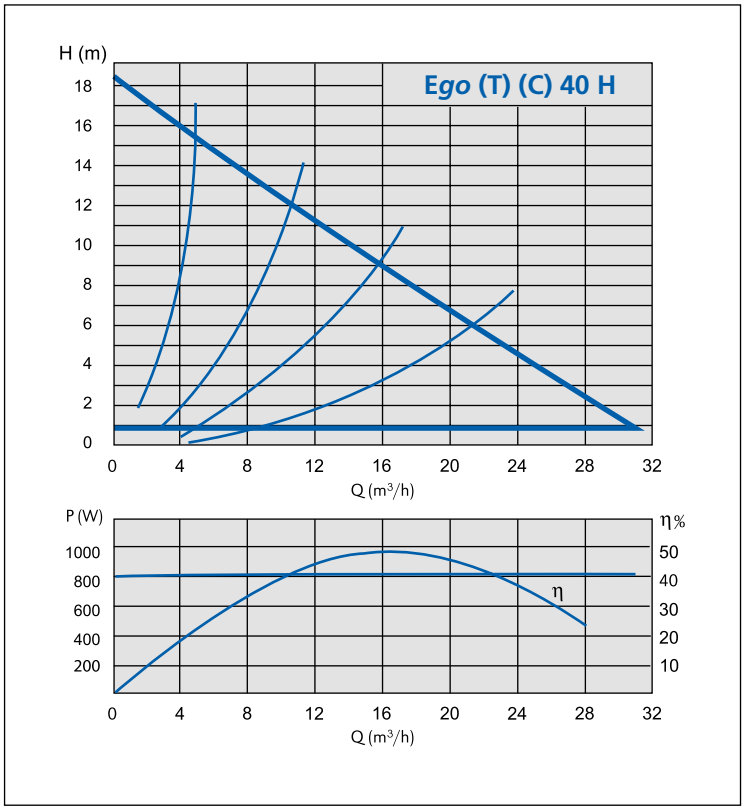
Ego (T) C (H) single and twin

PERFORMANCE CURVES





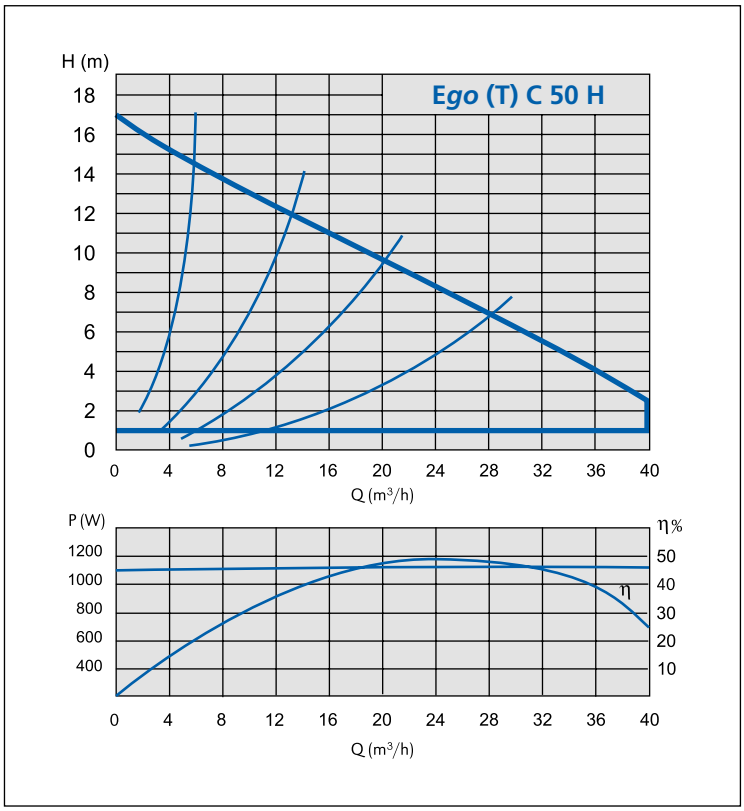


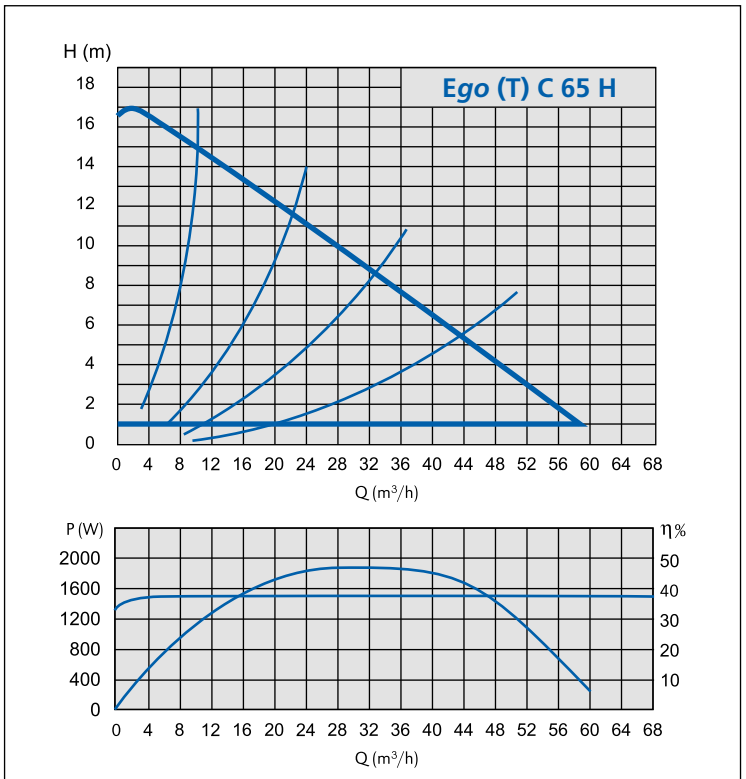


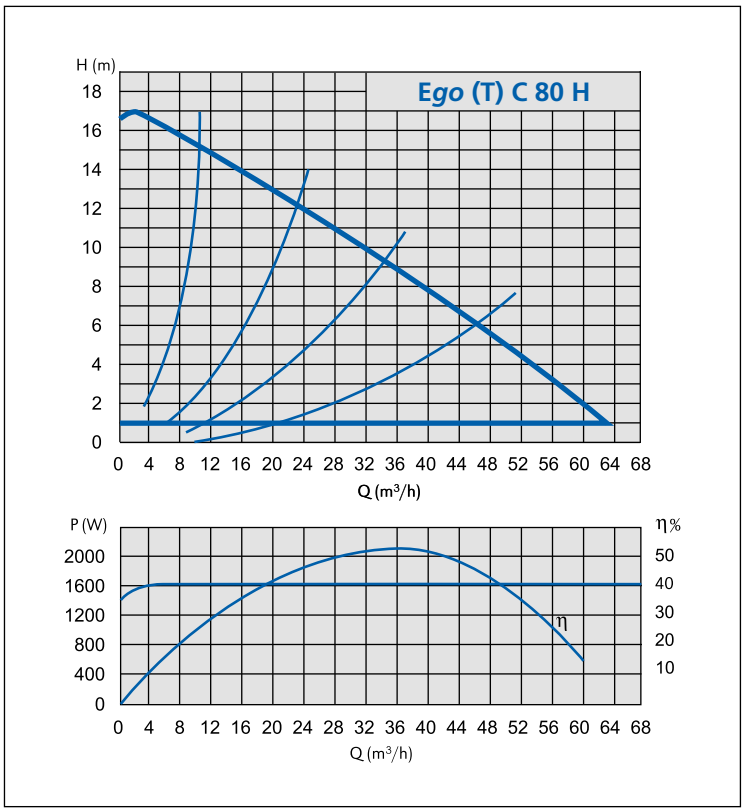
FLANGED CIRCULATORS (version 12 and 18 m)

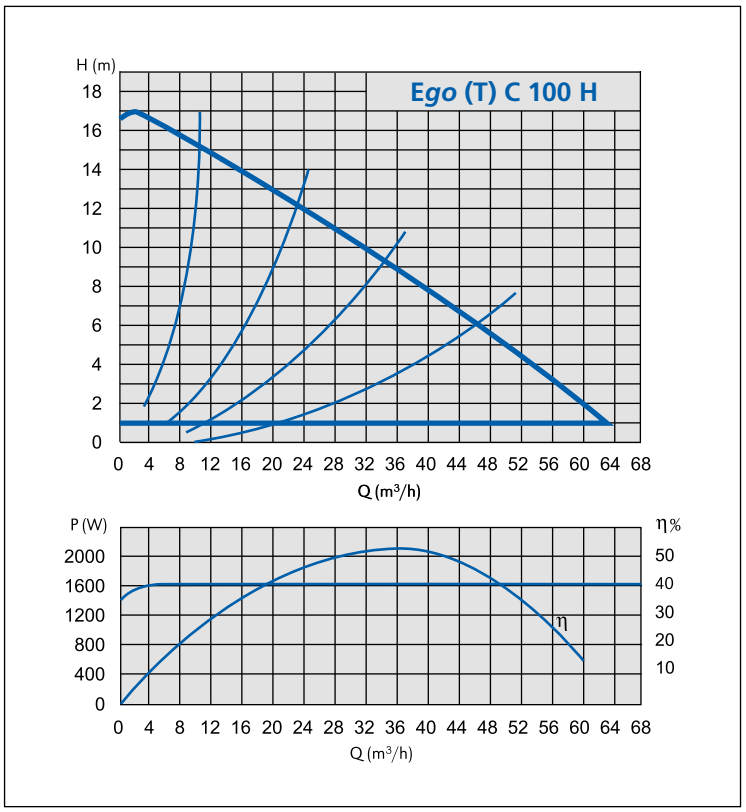
Ego (T) C (H) single and twin

PERFORMANCE CURVES





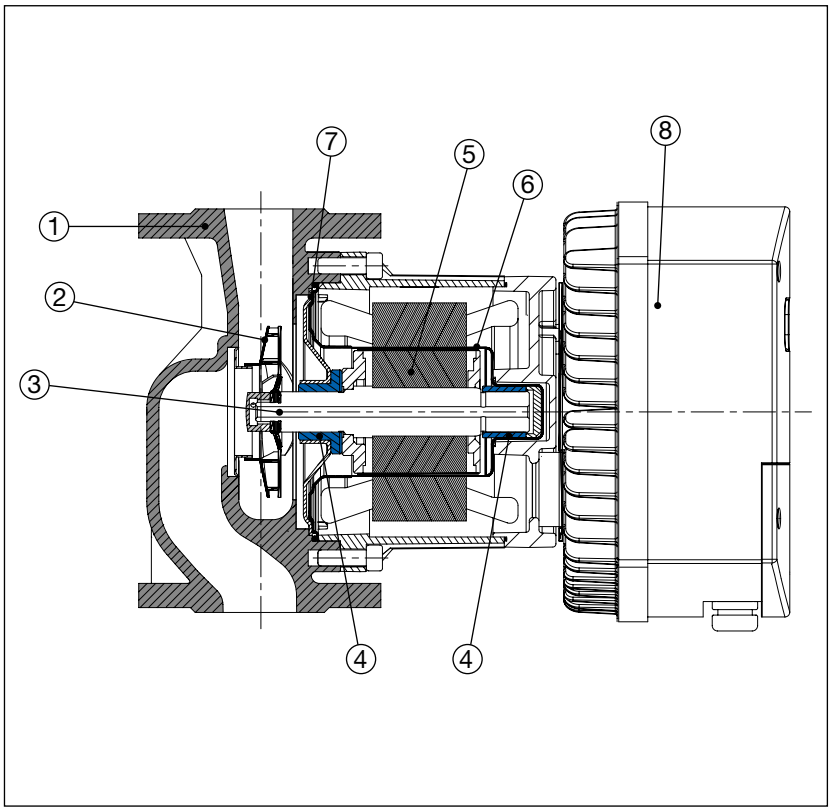




FLANGED CIRCULATORS (version 12 and 18 m)

Ego (T) C (H) single and twin

SECTIONAL VIEW



MATERIALS TABLE

Ref.	Component	Material
1	Pump body	Cast iron with cataphoretic coating
2	Impeller	Stainless steel
3	Shaft	Stainless steel
4	Bearings	Graphite
5	Rotor	Coated in stainless steel
6	Pipe	AISI 316 stainless steel
7	Separator plate	AISI 316 stainless steel
8	Electronic board	-

TECHNICAL CHARACTERISTICS - single

Model	EEI (energy efficiency index)	Pump connection	Power P_1 [W] P_{max}	Current draw [A] I_{min} - I_{max}	Weight [kg]
Ego C 40 H	≤ 0.23	DN40	500	2.2	24.3
Ego C 50 H	≤ 0.23	DN50	1100	4.8	30.0
Ego C 65	≤ 0.23	DN65	1100	4.8	36.0
Ego C 65 H	≤ 0.23	DN65	1500	6.7	39.0
Ego C 80	≤ 0.22	DN80	1600	6.9	42.0
Ego C 80 H	≤ 0.23	DN80	1600	7.3	41.0
Ego C 100	≤ 0.22	DN100	1600	6.9	46.0
Ego C 100 H	≤ 0.23	DN100	1600	7.2	45.0

TECHNICAL CHARACTERISTICS - twin

Model	EEI (energy efficiency index)	Pump connection	Power P_1 [W] P_{max}	Current draw [A] I_{min} - I_{max}	Weight [kg]
Ego TC 40 H	≤ 0.23	DN40	500	2.2	47.0
Ego TC 50 H	≤ 0.23	DN50	1100	4.8	60.0
Ego TC 65	≤ 0.22	DN65	1100	4.8	66.0
Ego TC 65 H	≤ 0.23	DN65	1500	6.7	74.0
Ego TC 80	≤ 0.22	DN80	1600	6.9	77.0
Ego TC 80 H	≤ 0.23	DN80	1600	7.3	77.0

FLANGED CIRCULATORS (version 12 and 18 m)

Ego (T) C (H) single and twin

DIMENSIONS - single

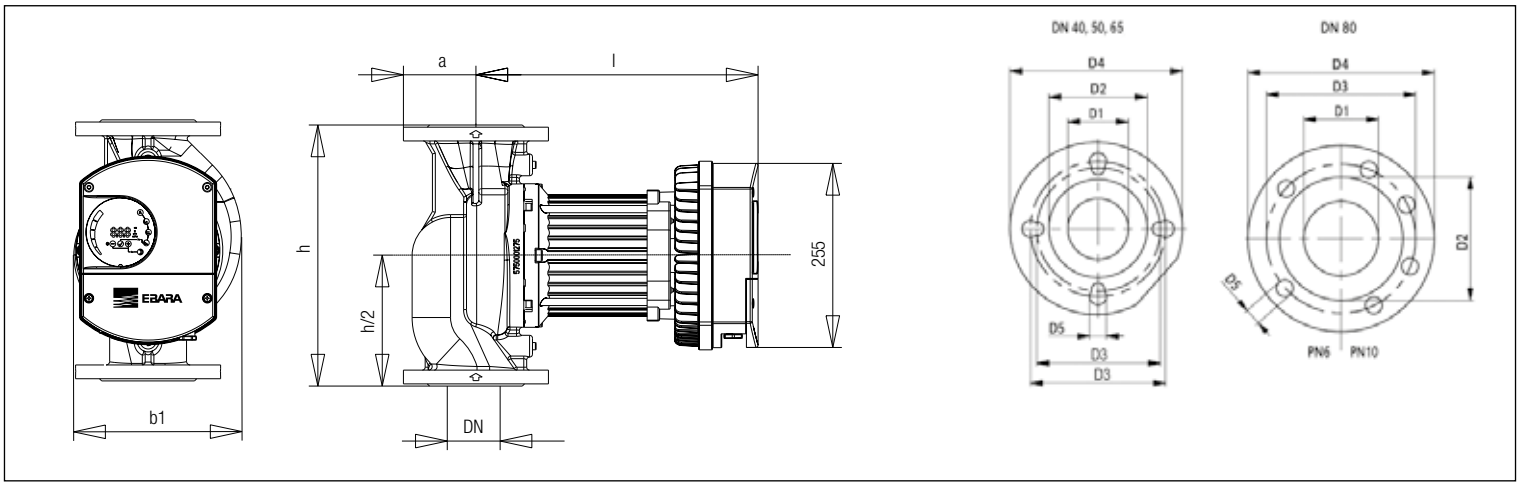


TABLE OF DIMENSIONS - single

Model	Dimensions [mm]												n. holes
	DN	b1	b4	l	h	h1	a	D1	D2	D3	D4	D5	
Ego C 40 H	40	198	-	355	250	-	65	40	80	100/110	150	14/19	4
Ego C 50 H	50	200	-	355	280	-	70	50	90	100/125	165	14/19	4
Ego C 65	65	222	-	369	340	-	80	65	110	130/145	185	14/19	4
Ego C 65 H	65	222	-	403	340	-	80	65	110	130/145	185	14/19	4
Ego C 80	80	230	-	403	360	-	100	80	128	160	200	19	8
Ego C 80 H	80	230	-	403	360	-	100	80	128	160	200	19	8
Ego C 100	100	230	-	403	360	-	110	100	-	180	220	19	8
Ego C 100 H	100	230	-	403	360	-	110	100	140	180	220	19	8

DIMENSIONS - twin

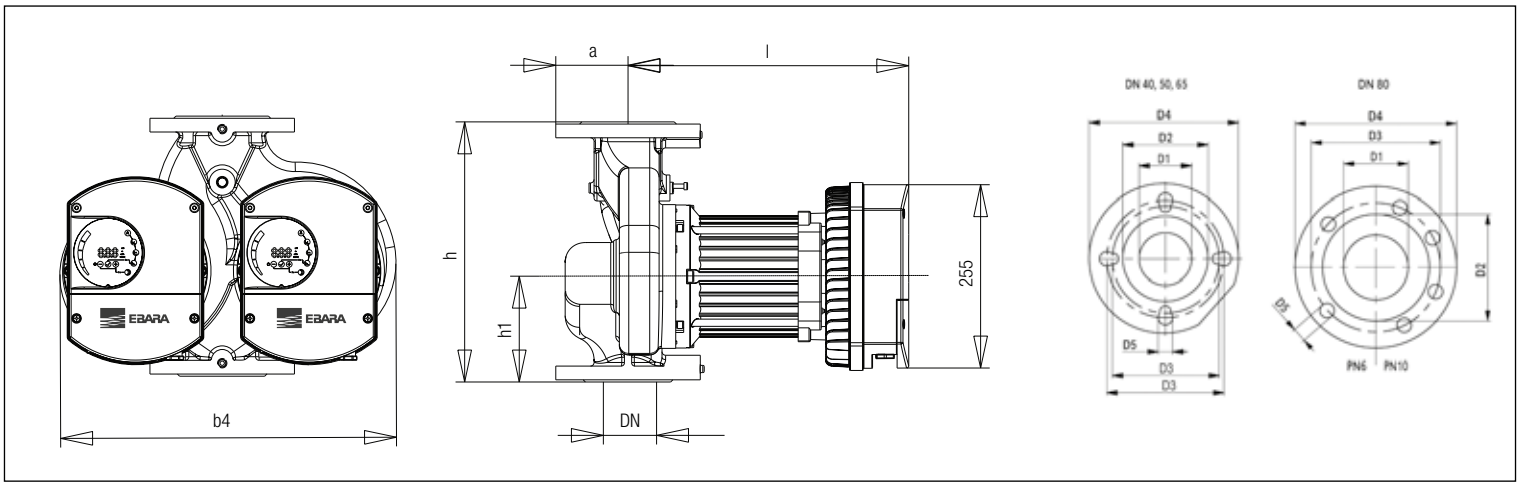


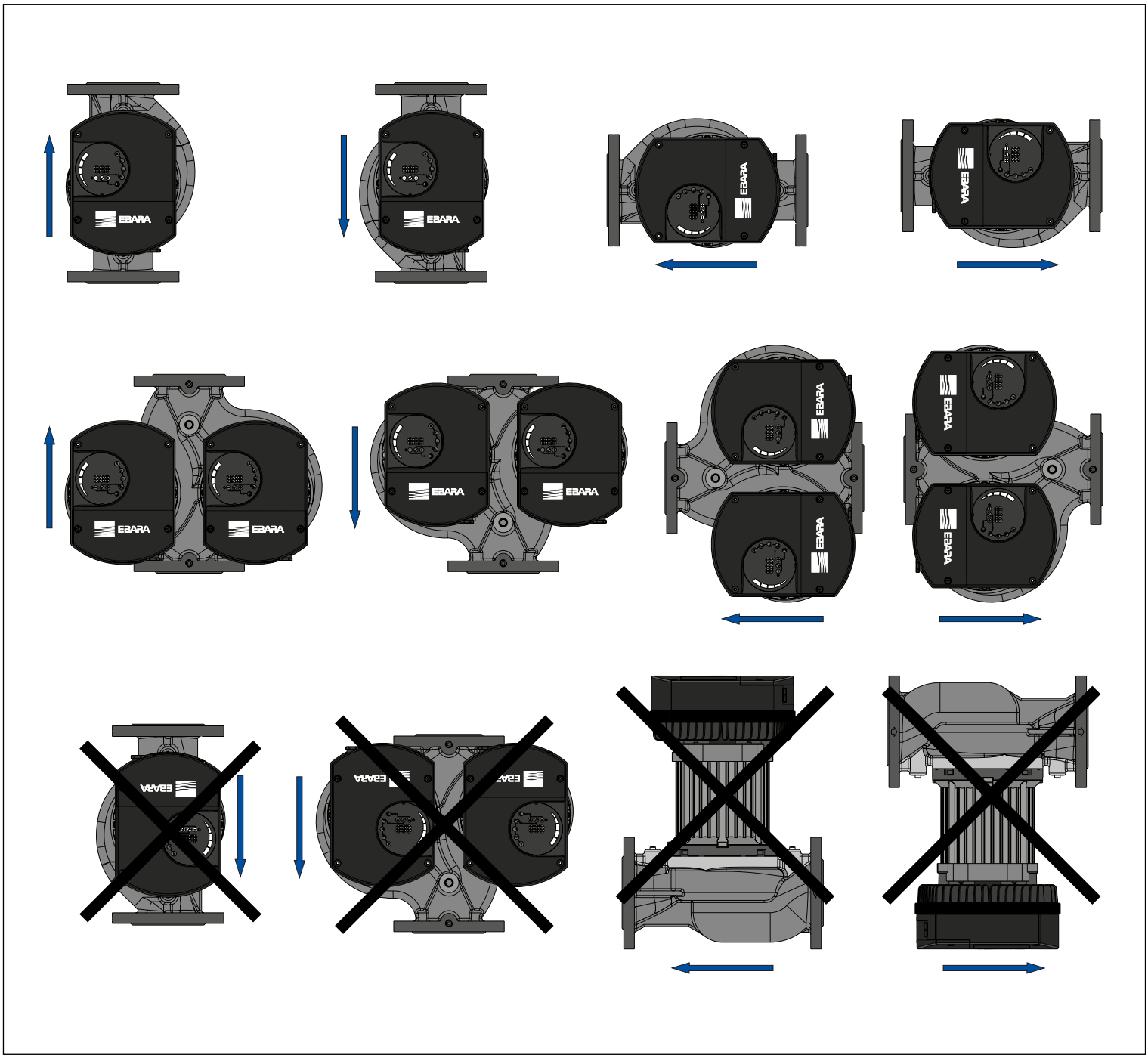
TABLE OF DIMENSIONS - twin

Model	Dimensions [mm]												n. holes
	DN	b1	b4	l	h	h1	a	D1	D2	D3	D4	D5	
Ego TC 40 H	40	-	403	355	250	110	65	40	80	100/110	150	14/19	4
Ego TC 50 H	50	-	403	355	280	121	70	50	90	100/125	165	14/19	4
Ego TC 65	65	-	452	369	340	141	80	65	110	130/145	185	14/19	4
Ego TC 65 H	65	-	452	403	340	141	80	65	110	130/145	185	14/19	4
Ego TC 80	80	-	462	403	360	146	100	80	128	160	200	19	8
Ego TC 80 H	80	-	462	403	360	146	100	80	128	160	200	19	8

FLANGED CIRCULATORS (version 12 and 18 m)

Ego (T) C (H) single and twin

MOUNTING POSITIONS



Ego B

THREADED/FLANGED CIRCULATORS

Ego B - Ego B easy

Ego B threaded

Ego B easy

Ego B flanged

High efficiency wet rotor circulator pump for domestic water applications, with bronze body, threaded or flanged fittings, permanent magnet motor and integrated electronic control.

APPLICATIONS

- Small and medium size domestic water applications
- Collective domestic water applications

SPECIAL FEATURES

- Integrated frequency converter
- Numerical/graphic display for easy programming and parameter display
- Automatic air relief function
- Integrated overload protection
- High starting torque (unlocking function)
- Option of four different operating modes (automatic, constant speed, variable Δp, constant Δp) and night mode*
- Integrated functions including remote control (with ON/OFF contact) and supervision (with output relay)**

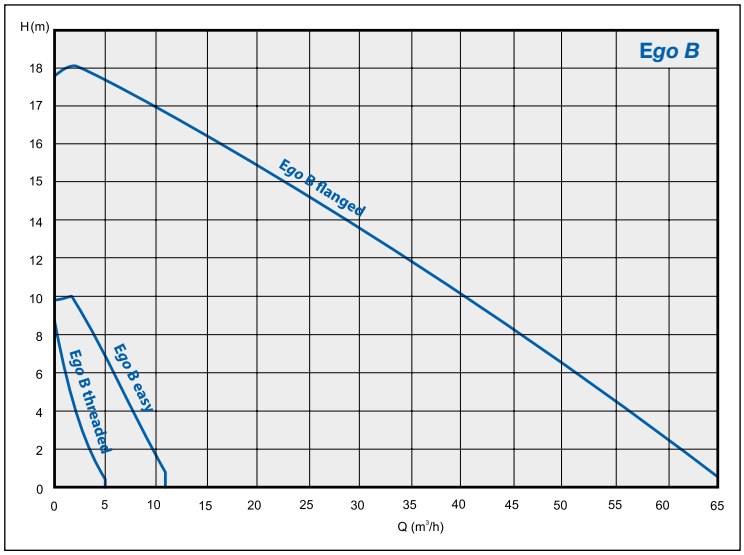
* *Ego B easy and flanged Ego B models only*
** *With supplementary module C for Ego B easy, standard for flanged Ego B models*

PUMP TECHNICAL DATA

- Fluid temperature: +5°C ÷ +65°C
- Ambient temperature: 0 ÷ +40°C
- Air relative humidity: ≤ 95%
- Admitted fluids: clean, non-aggressive and non-explosive fluids, with no solid particles or fibres
- Maximum pressure: 10 bar
- Minimum suction pressure:
  - 0.05 bar at 50°C
  - 0.8 bar at 80°C
  - 1.4 bar at 110°C
- Threaded ports G 1½ (per ISO 228)
- Flanged ports: DN 40 to DN 65
- Protection rating: IP44

MOTOR TECHNICAL DATA

- Type: synchronous, permanent magnet
- Rpm: variable
- Power supply: 1~230V
- Frequency: 50/60 Hz
- Insulation class: F



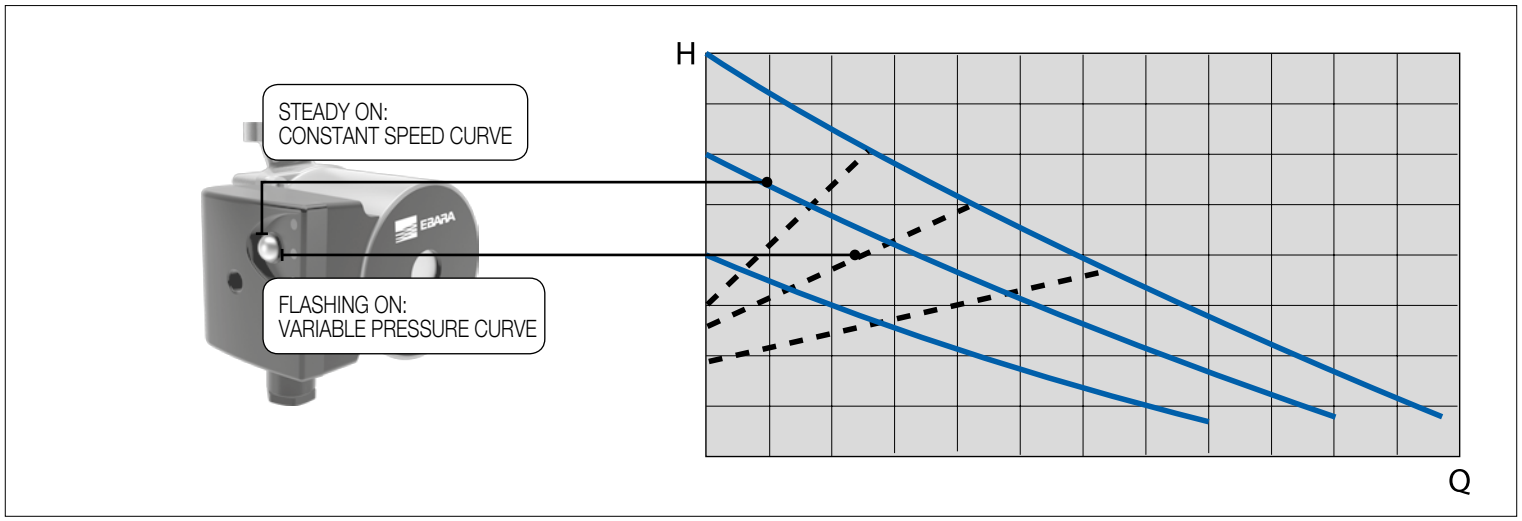
IDENTIFICATION CODE

Ego | B | 25 | / | 100

- 100 — Maximum head (dm)
- 25 — Nominal port diameter (threaded or flanged)
- B — Version with bronze body
- Ego — Model

OPERATING MODES - *Ego* B threaded

Two operating modes, selectable with the lamp button on the terminal block box:



- **ΔP-v Proportional pressure (factory setting)**
  This range of circulators can work in **variable pressure mode with 3 preset curves.** When this mode is active, **the lamp button flashes** at a speed which depends on the instantaneous flow rate. **The colour of the lamp identifies the curve** (blue for the lowest curve, green for the intermediate curve and yellow for the highest curve); to switch between curves, simply press the button briefly.

From variable pressure mode (led flashing) you can switch to constant speed mode (lamp steady on) by holding the lamp button down for at least 5 seconds.

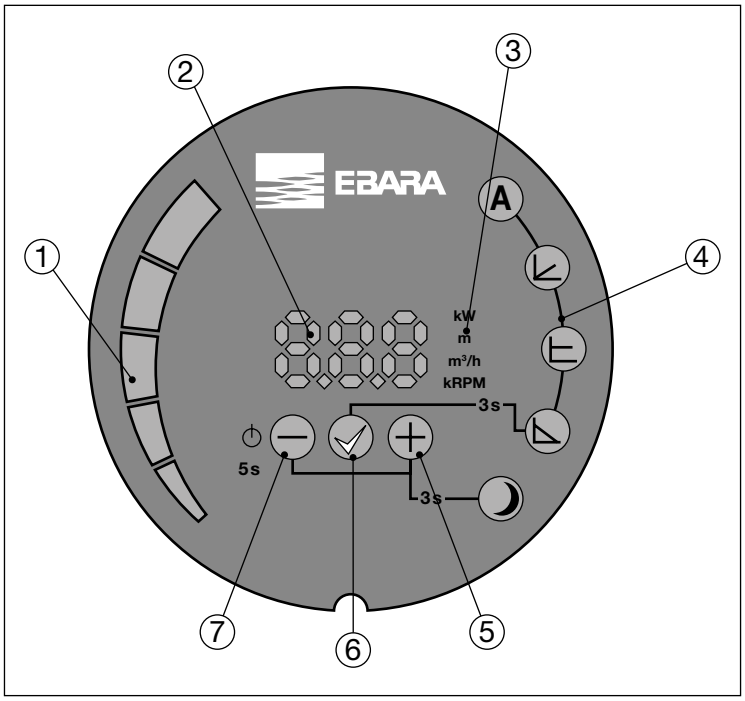
- **Constant speed**
  This range of circulators can work in **constant speed mode with 3 preset curves.** In this case the pump acts as a normal pump without regulation and its power draw is constant. When this mode is active, **the lamp remains steady on;** in this case too, the **colour of the led identifies the curve** (blue for the lowest curve, green for the intermediate curve and yellow for the highest curve). To switch between curves, press the lamp button briefly (thus returning to variable press mode), select the curve (with the colour of the led), and then hold the button down again for a few seconds.

THREADED/FLANGED CIRCULATORS

Ego B - Ego B easy

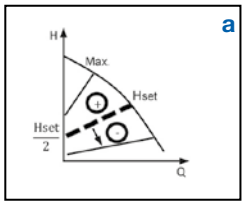
OPERATING MODES - *Ego* B easy/*Ego* B flanged

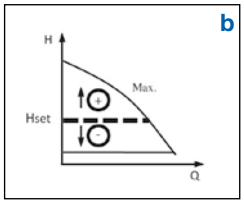
The operating modes can be selected with the buttons on the rear panel:

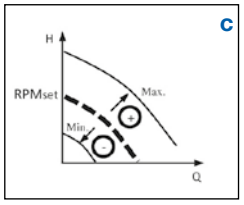


LEGEND

1 Segment display
2 Numerical display
3 Select parameter display
4 Selected mode display
5 Select key
6 Confirm key
7 Select key







A **AUTO mode (factory setting)**

In this mode, the pump automatically regulates the hydraulic performance as a function of system demand, and continuously determines the optimal H/Q working point. This mode is suited to most applications and ensures excellent energy savings.

Proportional pressure (ΔP-v) - fig. a

The circulator regulates the head as a function of flow rate, varying it linearly from the maximum (H_{set}) to the minimum (= $H_{set}/2$). The pressure value (H_{set}) is set with the ⊕ and ⊖ buttons, and is expressed in metres; the minimum value is calculated automatically by the circulator.

Constant pressure (ΔP-c) - fig. b

The circulator holds the head constant as the flow rate varies. The pressure value (H_{set}) is set with the ⊕ and ⊖ buttons, and is expressed in metres.

Constant speed - fig. c

The circulator works with a constant curve, set with the ⊕ and ⊖ buttons (to select the speed in “rpm”).

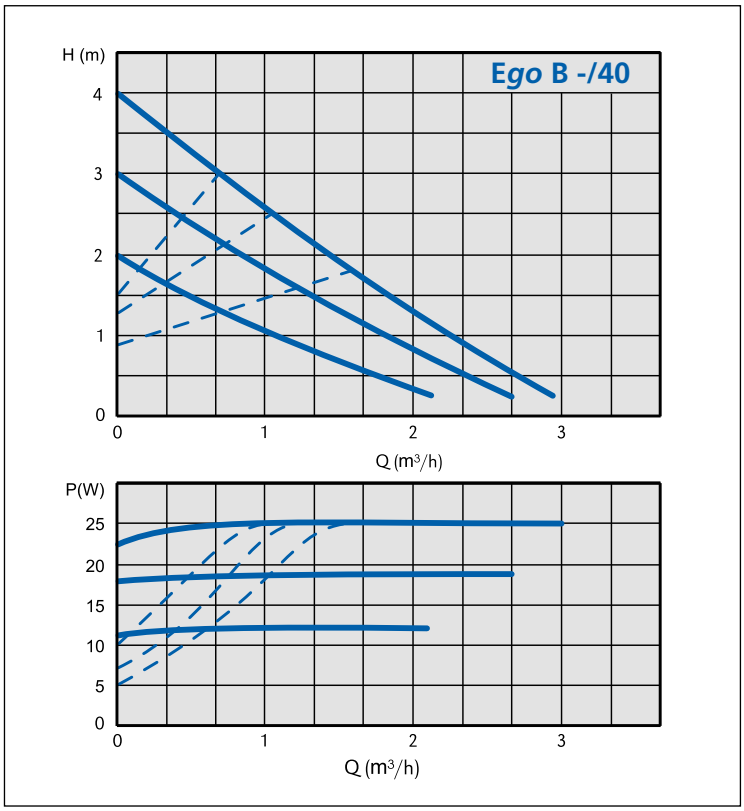
Night mode

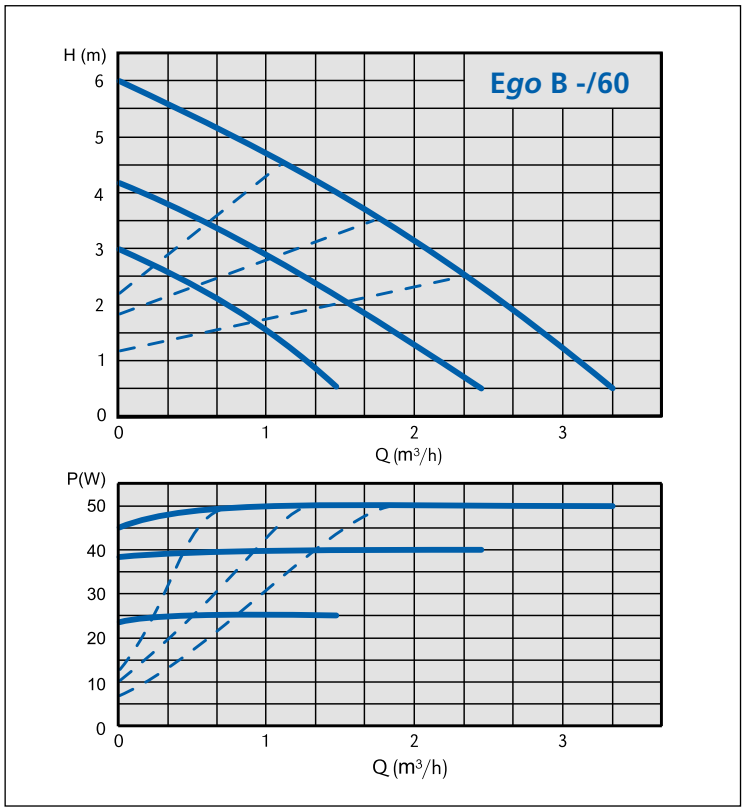
Night mode can be activated in combination with of the above modes, and runs the pump with a minimum curve (hence low consumption) when the fluid temperature diminishes by 15-20°C. When the temperature rises again, the normal curve is restored (depending on the selected mode).

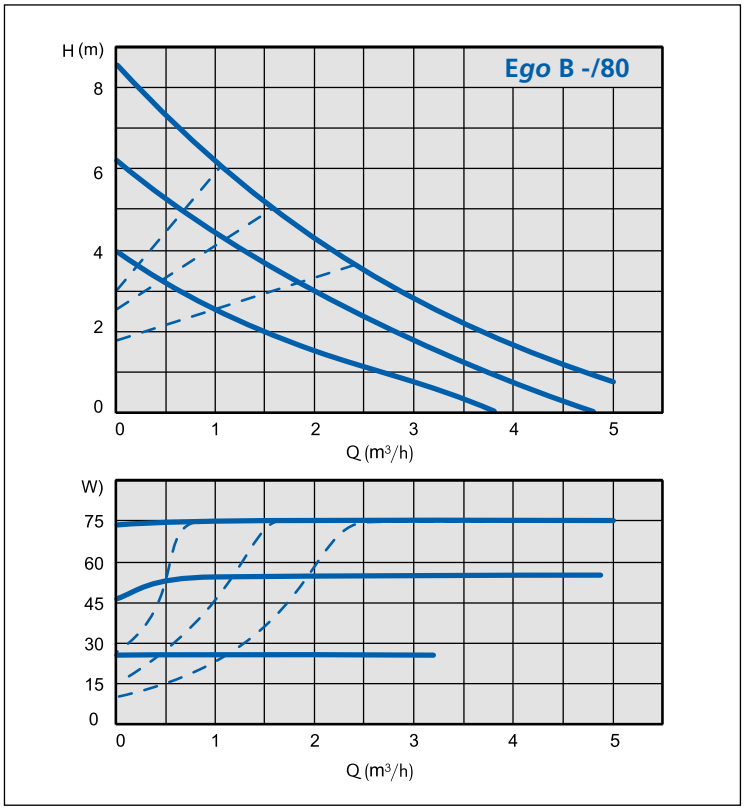
THREADED/FLANGED CIRCULATORS

Ego B - Ego B easy

PERFORMANCE CURVES - Ego B threaded



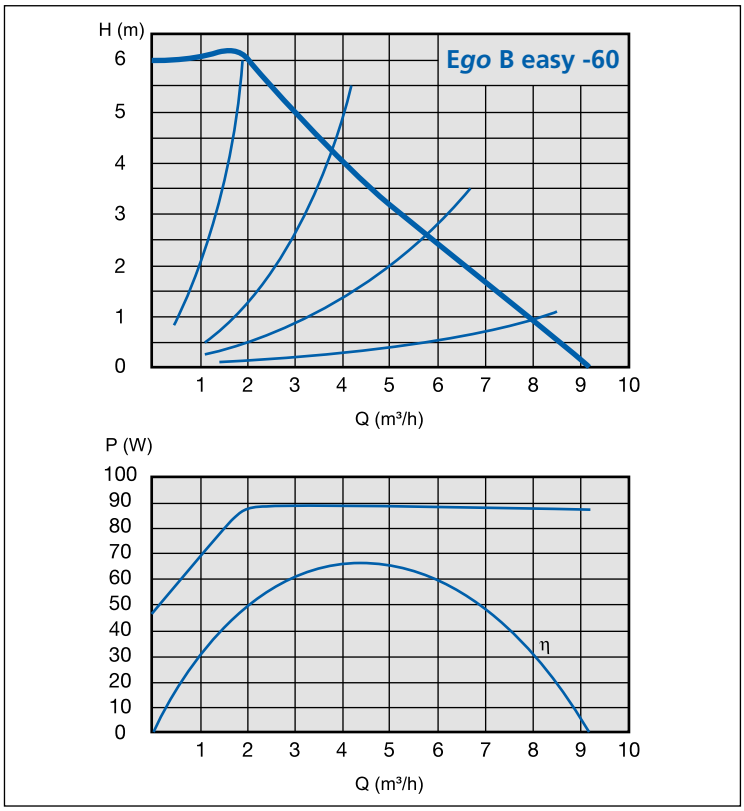


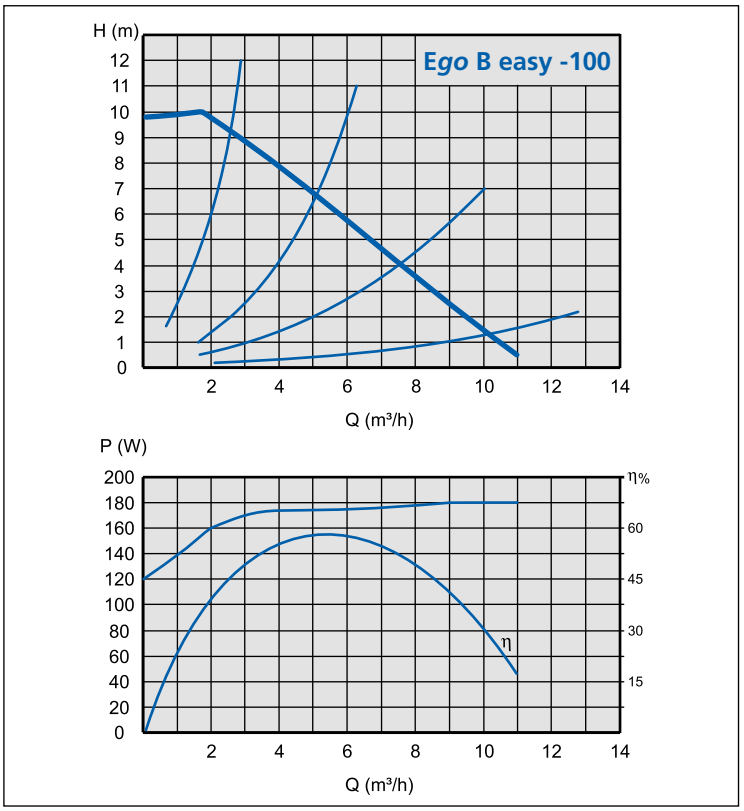


THREADED/FLANGED CIRCULATORS

Ego B - Ego B easy

PERFORMANCE CURVES - Ego B easy

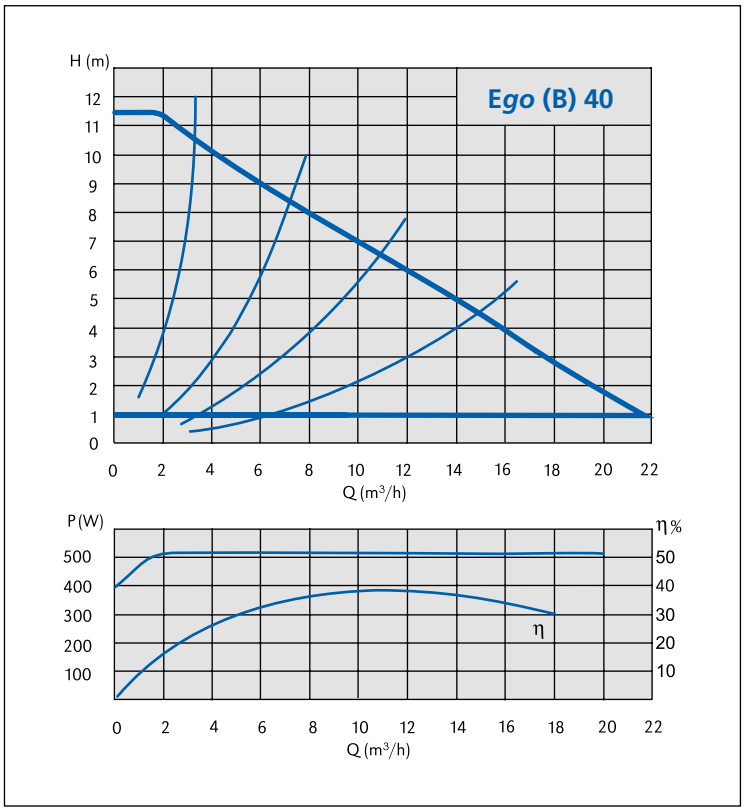


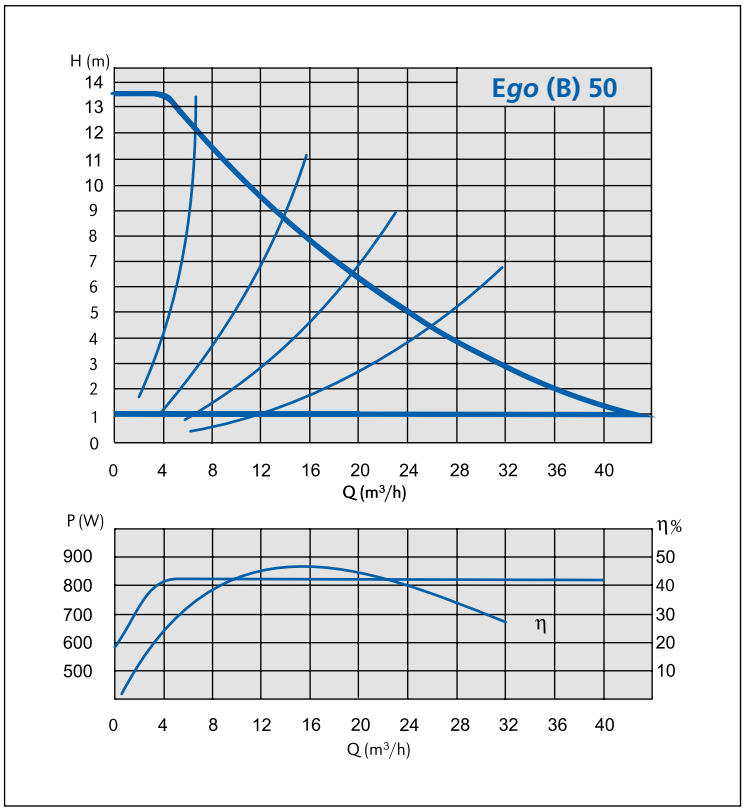


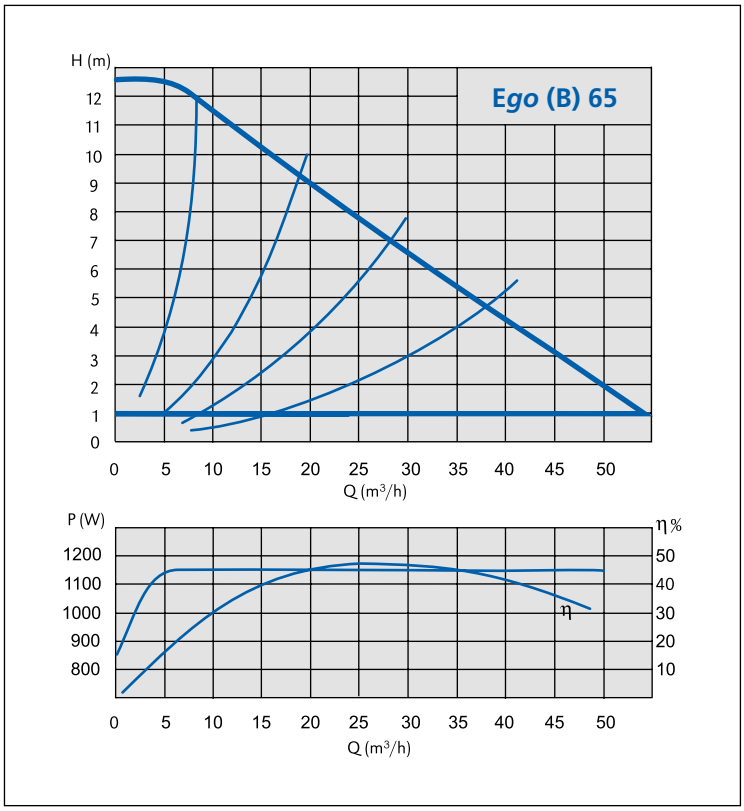
THREADED/FLANGED CIRCULATORS

Ego B - Ego B easy

PERFORMANCE CURVES - Ego B flanged





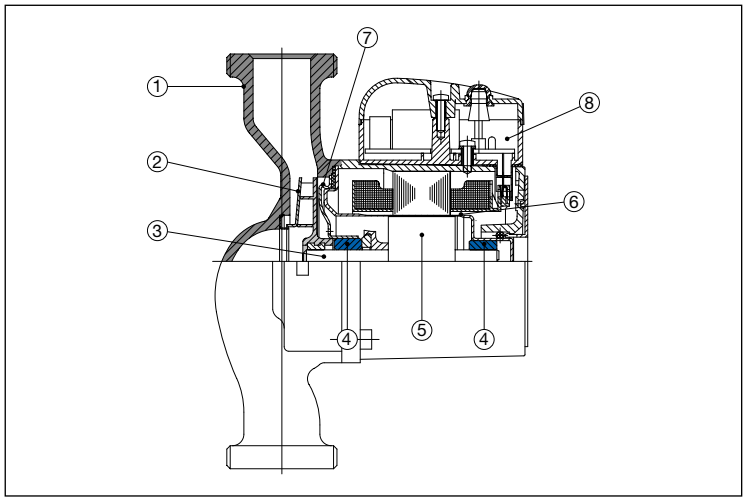


Ego B

THREADED/FLANGED CIRCULATORS

Ego B - Ego B easy

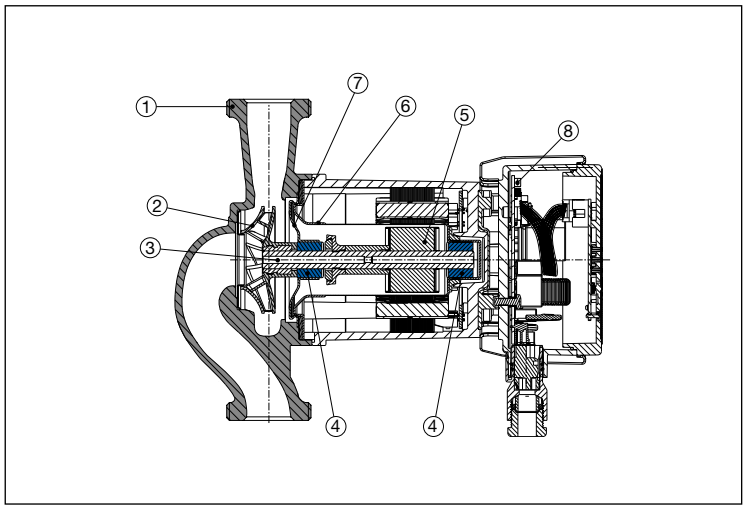
SECTIONAL VIEW - *Ego* B threaded



MATERIALS TABLE

Ref.	Component	Material
1	Pump body	Bronze
2	Impeller	Technopolymer
3	Shaft	Ceramic
4	Bearings	Ceramic
5	Rotor	Coated in stainless steel
6	Pipe	AISI 316 stainless steel
7	Separator plate	AISI 316 stainless steel
8	Electronic board	-

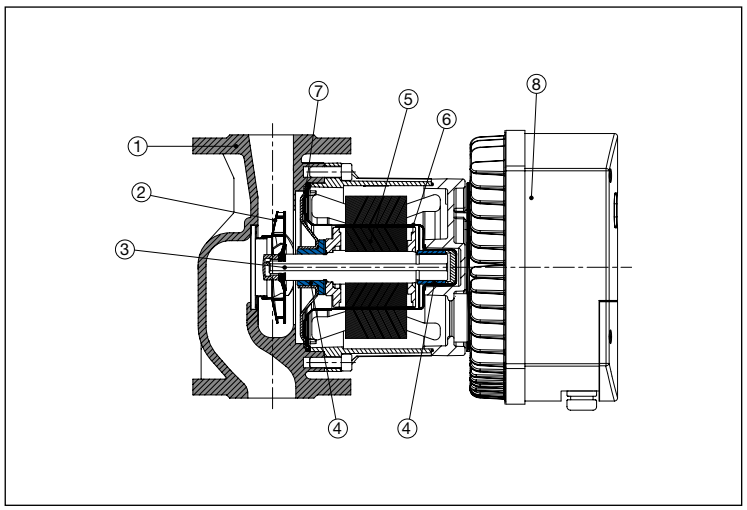
SECTIONAL VIEW - *Ego* B easy



MATERIALS TABLE

Ref.	Component	Material
1	Pump body	Bronze
2	Impeller	Technopolymer
3	Shaft	Stainless steel
4	Bearings	Graphite
5	Rotor	Coated in stainless steel
6	Pipe	AISI 316 stainless steel
7	Separator plate	AISI 316 stainless steel
8	Electronic board	-

SECTIONAL VIEW - *Ego* B flanged



MATERIALS TABLE

Ref.	Component	Material
1	Pump body	Bronze
2	Impeller	Stainless steel
3	Shaft	Stainless steel
4	Bearings	Graphite
5	Rotor	Coated in stainless steel
6	Pipe	AISI 316 stainless steel
7	Separator plate	AISI 316 stainless steel
8	Electronic board	-

Ego B

THREADED/FLANGED CIRCULATORS

Ego B - Ego B easy

TECHNICAL CHARACTERISTICS - *Ego* B threaded

Model	Pump connection	Pipeline connection	Power P_1 [W] P_{max}	Current draw [A] I_{min} - I_{max}	Weight [kg]
Ego 25/40-130	G1½	Rp 1″	25	0.05 - 0.2	2.1
Ego 25/60-130	G1½	Rp 1″	50	0.05 - 0.4	2.1
Ego 25/80-130	G1½	Rp 1″	75	0.05 - 0.6	2.1

TECHNICAL CHARACTERISTICS - *Ego* B easy

Model	Pump connection	Pipeline connection	Power P_1 [W] P_{max}	Current draw [A] I_{min} - I_{max}	Weight [kg]
Ego easy 25-80	G1″½	Rp 1″	140	0.1 - 1.15	4.0
Ego easy 32-80	G2″	Rp 1″¼	140	0.1 - 1.15	4.1
Ego easy 25-100	G1″½	Rp 1″	180	0.1 - 1.5	4.0
Ego easy 32-100	G2″	Rp 1″¼	180	0.1 - 1.5	4.1

TECHNICAL CHARACTERISTICS - *Ego* B flanged

Model	Pump connection	Power P_1 [W] P_{max}	Current draw [A] I_{min} - I_{max}	Weight [kg]
Ego B 40	DN40	500	2.2	24.3
Ego Ego B 50	DN50	1100	4.8	30.0
Ego B 65	DN65	1100	4.8	36.0

THREADED/FLANGED CIRCULATORS

Ego B - Ego B easy

DIMENSIONS - *Ego* B threaded

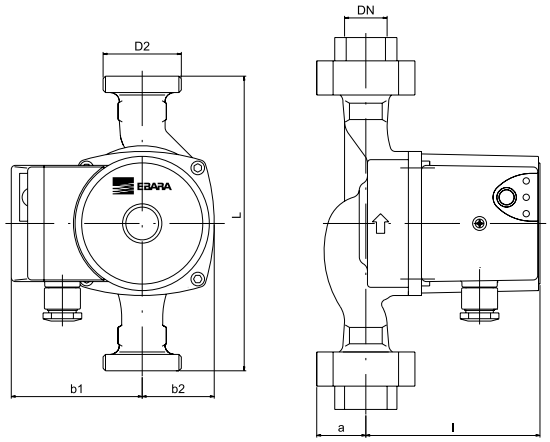


TABLE OF DIMENSIONS - *Ego* B threaded

Model	Dimensions [mm]						
	L	DN	b1	b2	l	a	D2
Ego B 25/40-130	130	25	80	48	108	32	1"½
Ego B 25/60-130	130	25	80	48	108	32	1"½
Ego B 25/80-130	130	25	80	48	108	32	1"½

DIMENSIONS - Ego B easy

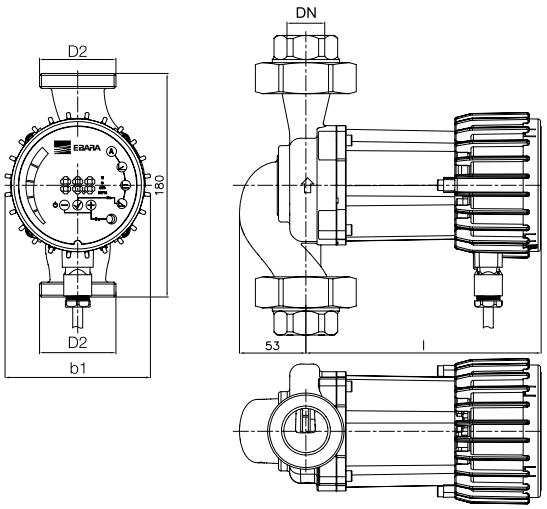


TABLE OF DIMENSIONS - *Ego* B easy

Model	Dimensions [mm]										
	h	DN	b1	l	a	D1	D2	D3	D4	D5	n. holes
Ego easy 25-80	180	25	117	190 (222)*	-	-	1"½	-	-	-	-
Ego easy 32-80	180	32	117	190 (222)*	-	-	2"	-	-	-	-
Ego easy 25-100	180	25	117	190 (222)*	-	-	1"½	-	-	-	-
Ego easy 32-100	180	32	117	190 (222)*	-	-	2"	-	-	-	-

THREADED/FLANGED CIRCULATORS

Ego B - Ego B easy

DIMENSIONS - *Ego* B flanged

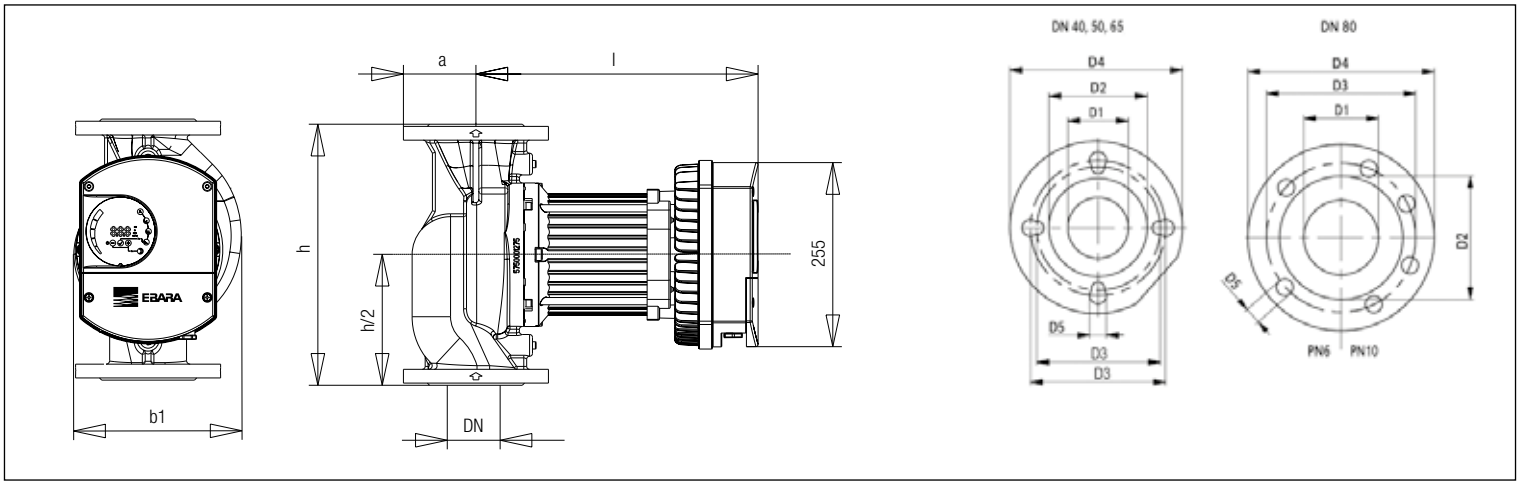


TABLE OF DIMENSIONS - *Ego* B flanged

Model	Dimensions [mm]												n. holes
	DN	b1	b4	l	h	h1	a	D1	D2	D3	D4	D5	
Ego B 40	40	198	-	355	250	-	65	40	80	100/110	150	14/19	4
Ego B 50	50	200	-	355	280	-	70	50	90	100/125	165	14/19	4
Ego B 65	65	222	-	369	340	-	80	65	110	130/145	185	14/19	4

MR B -/40-130

DOMESTIC WATER CIRCULATORS

Threaded

APPLICATIONS

Circulation pump for domestic hot water systems

TECHNICAL DATA

- Fixed speed pump (3 speed settings)
- Power supply 1~230V - 50 Hz
- Insulation class H
- Protection rating IP44
- Maximum operating pressure: 10 bar
- Maximum ambient temperature: 40°C
- Fluid temperature range: +5 to +65°C

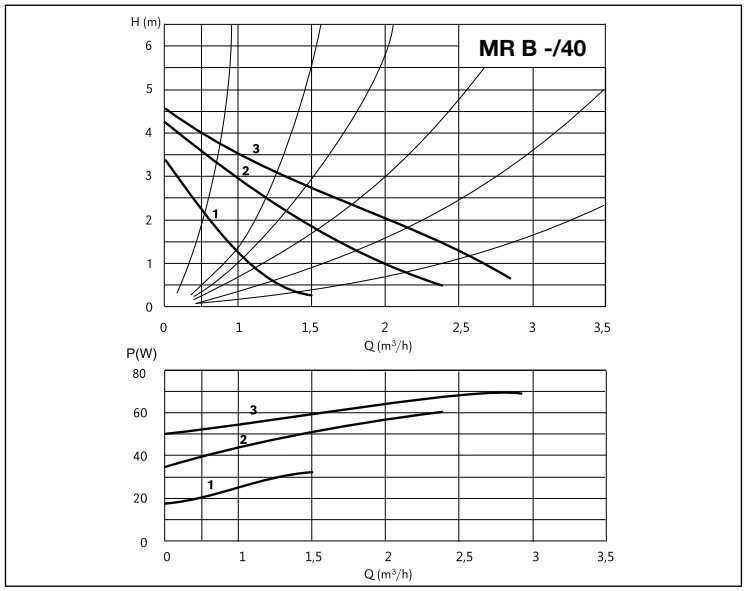
MATERIALS

- Bronze pump body
- Polyamide impeller
- Stainless steel shaft
- Graphite radial bearing
- Pipe and separator plate in AISI 316 stainless steel

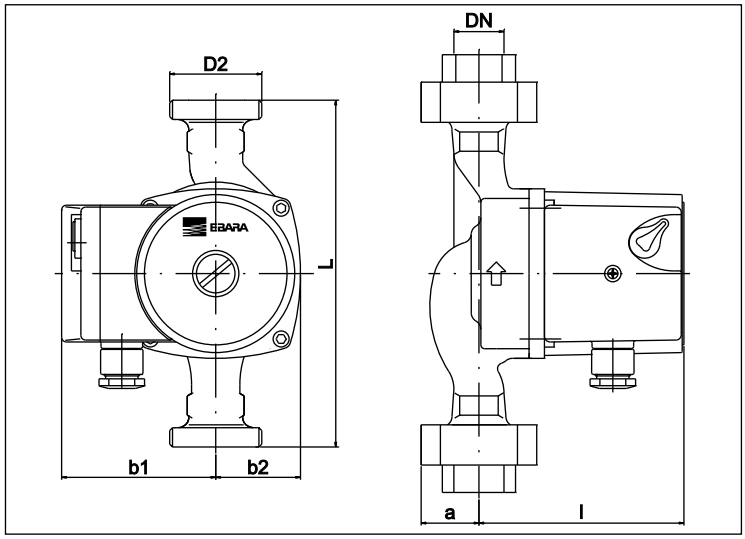
ADMITTED FLUIDS

- Clear, clean, non-aggressive and non-explosive fluids, with no solid particles or fibres

PERFORMANCE CURVES (per ISO 9906 Annex A)



DIMENSIONS



IDENTIFICATION CODE

MR 25 / 40 - 130 (180)

- 130 (180): Centre distance (mm)
- 40: Maximum pressure (dm)
- 25: Nominal port diameter (DN)
- MR: Model

DIMENSIONS CHART

Model	L	DN	b1	b2	l	a	D2
MR B 15/40-130	130	15	80	44	108	28	1"
MR B 25/40-130	130	25	80	44	108	28	1"½

TECHNICAL CHARACTERISTICS

Model	Centre distance [mm]	DN	Pump connection	Pipeline connection	Temperature of fluid (min - max°C)	PN [bar]	P1 max [W]	In max 1~230V [A]	Minimum suction pressure [bar]			Weight [kg]
									50°C	80°C	110°C	
MR B 15/40-130	130	DN15	G 1"	Rp ½"	+5 +65	10	75	0.33	0.05	0.4	1.1	2.3
MR B 25/40-130	130	DN25	G 1"½	Rp 1"	+5 +65	10	75	0.33	0.05	0.4	1.1	2.4

MR B -/60-130

DOMESTIC WATER CIRCULATORS

Threaded

APPLICATIONS

Circulation pump for domestic hot water systems

TECHNICAL DATA

- Fixed speed pump (3 speed settings)
- Power supply 1~230V - 50 Hz
- Insulation class H
- Protection rating IP44
- Maximum operating pressure: 10 bar
- Maximum ambient temperature: 40°C
- Fluid temperature range: +5 to +65°C

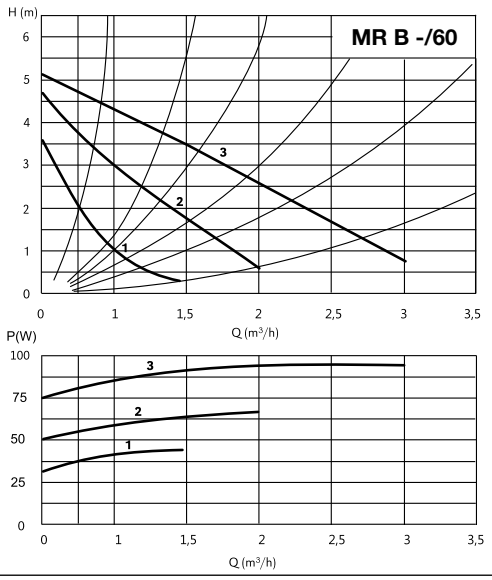
MATERIALS

- Bronze pump body
- Polyamide impeller
- Stainless steel shaft
- Graphite radial bearing
- Pipe and separator plate in AISI 316 stainless steel

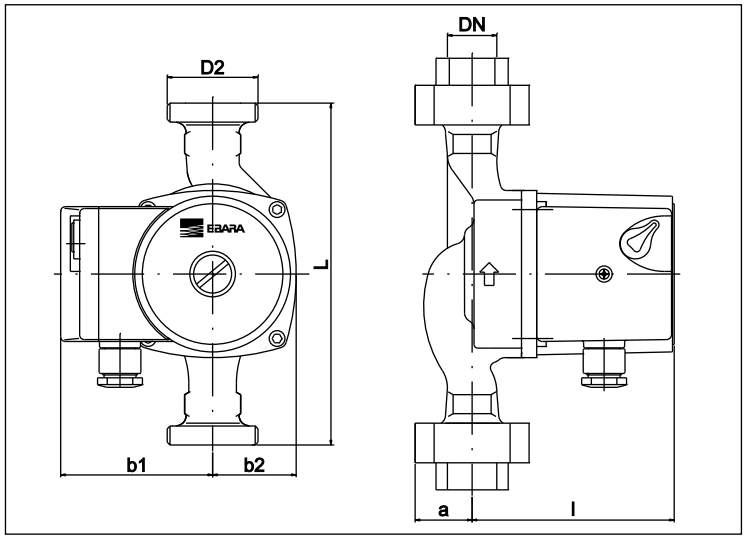
ADMITTED FLUIDS

- Clear, clean, non-aggressive and non-explosive fluids, with no solid particles or fibres

PERFORMANCE CURVES (per ISO 9906 Annex A)



DIMENSIONS



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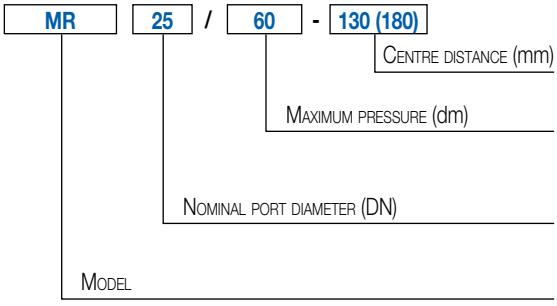


DIMENSIONS CHART

Model	L	DN	b1	b2	l	a	D2
MR B 15/60-130	130	15	80	44	108	28	1"
MR B 25/60-130	130	25	80	44	108	28	1"½

TECHNICAL CHARACTERISTICS

Model	Centre distance [mm]	DN	Pump connection	Pipeline connection	Temperature of fluid (min - max°C)	PN [bar]	P1 max [W]	In max 1~230V [A]	Minimum suction pressure [bar]			Weight [kg]
									50°C	80°C	110°C	
MR B 15/60-130	130	DN15	G 1"	Rp ½"	+5 +65	10	90	0.39	0.05	0.4	1.1	2.5
MR B 25/60-130	130	DN25	G 1"½	Rp 1"	+5 +65	10	90	0.39	0.05	0.4	1.1	2.6

MR B -/70-130

DOMESTIC WATER CIRCULATORS

Threaded

APPLICATIONS

Circulation pump for domestic hot water systems

TECHNICAL DATA

- Fixed speed pump (3 speed settings)
- Power supply 1~230V - 50 Hz
- Insulation class H
- Protection rating IP44
- Maximum operating pressure: 10 bar
- Maximum ambient temperature: 40°C
- Fluid temperature range: +5 to +65°C

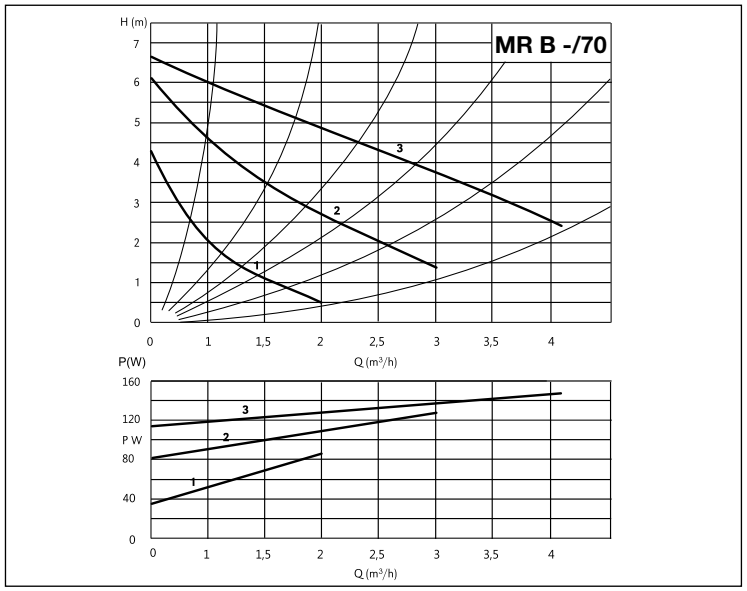
MATERIALS

- Bronze pump body
- Polyamide impeller
- Ceramic shaft
- Graphite radial bearing
- Pipe and separator plate in AISI 316 stainless steel

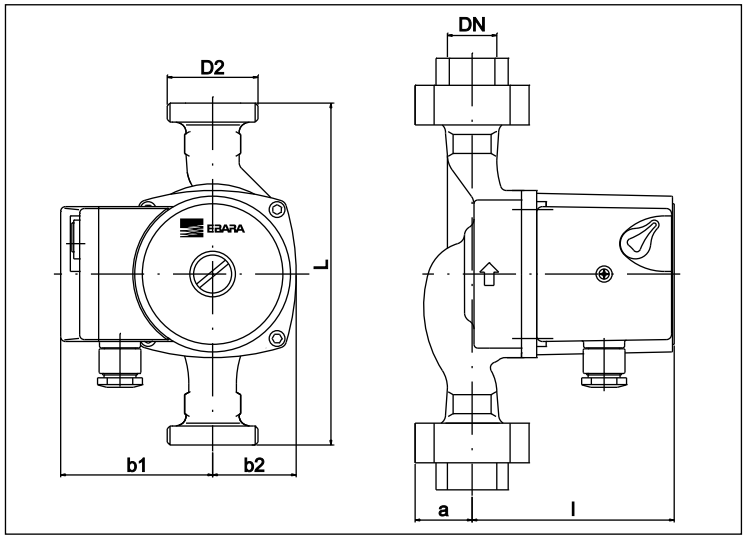
ADMITTED FLUIDS

- Clear, clean, non-aggressive and non-explosive fluids, with no solid particles or fibres

PERFORMANCE CURVES (per ISO 9906 Annex A)



DIMENSIONS



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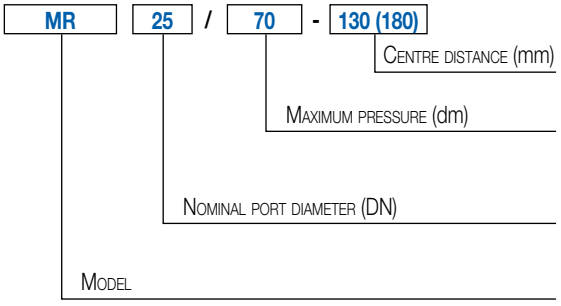


DIMENSIONS CHART

Model	L	DN	b1	b2	l	a	D2
MR B 25/70-130	130	25	80	44	108	28	1"½

TECHNICAL CHARACTERISTICS

Model	Centre distance [mm]	DN	Pump connection	Pipeline connection	Temperature of fluid (min - max°C)	PN [bar]	P1 max [W]	In max 1~230V [A]	Minimum suction pressure [bar]			Weight [kg]
									50°C	80°C	110°C	
MR B 25/70-130	130	DN25	G 1"½	Rp 1"	+5 +65	10	140	0.62	0.05	0.4	1.1	2.6

MR B 40-120 F

DOMESTIC WATER CIRCULATORS

Flanged

APPLICATIONS

Circulation pump for domestic hot water systems

TECHNICAL DATA

- Fixed speed pump (3 speed settings)
- Power supply 3~400V - 50 Hz
- Insulation class H
- Protection rating IP43
- Maximum operating pressure: 10 bar
- Maximum ambient temperature: 40°C
- Fluid temperature range -10 to +65°C

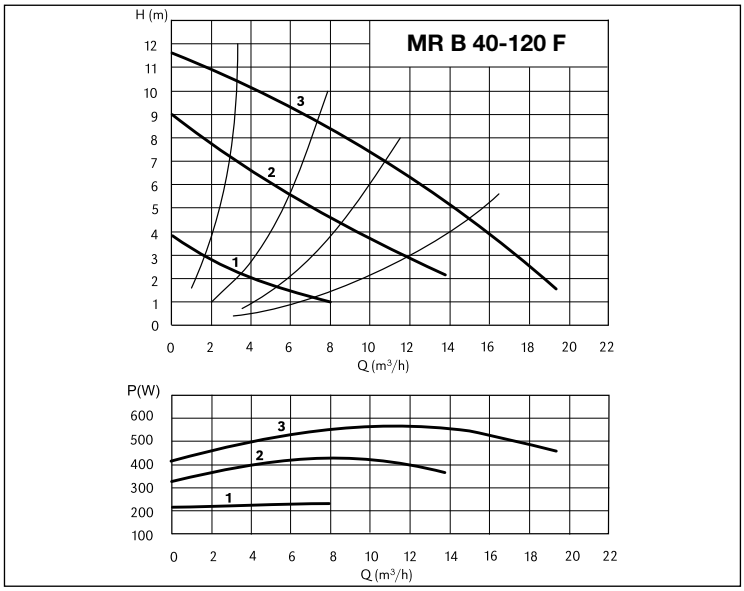
MATERIALS

- Bronze pump body
- Stainless steel impeller
- Stainless steel shaft
- Graphite radial bearing
- Pipe and separator plate in AISI 316 stainless steel

ADMITTED FLUIDS

- Clear, clean, non-aggressive and non-explosive fluids, with no solid particles or fibres

PERFORMANCE CURVES (per ISO 9906 Annex A)



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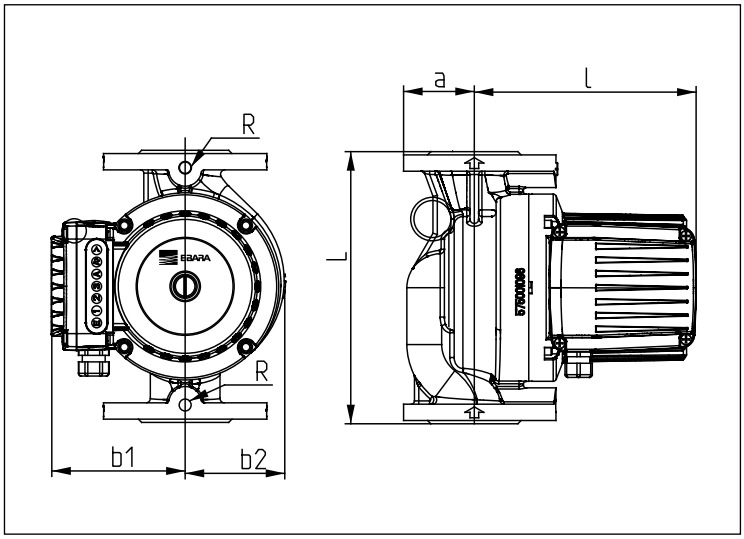

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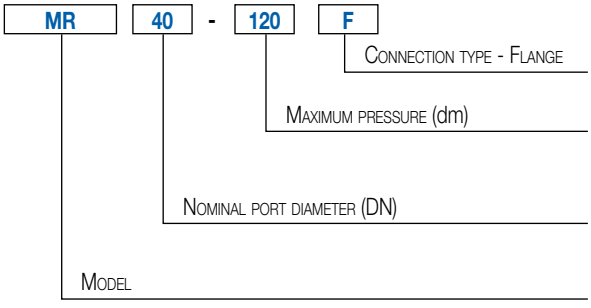


DIMENSIONS CHART

Model	L	DN	b1	b2	l	a
MR B 40-120 F	250	40	153	92	198	65

TECHNICAL CHARACTERISTICS

Model	Centre distance [mm]	DN	Temperature of fluid (min - max°C)	PN [bar]	P1 max [W]	In max 3~400V [A]	Minimum suction pressure [bar]			Weight [kg]
							50°C	80°C	110°C	
MR B 40-120 F	250	DN40	-10 +65	10	578	1.46	0.05	0.8	1.4	22.0

MR B 40-70 F

DOMESTIC WATER CIRCULATORS

Flanged

APPLICATIONS

Circulation pump for domestic hot water systems

TECHNICAL DATA

- Fixed speed pump (3 speed settings)
- Power supply 3~400V - 50 Hz
- Insulation class H
- Protection rating IP43
- Maximum operating pressure: 10 bar
- Maximum ambient temperature: 40°C
- Fluid temperature range -10 to +65°C

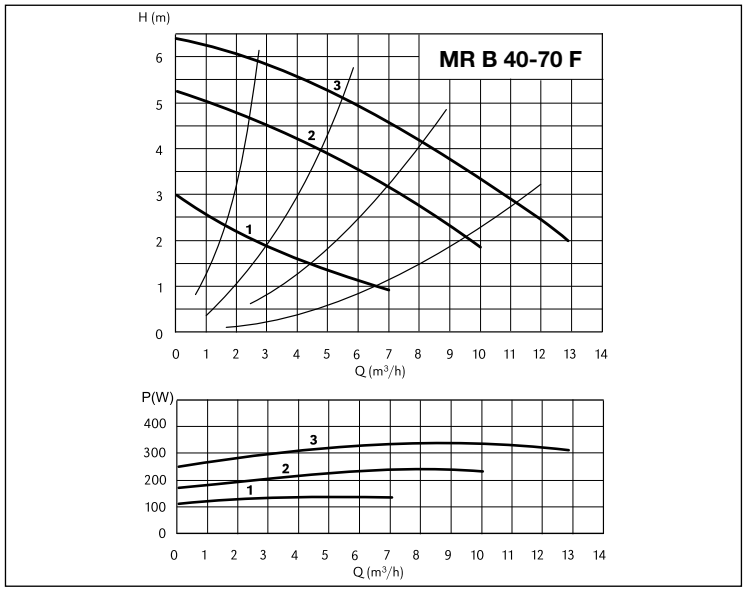
MATERIALS

- Bronze pump body
- Stainless steel impeller
- Stainless steel shaft
- Graphite radial bearing
- Pipe and separator plate in AISI 316 stainless steel

ADMITTED FLUIDS

- Clear, clean, non-aggressive and non-explosive fluids, with no solid particles or fibres

PERFORMANCE CURVES (per ISO 9906 Annex A)



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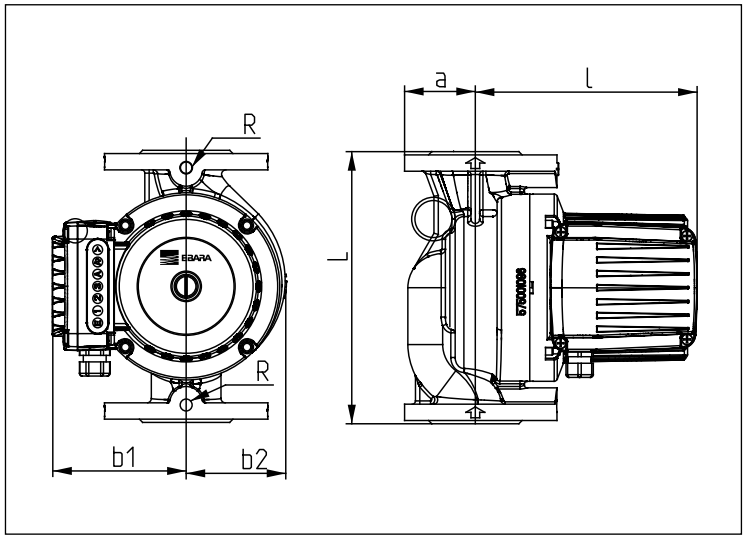


IDENTIFICATION CODE

MR 40 - 70 F

- F: Connection type - Flange
- 70: Maximum pressure (dm)
- 40: Nominal port diameter (DN)
- MR: Model

DIMENSIONS CHART

Model	L	DN	b1	b2	l	a
MR B 40-70 F	250	40	153	92	198	65

TECHNICAL CHARACTERISTICS

Model	Centre distance [mm]	DN	Temperature of fluid (min - max°C)	PN [bar]	P1 max [W]	In max 3~400V [A]	Minimum suction pressure [bar]			Weight [kg]
							50°C	80°C	110°C	
MR B 40-70 F	250	DN40	-10 +65	10	295	0.74	0.05	0.8	1.4	22.0

MR B 50-120 F

DOMESTIC WATER CIRCULATORS

Flanged

APPLICATIONS

Circulation pump for domestic hot water systems

TECHNICAL DATA

- Fixed speed pump (3 speed settings)
- Power supply 3~400V - 50 Hz
- Insulation class H
- Protection rating IP43
- Maximum operating pressure: 10 bar
- Maximum ambient temperature: 40°C
- Fluid temperature range -10 to +65°C

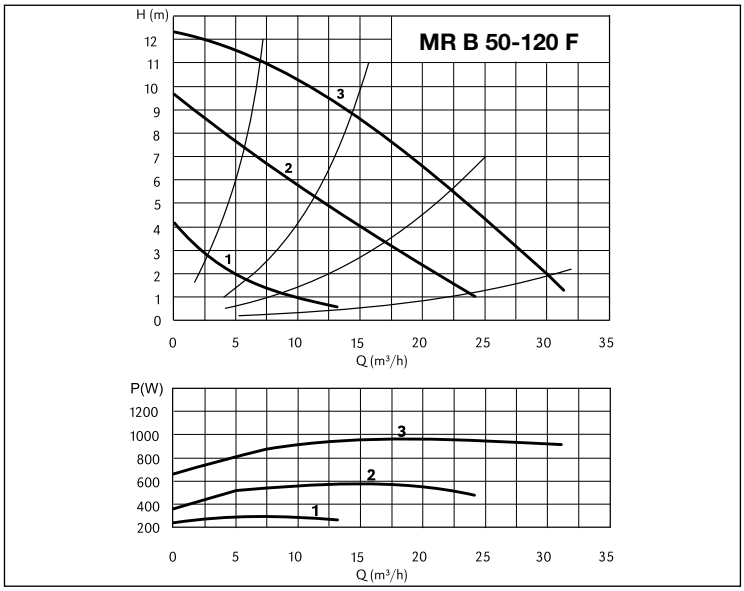
MATERIALS

- Bronze pump body
- Stainless steel impeller
- Stainless steel shaft
- Graphite radial bearing
- Pipe and separator plate in AISI 316 stainless steel

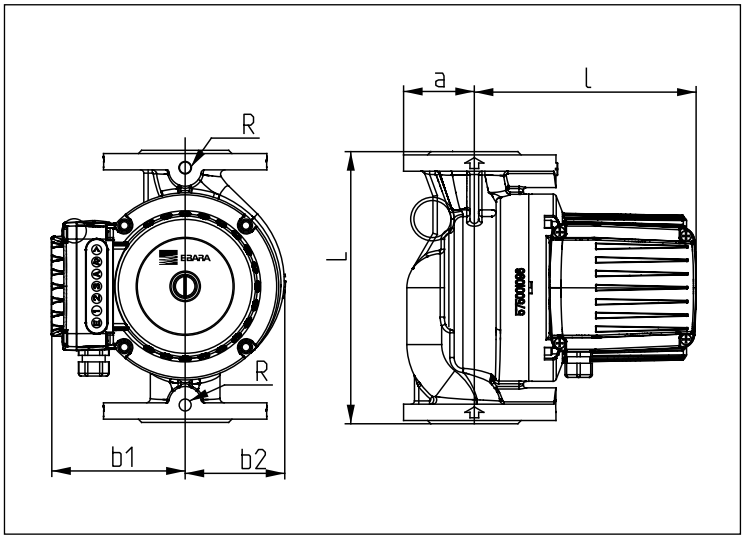
ADMITTED FLUIDS

- Clear, clean, non-aggressive and non-explosive fluids, with no solid particles or fibres

PERFORMANCE CURVES (per ISO 9906 Annex A)



DIMENSIONS



IDENTIFICATION CODE

MR 50 - 120 F

- F: Connection type - Flange
- 120: Maximum pressure (dm)
- 50: Nominal port diameter (DN)
- MR: Model

DIMENSIONS CHART

Model	L	DN	b1	b2	l	a
MR B 50-120 F	280	50	160	113	250	70

TECHNICAL CHARACTERISTICS

Model	Centre distance [mm]	DN	Temperature of fluid (min - max°C)	PN [bar]	P1 max [W]	In max 3~400V [A]	Minimum suction pressure [bar]			Weight [kg]
							50°C	80°C	110°C	
MR B 50-120 F	280	DN50	-10 +65	10	1020	1.73	0.05	0.8	1.4	28.0

MR B 50-70 F

DOMESTIC WATER CIRCULATORS

Flanged

APPLICATIONS

Circulation pump for domestic hot water systems

TECHNICAL DATA

- Fixed speed pump (3 speed settings)
- Power supply 3~400V - 50 Hz
- Insulation class H
- Protection rating IP43
- Maximum operating pressure: 10 bar
- Maximum ambient temperature: 40°C
- Fluid temperature range -10 to +65°C

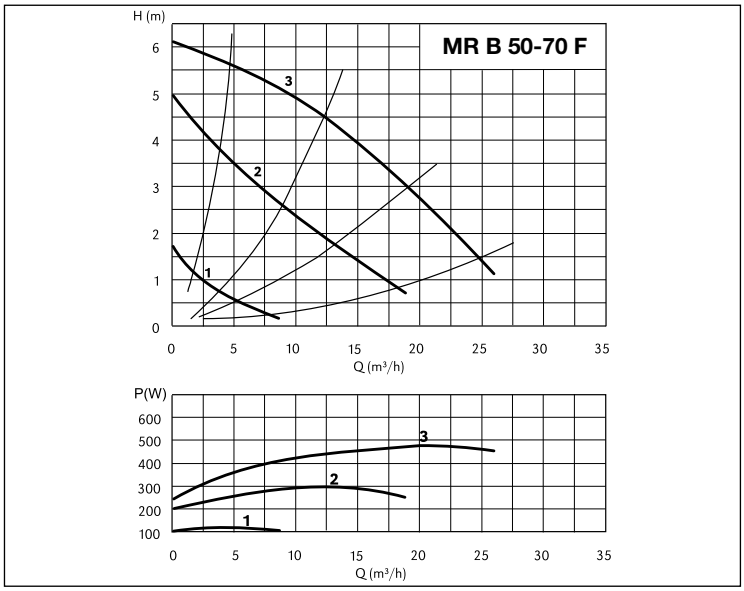
MATERIALS

- Bronze pump body
- Stainless steel impeller
- Stainless steel shaft
- Graphite radial bearing
- Pipe and separator plate in AISI 316 stainless steel

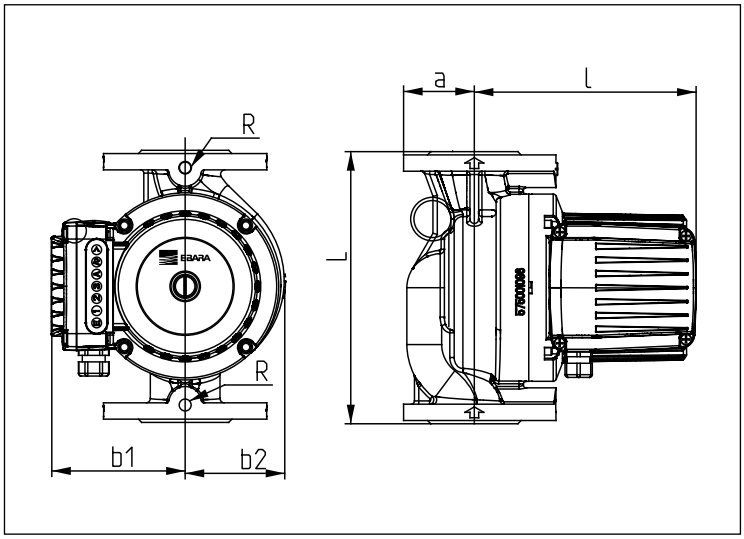
ADMITTED FLUIDS

- Clear, clean, non-aggressive and non-explosive fluids, with no solid particles or fibres

PERFORMANCE CURVES (per ISO 9906 Annex A)



DIMENSIONS



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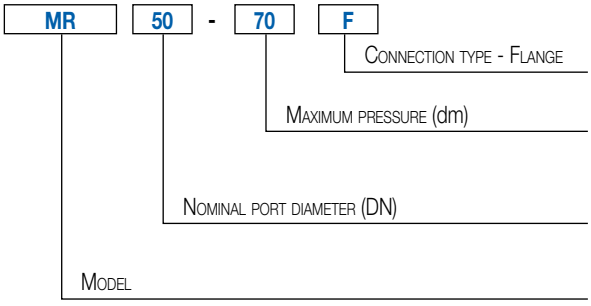


DIMENSIONS CHART

Model	L	DN	b1	b2	l	a
MR B 50-70 F	280	50	160	113	250	70

TECHNICAL CHARACTERISTICS

Model	Centre distance [mm]	DN	Temperature of fluid (min - max°C)	PN [bar]	P1 max [W]	In max 3~400V [A]	Minimum suction pressure [bar]			Weight [kg]
							50°C	80°C	110°C	
MR B 50-70 F	280	DN50	-10 +65	10	470	1.15	0.30	1.0	1.6	28.0

MR B 65-120 F

DOMESTIC WATER CIRCULATORS

Flanged

APPLICATIONS

Circulation pump for domestic hot water systems

TECHNICAL DATA

- Fixed speed pump (3 speed settings)
- Power supply 3~400V - 50 Hz
- Insulation class H
- Protection rating IP43
- Maximum operating pressure: 10 bar
- Maximum ambient temperature: 40°C
- Fluid temperature range -10 to +65°C

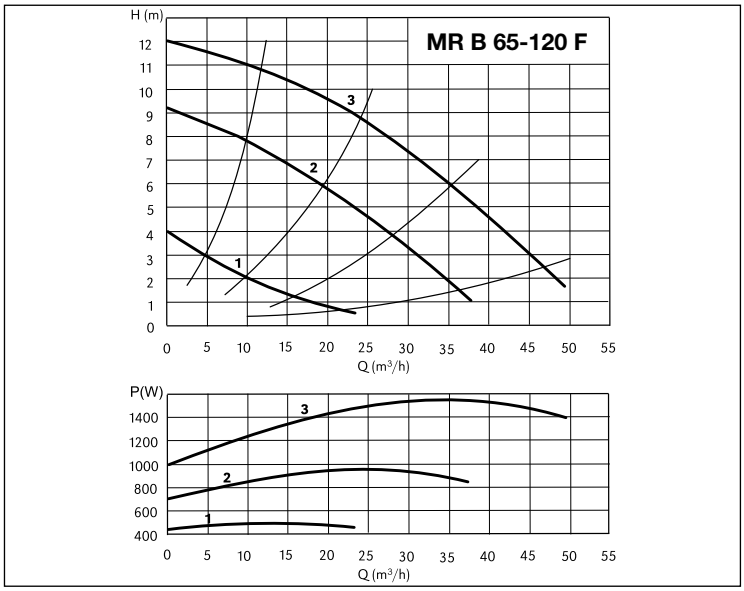
MATERIALS

- Bronze pump body
- Stainless steel impeller
- Stainless steel shaft
- Graphite radial bearing
- Pipe and separator plate in AISI 316 stainless steel

ADMITTED FLUIDS

- Clear, clean, non-aggressive and non-explosive fluids, with no solid particles or fibres

PERFORMANCE CURVES (per ISO 9906 Annex A)



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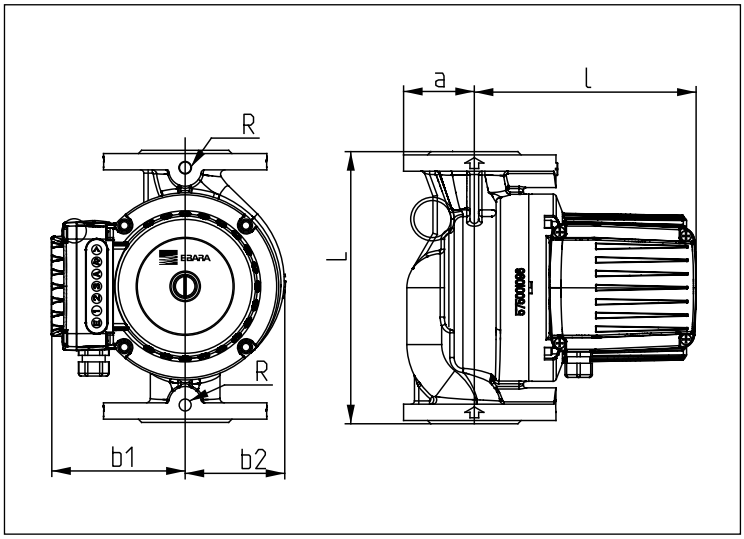


IDENTIFICATION CODE

MR 65 - 120 F

- F: Connection type - Flange
- 120: Maximum pressure (dm)
- 65: Nominal port diameter (DN)
- MR: Model

DIMENSIONS CHART

Model	L	DN	b1	b2	l	a
MR B 65-120 F	340	65	160	123	252	80

TECHNICAL CHARACTERISTICS

Model	Centre distance [mm]	DN	Temperature of fluid (min - max°C)	PN [bar]	P1 max [W]	In max 3~400V [A]	Minimum suction pressure [bar]			Weight [kg]
							50°C	80°C	110°C	
MR B 65-120 F	340	65	-10 +65	10	1560	2.80	0.30	1.0	1.6	36.0

MR B 50-70 F

DOMESTIC WATER CIRCULATORS

Flanged

APPLICATIONS

Circulation pump for domestic hot water systems

TECHNICAL DATA

- Fixed speed pump (3 speed settings)
- Power supply 3~400V - 50 Hz
- Insulation class H
- Protection rating IP43
- Maximum operating pressure: 10 bar
- Maximum ambient temperature: 40°C
- Fluid temperature range -10 to +65°C

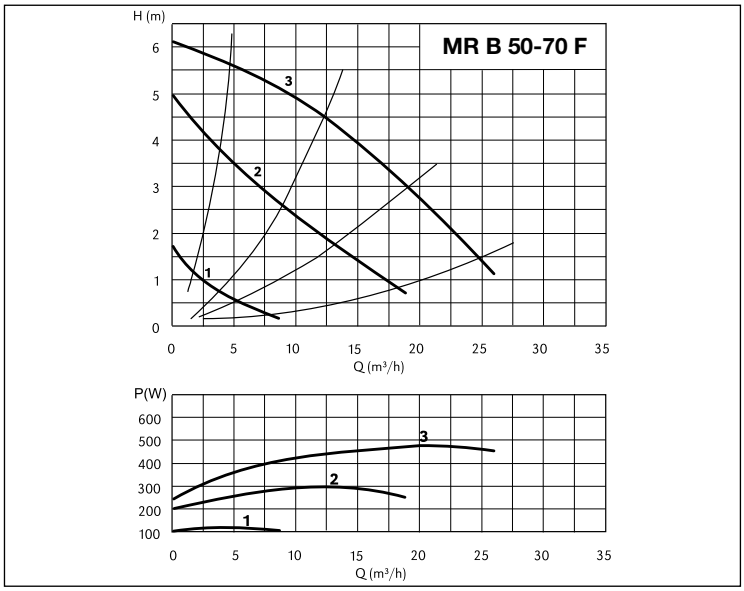
MATERIALS

- Bronze pump body
- Stainless steel impeller
- Stainless steel shaft
- Graphite radial bearing
- Pipe and separator plate in AISI 316 stainless steel

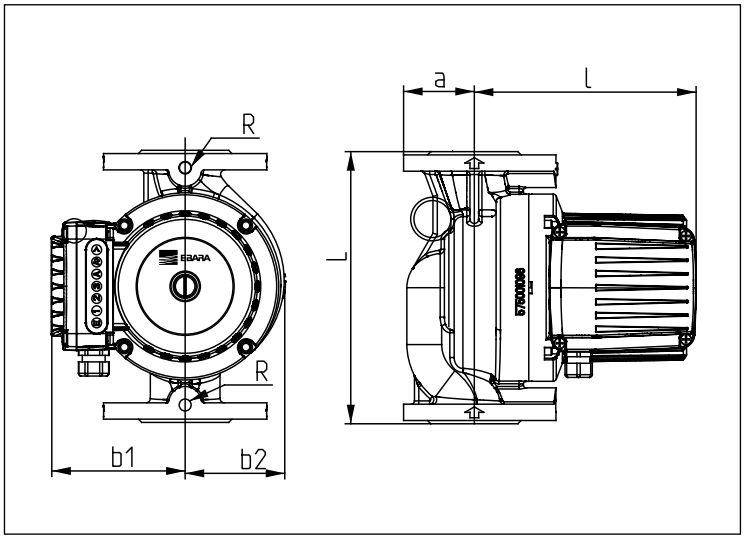
ADMITTED FLUIDS

- Clear, clean, non-aggressive and non-explosive fluids, with no solid particles or fibres

PERFORMANCE CURVES (per ISO 9906 Annex A)



DIMENSIONS



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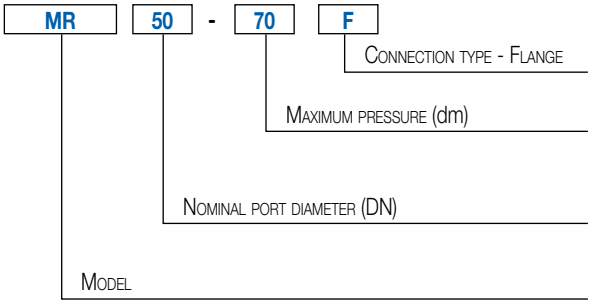


DIMENSIONS CHART

Model	L	DN	b1	b2	l	a
MR B 50-70 F	280	50	160	113	250	70

TECHNICAL CHARACTERISTICS

Model	Centre distance [mm]	DN	Temperature of fluid (min - max°C)	PN [bar]	P1 max [W]	In max 3~400V [A]	Minimum suction pressure [bar]			Weight [kg]
							50°C	80°C	110°C	
MR B 50-70 F	280	DN50	-10 +65	10	470	1.15	0.30	1.0	1.6	28.0

LPS

IN-LINE CENTRIFUGAL ELECTRIC PUMPS

in AISI 304 stainless steel

In-line centrifugal electric pumps with AISI 304 stainless steel hydraulic equipment

APPLICATIONS

- Civil and industrial heating systems
- Domestic hot water handling
- Cooling and air conditioning systems
- Low pressure fluid handling in general

TECHNICAL FEATURES

- Versatile
- Silent running
- Reliable

PUMP TECHNICAL DATA

- Maximum suction pressure:
  - 2 bar for all single-phase models and LPS 25 three phase models,
  - 4 bar for LPS 32-40-50 three phase models
- Fluid temperature: -10°C - +100°C
- Flanges: DN 25 to DN 50
- MEI > 0.4 except for LPS 32/40, LPS 40/40, LPS 40/75, LPS 50/40, LPS 50/75, LPS 50/150

For further information, refer to our Data Book on www.ebaraeurope.com

MOTOR TECHNICAL DATA

- High efficiency motors IE2 for power ratings 0.75kW to 5.5kW
  IE3 for power ratings above 0.75kW
- 2 poles self-ventilating asynchronous motors
- Insulation class F
- Protection rating IP55
- Single phase voltage 230V ±10% 50Hz,
  three phase voltage 230/400V ±10%, 50Hz
- Permanently active condenser and integrated automatic re-arming thermal cutout for the single-phase motor
- Protection must be supplied by the user for the three phase version

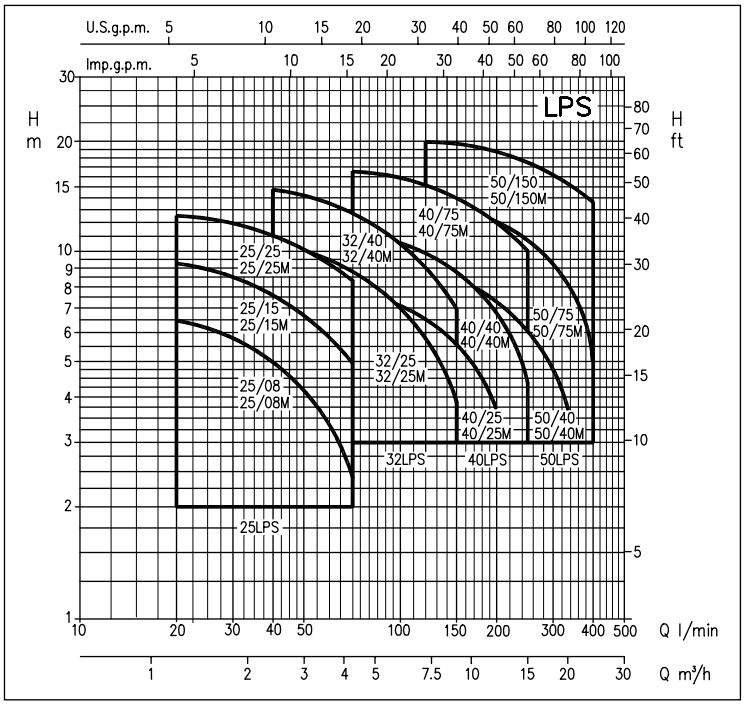
MATERIALS

- Pump body, impeller and gasket disk in AISI 304 stainless steel
- Shaft made of AISI 303 steel (part in contact with liquid)
- Motor mount and casing in aluminium
- Mechanical seal made of Ceramic/Carbon/NBR
- Elastomers in NBR

ACCESSORIES (on request)

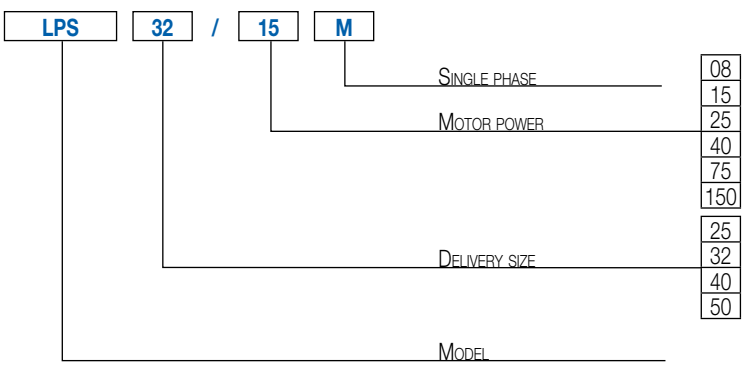
- Counterflanges available in the following materials:
  - galvanised
  - AISI 304

PERFORMANCE RANGE (per ISO 9906 Annex A)



N.B. Some models not available in the EU

IDENTIFICATION CODE

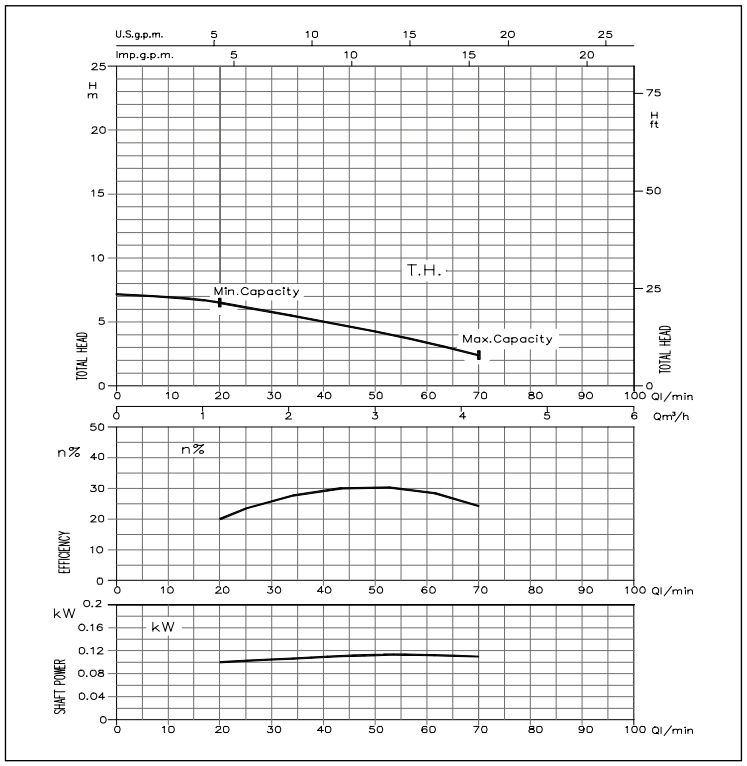


IN-LINE CENTRIFUGAL ELECTRIC PUMPS

in AISI 304 stainless steel

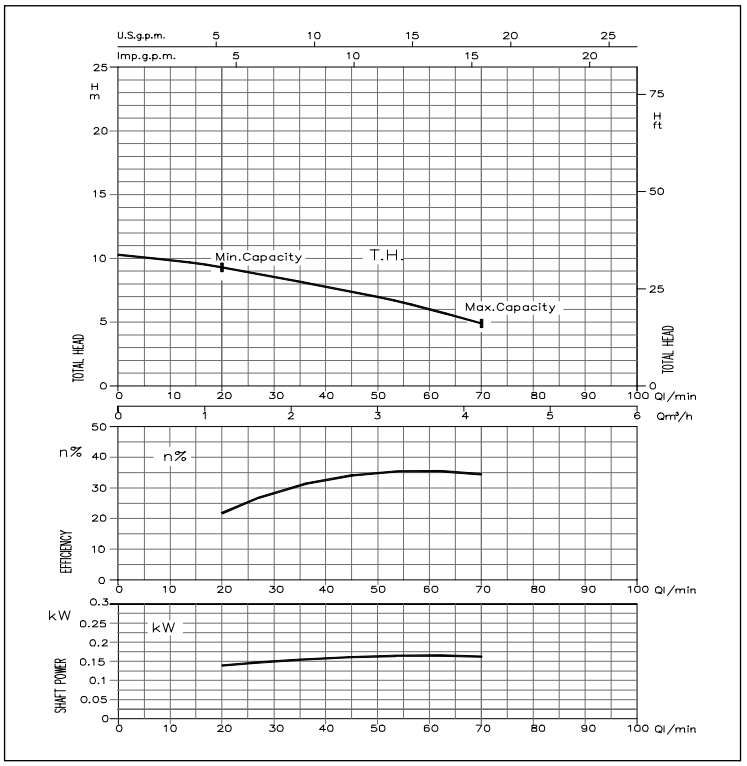
PERFORMANCE CURVES series LPS 25/08

(per ISO 9906 Annex A)



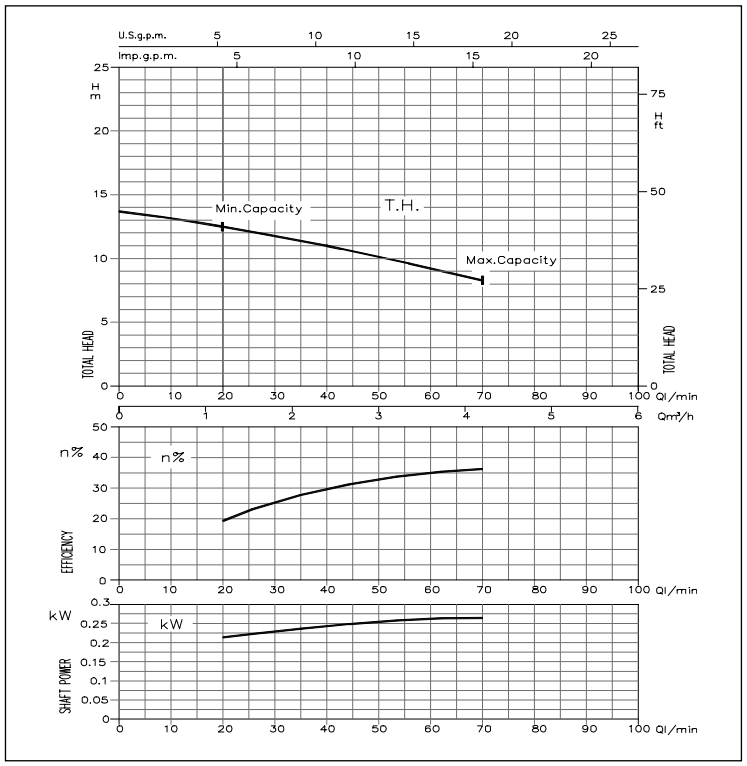
PERFORMANCE CURVES series LPS 25/15

(per ISO 9906 Annex A)



PERFORMANCE CURVES series LPS 25/25

(per ISO 9906 Annex A)



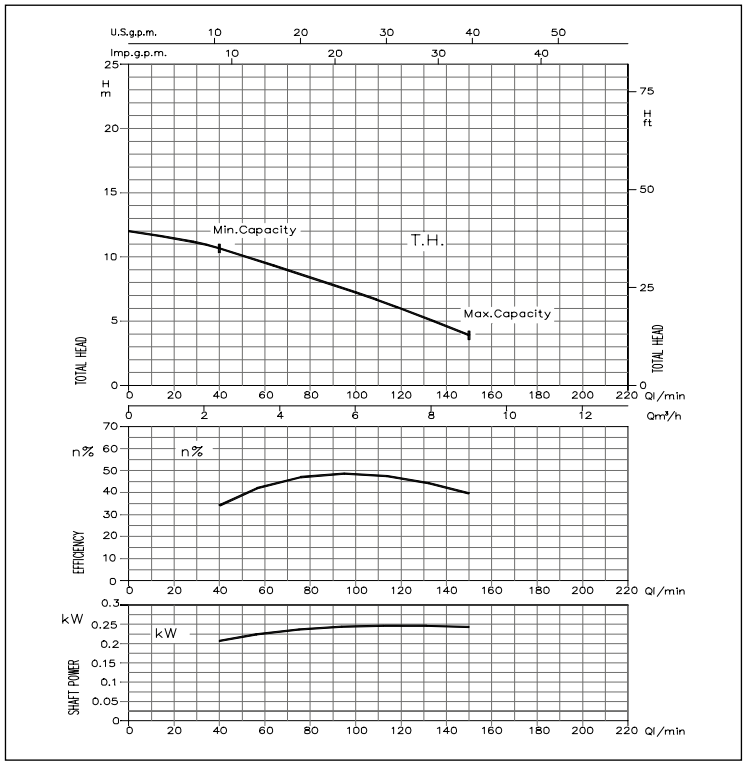
LPS

IN-LINE CENTRIFUGAL ELECTRIC PUMPS

in AISI 304 stainless steel

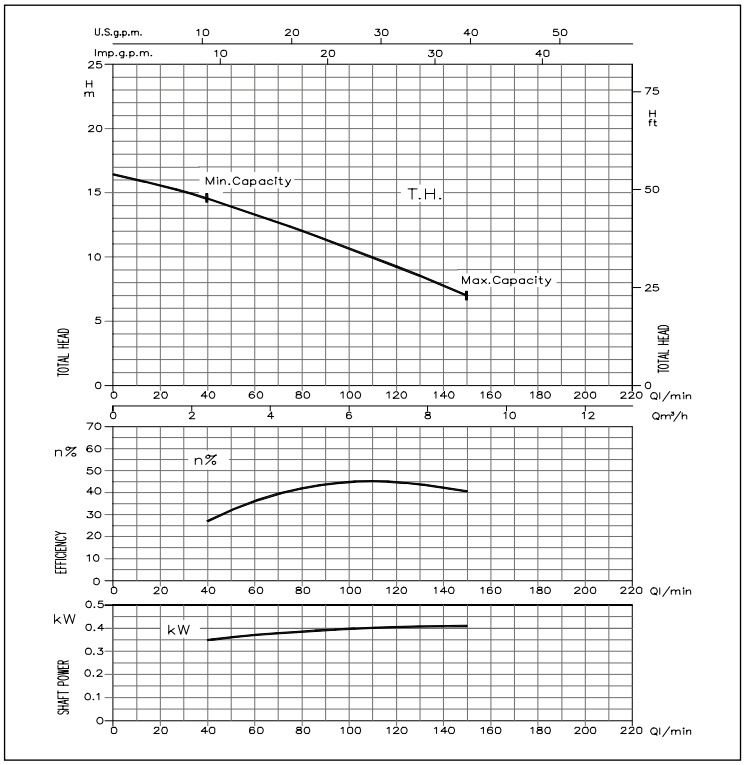
PERFORMANCE CURVES series LPS 32/25

(per ISO 9906 Annex A)



PERFORMANCE CURVES series LPS 32/40

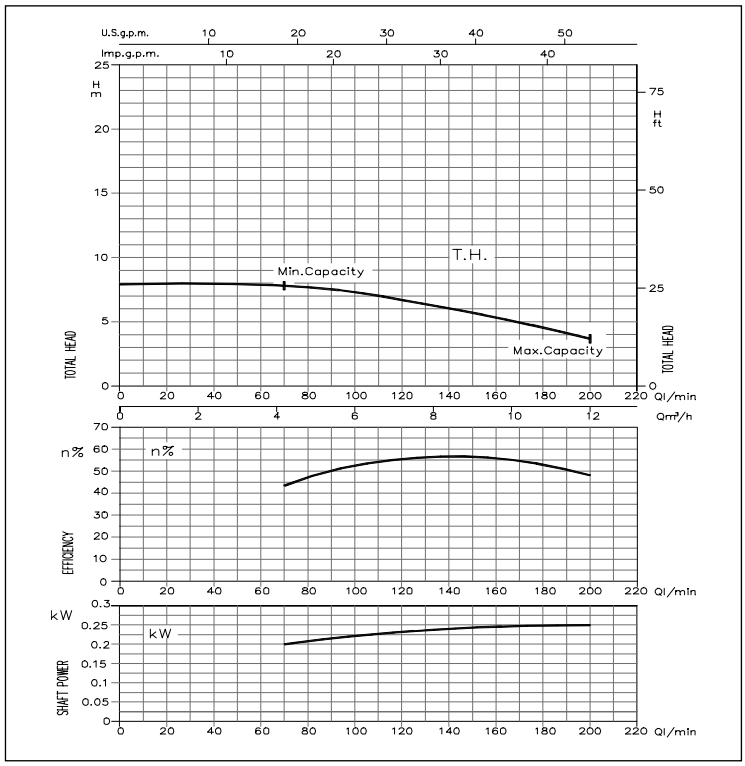
(per ISO 9906 Annex A)



N.B. Models marked with * not available in the EU

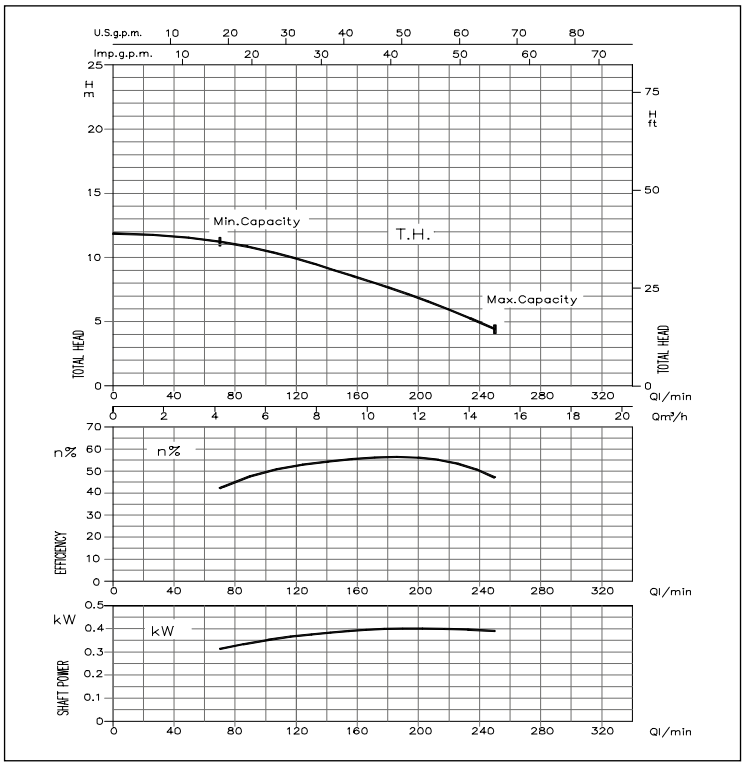
PERFORMANCE CURVES series LPS 40/25

(per ISO 9906 Annex A)



PERFORMANCE CURVES series LPS 40/40

(per ISO 9906 Annex A)



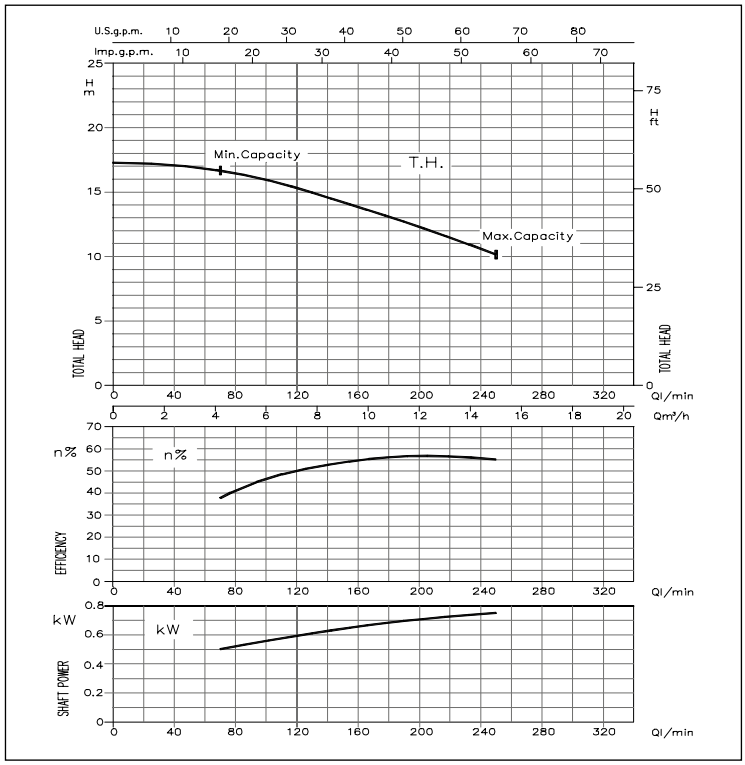
N.B. Models marked with * not available in the EU

IN-LINE CENTRIFUGAL ELECTRIC PUMPS

in AISI 304 stainless steel

PERFORMANCE CURVES series LPS 40/75

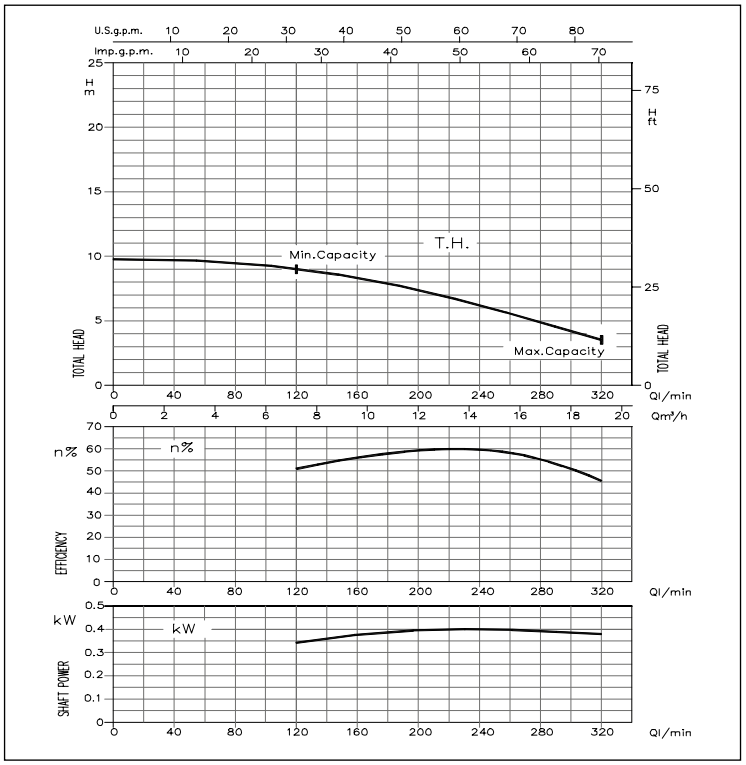
(per ISO 9906 Annex A)



N.B. Models marked with * not available in the EU

PERFORMANCE CURVES series LPS 50/40

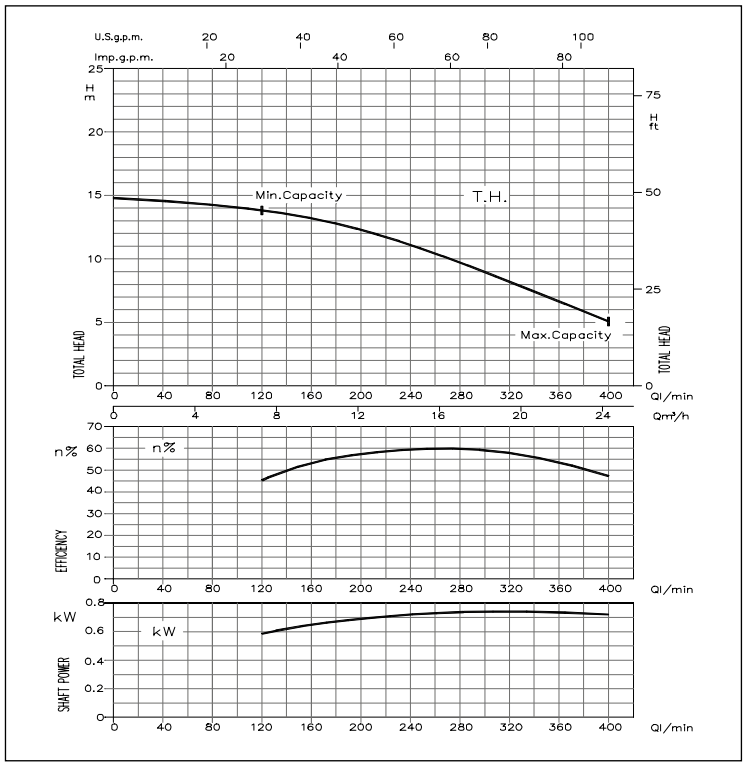
(per ISO 9906 Annex A)



N.B. Models marked with * not available in the EU

PERFORMANCE CURVES series LPS 50/75

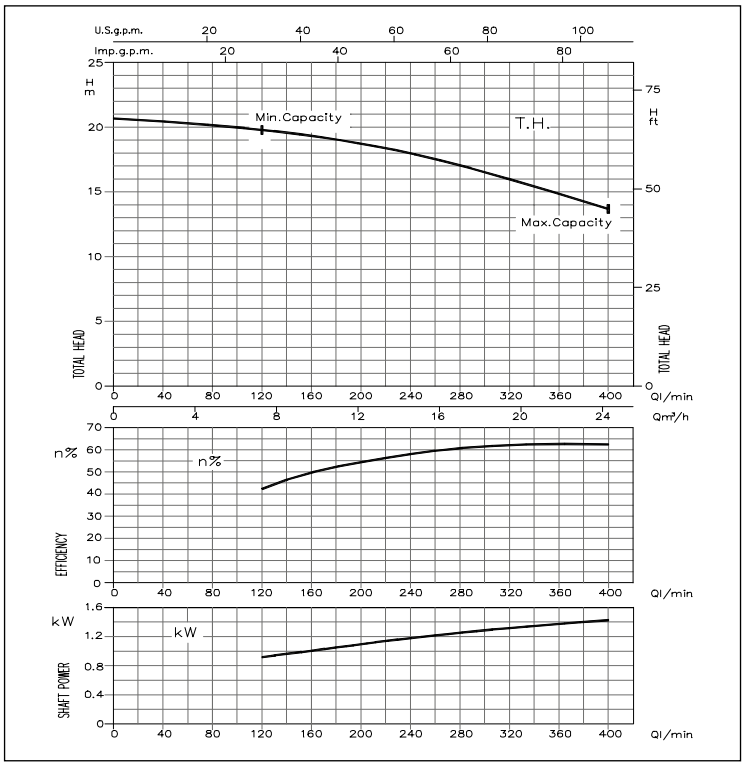
(per ISO 9906 Annex A)



N.B. Models marked with * not available in the EU

PERFORMANCE CURVES series LPS 50/150

(per ISO 9906 Annex A)



N.B. Models marked with * not available in the EU

LPS

IN-LINE CENTRIFUGAL ELECTRIC PUMPS

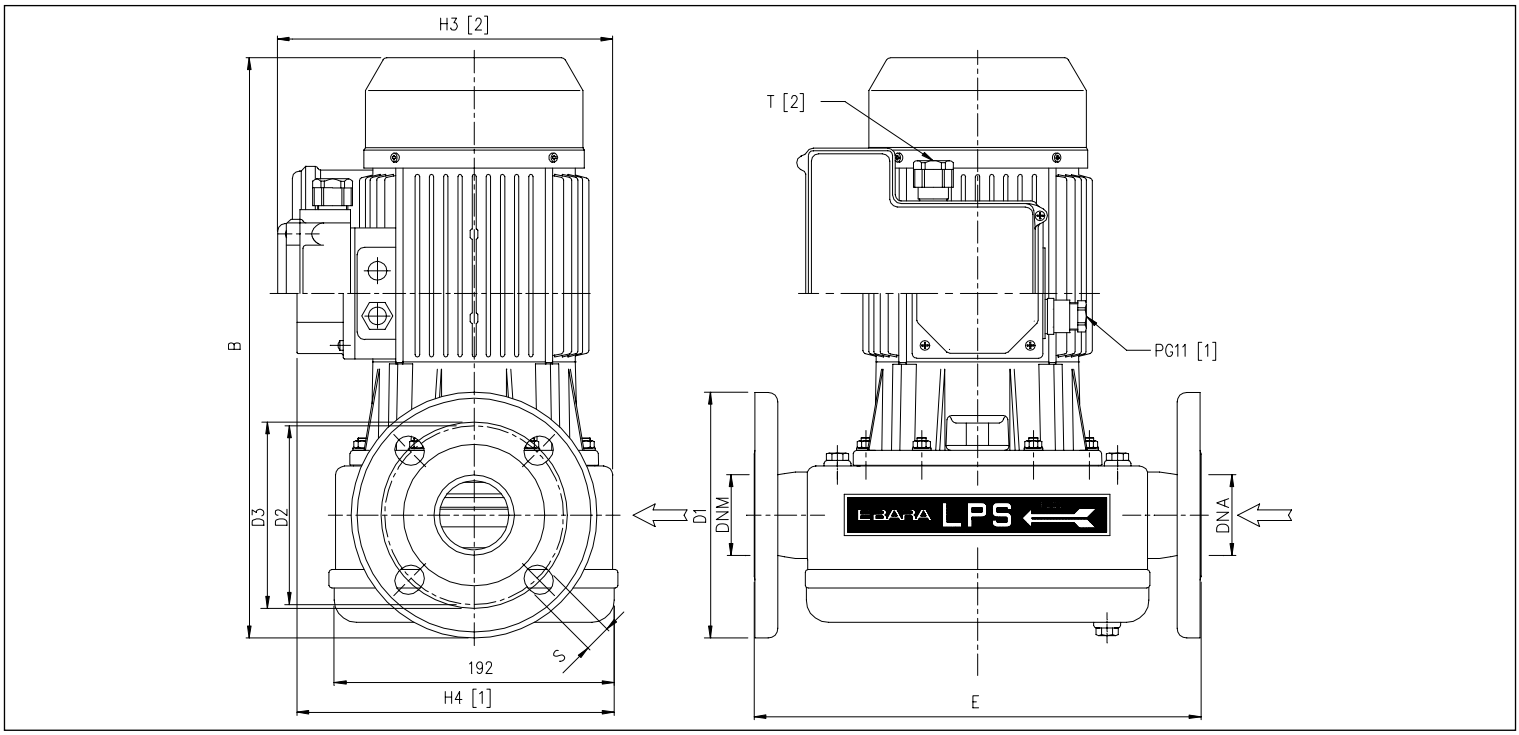
in AISI 304 stainless steel

PERFORMANCE TABLE

Model		P_2		Q=Flow rate									
Single phase 230V	Three phase 230/400V	[HP]	[KW]	l/min 20	40	70	100	120	150	200	250	320	400
				m^3/h 1.2	2.4	4.2	6	7.2	9	12	15	19.2	24
				H=Head [m]									
LPS 25/08M	LPS 25/08	0.1	0.08	6.5	5.0	2.4	-	-	-	-	-	-	-
LPS 25/15M	LPS 25/15	0.2	0.15	9.3	7.8	4.9	-	-	-	-	-	-	-
LPS 25/25M	LPS 25/25	0.33	0.25	12.5	11.1	8.4	-	-	-	-	-	-	-
LPS 32/25M	LPS 32/25	0.33	0.25	-	10.7	9.1	7.2	5.9	3.9	-	-	-	-
LPS 32/40M *	LPS 32/40 *	0.5	0.4	-	14.5	12.7	10.6	9.2	7.0	-	-	-	-
LPS 40/25M	LPS 40/25	0.33	0.25	-	-	7.8	7.1	6.6	5.6	3.7	-	-	-
LPS 40/40M *	LPS 40/40 *	0.5	0.4	-	-	11.3	10.4	9.9	8.7	6.9	4.4	-	-
LPS 40/75M *	LPS 40/75 *	1	0.75	-	-	16.6	16.0	15.2	14.1	12.3	10.1	-	-
LPS 50/40M *	LPS 50/40 *	0.5	0.4	-	-	-	-	9.1	8.8	7.4	5.9	3.5	-
LPS 50/75M *	LPS 50/75 *	1	0.75	-	-	-	-	13.8	13.3	12.3	10.7	8.2	5.0
LPS 50/150M *	LPS 50/150 *	2	1.5	-	-	-	-	19.8	19.3	18.7	17.8	16.0	13.7

* Models not available in the EU

DIMENSIONS LPS



DIMENSIONS CHART

Model		Dimensions [mm]															Weight [kg]		
Single phase	Three phase	E	B			H3	H4	T	V		DNA	DNM	D1	D2	D3	S			
			[2]	[1]	*	[2]	[1]	[2]	[1]	*							[2]	[1]	*
LPS 25/08M	LPS 25/08	300	322	322	-	206	197.5	PG11	PG11	-	25	25	115	85	85	14	10	10	-
LPS 25/15M	LPS 25/15	300	322	322	-	206	197.5	PG11	PG11	-	25	25	115	85	85	14	10	10	-
LPS 25/25M	LPS 25/25	300	322	322	-	206	197.5	PG11	PG11	-	25	25	115	85	85	14	10.1	10.1	-
LPS 32/25M	LPS 32/25	305	341.5	341.5	-	206	197.5	PG11	PG11	-	32	32	140	100	100	18	10.8	10.8	-
LPS 32/40M *	LPS 32/40 *	305	341.5	341.5	-	206	197.5	PG11	PG11	-	32	32	140	100	100	18	10.8	10.8	-
LPS 40/25M	LPS 40/25	305	346.5	346.5	-	206	197.5	PG11	PG11	-	40	40	150	105	110	18	11	11	-
LPS 40/40M *	LPS 40/40 *	305	346.5	346.5	-	206	197.5	PG11	PG11	-	40	40	150	105	110	18	11	11	-
LPS 40/75M *	LPS 40/75 *	305	346.5	346.5	346.5	206	197.5	PG11	PG11	M16x1.5	40	40	150	105	110	18	13.7	13.7	13.7
LPS 50/40M *	LPS 50/40 *	310	356.5	356.5	-	206	197.5	PG11	PG11	-	50	50	165	120	125	18	11.6	11.6	-
LPS 50/75M *	LPS 50/75 *	310	356.5	356.5	356.5	206	197.5	PG11	PG11	M16x1.5	50	50	165	120	125	18	14.4	14.4	14.4
LPS 50/150M *	LPS 50/150 *	310	387	400	412.5	232	214.5	PG13.5	PG11	M20x1.5	50	50	165	120	125	18	17.7	19.6	20.5

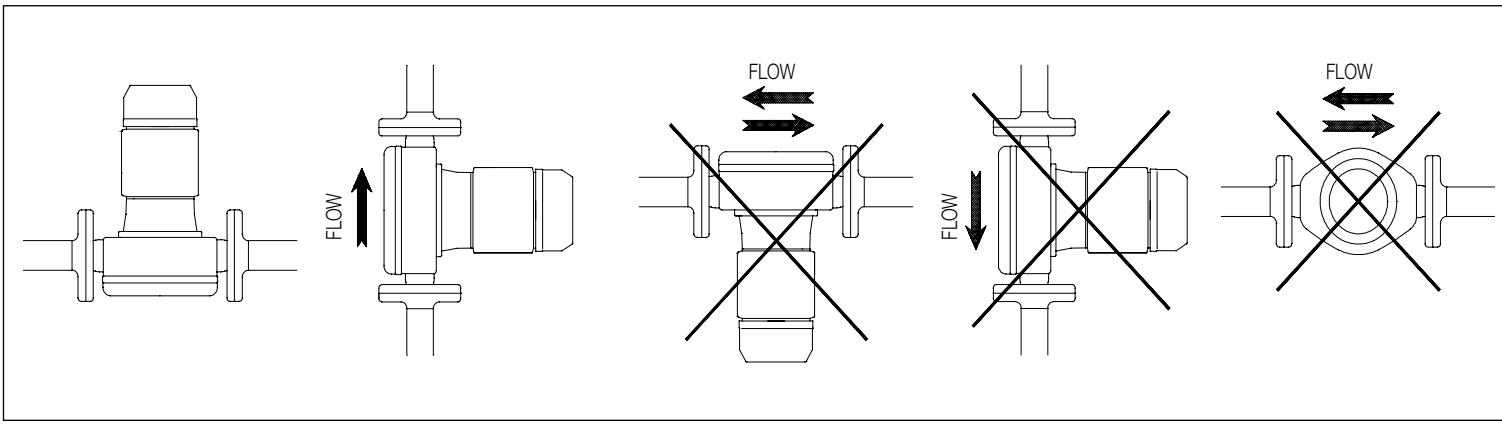
[1]= Three phase only
[2]= Single phase only
* Models not available in the EU

LPS

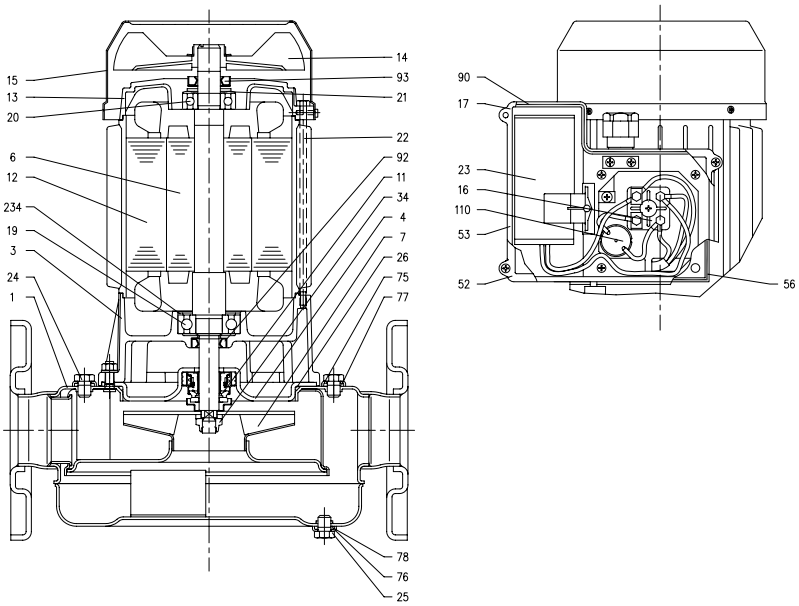
IN-LINE CENTRIFUGAL ELECTRIC PUMPS

in AISI 304 stainless steel

INSTALLATION LPS



SECTIONAL VIEW LPS



MATERIALS TABLE

Ref.	Name	Material	Ref.	Name	Material
1	Pump body	AISI 304	24	Filler cap	AISI 304
3	Motor mount	Aluminium	25	Drain cap	AISI 304
4	Gasket disk	AISI 304	26	O-ring	NBR
6	Shaft	AISI 303 steel (part in contact with liquid)	34	Impeller nut	AISI 304
7	Impeller	AISI 304	52	Capacitor housing [2]	ABS
11	Mechanical seal	Carbon/Ceramic/NBR	53	Capacitor housing cover [2]	ABS
12	Motor casing	-	56	Terminal block cover gasket	NBR
13	Motor cover	Aluminium	75	Washer	AISI 304
14	Fan	PA	76	Washer	AISI 304
15	Fan cover	Fe P04 galvanised	77	O-ring	NBR
16	Terminal block	-	78	O-ring	NBR
17	Terminal block cover [1]	Aluminium	90	Base enclosure gasket	NBR
19	Pump side bearing	-	92	Seal ring (pump side)	NBR
20	Motor side bearing	-	93	Seal ring (motor side)	NBR
21	Compensator ring	C70 steel	110	Motor protection device [3]	-
22	Linkage	Fe 42 galvanised	234	Circlip	Carbon
23	Condenser [2]	-			

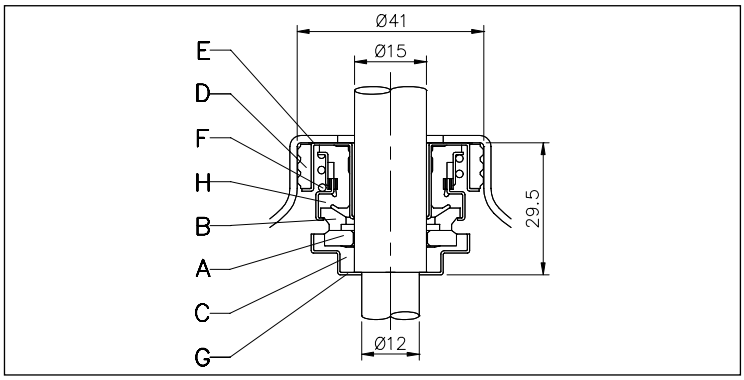
[1]= Three phase only
[2]= Single phase only
[3]= Single phase model LPS 50/150M only

LPS

IN-LINE CENTRIFUGAL ELECTRIC PUMPS

in AISI 304 stainless steel

MECHANICAL SEAL LPS



MATERIALS TABLE

Ref.	Name	Material
A	Rotary section	Ceramic
B	Fixed section	Carbon
C	Gasket	NBR
D	Bellows	NBR
E	Ring	AISI 304
F	Spring	AISI 304
G	Structure/frame	AISI 304
H	Circlip	NBR

ELECTRICAL DATA TABLE

Model		P_2		Efficiency		Capacitor Single phase		Efficiency (%) Three phase			P_1		Absorbed current [A]		
Single phase 230V	Three phase 230/400V	[HP]	[kW]	Single Phase	Three Phase	µF	V_c	η % 50%	η % 75%	η % 100%	Single phase [kW]	Three phase [kW]	Single phase 230V	Three phase 230V	Three phase 400V
LPS 25/08M	LPS 25/08	0.1	0.08	-	-	12.5	450	-	-	-	0.29	0.27	1.51	1.7	1.01
LPS 25/15M	LPS 25/15	0.2	0.15	-	-	12.5	450	-	-	-	0.34	0.33	1.67	1.8	1.03
LPS 25/25M	LPS 25/25	0.33	0.25	-	-	12.5	450	-	-	-	0.45	0.44	2.04	1.9	1.11
LPS 32/25M	LPS 32/25	0.33	0.25	-	-	12.5	450	-	-	-	0.43	0.41	2.0	1.8	1.03
LPS 32/40M *	LPS 32/40 *	0.5	0.4	-	-	12.5	450	-	-	-	0.62	0.63	2.74	2.2	1.25
LPS 40/25M	LPS 40/25	0.33	0.25	-	-	12.5	450	-	-	-	0.43	0.42	1.98	1.9	1.09
LPS 40/40M *	LPS 40/40 *	0.5	0.4	-	-	12.5	450	-	-	-	0.62	0.63	2.75	2.2	1.25
LPS 40/75M *	LPS 40/75 *	1	0.75	-	IE2	25	450	77.2	80.9	81.3	1.07	0.92	4.86	3.0	1.7
-		1	0.75	-	IE3	-	-	80.9	82.3	82.1	-	0.91	-	3.0	1.7
LPS 50/40M *	LPS 50/40	0.5	0.4	-	-	12.5	450	-	-	-	0.62	0.61	2.74	2.2	1.25
LPS 50/75M *	LPS 50/75 *	1	0.75	-	IE2	25	450	77.2	80.9	81.3	1.08	0.92	4.9	3.0	1.7
-		1	0.75	-	IE3	-	-	80.9	82.3	82.1	-	0.91	-	3.0	1.7
LPS 50/150M *	LPS 50/150 *	2	1.5	-	IE2	40	450	78.6	83.0	84.2	1.82	1.78	8.07	6.3	3.7
-		2	1.5	-	IE3	-	-	82.7	86.1	87.0	-	1.72	-	6.6	3.8

* Models not available in the EU

NOISE DATA TABLE

Model		P_2		L_{pA} - dB(A)*
Single phase 230V	Three phase 230/400V	[HP]	[kW]	
LPS 25/08M	LPS 25/08	0.1	0.08	60
LPS 25/15M	LPS 25/15	0.2	0.15	
LPS 25/25M	LPS 25/25	0.33	0.25	
LPS 32/25M	LPS 32/25	0.33	0.25	61
LPS 32/40M	LPS 32/40	0.5	0.4	
LPS 40/25M	LPS 40/25	0.33	0.25	61
LPS 40/40M	LPS 40/40	0.5	0.4	
LPS 40/75M	LPS 40/75	1	0.75	62
LPS 50/40M	LPS 50/40	0.5	0.4	62
LPS 50/75M	LPS 50/75	1	0.75	63
LPS 50/150M	LPS 50/150	2	1.5	65

* Mean noise level measured at 1 m from the electric pump.
Tolerance ± 2.5 dB.

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.ebaraeurope.com

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,

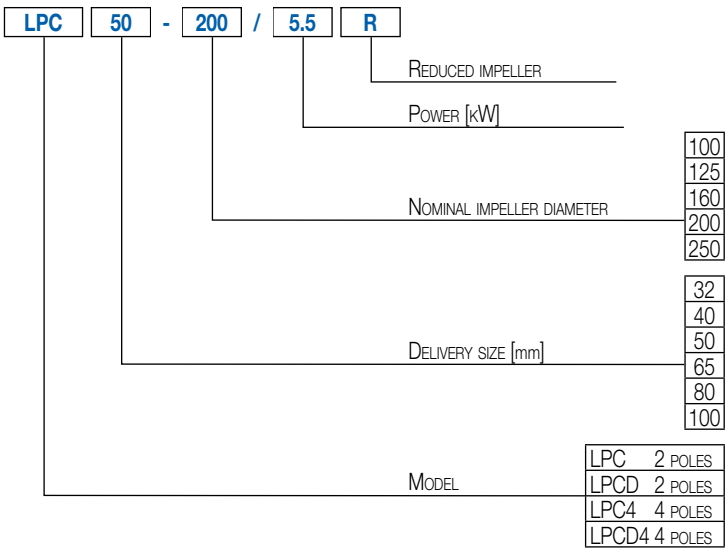
MATERIALS

- 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



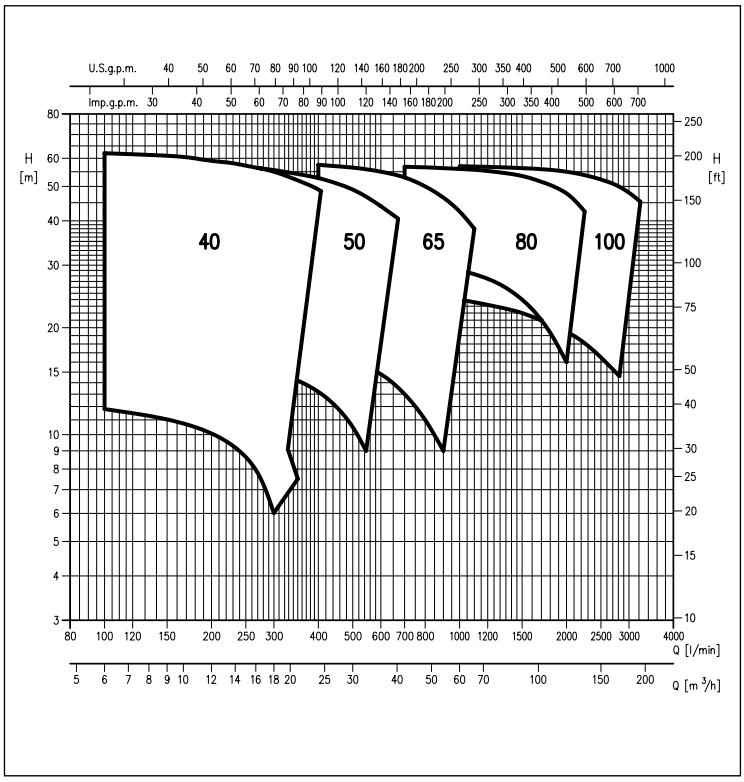
LPC - LPCD

IN-LINE CENTRIFUGAL ELECTRIC PUMPS

in cast iron

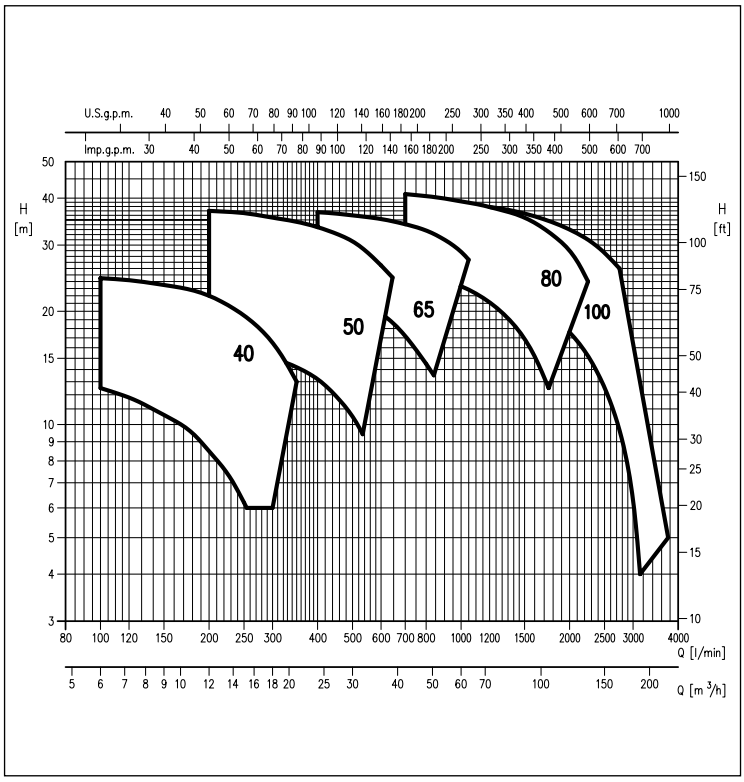
PERFORMANCE RANGE series LPC — 2 Poles

(per ISO 9906 Annex A)



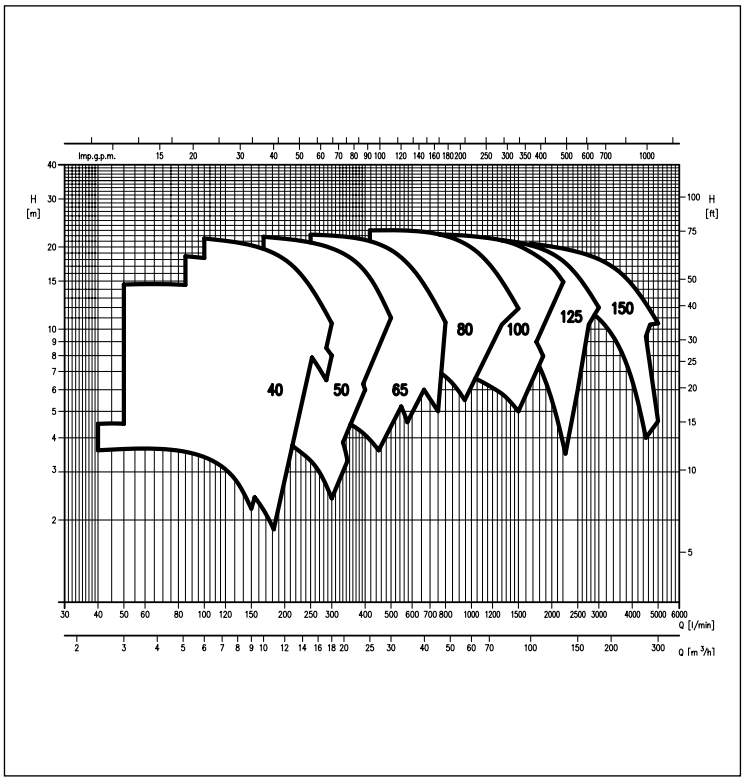
PERFORMANCE RANGE series LPCD — 2 Poles

(per ISO 9906 Annex A)



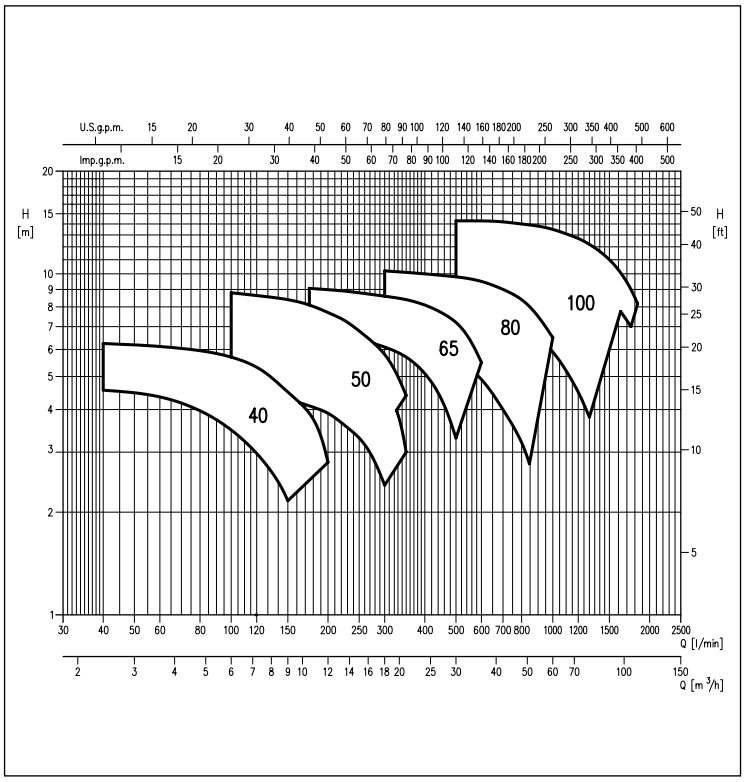
PERFORMANCE RANGE series LPC4 — 4 Poles

(per ISO 9906 Annex A)



PERFORMANCE RANGE series LPCD4 — 4 Poles

(per ISO 9906 Annex A)



LPC - LPCD

IN-LINE CENTRIFUGAL ELECTRIC PUMPS

in cast iron

PERFORMANCE TABLE LPC

2 Poles

Model Three phase 230/400/690V	P_2 [HP]	P_2 [kW]	Q=Flow rate l/min	50	100	125	150	175	200	225	250	300	350	400	450	500	600
			m^3/h	3	6	7.5	9	10.5	12	13.5	15	18	21	24	27	30	36
			H=Head [m]														
LPC 32-100/0.37	0.5	0.37		10.7	10.0	9.3	8.4	7.3	6.0	-	-	-	-	-	-	-	-
LPC 40-100/0.55	0.75	0.55		-	11.7	11.4	11.0	10.5	9.9	8.5	8.5	7.0	-	-	-	-	-
LPC 40-100/0.75	1	0.75		-	13.5	13.3	13.0	12.5	12.0	10.7	10.7	9.0	7.0	-	-	-	-
LPC 40-125/0.75	1	0.75		-	15.3	14.5	13.7	12.8	11.5	9.0	9.0	6.0	-	-	-	-	-
LPC 40-125/1.1	1.5	1.1		-	20.5	19.7	19.0	18.1	17.1	14.5	14.5	11.2	7.5	-	-	-	-
LPC 40-125/1.5	2	1.5		-	24.5	24.1	23.5	22.9	22.0	19.5	19.5	16.5	13	-	-	-	-
LPC 40-160/2.2	3	2.2		-	28.5	28.0	27.4	26.5	25.5	23.1	23.1	20.0	15.0	-	-	-	-
LPC 40-160/3R	4	3		-	33.5	33.0	32.5	32.0	31.0	29.0	29.0	26.0	22.5	-	-	-	-
LPC 40-160/3	4	3		-	38.0	37.5	36.8	35.8	35.0	32.5	32.5	30	26.5	-	-	-	-
LPC 40-200/4	5.5	4		-	47.0	46.5	46.0	45.0	44.0	42.0	42.0	39.2	36.1	33.0	-	-	-
LPC 40-200/5.5	7.5	5.5		-	55.0	54.5	54.0	53.5	53.0	51.0	51.0	48.5	46.0	42.5	-	-	-
LPC 40-200/7.5	10	7.5		-	62.0	61.5	61.0	60.0	59.0	57.0	57.0	55.0	52.0	49.0	45.0	40.0	-
LPC 50-125/1.5	2	1.5		-	-	-	-	-	16.0	15.5	15.5	15.0	14.2	13.2	11.9	10.5	7.0
LPC 50-125/2.2	3	2.2		-	-	-	-	-	19.5	19.1	19.1	18.5	17.5	16.6	15.5	14.1	10.5
LPC 50-125/3	4	3		-	-	-	-	-	24.7	24.5	24.5	24.2	23.7	23.0	21.8	20.5	17.0
LPC 50-160/3	4	3		-	-	-	-	-	30.5	29.9	29.9	29.0	27.8	26.5	24.9	23.0	18.0
LPC 50-160/4	5.5	4		-	-	-	-	-	37.0	36.5	36.5	35.5	34.6	33.5	32.2	30.7	26.5
LPC 50-200/5.5	7.5	5.5		-	-	-	-	-	46.0	45.0	45.0	44.0	43.0	41.0	39.2	37.0	31.0
LPC 50-200/7.5R	10	7.5		-	-	-	-	-	51.0	51.0	51.0	50.0	48.5	47.0	45.0	42.5	37.0
LPC 50-200/7.5	10	7.5		-	-	-	-	-	57.5	57.0	57.0	55.5	54.0	53.0	51.0	49.0	44.0

Model Three phase 230/400/690V	P_2 [HP]	P_2 [kW]	Q=Flow rate l/min	350	400	450	500	600	700	800	900	1000	1100	1216	1250	1500	1750	2000	2250	2500	2750	3000	3500
			m^3/h	21	24	27	30	36	42	48	54	60	66	73	75	90	105	120	135	150	165	180	210
			H=Head [m]																				
LPC 65-125/2.2	3	2.2		17.5	17.0	16.5	16.0	14.8	13	11.0	9.0	-	-	-	-	-	-	-	-	-	-	-	-
LPC 65-125/3	4	3		-	21.0	20.6	20.1	19.0	17.6	16.0	14.0	12.0	-	-	-	-	-	-	-	-	-	-	-
LPC 65-125/4	5.5	4		-	25.5	25.2	24.8	24.0	22.9	21.5	19.6	17.5	-	-	-	-	-	-	-	-	-	-	-
LPC 65-160/5.5	7.5	5.5		-	32.3	32	31.5	30.8	29.5	28.0	25.8	23.5	-	-	-	-	-	-	-	-	-	-	-
LPC 65-160/7.5	10	7.5		-	36.7	36.4	36.0	35.2	34.1	32.8	31.0	28.8	26.0	23.0	-	-	-	-	-	-	-	-	-
LPC 65-200/11	15	11		-	51.0	50.0	49.0	48.0	45.5	43.0	39.7	36.0	31.5	27.0	-	-	-	-	-	-	-	-	-
LPC 65-200/15	20	15		-	57.5	57.0	56.5	55.0	53.0	50.0	46.5	42.5	38.0	33.8	-	-	-	-	-	-	-	-	-
LPC 80-160/11	13.6	10		-	-	-	-	-	30.5	30.0	29.5	29.0	28.3	27.5	27.0	24.0	20.2	16.0	-	-	-	-	-
LPC 80-160/15R	17	12.5		-	-	-	-	-	36.0	35.5	35.0	34.5	34.0	33.0	32.8	30.0	27.0	23.0	19.0	-	-	-	-
LPC 80-160/15	20	15		-	-	-	-	-	41.0	40.5	39.9	39.2	38.6	37.8	37.5	35.5	32.5	29.0	24.0	-	-	-	-
LPC 80-200/15	20	15		-	-	-	-	-	44.0	44.0	43.5	43.0	42.5	41.8	41.5	39.0	35.5	31.5	-	-	-	-	-
LPC 80-200/18.5	25	18.5		-	-	-	-	-	50.5	50.0	50.0	49.5	49.0	48.8	48.5	46.5	43.0	39.5	35.0	-	-	-	-
LPC 80-200/22	30	22		-	-	-	-	-	57.0	56.5	56.5	56.0	55.5	55.2	55	53.5	51.0	48.0	42.5	-	-	-	-
LPC 100-160/11	13.6	10		-	-	-	-	-	-	-	-	23.5	23.6	23.2	23.0	22.0	20.7	19.5	18.1	16.5	14.0	-	-
LPC 100-160/15R	17	12.5		-	-	-	-	-	-	-	-	28.5	28.2	28.0	27.9	27.0	25.8	24.5	23.0	21.5	20.0	18.0	-
LPC 100-160/15	20	15		-	-	-	-	-	-	-	-	34.0	33.8	33.5	33.3	32.5	31.7	30.5	29.2	27.6	26.0	24.5	-
LPC 100-200/18.5	25	18.5		-	-	-	-	-	-	-	-	42.0	41.5	41.2	41.0	40.0	38.6	37.0	35.0	33.0	30.5	28.0	-
LPC 100-200/22	30	22		-	-	-	-	-	-	-	-	47.0	46.5	46.6	46.7	45.5	44.5	43.0	41.0	39.0	36.7	34.0	-
LPC 100-200/30	40	30		-	-	-	-	-	-	-	-	-	-	-	54.0	53.0	52.0	50.5	49.0	47.0	45.0	42.5	37.0
LPC 100-200/37	50	37		-	-	-	-	-	-	-	-	-	-	-	56.5	56.5	56.0	55.0	54.0	52.5	50.5	48.0	42.0
LPC 100-250/37	50	37		-	-	-	-	-	-	-	-	-	-	-	67.5	67.0	66.0	65.0	63.5	61.0	58.0	55.0	47.0

LPC - LPCD

IN-LINE CENTRIFUGAL ELECTRIC PUMPS

in cast iron

PERFORMANCE TABLE LPCD

2 Poles

Model Three phase 230/400/690V	P_2 [HP]	P_2 [kW]	Q=Flow rate 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
			H=Head [m]													
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 [HP]	P_2 [kW]	Q=Flow rate 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
			H=Head [m]																			
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	-	-	-	-

LPC - LPCD

IN-LINE CENTRIFUGAL ELECTRIC PUMPS

in cast iron

PERFORMANCE TABLE LPC4

4 Poles

Model Three phase 230/400/690V	P_2 [HP]	P_2 [kW]	Q=Flow rate l/min	30	40	50	75	85	100	125	150	167	175	200	225	250	300	350	400	417	450	500
			m^3/h	1.8	2.4	3	4.5	5.1	6	7.5	9	10	10.5	12	13.5	15	18	21	24	25	27	30
			H=Head [m]																			
LPC4 32-100/0.25	0.33	0.25		3.3	3.2	3.1	2.7	2.5	2.1	1.2	-	-	-	-	-	-	-	-	-	-	-	-
LPC4 40-100/0.25	0.33	0.25		-	3.6	3.6	3.5	3.4	3.3	2.9	2.5	2.2	2.0	1.5	-	-	-	-	-	-	-	-
LPC4 40-125/0.25R	0.33	0.25		-	4.5	4.4	4.1	3.9	3.7	3.0	2.2	-	-	-	-	-	-	-	-	-	-	-
LPC4 40-125/0.25	0.33	0.25		-	-	6.2	6.0	5.9	5.7	5.2	4.5	4.1	3.9	2.8	-	-	-	-	-	-	-	-
LPC4 40-160/0.37	0.55	0.37		-	-	9.4	9.2	9.1	8.9	8.4	7.7	7.4	6.9	5.8	4.7	-	-	-	-	-	-	-
LPC4 40-200/0.75	1	0.75		-	-	-	12.8	12.6	12.4	11.9	11.3	11.0	10.6	9.8	9.0	8.0	6.0	-	-	-	-	-
LPC4 40-200/1.1	1.5	1.1		-	-	-	14.6	14.5	14.3	13.8	13.3	13.0	12.7	11.8	10.9	10.0	8.0	-	-	-	-	-
LPC4 40-250/1.1	1.5	1.1		-	-	-	-	18.5	18.0	17.5	17	16.3	16	14.5	13.0	11.0	-	-	-	-	-	-
LPC4 40-250/1.5	2	1.5		-	-	-	-	-	21.5	21	20.5	19.7	19.5	18	16.5	15	-	-	-	-	-	-
LPC4 50-125/0.25	0.3	0.25		-	-	-	-	-	4.6	4.5	4.3	4.2	4.1	3.9	3.6	3.3	2.4	-	-	-	-	-
LPC4 50-125/0.37	0.55	0.37		-	-	-	-	-	6.3	6.2	6.1	6.0	6.0	5.8	5.6	5.3	4.6	3	-	-	-	-
LPC4 50-160/0.55	0.75	0.55		-	-	-	-	-	8.8	8.6	8.4	8.2	8.1	7.7	7.3	6.8	5.8	4.4	-	-	-	-
LPC4 50-200/1.1R	1.5	1.1		-	-	-	-	-	12.7	12.5	12.1	12	11.7	11.2	10.7	10.1	8.5	6.8	-	-	-	-
LPC4 50-200/1.1	1.5	1.1		-	-	-	-	-	14.2	14	13.8	13.7	13.4	13.0	12.5	11.8	10.2	8.3	6.0	-	-	-
LPC4 50-250/1.5	2	1.5		-	-	-	-	-	-	-	-	17.5	17.4	17.0	16.6	16.2	15.0	13.7	12.0	11.0	10.0	-
LPC4 50-250/2.2	3	2.2		-	-	-	-	-	-	-	-	21.8	21.7	21.4	21.0	20.5	19.5	18.5	17.0	15.4	14.0	11.0

Model Three phase 230/400/690V	P_2 [HP]	P_2 [kW]	Q=Flow rate l/min	150	167	175	200	225	250	300	350	400	417	450	500	600	700	750	800	900	1000	1100	1200	1300	1500
			m^3/h	9	10	10.5	12	13.5	15	18	21	24	25	27	30	36	42	45	48	54	60	66	72	78	90
			H=Head [m]																						
LPC4 65-125/0.37	0.55	0.37		5.3	5.3	5.3	5.2	5.1	5.0	4.8	4.5	4.1	3.7	3.6	3.0	-	-	-	-	-	-	-	-	-	-
LPC4 65-125/0.55	0.75	0.55		6.4	6.4	6.3	6.2	6.1	6.0	5.8	5.5	5.2	5.1	4.9	4.4	-	-	-	-	-	-	-	-	-	-
LPC4/E 65-160/0.75	1	0.75		-	-	-	8.1	8.0	7.9	7.8	7.4	7.0	6.8	6.6	6.0	4.0	-	-	-	-	-	-	-	-	-
LPC4/E 65-160/1.1	1.5	1.1		-	-	-	9.0	8.9	8.8	8.7	8.4	8.1	7.9	7.7	7.2	5.5	-	-	-	-	-	-	-	-	-
LPC4/E 65-200/1.1	1.5	1.1		-	-	-	12.3	12.2	12	11.5	10.8	10.0	9.4	9.0	8.0	5.8	-	-	-	-	-	-	-	-	-
LPC4/E 65-200/1.5	2	1.5		-	-	-	14.1	14.1	14.4	13.6	13.0	12.1	11.9	11.2	10.1	7.8	5.0	-	-	-	-	-	-	-	-
LPC4/E 65-250/2.2	3	2.2		-	-	-	-	-	18.0	17.5	17.0	16.0	15.8	15.0	14.0	11.8	9.5	8.5	-	-	-	-	-	-	-
LPC4/E 65-250/3	4	3		-	-	-	-	-	22.3	22	21.5	21.0	20.8	20.2	19.4	17.3	14.0	12.5	10.6	-	-	-	-	-	-
LPC4/E 80-160/0.75	1	0.75		-	-	-	-	-	-	6.3	6.1	6.0	5.9	5.8	5.6	4.9	4.0	3.6	-	-	-	-	-	-	-
LPC4/E 80-160/1.1R	1.5	1.1		-	-	-	-	-	-	7.3	7.2	7.1	7.1	7.0	6.8	6.3	5.6	5.3	4.8	3.8	-	-	-	-	-
LPC4/E 80-160/1.1	1.5	1.1		-	-	-	-	-	-	8.5	8.5	8.4	8.4	8.3	8.2	7.9	7.3	7.1	6.7	5.9	5.0	-	-	-	-
LPC4/E 80-160/1.5	2	1.5		-	-	-	-	-	-	10.2	10.1	10.0	10.0	9.9	9.8	9.5	9.0	8.8	8.4	7.5	6.5	-	-	-	-
LPC4/E 80-200/2.2	3	2.2		-	-	-	-	-	-	-	-	12.5	12.5	12.4	12.3	12.1	11.7	11.2	11.1	10.4	9.6	8.5	-	-	-
LPC4/E 80-200/3	4	3		-	-	-	-	-	-	-	-	15.3	15.3	15.2	15.1	15.0	14.6	14.2	14.2	13.6	12.8	11.9	11.0	-	-
LPC4/E 80-250/4	5.5	4		-	-	-	-	-	-	-	19.9	19.8	19.8	19.7	19.5	19.0	18.4	18.0	17.5	16.5	15.2	13.8	12.0	10.5	-
LPC4/E 80-250/5.5	7.5	5.5		-	-	-	-	-	-	-	-	-	23.0	22.9	22.8	22.5	22.0	21.8	21.5	20.6	19.7	18.7	17.5	15.5	12.0

Model Three phase 230/400/690V	P_2 [HP]	P_2 [kW]	Q=Flow rate l/min	600	667	700	800	833	900	1000	1100	1200	1250	1300	1500	1667	1750	2000	2250	2500	2750	3000	3500	4000	4500	4667	5000
			m^3/h	36	40	42	48	50	54	60	66	72	75	78	90	100	105	120	135	150	165	180	210	240	270	280	300
			H=Head [m]																								
LPC4 100-160/1.5	2	1.5		7.7	7.6	7.5	7.2	7.1	7.0	6.7	6.4	6.1	6.0	5.8	5.0	-	-	-	-	-	-	-	-	-	-	-	-
LPC4 100-160/2.2	3	2.2		9.7	9.6	9.5	9.4	9.3	9.1	8.8	8.5	8.2	8.0	7.9	7.1	6.3	6.0	-	-	-	-	-	-	-	-	-	-
LPC4 100-200/3	4	3		12.0	11.9	11.8	11.5	11.4	11.3	10.9	10.5	10.0	9.6	9.5	8.5	7.5	7.0	-	-	-	-	-	-	-	-	-	-
LPC4 100-200/4	5.5	4		14.4	14.3	14.2	14.0	13.9	13.8	13.4	13.1	12.7	12.4	12.2	11.0	9.7	9.0	6.5	-	-	-	-	-	-	-	-	-
LPC4 100-250/5.5	7.5	5.5		-	-	-	19.2	19.0	18.9	18.5	18.1	17.7	17.5	17.2	16.0	14.9	14.5	12.0	-	-	-	-	-	-	-	-	-	-
LPC4 100-250/7.5	10	7.5		-	-	-	22.3	22.2	22.1	21.9	21.7	21.3	21.1	21.0	20.0	19.0	18.5	16.8	14.5	-	-	-	-	-	-	-	-	-
LPC4125-250/5.5R	7.5	5.5		-	12.7	12.6	12.4	12.3	12.2	11.9	11.8	11.0	10.9	10.6	9.6	8.6	8.0	6.0	3.5	-	-	-	-	-	-	-	-	-
LPC4 125-250/5.5	7.5	5.5		-	-	-	-	15.6	15.5	15.2	15.0	14.6	14.4	14.1	12.4	12.3	12.0	10.0	8.0	6.0	-	-	-	-	-	-	-	-
LPC4 125-250/7.5	10	7.5		-	-	-	-	19.5	19.4	19.2	19.0	18.8	17.7	18.3	18.0	17.5	17.0	15.7	14.0	12.5	10.5	-	-	-	-	-	-	-
LPC4 125-250/11	15	11		-	-	-	-	-	-	21.6	21.4	21.3	21.2	21.2	20.8	20.3	20.0	19.0	17.8	16.2	14.2	12.0	-	-	-	-	-
LPC4 150-250/7.5	10	7.5		-	-	-	-	-	-	-	-	-	15.0	14.9	14.7	14.4	14.3	13.8	13.3	12.6	11.8	11.0	9.0	6.5	4.0	-	-
LPC4 150-250/11R	15	11		-	-	-	-	-	-	-	-	-	-	-	-	16.6	16.5	16.0	15.5	15.0	14.2	13.5	11.8	9.5	7.4	6.8	4.6
LPC4 150-250/11	15	11		-	-	-	-	-	-	-	-	-	18.9	18.8	18.5	18.2	18.0	17.7	17.2	16.7	16.2	15.3	13.6	11.5	9.4	-	-
LPC4 150-250/15R	20	15		-	-	-	-	-	-	-	-	-	20.5	20.4	20.1	19.9	19.8	19.5	19.0	18.6	18.0	17.4	15.7	13.9	11.9	10.5	-
LPC4 150-250/15	20	15		-	-	-	-	-	-	-	-	-	-	-	-	20.8	20.7	20.5	19.8	19.5	19.0	18.5	17.0	15.0	13.0	11.8	10.5

LPC - LPCD

IN-LINE CENTRIFUGAL ELECTRIC PUMPS

in cast iron

PERFORMANCE TABLE LPCD4

4 Poles

Model Three phase 230/400/690V	P_2 [HP]	P_2 [kW]	Q=Flow rate l/min	40	50	75	100	125	150	175	200	225	250	300	350	400	450	500	600
			m^3/h	2.4	3	4.5	6	7.5	9	10.5	12	13.5	15	18	21	24	27	30	36
			H=Head [m]																
LPCD4 40-125/0.25R	0.33	0.25		4.5	4.4	4.1	3.7	3.0	2.2	-	-	-	-	-	-	-	-	-	-
LPCD4 40-125/0.25	0.33	0.25		-	6.2	6.0	5.7	5.2	4.5	3.9	2.8	-	-	-	-	-	-	-	-
LPCD4 50-125/0.25	0.33	0.25		-	-	-	4.6	4.5	4.3	4.1	3.9	3.6	3.3	2.4	-	-	-	-	-
LPCD4 50-125/0.37	0.5	0.37		-	-	-	6.3	6.2	6.1	6.0	5.8	5.6	5.3	4.6	3.0	-	-	-	-
LPCD4 50-160/0.55	0.7	0.5		-	-	-	8.8	8.6	8.4	8.1	7.7	7.3	6.8	5.8	4.4	-	-	-	-
LPCD4 65-160/0.75R	0.75	0.55		-	-	-	-	-	6.8	6.7	6.6	6.5	6.4	6.1	5.7	5.1	4.3	3.3	-
LPCD4 65-160/0.75	1	0.75		-	-	-	-	-	-	-	8.1	8.0	7.9	7.8	7.4	7.0	6.6	6.0	4.0
LPCD4 65-160/1.1	1.25	0.9		-	-	-	-	-	-	-	9.0	8.9	8.8	8.7	8.4	8.1	7.7	7.2	5.5

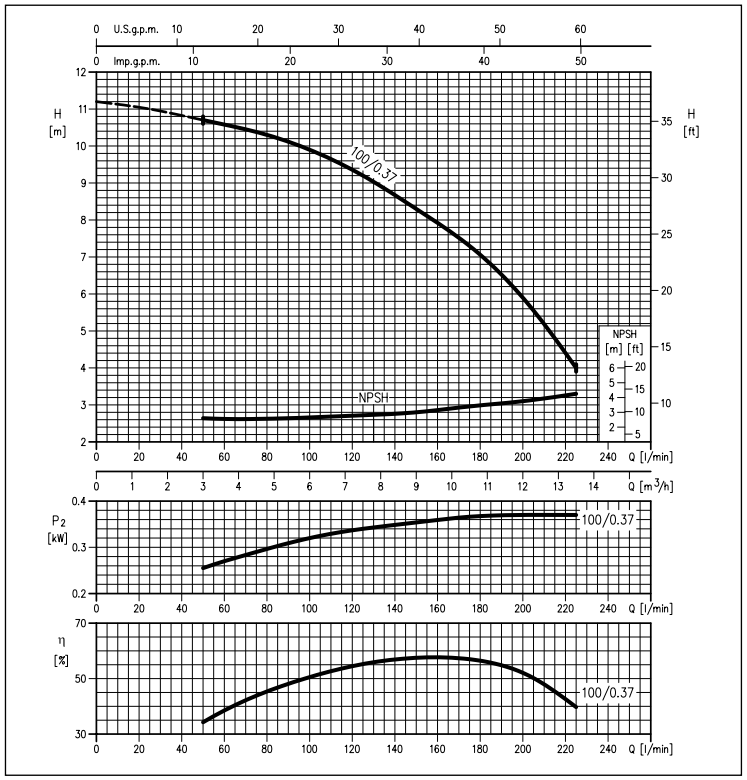
Model Three phase 230/400/690V	P_2 [HP]	P_2 [kW]	Q=Flow rate l/min	300	350	400	450	500	600	700	800	900	1000	1100	1200	1300	1500	1750	2000
			m^3/h	18	21	24	27	30	36	42	48	54	60	66	72	78	90	105	120
			H=Head [m]																
LPCD4 80-160/0.75	1	0.75		6.3	6.1	6.0	5.8	5.6	4.9	4.0	3.2	-	-	-	-	-	-	-	-
LPCD4 80-160/1.1R	1.25	0.9		7.3	7.2	7.1	7.0	6.8	6.3	5.6	4.8	3.8	-	-	-	-	-	-	-
LPCD4 80-160/1.1	1.5	1.1		8.5	8.5	8.4	8.3	8.2	7.9	7.3	6.7	5.9	5.0	-	-	-	-	-	-
LPCD4 80-160/1.5	2	1.5		10.2	10.1	10.0	9.9	9.8	9.5	9.0	8.4	7.5	6.5	-	-	-	-	-	-
LPCD4 100-200/1.5	2	1.5		-	-	-	-	8.1	7.8	7.4	7.0	6.5	5.9	5.2	4.5	3.8	-	-	-
LPCD4 100-200/2.2	3	2.2		-	-	-	-	10.2	10.0	9.7	9.3	9.0	8.6	8.2	7.7	7.2	6.0	-	-
LPCD4 100- 200/3	4	3		-	-	-	-	-	12.0	11.8	11.5	11.3	10.9	10.5	10.0	9.5	8.5	7.0	-
LPCD4 100-200/4	5.5	4		-	-	-	-	-	14.3	14.2	14.0	13.8	13.4	13.1	12.7	12.2	11.0	9.0	6.5

IN-LINE CENTRIFUGAL ELECTRIC PUMPS

in cast iron

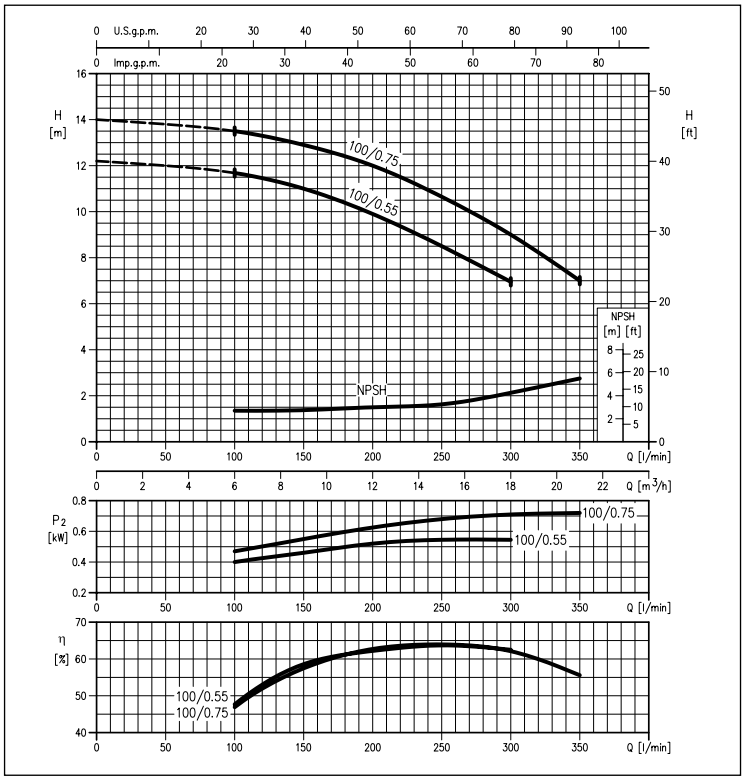
PERFORMANCE CURVES series LPC 32-100 — 2 Poles

(per ISO 9906 Annex A)



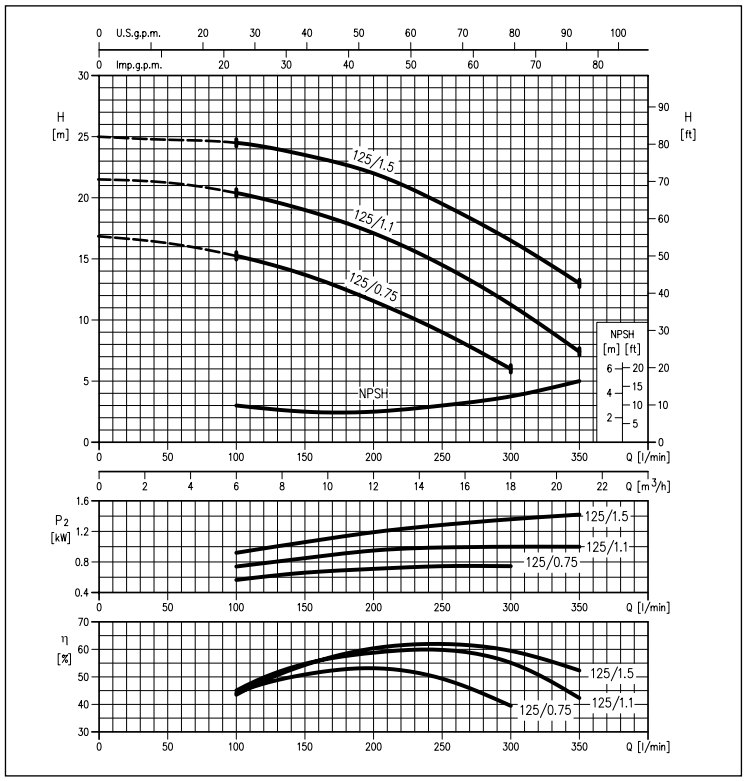
PERFORMANCE CURVES series LPC 40-100 — 2 Poles

(per ISO 9906 Annex A)



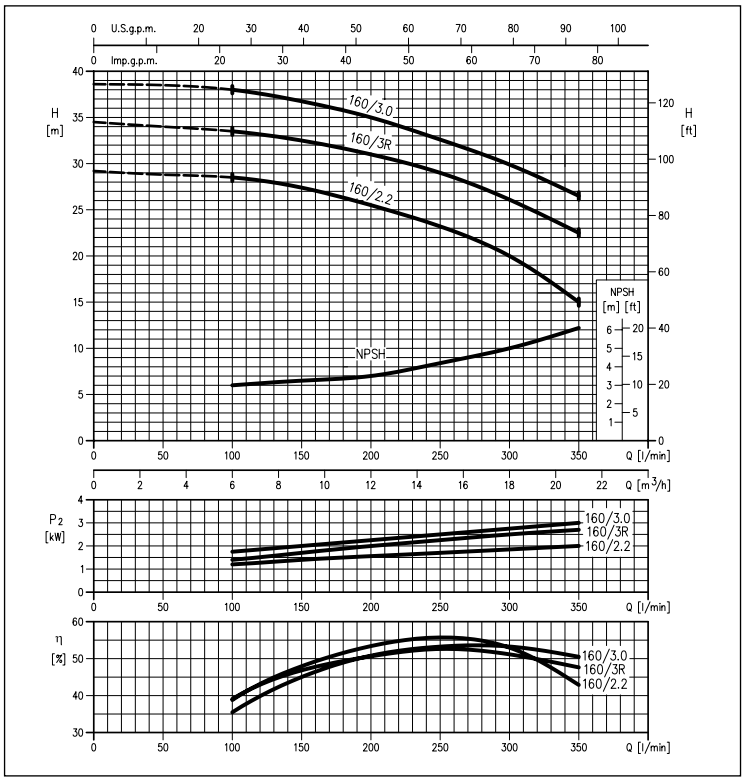
PERFORMANCE CURVES series LPC 40-125 — 2 Poles

(per ISO 9906 Annex A)



PERFORMANCE CURVES series LPC 40-160 — 2 Poles

(per ISO 9906 Annex A)

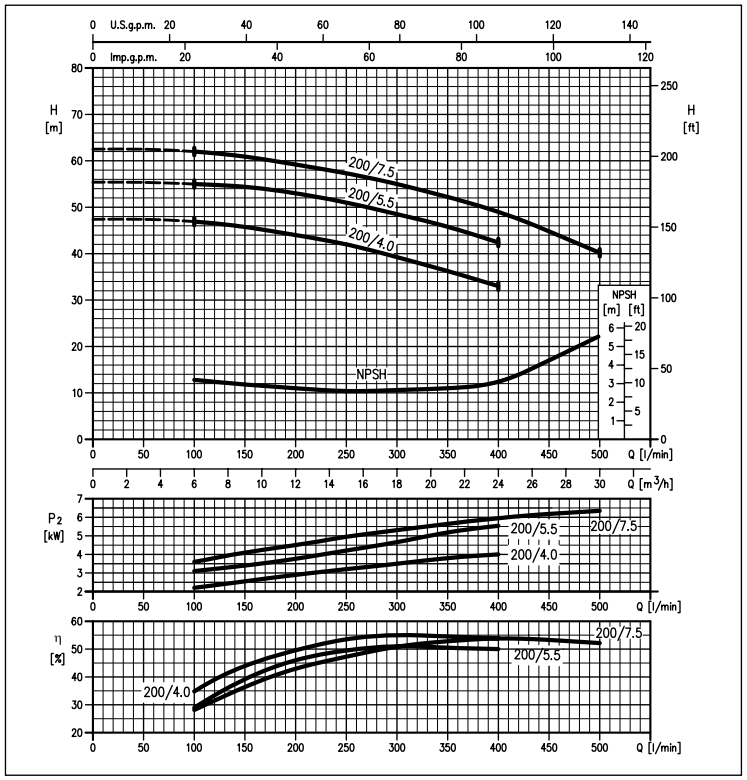


IN-LINE CENTRIFUGAL ELECTRIC PUMPS

in cast iron

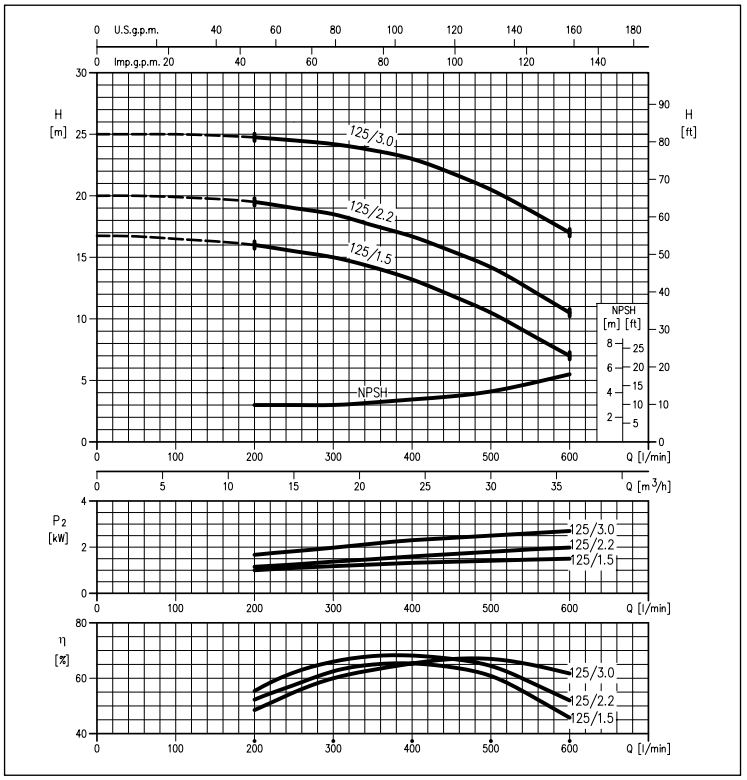
PERFORMANCE CURVES series LPC 40-200 — 2 Poles

(per ISO 9906 Annex A)



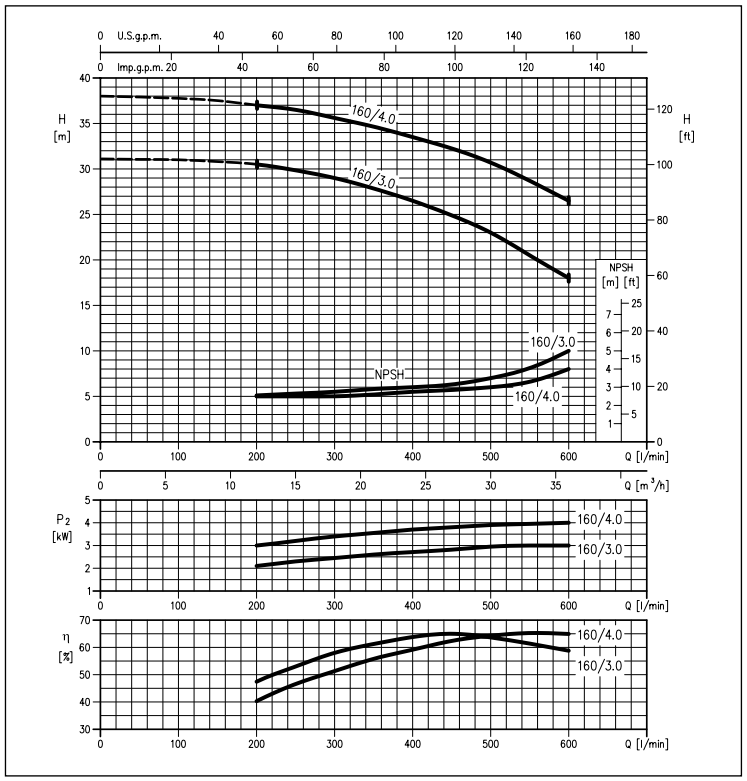
PERFORMANCE CURVES series LPC 50-125 — 2 Poles

(per ISO 9906 Annex A)



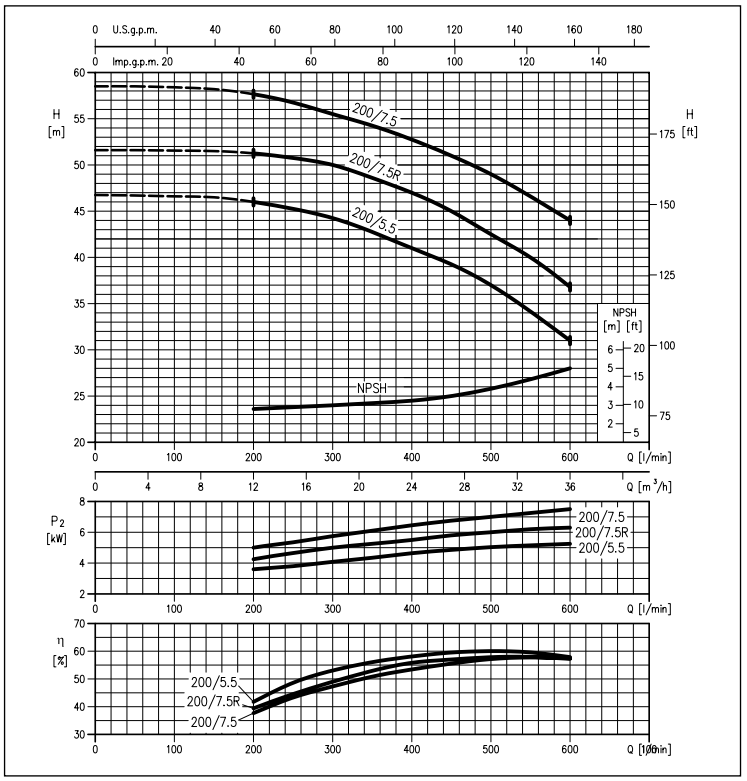
PERFORMANCE CURVES series LPC 50-160 — 2 Poles

(per ISO 9906 Annex A)



PERFORMANCE CURVES series LPC 50-200 — 2 Poles

(per ISO 9906 Annex A)

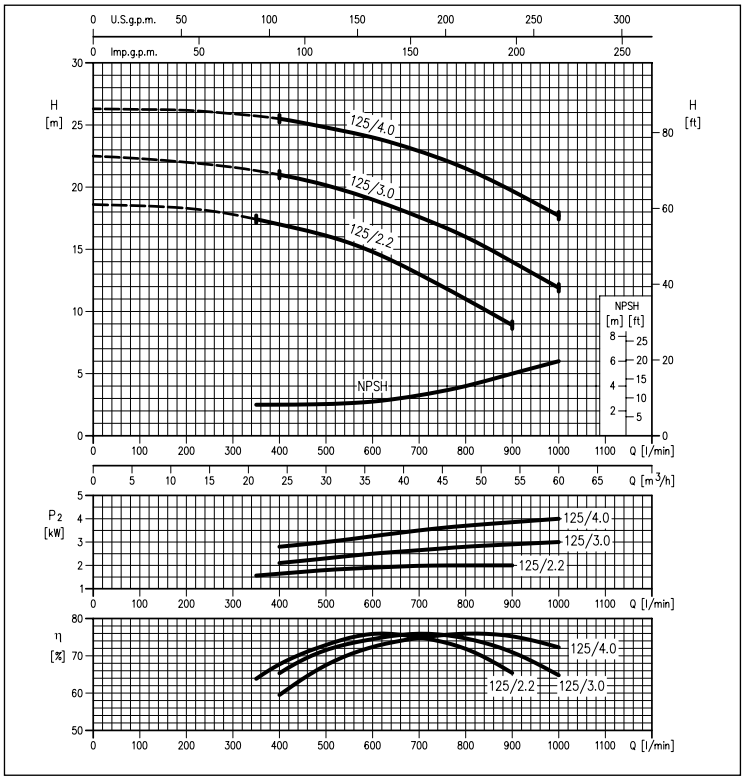


IN-LINE CENTRIFUGAL ELECTRIC PUMPS

in cast iron

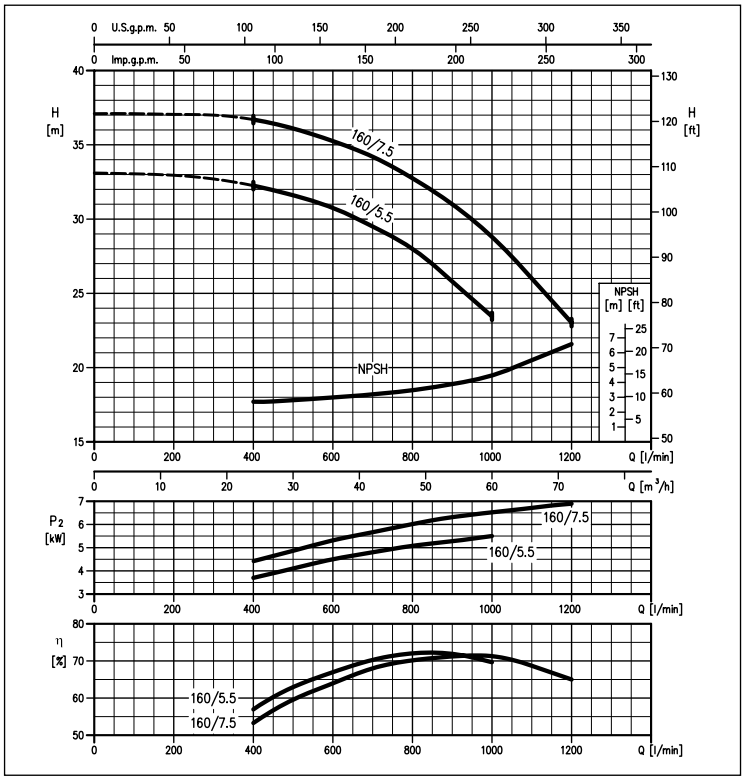
PERFORMANCE CURVES series LPC 65-125 — 2 Poles

(per ISO 9906 Annex A)



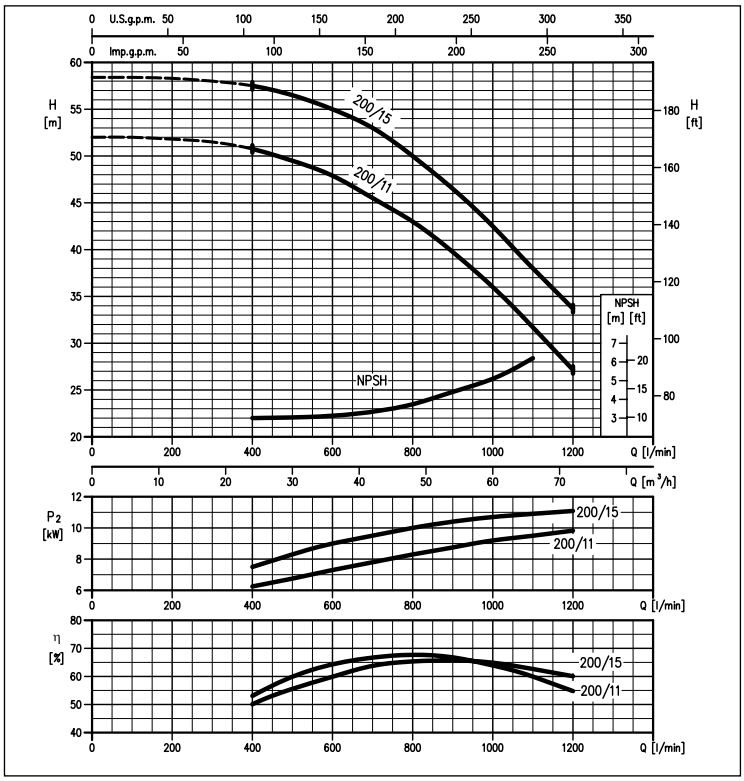
PERFORMANCE CURVES series LPC 65-160 — 2 Poles

(per ISO 9906 Annex A)



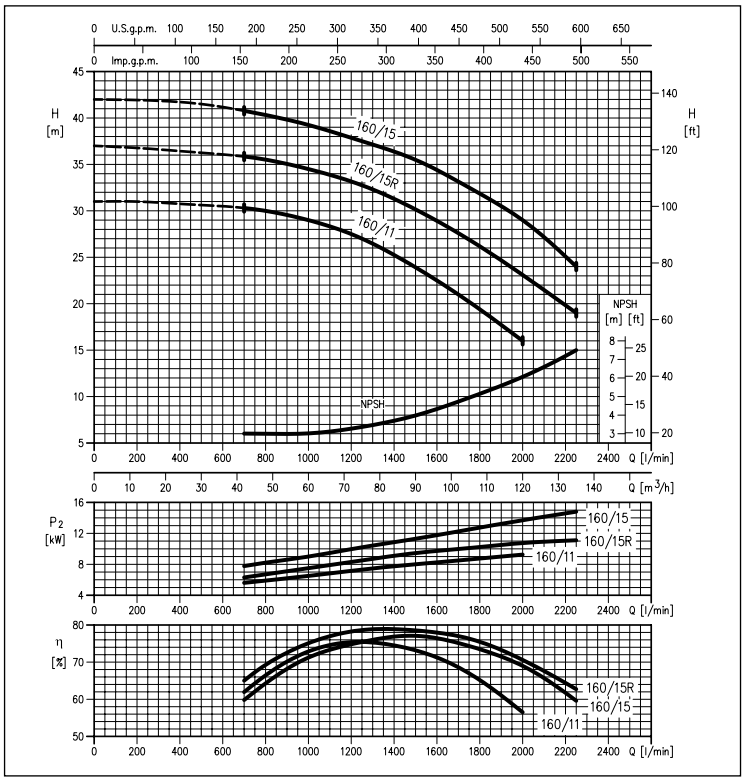
PERFORMANCE CURVES series LPC 65-200 — 2 Poles

(per ISO 9906 Annex A)



PERFORMANCE CURVES series LPC 80-160 — 2 Poles

(per ISO 9906 Annex A)



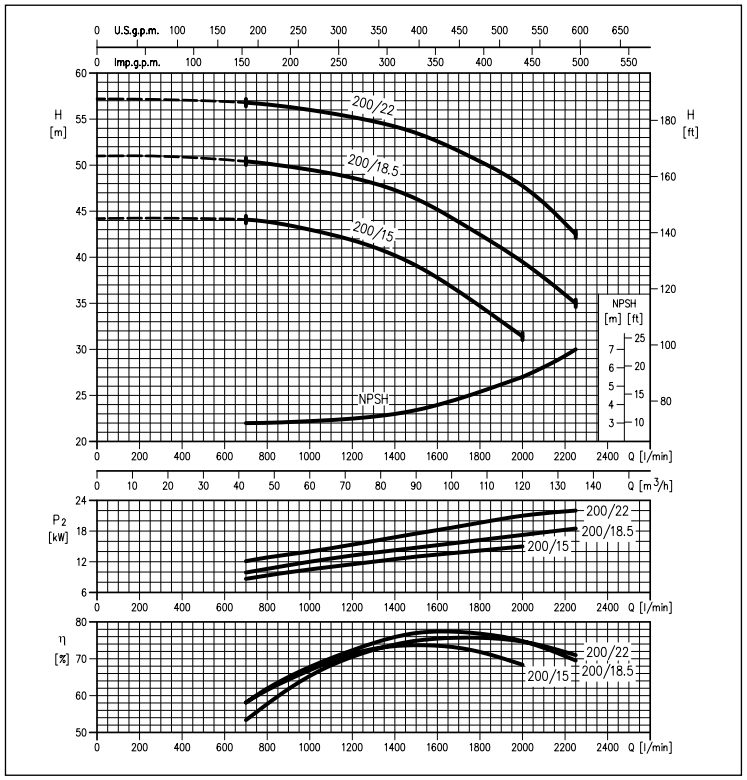
LPC - LPCD

IN-LINE CENTRIFUGAL ELECTRIC PUMPS

in cast iron

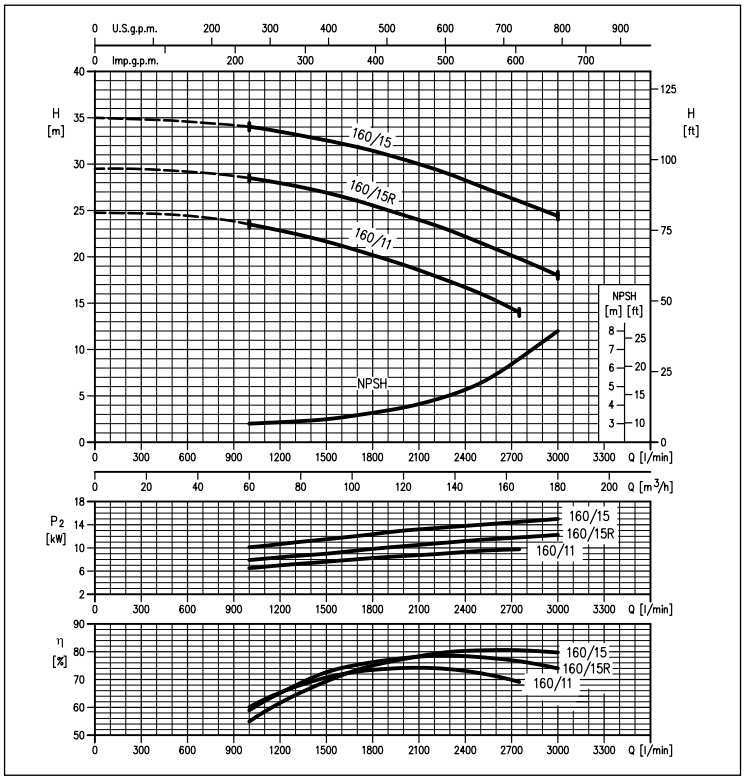
PERFORMANCE CURVES series LPC 80-200 — 2 Poles

(per ISO 9906 Annex A)



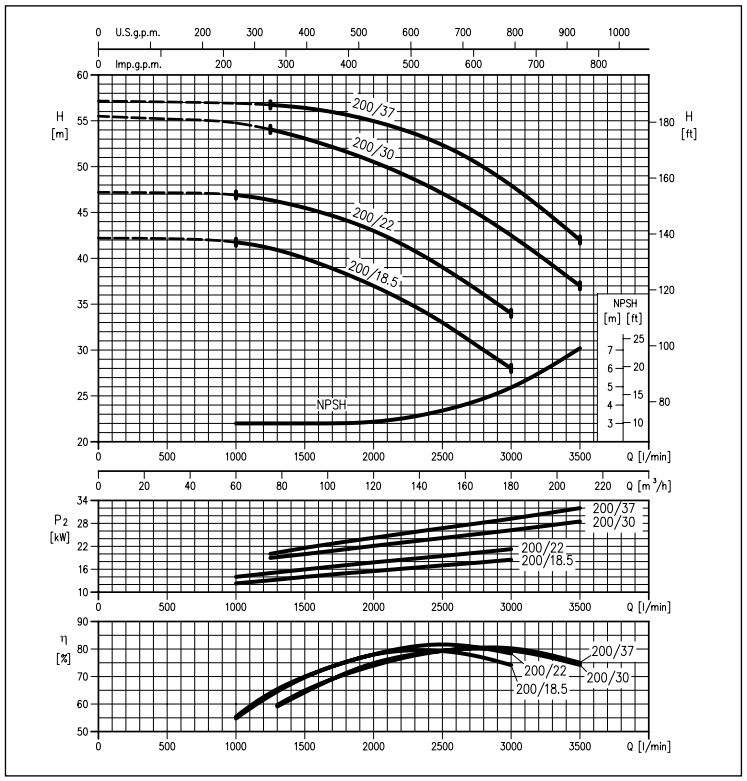
PERFORMANCE CURVES series LPC 100-160 — 2 Poles

(per ISO 9906 Annex A)



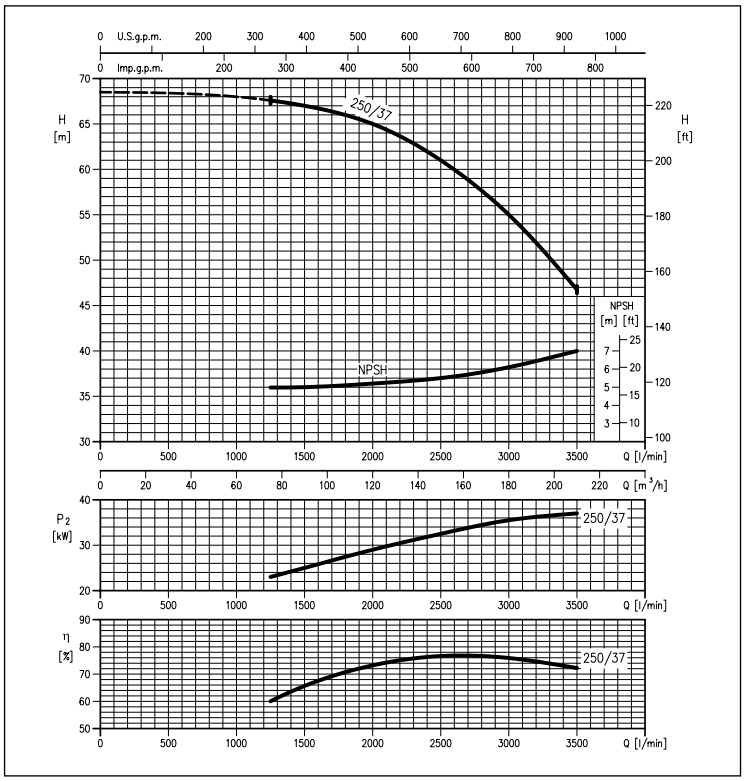
PERFORMANCE CURVES series LPC 100-200 — 2 Poles

(per ISO 9906 Annex A)



PERFORMANCE CURVES series LPC 100-250 — 2 Poles

(per ISO 9906 Annex A)



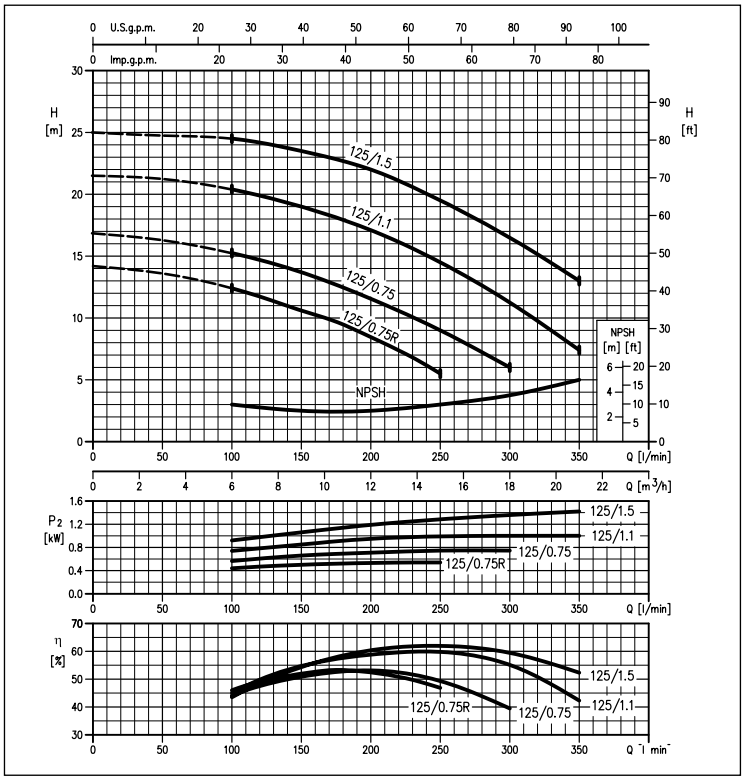
LPC - LPCD

IN-LINE CENTRIFUGAL ELECTRIC PUMPS

in cast iron

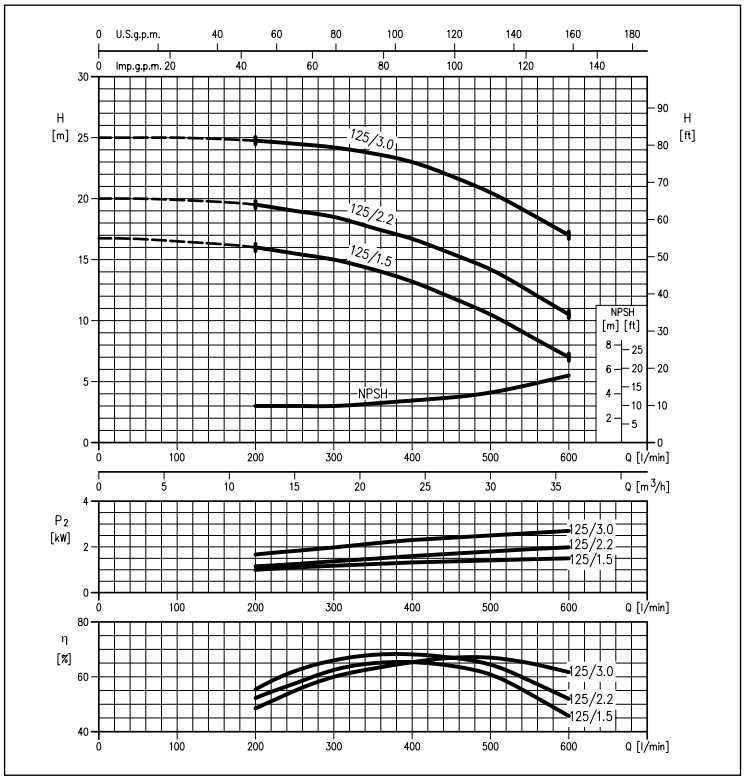
PERFORMANCE CURVES series LPCD 40-125 — 2 Poles

(per ISO 9906 Annex A)



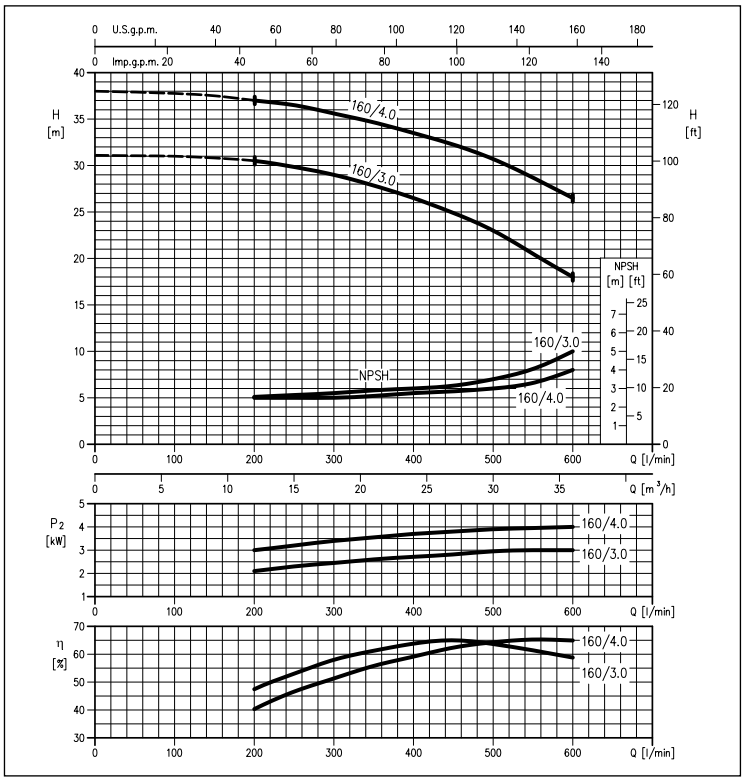
PERFORMANCE CURVES series LPCD 50-125 — 2 Poles

(per ISO 9906 Annex A)



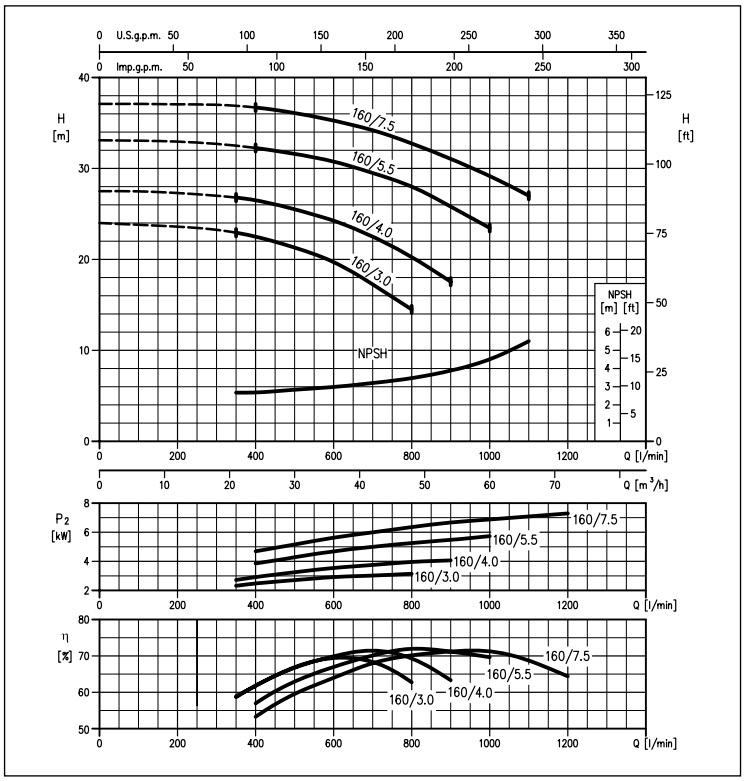
PERFORMANCE CURVES series LPCD 50-160 — 2 Poles

(per ISO 9906 Annex A)



PERFORMANCE CURVES series LPCD 65-160 — 2 Poles

(per ISO 9906 Annex A)

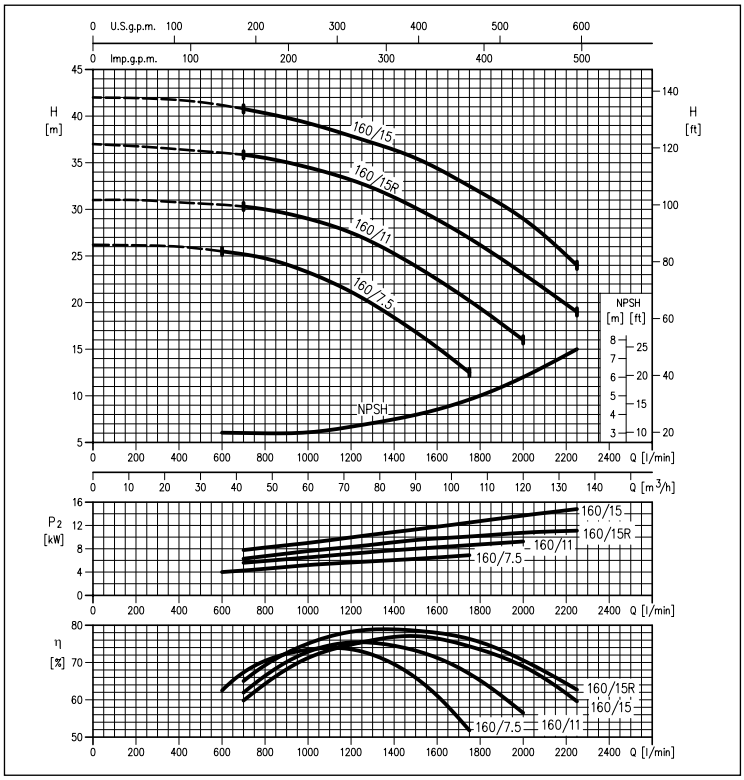


IN-LINE CENTRIFUGAL ELECTRIC PUMPS

in cast iron

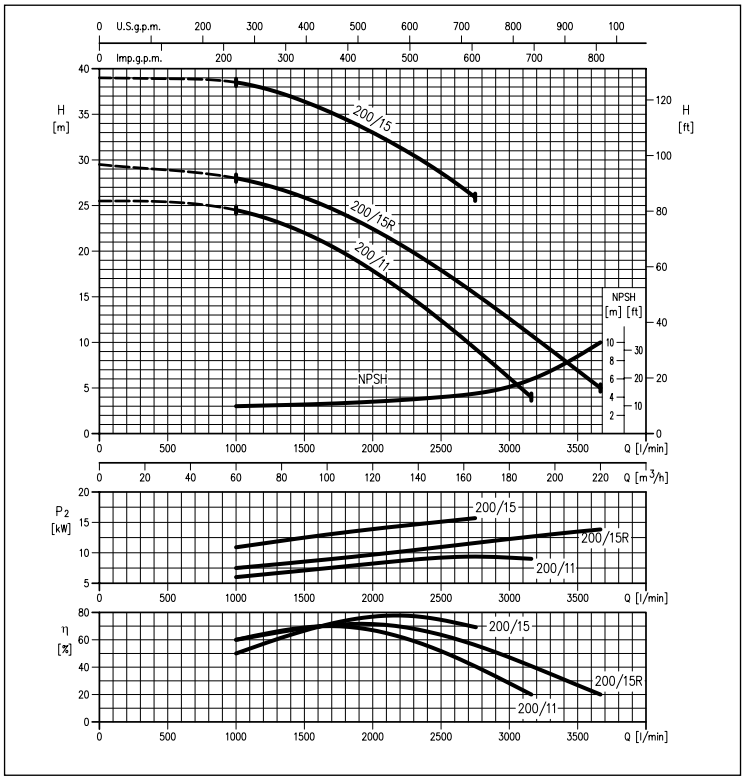
PERFORMANCE CURVES series LPCD 80-160 — 2 Poles

(per ISO 9906 Annex A)



PERFORMANCE CURVES series LPCD 100-200 — 2 Poles

(per ISO 9906 Annex A)



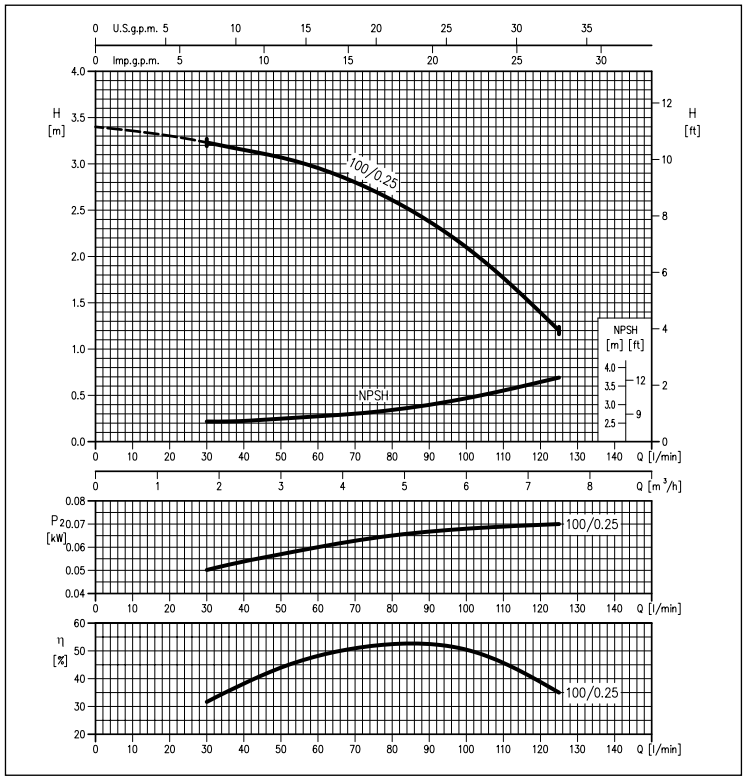
LPC - LPCD

IN-LINE CENTRIFUGAL ELECTRIC PUMPS

in cast iron

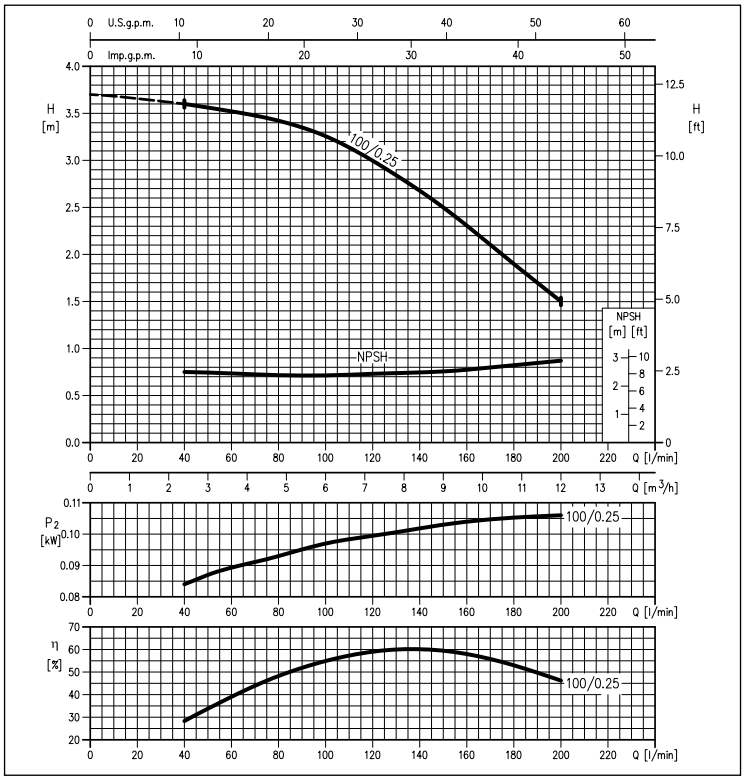
PERFORMANCE CURVES series LPC4 32-100 — 4 Poles

(per ISO 9906 Annex A)



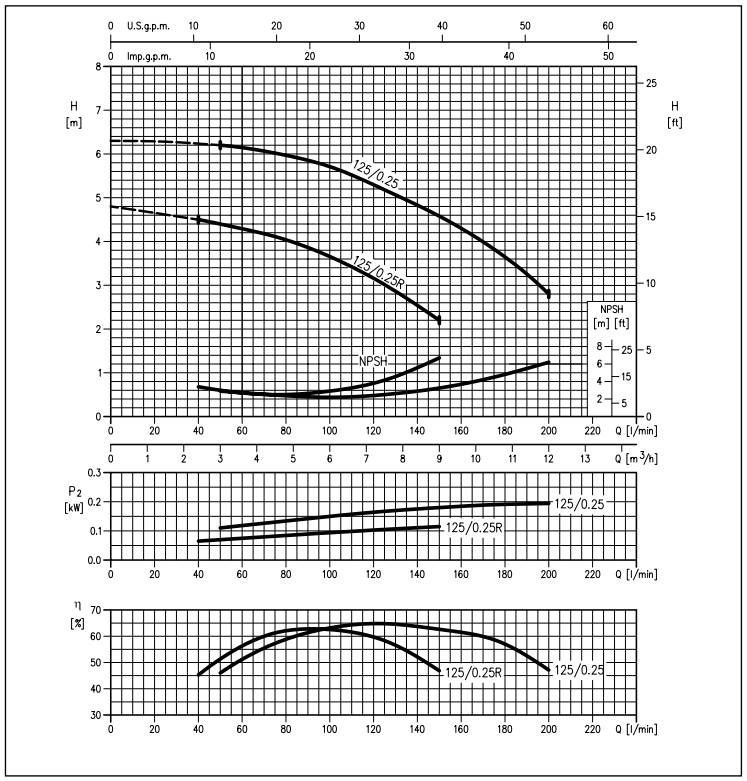
PERFORMANCE CURVES series LPC4 40-100 — 4 Poles

(per ISO 9906 Annex A)



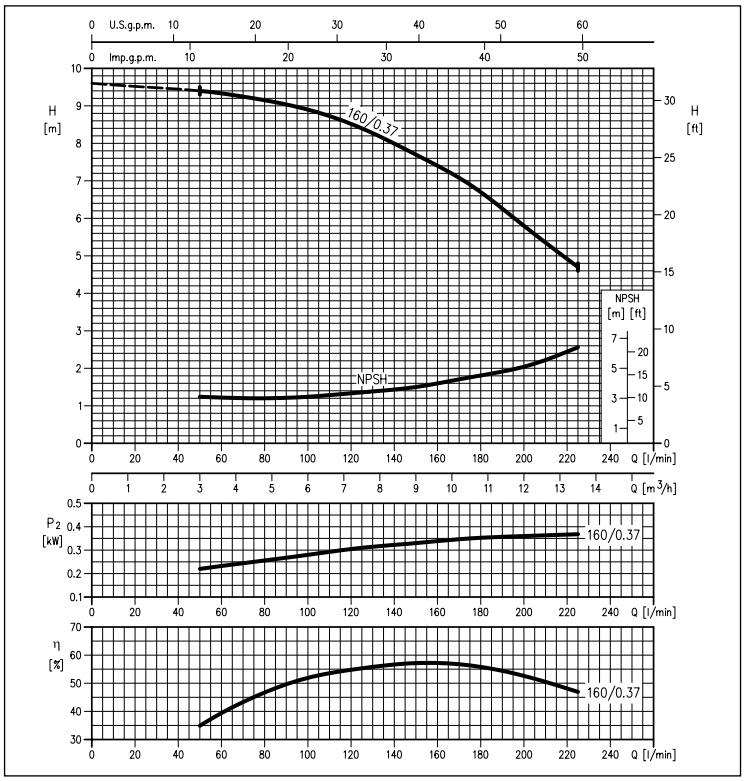
PERFORMANCE CURVES series LPC4 40-125 — 4 Poles

(per ISO 9906 Annex A)



PERFORMANCE CURVES series LPC4 40-160 — 4 Poles

(per ISO 9906 Annex A)



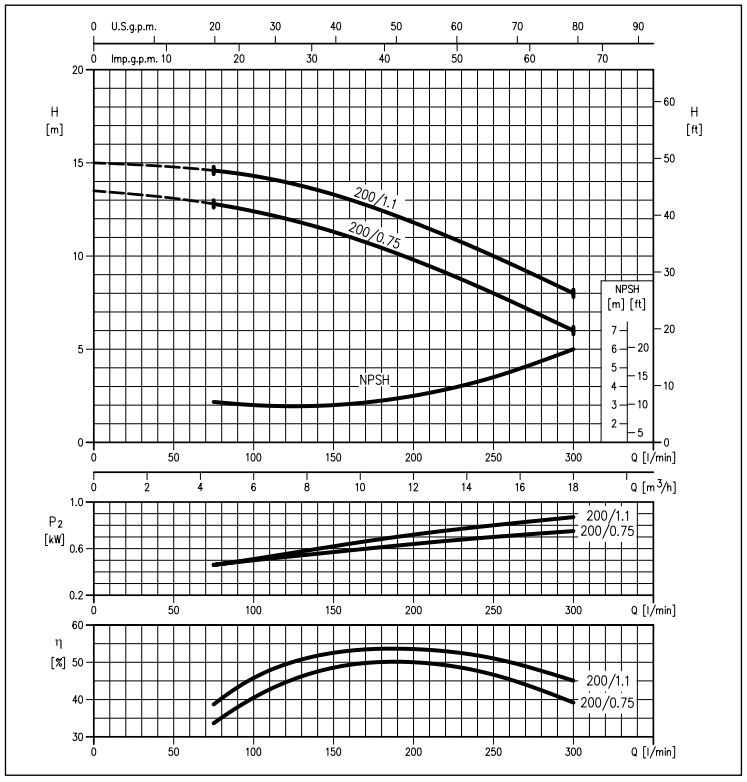
LPC - LPCD

IN-LINE CENTRIFUGAL ELECTRIC PUMPS

in cast iron

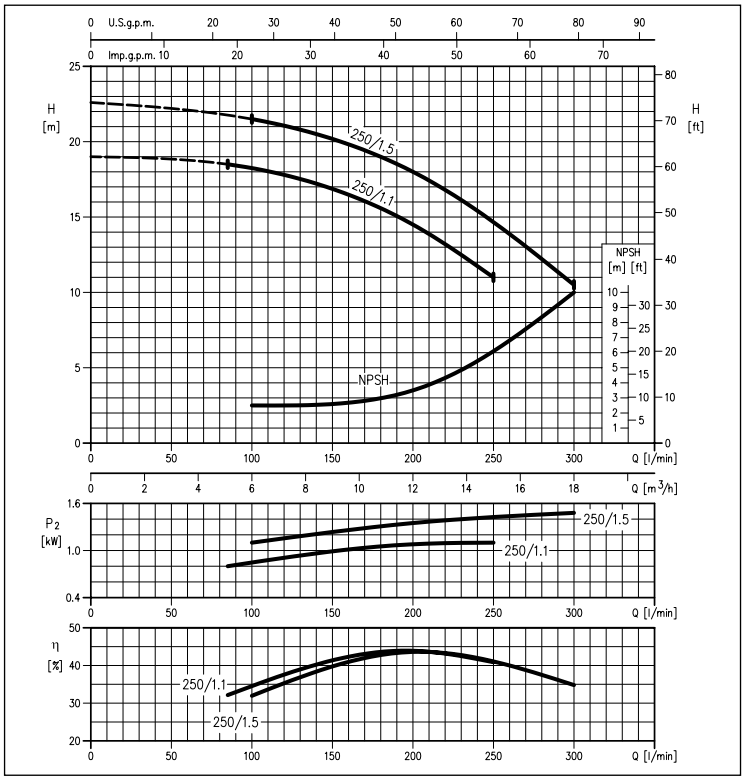
PERFORMANCE CURVES series LPC4 40-200 — 4 Poles

(per ISO 9906 Annex A)



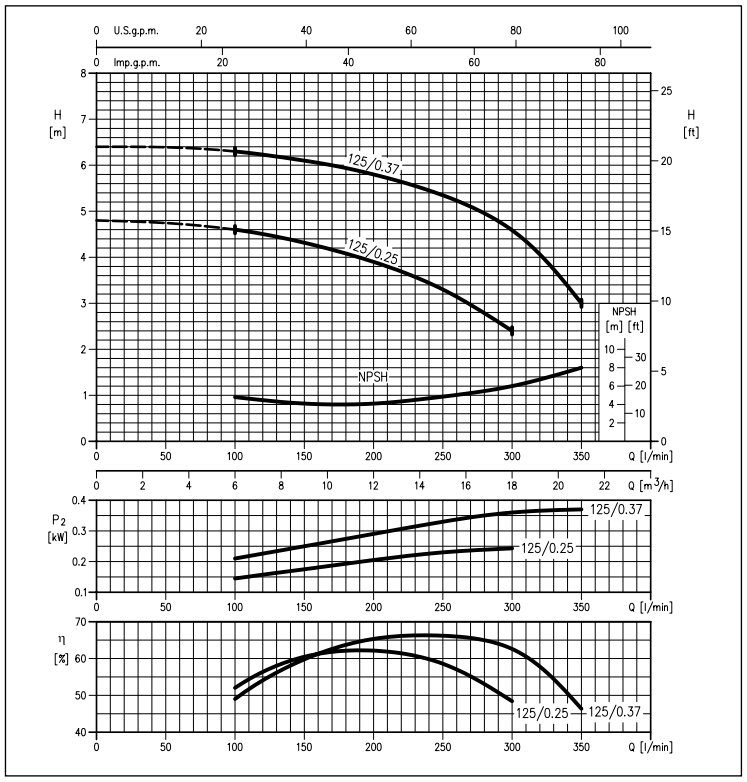
PERFORMANCE CURVES series LPC4 40-250 — 4 Poles

(per ISO 9906 Annex A)



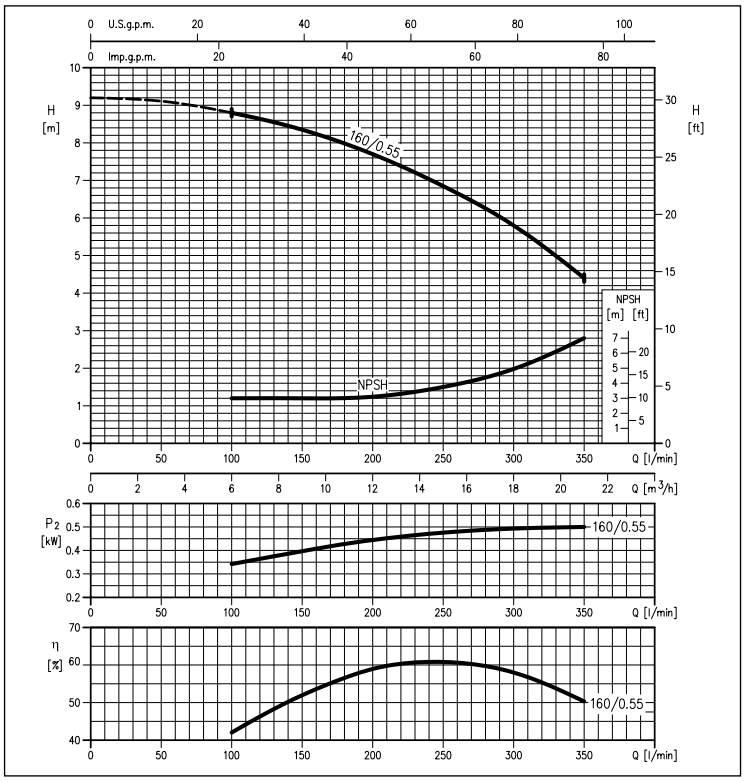
PERFORMANCE CURVES series LPC4 50-125 — 4 Poles

(per ISO 9906 Annex A)



PERFORMANCE CURVES series LPC4 50-160 — 4 Poles

(per ISO 9906 Annex A)



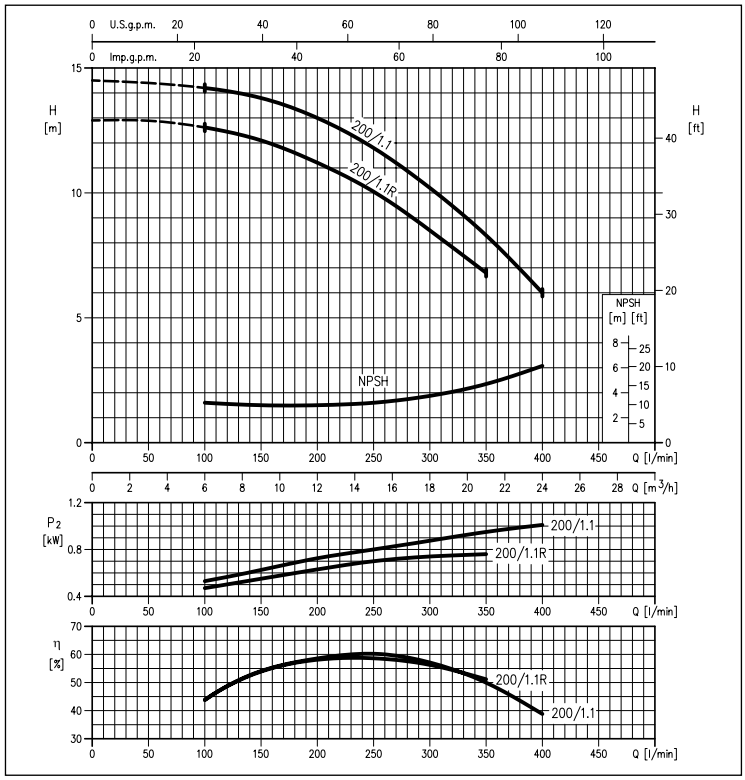
LPC - LPCD

IN-LINE CENTRIFUGAL ELECTRIC PUMPS

in cast iron

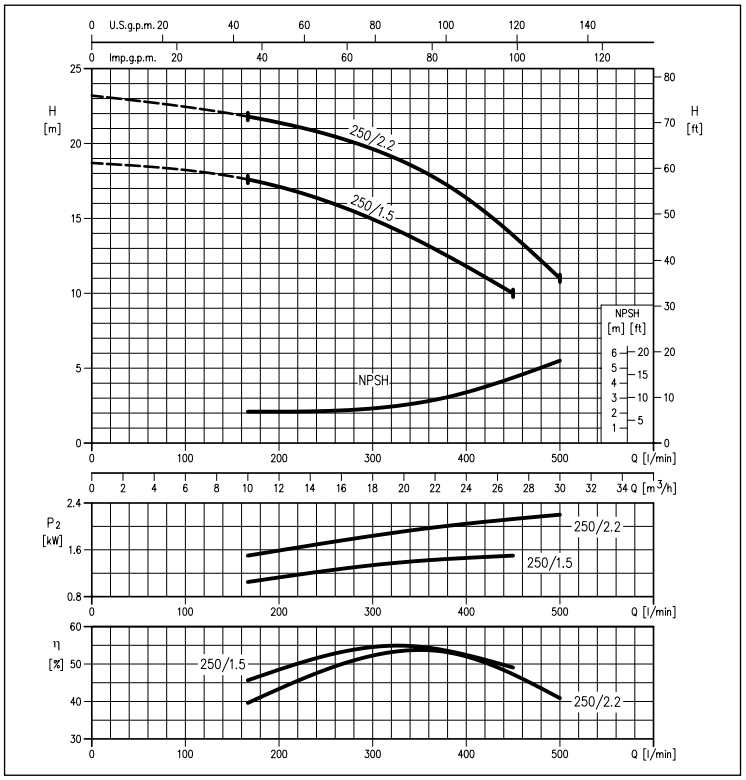
PERFORMANCE CURVES series LPC4 50-200 — 4 Poles

(per ISO 9906 Annex A)



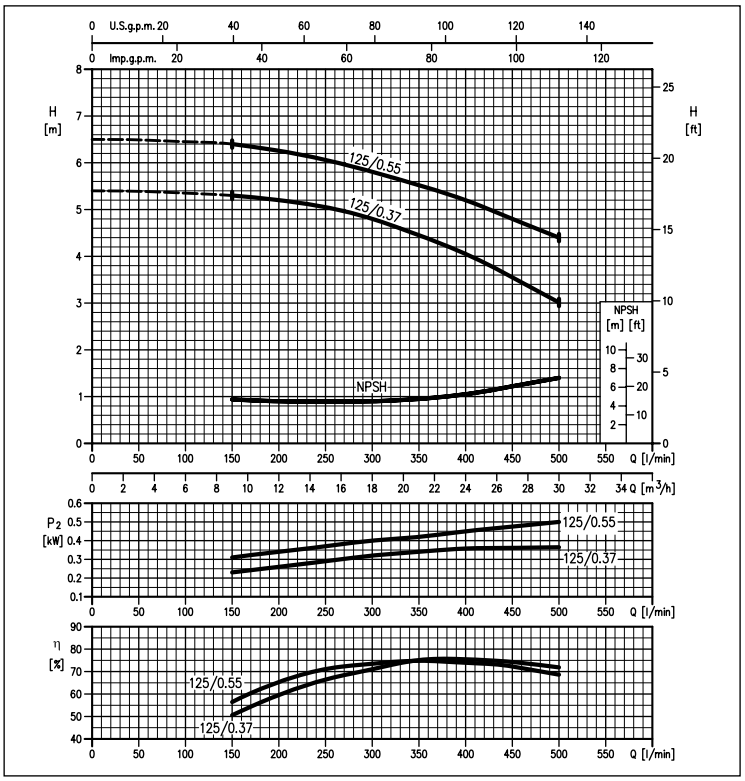
PERFORMANCE CURVES series LPC4 50-250 — 4 Poles

(per ISO 9906 Annex A)



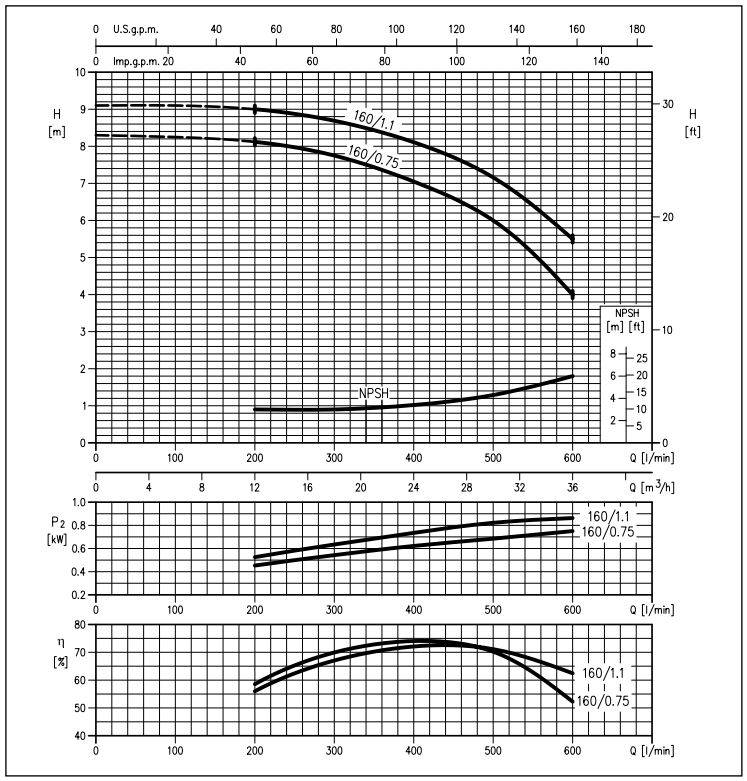
PERFORMANCE CURVES series LPC4 65-125 — 4 Poles

(per ISO 9906 Annex A)



PERFORMANCE CURVES series LPC4 65-160 — 4 Poles

(per ISO 9906 Annex A)

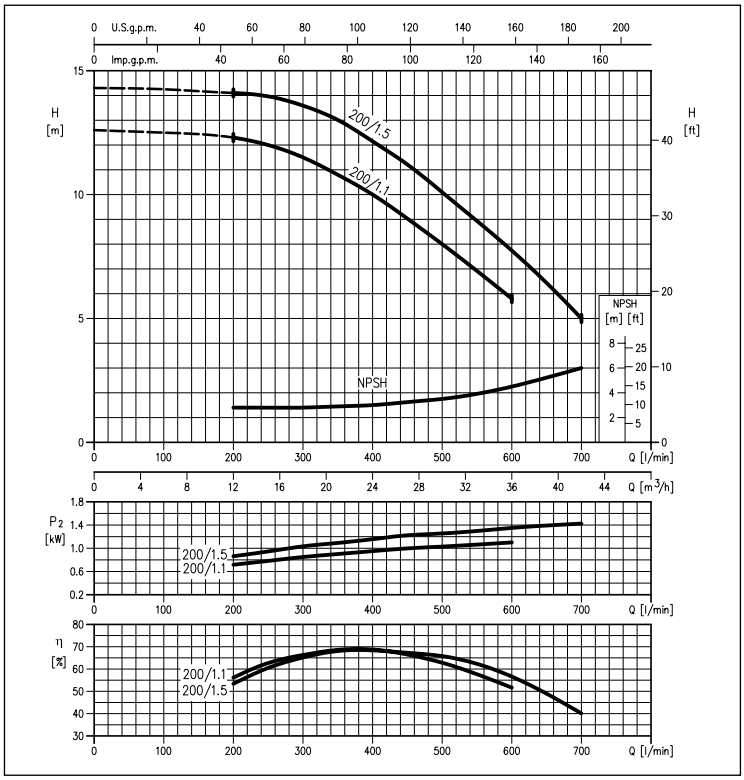


IN-LINE CENTRIFUGAL ELECTRIC PUMPS

in cast iron

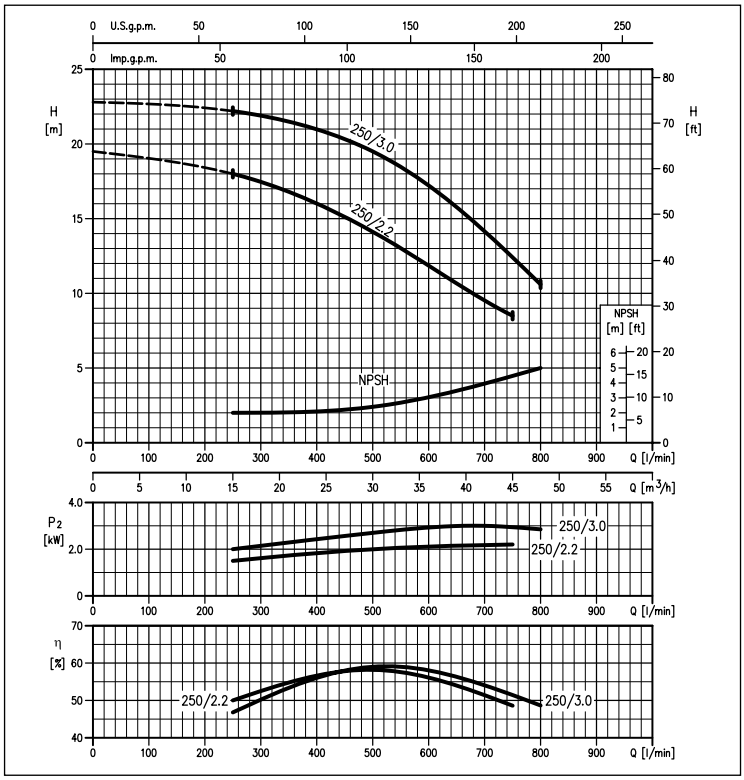
PERFORMANCE CURVES series LPC4 65-200 — 4 Poles

(per ISO 9906 Annex A)



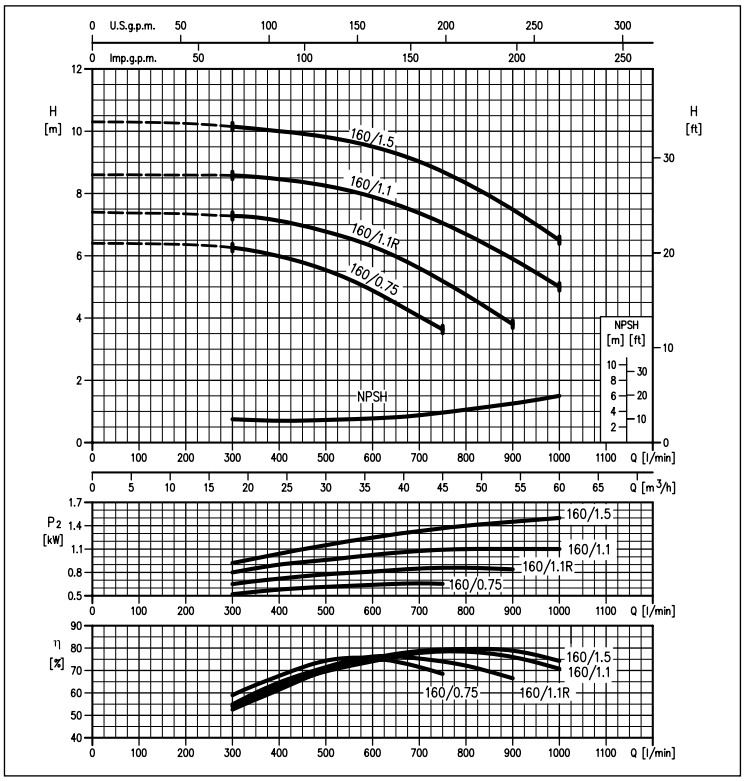
PERFORMANCE CURVES series LPC4 65-250 — 4 Poles

(per ISO 9906 Annex A)



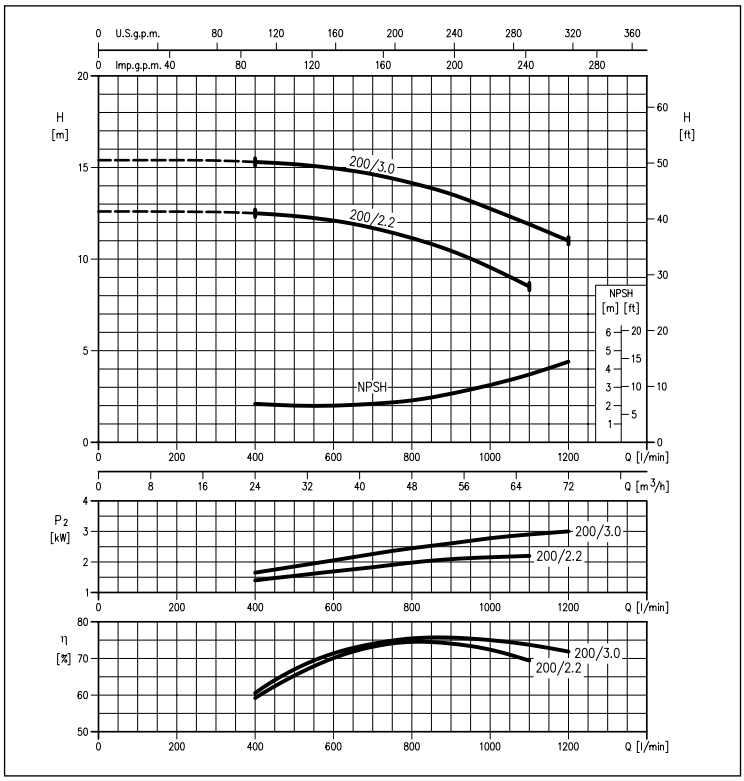
PERFORMANCE CURVES series LPC4 80-160 — 4 Poles

(per ISO 9906 Annex A)



PERFORMANCE CURVES series LPC4 80-200 — 4 Poles

(per ISO 9906 Annex A)

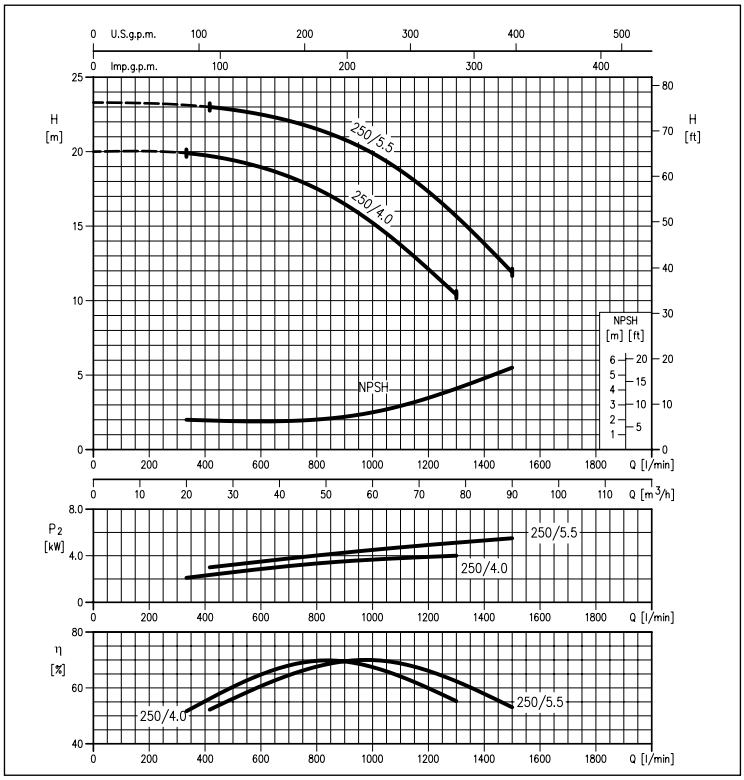


IN-LINE CENTRIFUGAL ELECTRIC PUMPS

in cast iron

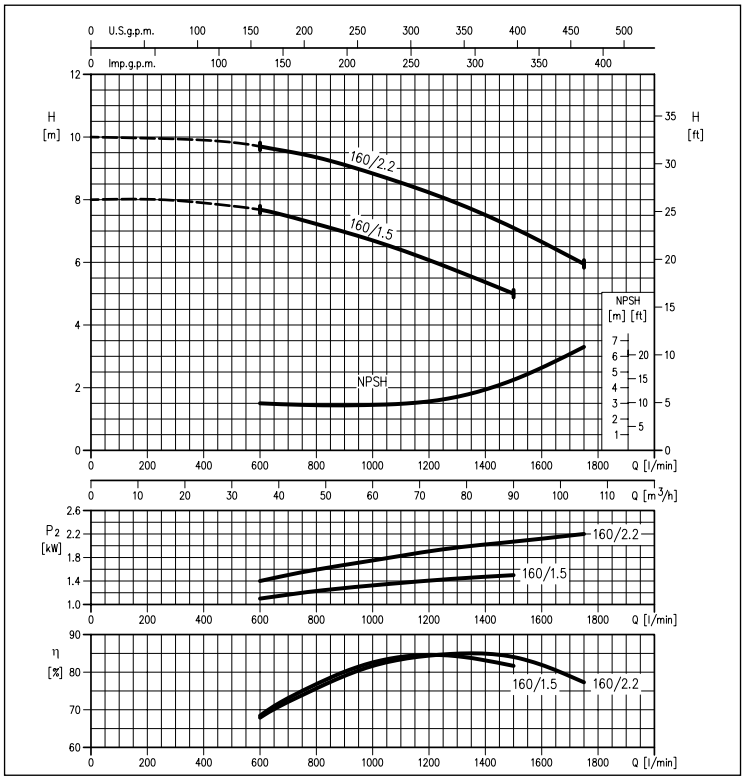
PERFORMANCE CURVES series LPC4 80-250 — 4 Poles

(per ISO 9906 Annex A)



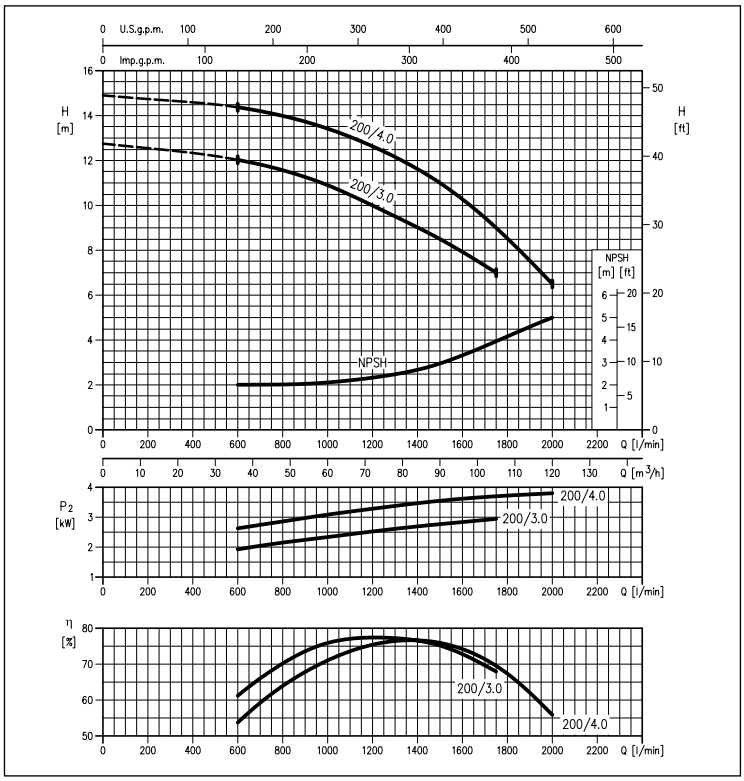
PERFORMANCE CURVES series LPC4 100-160 — 4 Poles

(per ISO 9906 Annex A)



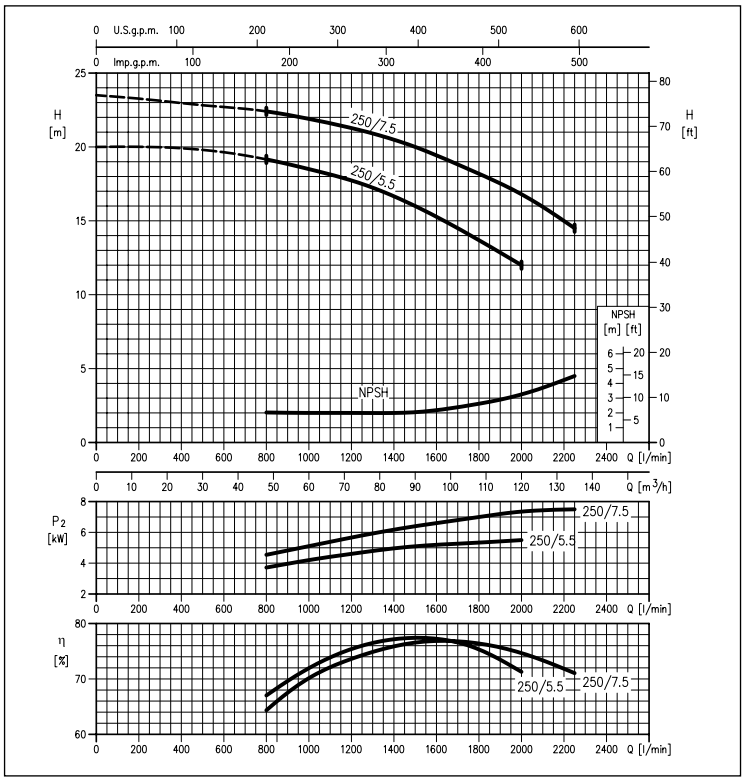
PERFORMANCE CURVES series LPC4 100-200 — 4 Poles

(per ISO 9906 Annex A)



PERFORMANCE CURVES series LPC4 100-250 — 4 Poles

(per ISO 9906 Annex A)

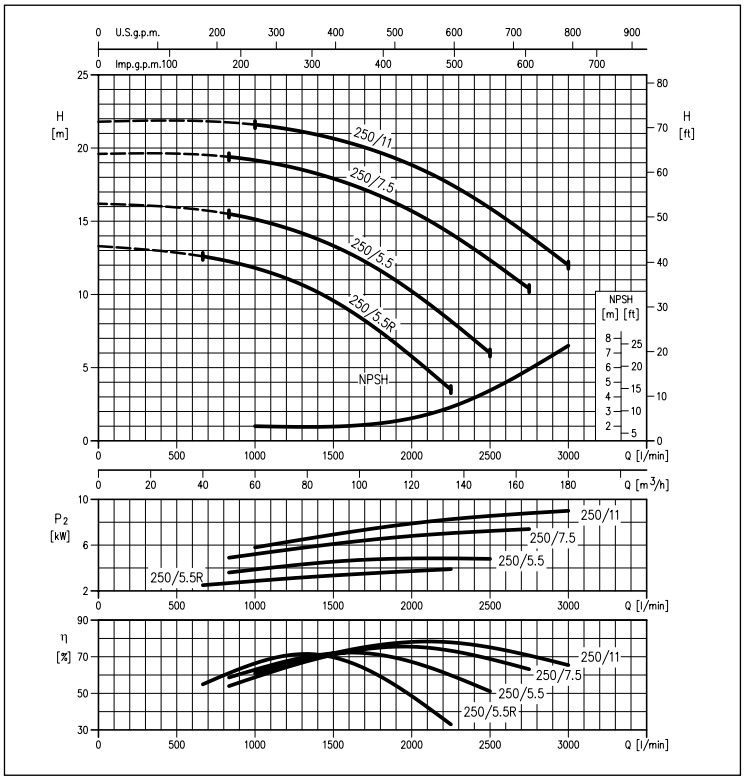


IN-LINE CENTRIFUGAL ELECTRIC PUMPS

in cast iron

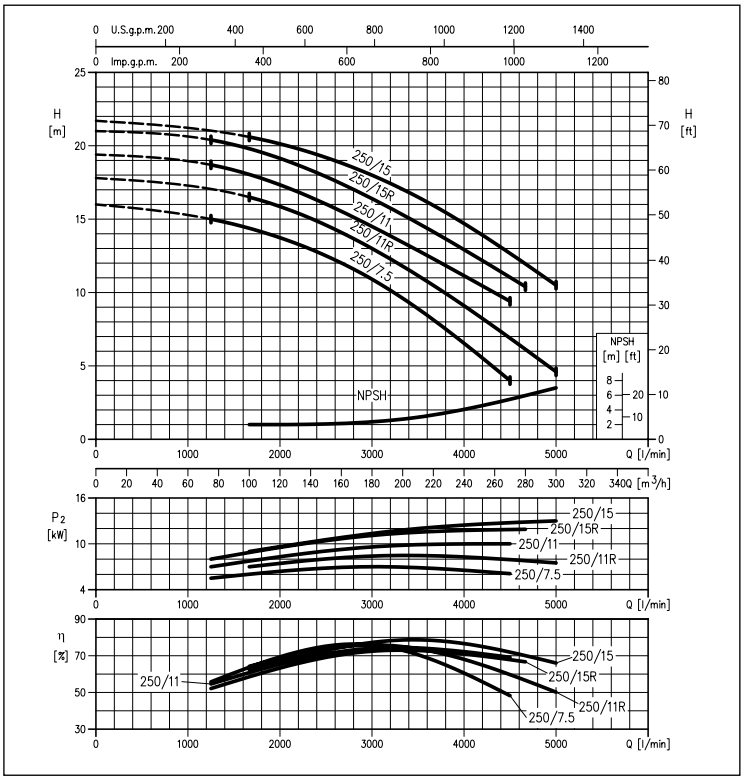
PERFORMANCE CURVES series LPC4 125-250 — 4 Poles

(per ISO 9906 Annex A)



PERFORMANCE CURVES series LPC4 150-250 — 4 Poles

(per ISO 9906 Annex A)

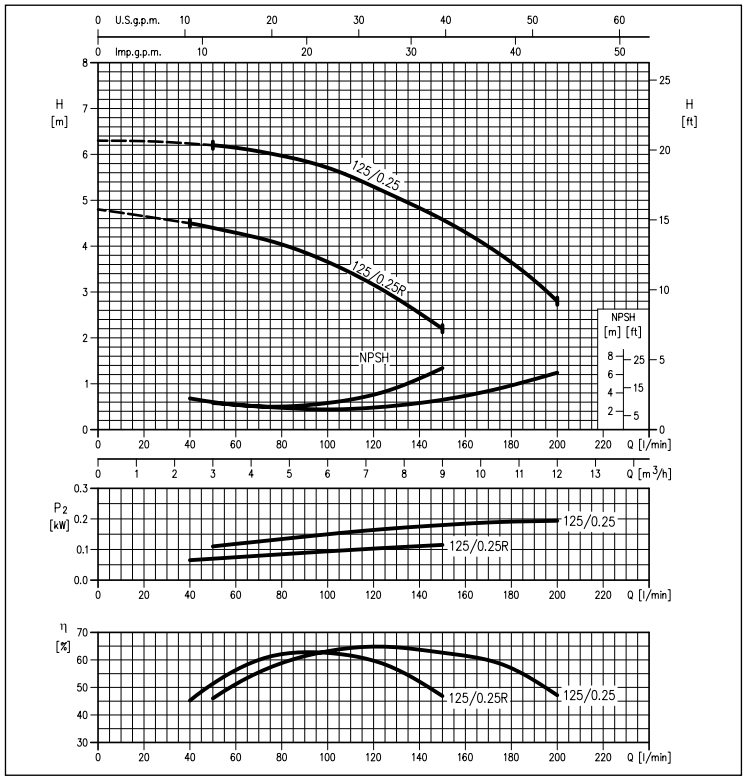


IN-LINE CENTRIFUGAL ELECTRIC PUMPS

in cast iron

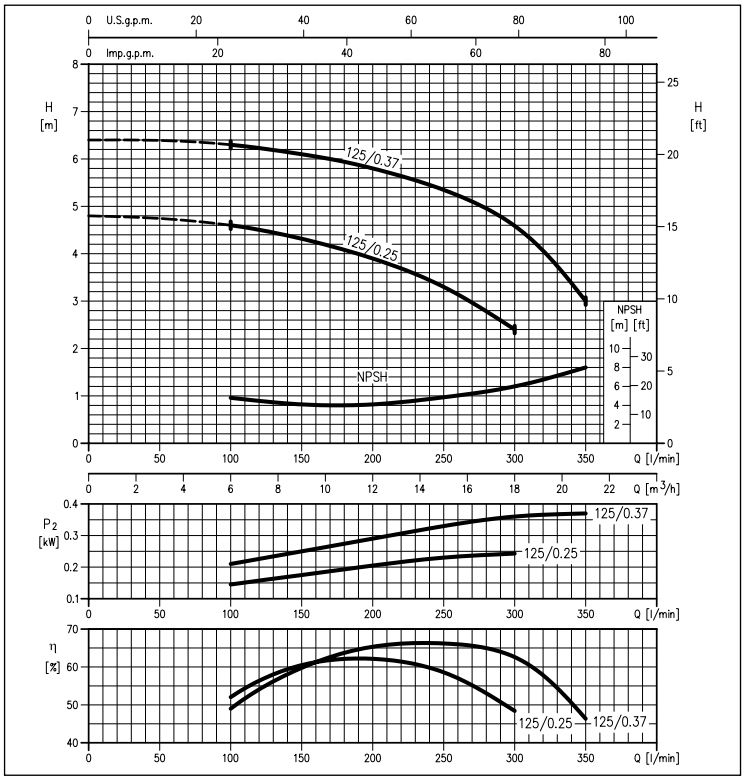
PERFORMANCE CURVES series LPCD4 40-125 — 4 Poles

(per ISO 9906 Annex A)



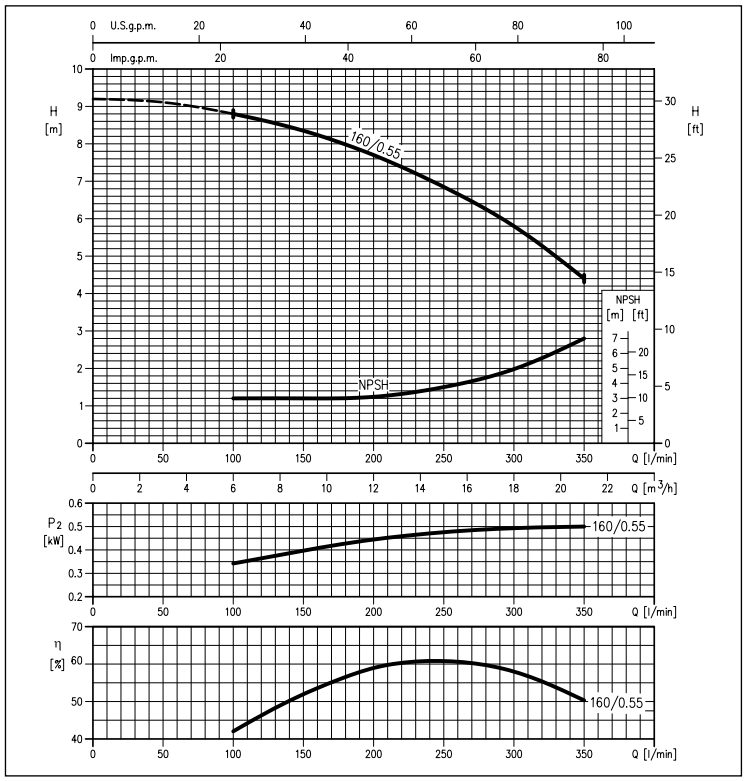
PERFORMANCE CURVES series LPCD4 50-125 — 4 Poles

(per ISO 9906 Annex A)



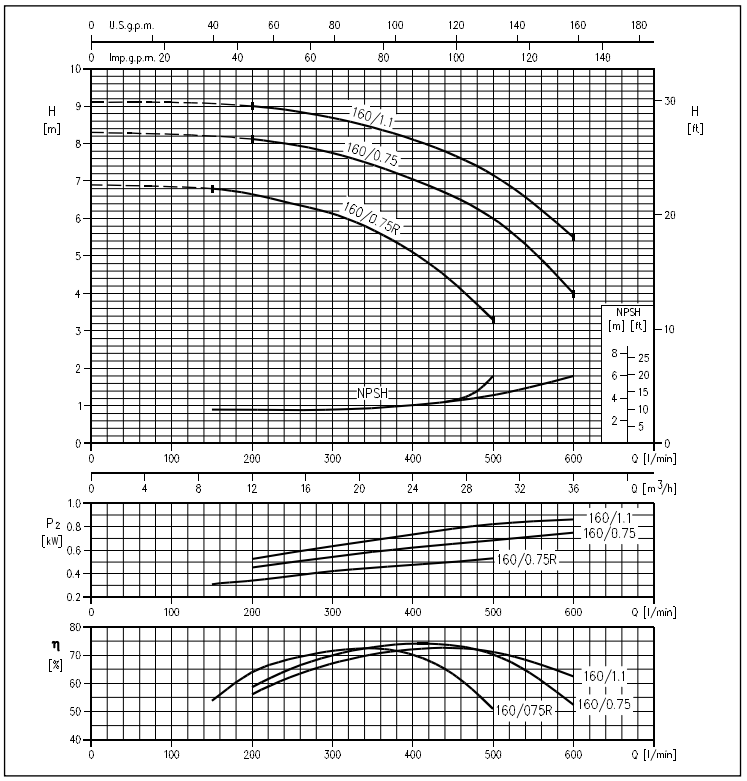
PERFORMANCE CURVES series LPCD4 50-160 — 4 Poles

(per ISO 9906 Annex A)



PERFORMANCE CURVES series LPCD4 65-160 — 4 Poles

(per ISO 9906 Annex A)

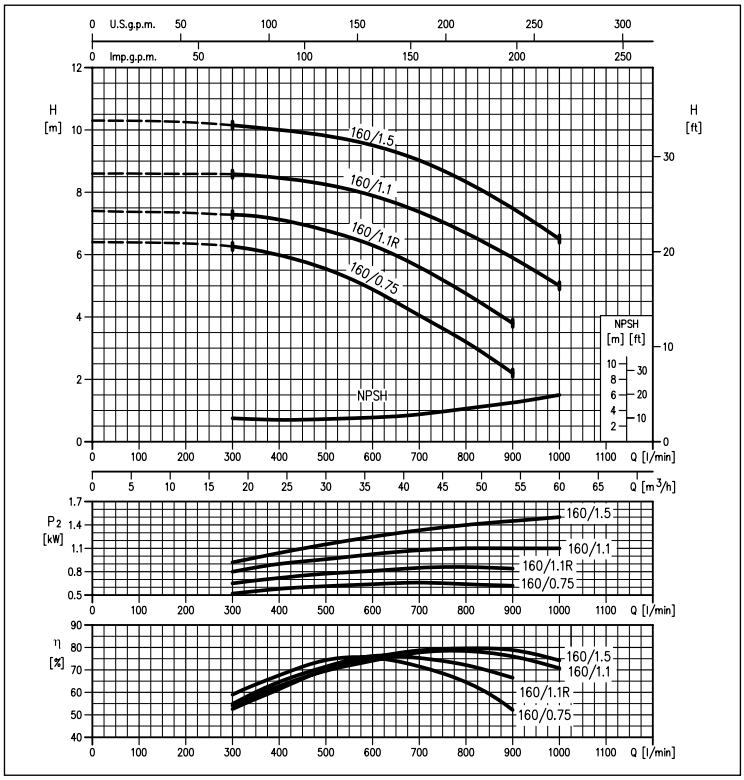


IN-LINE CENTRIFUGAL ELECTRIC PUMPS

in cast iron

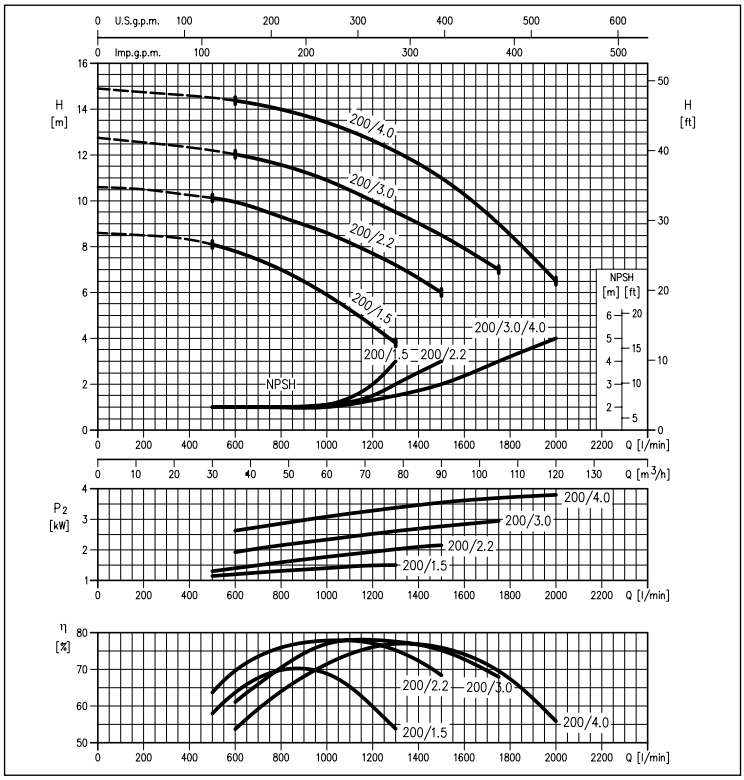
PERFORMANCE CURVES series LPCD4 80-160 — 4 Poles

(per ISO 9906 Annex A)



PERFORMANCE CURVES series LPCD4 100-200 — 4 Poles

(per ISO 9906 Annex A)

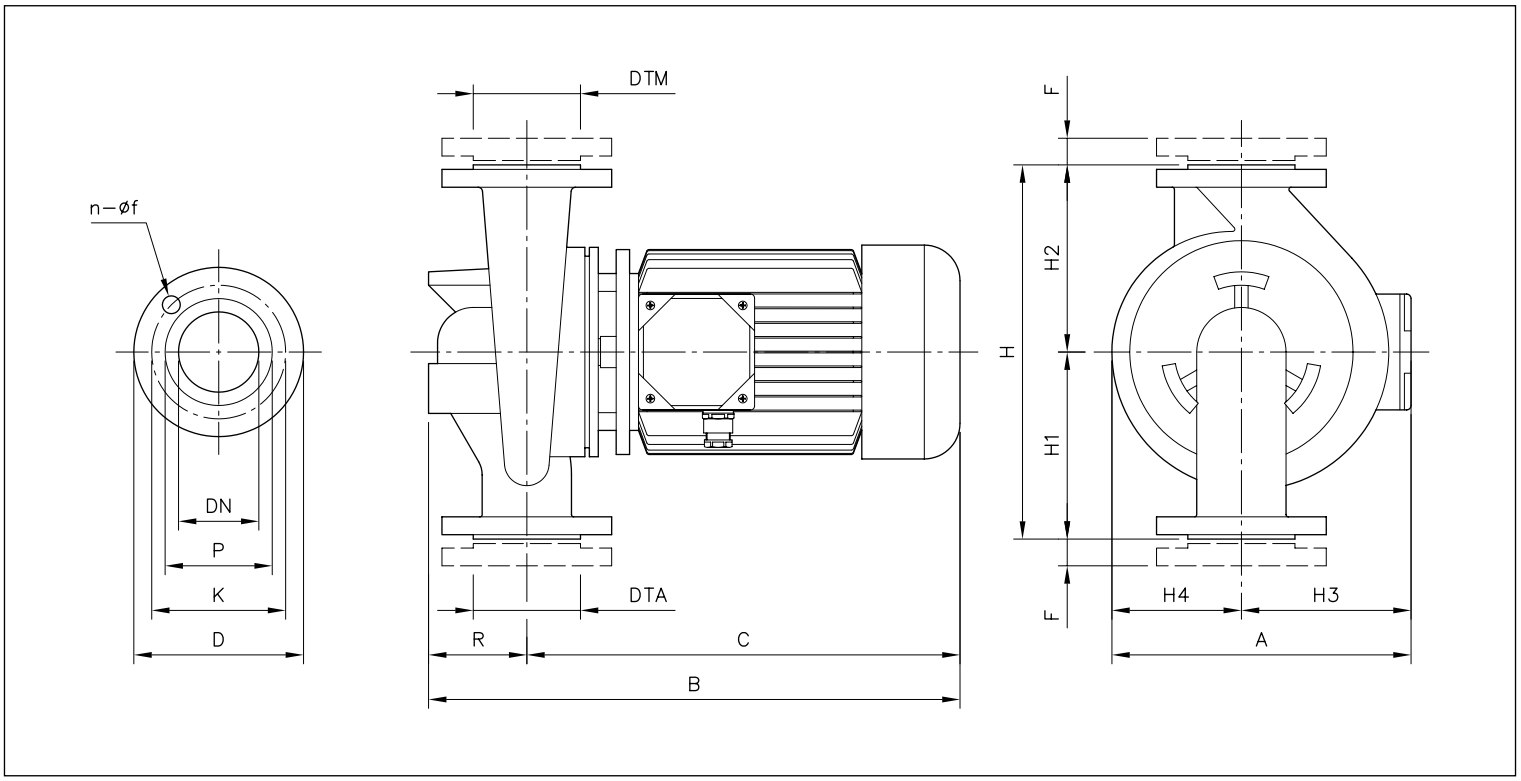


IN-LINE CENTRIFUGAL ELECTRIC PUMPS

in cast iron

DIMENSIONS LPC 32-40-50

2 Poles



DIMENSIONS CHART

Model	Dimensions [mm]																	Weight [kg]
	DTA/M	DNA/M	n	f	P	K	D	H	H1	H2	H3	H4	R	F	A	B	C	
LPC 32-100/0.37	G1¼	32PN10	4	18	70	90	120	220	110	110	112	65	65	16	177	379	314	12.0
LPC 40-100/0.55	G1½	40PN10	4	18	80	100	130	260	140	120	112	77	90	16	189	407	317	16.0
LPC 40-100/0.75	G1½	40PN10	4	18	80	100	130	260	140	120	129	77	90	16	206	424	334	18.0
LPC 40-125/0.75	G1½	40PN16	4	18	88	110	150	300	160	140	129	93	100	20	222	446	346	26.0
LPC 40-125/1.1	G1½	40PN16	4	18	88	110	150	300	160	140	129	93	100	20	222	446	346	27.0
LPC 40-125/1.5	G1½	40PN16	4	18	88	110	150	300	160	140	129	93	100	20	222	446	346	29.0
LPC 40-160/2.2	G1½	40PN16	4	18	88	110	150	320	170	150	138	108	100	20	246	481	381	31.0
LPC 40-160/3R	G1½	40PN16	4	18	88	110	150	320	170	150	145	108	100	20	253	520	420	40.0
LPC 40-160/3.0	G1½	40PN16	4	18	88	110	150	320	170	150	145	108	100	20	253	520	420	42.0
LPC 40-200/4.0	G1½	40PN16	4	18	88	110	150	380	200	180	145	127	100	20	272	520	420	50.0
LPC 40-200/5.5	G1½	40PN16	4	18	88	110	150	380	200	180	160	127	100	20	287	542	442	57.0
LPC 40-200/7.5	G1½	40PN16	4	18	88	110	150	380	200	180	160	127	100	20	287	564	464	60.0
LPC 50-125/1.5	G2	50PN16	4	18	102	125	165	322	182	140	129	103	110	22	232	456	346	28.0
LPC 50-125/2.2	G2	50PN16	4	18	102	125	165	322	182	140	138	103	110	22	241	491	381	30.0
LPC 50-125/3.0	G2	50PN16	4	18	102	125	165	322	182	140	145	103	110	22	248	530	420	37.0
LPC 50-160/3.0	G2	50PN16	4	18	102	125	165	340	180	160	145	113	110	22	258	530	420	37.0
LPC 50-160/4.0	G2	50PN16	4	18	102	125	165	340	180	160	145	113	110	22	258	530	420	42.0
LPC 50-200/5.5	G2	50PN16	4	18	102	125	165	400	220	180	160	131	110	22	291	552	442	58.0
LPC 50-200/7.5R	G2	50PN16	4	18	102	125	165	400	220	180	160	131	110	22	291	574	464	61.0
LPC 50-200/7.5	G2	50PN16	4	18	102	125	165	400	220	180	160	131	110	22	291	574	464	61.0

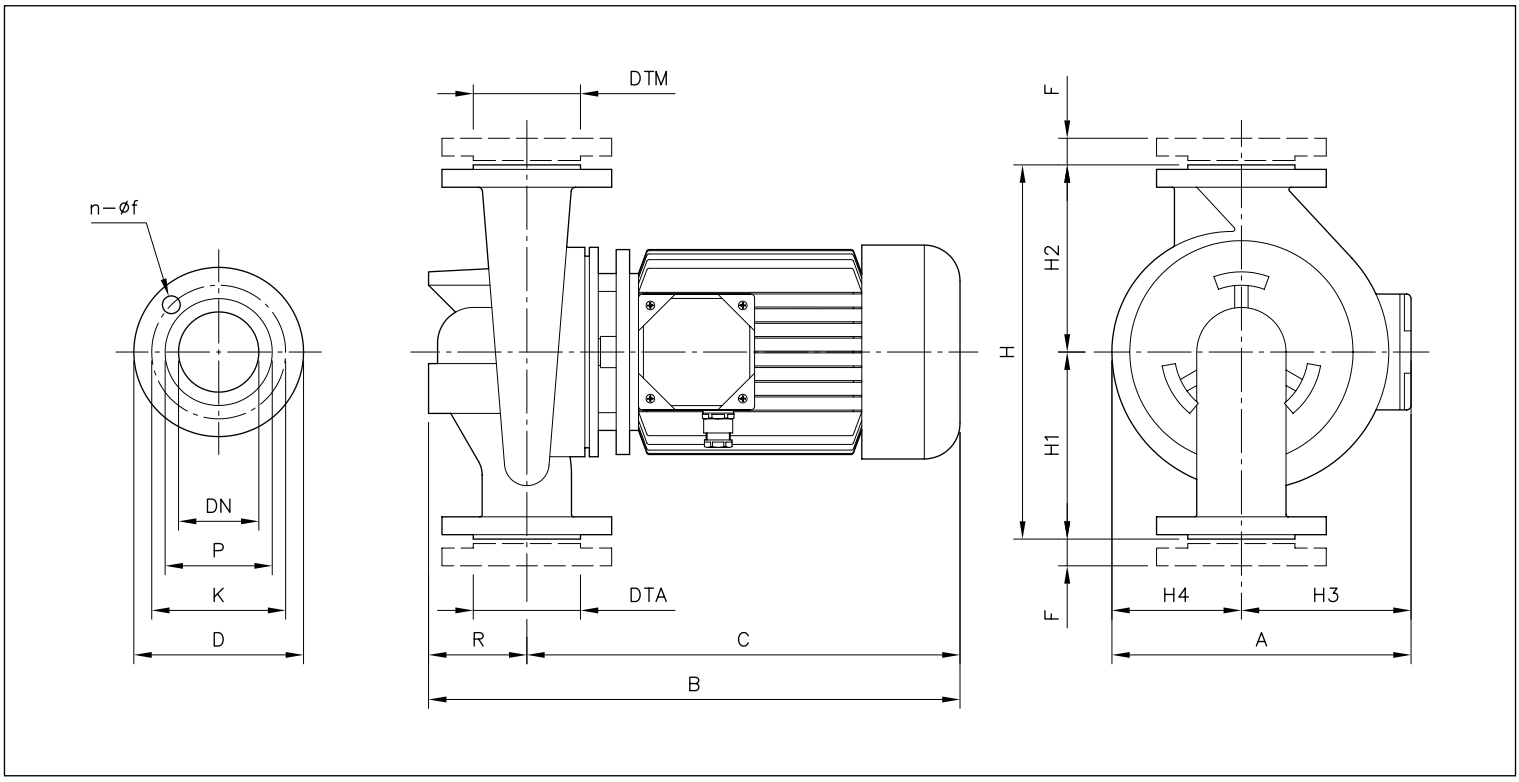
LPC - LPCD

IN-LINE CENTRIFUGAL ELECTRIC PUMPS

in cast iron

DIMENSIONS LPC 65-80-100

2 Poles



DIMENSIONS CHART

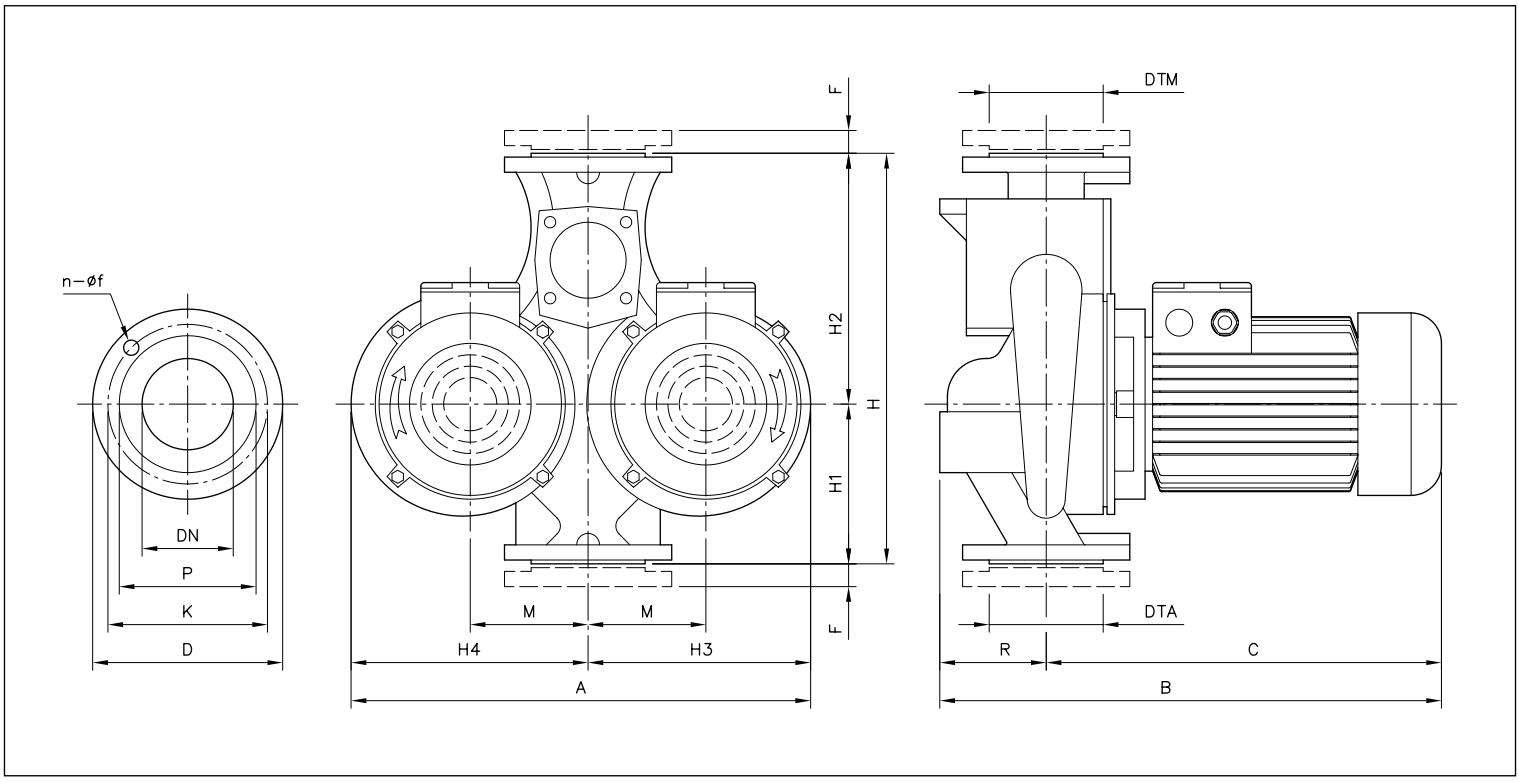
Model	Dimensions [mm]																	Weight [kg]
	DTA/M	DNA/M	n	f	P	K	D	H	H1	H2	H3	H4	R	F	A	B	C	
LPC 65-125/2.2	G2½	65PN16	4	18	122	145	185	360	205	155	138	108	140	22	246	521	381	36
LPC 65-125/3.0	G2½	65PN16	4	18	122	145	185	360	205	155	145	108	140	22	253	560	420	43
LPC 65-125/4.0	G2½	65PN16	4	18	122	145	185	360	205	155	145	108	140	22	253	560	420	44
LPC 65-160/5.5	G2½	65PN16	4	18	122	145	185	400	220	180	160	122	140	22	282	582	442	56
LPC 65-160/7.5	G2½	65PN16	4	18	122	145	185	400	220	180	160	122	140	22	282	604	464	58
LPC 65-200/10	G2½	65PN16	4	18	122	145	185	440	240	200	194	136	140	22	330	679	539	83
LPC 65-200/12.5	G2½	65PN16	4	18	122	145	185	440	240	200	194	136	140	22	330	730	590	86
LPC 80-160/10	G3	80PN16	8	18	138	160	200	440	240	200	194	131	160	24	325	719	559	85
LPC 80-160/12.5	G3	80PN16	8	18	138	160	200	440	240	200	194	131	160	24	325	770	610	86
LPC 80-160/15	G3	80PN16	8	18	138	160	200	440	240	200	194	131	160	24	325	770	610	86
LPC 80-200/15	G3	80PN16	8	18	138	160	200	500	275	225	194	146	160	24	340	770	610	92
LPC 80-200/18.5	G3	80PN16	8	18	138	160	200	500	275	225	238	146	160	24	384	867	707	129
LPC 80-200/22	G3	80PN16	8	18	138	160	200	500	275	225	238	146	160	24	384	867	707	139
LPC 100-160/10	G4	100PN16	8	18	158	180	220	525	300	225	194	136	190	26	330	800	610	89
LPC 100-160/12.5	G4	100PN16	8	18	158	180	220	525	300	225	194	136	190	26	330	800	610	92
LPC 100-160/15	G4	100PN16	8	18	158	180	220	525	300	225	194	136	190	26	330	800	610	93
LPC 100-200/18.5	G4	100PN16	8	18	158	180	220	550	300	250	238	156	190	26	394	929	739	140
LPC 100-200/22	G4	100PN16	8	18	158	180	220	550	300	250	238	156	190	26	394	929	739	150
LPC 100-200/30	G4	100PN16	8	18	158	180	220	550	300	250	305	156	190	26	461	1047	857	287
LPC 100-200/37	G4	100PN16	8	18	158	180	220	550	300	250	305	156	190	26	461	1047	857	320
LPC 100-250/37	G4	100PN16	8	18	158	180	220	600	320	280	305	176	190	26	506	1047	857	327

IN-LINE CENTRIFUGAL ELECTRIC PUMPS

in cast iron

DIMENSIONS LPCD 40-50-65-80-100

2 Poles



DIMENSIONS CHART

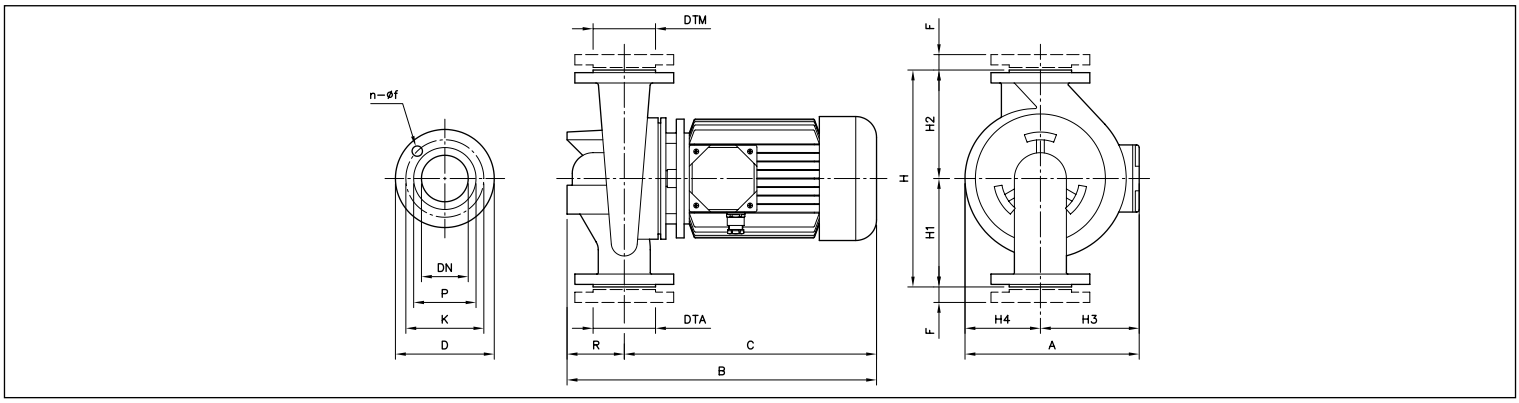
Model	Dimensions [mm]																		Weight
	DTA/M	DNA/M	n	f	P	K	D	H	H1	H2	H3	H4	M	R	F	A	B	C	[kg]
LPCD 40-125/0,75R	G1½	40PN16	4	18	88	110	150	340	130	210	197	200	100	100	20	397	446	346	55.0
LPCD 40-125/0.75	G1½	40PN16	4	18	88	110	150	340	130	210	197	200	100	100	20	397	446	346	55.0
LPCD 40-125/1.1	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

IN-LINE CENTRIFUGAL ELECTRIC PUMPS

in cast iron

DIMENSIONS LPC4 40-50-65-80-100

4 Poles



DIMENSIONS CHART

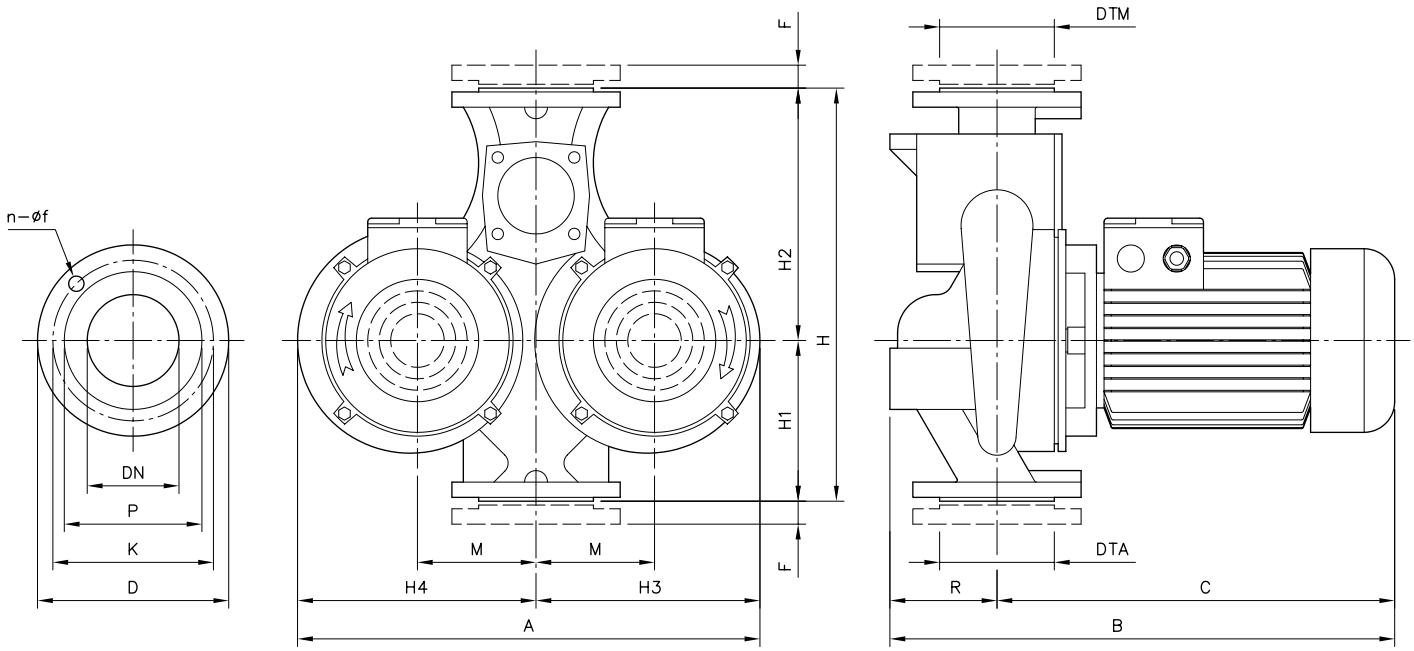
Model	Dimensions [mm]																	Weight
	DTA/M	DNA/M	n	f	P	K	D	H	H1	H2	H3	H4	R	F	A	B	C	[kg]
LPC4 32-100/0.25	G1¼	32PN10	4	14	70	90	120	220	110	110	112	65	65	16	177	379	314	12.0
LPC4 40-100/0.25	G1½	40PN10	4	14	80	100	130	260	140	120	112	77	90	16	189	407	317	16.0
LPC4 40-125/0.25R	G1½	40PN16	4	18	88	110	150	300	160	140	112	93	100	20	205	429	329	20.0
LPC4 40-125/0.25	G1½	40PN16	4	18	88	110	150	300	160	140	112	93	100	20	205	429	329	20.0
LPC4 40-160/0.37	G1½	40PN16	4	18	88	110	150	320	170	150	112	108	100	20	220	429	329	23.0
LPC4 40-200/0.75	G1½	40PN16	4	18	88	110	150	380	200	180	139	127	100	20	266	446	346	32.0
LPC4 40-200/1.1	G1½	40PN16	4	18	88	110	150	380	200	180	148	127	100	20	275	481	381	37.0
LPC4 40-250/1.1	G1½	40PN16	4	18	88	110	150	440	230	210	148	165	100	20	313	481	381	52.0
LPC4 40-250/1.5	G1½	40PN16	4	18	88	110	150	440	230	210	148	165	100	20	313	481	381	55.0
LPC4 50-125/0.25	G2	50PN16	4	18	102	125	165	322	182	140	112	103	110	22	215	439	329	21.0
LPC4 50-125/0.37	G2	50PN16	4	18	102	125	165	322	182	140	112	103	110	22	215	439	329	22.0
LPC4 50-160/0.55	G2	50PN16	4	18	102	125	165	340	180	160	112	113	110	22	225	439	329	25.0
LPC4 50-200/1.1R	G2	50PN16	4	18	102	125	165	400	220	180	148	131	110	22	279	491	381	40.0
LPC4 50-200/1.1	G2	50PN16	4	18	102	125	165	400	220	180	148	131	110	22	279	491	381	40.0
LPC4 50-250/1.5	G2	50PN16	4	18	102	125	165	440	230	210	148	165	125	22	313	506	381	53.0
LPC4 50-250/2.2	G2	50PN16	4	18	102	125	165	440	230	210	155	165	125	22	320	545	420	57.0
LPC4 65-125/0.37	G2½	65PN16	4	18	122	145	185	360	205	155	112	108	140	22	220	469	329	25.0
LPC4 65-125/0.55	G2½	65PN16	4	18	122	145	185	360	205	155	112	108	140	22	220	469	329	26.0
LPC4 65-160/0.75	G2½	65PN16	4	18	122	145	185	400	220	180	139	122	140	22	261	486	346	34.0
LPC4 65-160/1.1	G2½	65PN16	4	18	122	145	185	400	220	180	148	122	140	22	270	521	381	39.0
LPC4 65-200/1.1	G2½	65PN16	4	18	122	145	185	440	240	200	148	136	140	22	284	521	381	41.0
LPC4 65-200/1.5	G2½	65PN16	4	18	122	145	185	440	240	200	148	136	140	22	284	521	381	42.0
LPC4 65-250/2.2	G2½	65PN16	4	18	122	145	185	475	250	225	155	165	140	22	320	560	420	67.0
LPC4 65-250/3	G2½	65PN16	4	18	122	145	185	475	250	225	155	165	140	22	320	594	454	68.0
LPC4 80-160/0.75	G3	80PN16	8	18	138	160	200	440	240	200	139	131	160	24	270	506	346	51.0
LPC4 80-160/1.1R	G3	80PN16	8	18	138	160	200	440	240	200	148	131	160	24	279	541	381	57.0
LPC4 80-160/1.1	G3	80PN16	8	18	138	160	200	440	240	200	148	131	160	24	279	541	381	41.0
LPC4 80-160/1.5	G3	80PN16	8	18	138	160	200	440	240	200	148	131	160	24	279	541	381	42.0
LPC4 80-200/2.2	G3	80PN16	8	18	138	160	200	500	275	225	155	146	160	24	301	580	420	52.0
LPC4 80-200/3	G3	80PN16	8	18	138	160	200	500	275	225	155	146	160	24	301	614	454	59.0
LPC4 80-250/4	G3	80PN16	8	18	138	160	200	530	280	250	171	168	160	24	339	614	454	83.0
LPC4 80-250/5.5	G3	80PN16	8	18	138	160	200	530	280	250	195	168	160	24	363	651	491	107.0
LPC4 100-160/1.5	G4	100PN16	8	18	158	180	220	525	300	225	148	136	190	26	284	571	381	46.0
LPC4 100-160/2.2	G4	100PN16	8	18	158	180	220	525	300	225	155	136	190	26	291	610	420	51.0
LPC4 100-200/3	G4	100PN16	8	18	158	180	220	550	300	250	155	156	190	26	311	656	468	68.0
LPC4 100-200/4	G4	100PN16	8	18	158	180	220	550	300	250	171	156	190	26	327	644	454	72.0
LPC4 100-250/5.5	G4	100PN16	8	18	158	180	220	600	320	280	195	176	190	26	371	701	511	109.0
LPC4 100-250/7.5	G4	100PN16	8	18	158	180	220	600	320	280	195	176	190	26	371	741	551	119.0
LPC4 125-250/5.5R	G5	125PN16	8	18	188	210	250	620	340	280	195	195	195	26	390	706	511	145.0
LPC4 125-250/5.5	G5	125PN16	8	18	188	210	250	620	340	280	195	195	195	26	390	706	511	145.0
LPC4 125-250/7.5	G5	125PN16	8	18	188	210	250	620	340	280	195	195	195	26	390	746	551	148.0
LPC4 125-250/11	G5	125PN16	8	18	188	210	250	620	340	280	238	195	195	26	433	861	666	188.0
LPC4 150-250/7.5	G6	150PN16	8	22	212	240	285	700	370	330	195	210	220	28	405	802	582	167.0
LPC4 150-250/11R	G6	150PN16	8	22	212	240	285	700	370	330	195	210	220	28	405	895	675	196.0
LPC4 150-250/11	G6	150PN16	8	22	212	240	285	700	370	330	195	210	220	28	405	895	675	208.0
LPC4 150-250/15R	G6	150PN16	8	22	212	240	285	700	370	330	238	210	220	28	448	939	719	227.0
LPC4 150-250/15	G6	150PN16	8	22	212	240	285	700	370	330	238	210	220	28	448	939	719	227.0

IN-LINE CENTRIFUGAL ELECTRIC PUMPS

in cast iron

DIMENSIONS LPCD4 40-50-65-80-100

4 Poles



DIMENSIONS CHART

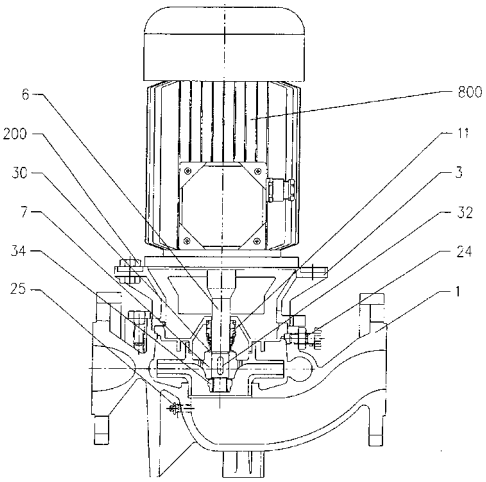
Model	Dimensions [mm]																		Weight [kg]
	DTA/M	DNA/M	n	f	P	K	D	H	H1	H2	H3	H4	M	R	F	A	B	C	
LPCD4 40-125/0.25R	G1½	40PN16	4	18	88	110	150	340	130	210	197	200	100	100	20	397	430	330	44.0
LPCD4 40-125/0.25	G1½	40PN16	4	18	88	110	150	340	130	210	197	200	100	100	20	397	430	330	44.0
LPCD4 50-125/0.25	G2	50PN16	4	18	102	125	165	365	145	220	197	200	105	110	22	397	440	330	46.0
LPCD4 50-125/0.37	G2	50PN16	4	18	102	125	165	365	145	220	197	200	105	110	22	397	440	330	47.0
LPCD4 50-160/0.55	G2	50PN16	4	18	102	125	165	410	170	240	235	245	120	110	22	480	440	330	53.0
LPCD4 65-160/0.75R	G2½	65PN16	4	18	122	145	185	450	180	270	268	275	140	130	22	543	460	330	66.0
LPCD4 65-160/0.75	G2½	65PN16	4	18	122	145	185	450	180	270	268	275	140	130	22	543	476	346	66.0
LPCD4 65-160/1.1	G2½	65PN16	4	18	122	145	185	450	180	270	268	275	140	130	22	543	511	381	79.0
LPCD4 80-160/0.75	G3	80PN16	8	18	138	160	200	510	205	305	270	280	135	150	24	550	496	346	75.0
LPCD4 80-160/1.1R	G3	80PN16	8	18	138	160	200	510	205	305	270	280	135	150	24	550	531	381	86.0
LPCD4 80-160/1.1	G3	80PN16	8	18	138	160	200	510	205	305	270	280	135	150	24	550	531	381	86.0
LPCD4 80-160/1.5	G3	80PN16	8	18	138	160	200	510	205	305	270	280	135	150	24	550	531	381	87.0
LPCD4 100-200/1.5	G4	100PN16	8	18	158	180	220	630	240	390	345	325	165	180	26	670	573	393	133.0
LPCD4 100-200/2.2	G4	100PN16	8	18	158	180	220	630	240	390	345	325	165	180	26	670	612	432	143.0
LPCD4 100-200/3	G4	100PN16	8	18	158	180	220	630	240	390	345	325	165	180	26	670	646	466	154.0
LPCD4 100-200/4	G4	100PN16	8	18	158	180	220	630	240	390	345	325	165	180	26	670	634	454	169.0

LPC - LPCD

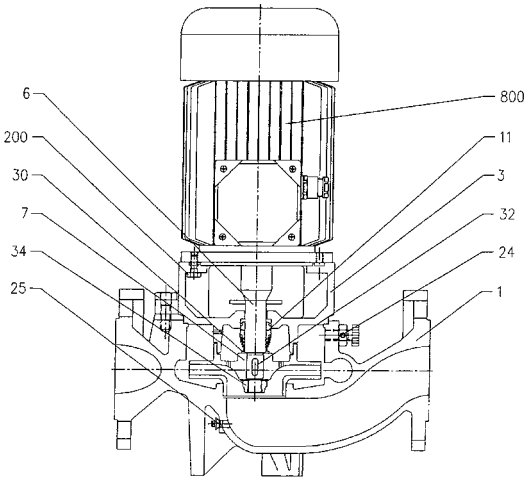
IN-LINE CENTRIFUGAL ELECTRIC PUMPS

in cast iron

SECTIONAL VIEW LPC - LPC4



UP TO MEC 132



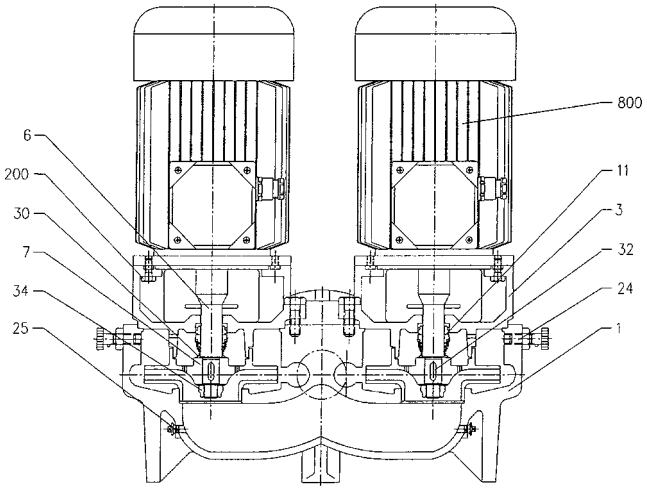
MEC 160 AND ABOVE

MATERIALS TABLE

Ref.	Name	Material	Ref.	Name	Material
1	Pump body	Cast iron	25	Drain cap	Stainless steel
3	Motor mount	Cast iron	30	Spacer	Stainless steel
6	Shaft	AISI 420	32	Key	Stainless steel
7	Impeller	Cast iron	34	Impeller nut	Stainless steel
11	Mechanical seal	Carbon/SiC/EPDM	200	Screw (pump body)	Stainless steel
24	Filler cap	Stainless steel	800	Motor casing	[1]

[1]= In aluminium up to version 132; in cast iron from 160 and above,

SECTIONAL VIEW LPCD - LPCD4



MATERIALS TABLE

Ref.	Name	Material	Ref.	Name	Material
1	Pump body	Cast iron	25	Drain cap	Stainless steel
3	Motor mount	Cast iron	30	Spacer	Stainless steel
6	Shaft	AISI 420	32	Key	Stainless steel
7	Impeller	Cast iron	34	Impeller nut	Stainless steel
11	Mechanical seal [1]	Carbon/SiC/EPDM	200	Screw (pump body)	Stainless steel
24	Filler cap	Stainless steel	800	Motor casing	Aluminium

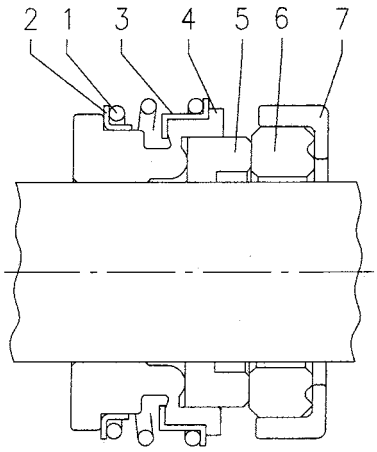
[1]= SiC/SiC/NBR optional

LPC - LPCD

IN-LINE CENTRIFUGAL ELECTRIC PUMPS

in cast iron

MECHANICAL SEAL



MATERIALS TABLE

Ref.	Name	Material Max. temperature: 110°C
1	Spring	AISI 316
2	O-ring	EPDM
3	Structure/frame	AISI 316
4	O-ring	EPDM
5	Rotary section	Carbon
6	Fixed section	SiC
7	Rubber cover	EPDM

ELECTRICAL DATA TABLE LPC

2 Poles

Model	P_2		Efficiency	Efficiency (%) Three phase $\eta\%$			Input [kW]	Absorbed current [A]		
	[HP]	[kW]	Three phase	50%	75%	100%		230V	400V	690V
LPC 32-100/0.37	0.5	0.37	-	54.0	58.0	65.0	0.58	2.1	1.2	-
LCP 40-100/0.55	0.75	0.55	-	57.0	64.0	71.0	0.80	2.6	1.5	-
LPC 40-100/0.75	1	0.75	IE2	77.3	78.5	80.5	0.92	3.0	1.7	-
LPC 40-125/0.75	1	0.75	IE2	77.3	78.5	80.5	0.92	3.0	1.7	-
LPC 40-125/1.1	1.5	1.1	IE2	79.5	81.2	81.5	1.35	4.3	2.5	-
LPC 40-125/1.5	2	1.5	IE2	80.5	82.1	82.4	1.83	5.9	3.4	-
LPC 40-160/2.2	3	2.2	IE2	82.5	84.0	84.0	2.59	7.6	4.4	-
LPC 40-160/3R	4	3	IE2	84.1	85.8	85.5	3.43	10.3	5.9	-
LPC 40-160/3	4	3	IE2	84.1	85.8	85.5	3.43	10.3	5.9	-
LPC 40-200/4	5.5	4	IE2	85.2	86.4	86.1	4.64	13.6	7.8	-
LPC 40-200/5.5	7.5	5.5	IE2	85.8	87.4	87.3	6.34	-	10.4	6.0
LPC 40-200/7.5	10	7.5	IE3	88.0	89.7	90.1	8.38	-	14.4	8.3
LPC 50-125/1.5	2	1.5	IE2	80.5	82.1	82.4	1.83	5.9	3.4	-
LPC 50-125/2.2	3	2.2	IE2	82.5	84.0	84.0	2.59	7.6	4.4	-
LPC 50-125/3	4	3	IE2	84.1	85.8	85.5	3.43	10.3	5.9	-
LPC 50-160/3	4	3	IE2	84.1	85.8	85.5	3.43	10.3	5.9	-
LPC 50-160/4	5.5	4	IE2	85.2	86.4	86.1	4.64	13.6	7.8	-
LPC 50-200/5.5	7.5	5.5	IE2	85.8	87.4	87.3	6.34	-	10.4	6.0
LPC 50-200/7.5R	10	7.5	IE3	88.0	89.7	90.1	8.38	-	14.4	8.3
LPC 50-200/7.5	10	7.5	IE3	88.0	89.7	90.1	8.38	-	14.4	8.3
LPC 65-125/2.2	3	2.2	IE2	82.5	84.0	84.0	2.59	7.6	4.4	-
LPC 65-125/3	4	3	IE2	84.1	85.8	85.5	3.43	10.3	5.9	-
LPC 65-125/4	5.5	4	IE2	85.2	86.4	86.1	4.64	13.6	7.8	-
LPC 65-160/5.5	7.5	5.5	IE2	85.8	87.4	87.3	6.34	-	10.4	6.0
LPC 65-160/7.5	10	7.5	IE3	88.0	89.7	90.1	8.38	-	14.4	8.3
LPC 65-200/11	15	11	IE3	90.0	90.8	91.2	12.27	-	19.9	11.5
LPC 65-200/15	20	15	IE3	91.0	92.2	91.9	16.33	-	26.8	15.5
LPC 80-160/11	15	11	IE3	90.0	90.8	91.2	12.27	-	19.9	11.5
LPC 80-160/15R	20	15	IE3	91.0	92.2	91.9	16.33	-	26.8	15.5
LPC 80-160/15	20	15	IE3	91.0	92.2	91.9	16.33	-	26.8	15.5
LPC 80-200/15	20	15	IE3	91.0	92.2	91.9	16.33	-	26.8	15.5
LPC 80-200/18.5	25	18.5	IE3	91.6	92.8	92.4	20.12	-	33.0	19.0
LPC 80-200/22	30	22	IE3	92.2	93.7	92.7	23.75	-	39.4	22.5
LPC 100-160/11	15	11	IE3	90.0	90.8	91.2	12.27	-	19.9	11.5
LPC 100-160/15R	20	15	IE3	91.0	92.2	91.9	16.33	-	26.8	15.5
LPC 100-160/15	20	15	IE3	91.0	92.2	91.9	16.33	-	26.8	15.5
LPC 100-200/18.5	25	18.5	IE3	91.6	92.8	92.4	20.12	-	33.0	19.0
LPC 100-200/22	30	22	IE3	92.2	93.7	92.7	23.75	-	39.4	22.5
LPC 100-200/30	40	30	IE3	91.4	93.3	93.3	32.12	-	52.1	30.0
LPC 100-200/37	50	37	IE3	91.8	93.7	93.7	39.47	-	62.6	36.0
LPC 100-250/37	50	37	IE3	91.8	93.7	93.7	39.47	-	62.6	36.0

IN-LINE CENTRIFUGAL ELECTRIC PUMPS

in cast iron

ELECTRICAL DATA TABLE LPCD

2 Poles

Model	P_2 [HP]	P_2 [kW]	Efficiency Three phase	Efficiency (%) Three phase η% 50%	75%	100%	Input [kW]	Absorbed current [A] 230V	400V	690V
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

IN-LINE CENTRIFUGAL ELECTRIC PUMPS

in cast iron

ELECTRICAL DATA TABLE LPC4

4 Poles

Model	P_2		Efficiency	Efficiency (%) Three phase η%			Input [kW]	Absorbed current [A]		
	[HP]	[kW]	Three phase	50%	75%	100%		230V	400V	690V
LPC4 32-100/0.25	0.33	0.25	-	-	-	-	0.41	1.6	0.9	-
LPC4 40-100/0.25	0.33	0.25	-	-	-	-	0.41	1.6	0.9	-
LPC4 40-125/0.25R	0.33	0.25	-	-	-	-	0.41	1.6	0.9	-
LPC4 40-125/0.25	0.33	0.25	-	-	-	-	0.41	1.6	0.9	-
LPC4 40-160/0.37	0.5	0.37	-	-	-	-	0.56	2.1	1.2	-
LPC4 40-200/0.75	1.0	0.75	IE2	75.0	78.1	79.4	0.93	3.3	1.9	-
LPC4 40-200/1.1	1.5	1.1	IE2	81.4	82.7	82.5	1.33	4.3	2.5	-
LPC4 40-250/1.1	1.5	1.1	IE2	81.4	82.7	82.5	1.33	4.3	2.5	-
LPC4 40-250/1.5	2	1.5	IE2	81.0	83.5	83.0	1.81	5.9	3.4	-
LPC4 50-125/0.25	0.33	0.25	-	-	-	-	0.41	1.6	0.9	-
LPC4 50-125/0.37	0.5	0.37	-	-	-	-	0.56	2.1	1.2	-
LPC4 50-160/0.55	0.75	0.55	-	-	-	-	0.80	2.8	1.6	-
LPC4 50-200/1.1R	1.5	1.1	IE2	81.4	82.7	82.5	1.33	4.3	2.5	-
LPC4 50-200/1.1	1.5	1.1	IE2	81.4	82.7	82.5	1.33	4.3	2.5	-
LPC4 50-250/1.5	2	1.5	IE2	81.0	83.5	83.0	1.81	5.9	3.4	-
LPC4 50-250/2.2	3	2.2	IE2	84.0	85.3	85.1	2.61	8.9	5.1	-
LPC4 65-125/0.37	0.5	0.37	-	-	-	-	0.56	2.1	1.2	-
LPC4 65-125/0.55	0.75	0.55	-	-	-	-	0.80	2.8	1.6	-
LPC4 65-160/0.75	1.0	0.75	IE2	75.0	78.1	79.4	0.93	3.3	1.9	-
LPC4 65-160/1.1	1.5	1.1	IE2	81.4	82.7	82.5	1.33	4.3	2.5	-
LPC4 65-200/1.1	1.5	1.1	IE2	81.4	82.7	82.5	1.33	4.3	2.5	-
LPC4 65-200/1.5	2	1.5	IE2	81.0	83.5	83.0	1.81	5.9	3.4	-
LPC4 65-250/2.2	3	2.2	IE2	84.0	85.3	85.1	2.61	8.9	5.1	-
LPC4 65-250/3	4	3	IE2	82.6	84.7	86.4	3.47	11.3	6.5	-
LPC4 80-160/0.75	1.0	0.75	IE2	75.0	78.1	79.4	0.93	3.3	1.9	-
LPC4 80-160/1.1R	1.5	1.1	IE2	81.4	82.7	82.5	1.33	4.3	2.5	-
LPC4 80-160/1.1	1.5	1.1	IE2	81.4	82.7	82.5	1.33	4.3	2.5	-
LPC4 80-160/1.5	2	1.5	IE2	81.0	83.5	83.0	1.81	5.9	3.4	-
LPC4 80-200/2.2	3	2.2	IE2	84.0	85.3	85.1	2.61	8.9	5.1	-
LPC4 80-200/3	4	3	IE2	82.6	84.7	86.4	3.47	11.3	6.5	-
LPC4 80-250/4	5.5	4	IE2	86.0	87.3	87.1	4.59	14.8	8.5	-
LPC4 80-250/5.5	7.5	5.5	IE2	87.5	88.3	88.1	6.16	-	11.4	6.6
LPC4 100-160/1.5	2	1.5	IE2	81.0	83.5	83.0	1.81	5.9	3.4	-
LPC4 100-160/2.2	3	2.2	IE2	84.0	85.3	85.1	2.61	8.9	5.1	-
LPC4 100-200/3	4	3	IE2	82.6	84.7	86.4	3.47	11.3	6.5	-
LPC4 100-200/4	5.5	4	IE2	86.0	87.3	87.1	4.59	14.8	8.5	-
LPC4 100-250/5.5	7.5	5.5	IE2	87.5	88.3	88.1	6.16	-	11.4	6.6
LPC4 100-250/7.5	10	7.5	IE3	88.5	89.4	89.2	8.41	-	16.4	9.5
LPC4 125-250/5.5R	7.5	5.5	IE2	87.5	88.3	88.1	6.16	-	11.4	6.6
LPC4 125-250/5.5	7.5	5.5	IE2	87.5	88.3	88.1	6.16	-	11.4	6.6
LPC4 125-250/7.5	10	7.5	IE3	88.5	89.4	89.2	8.41	-	16.4	9.5
LPC4 125-250/11	15	11	IE3	89.4	90.3	90.1	12.49	-	22.0	12.7
LPC4 150-250/7.5	10	7.5	IE3	88.5	89.4	89.2	8.41	-	16.4	9.5
LPC4 150-250/11R	15	11	IE3	89.4	90.3	90.1	12.49	-	22.0	12.7
LPC4 150-250/11	15	11	IE3	89.4	90.3	90.1	12.49	-	22.0	12.7
LPC4 150-250/15R	20	15	IE3	90.6	91.2	91.0	16.87	-	29.0	16.7
LPC4 150-250/15	20	15	IE3	90.6	91.2	91.0	16.87	-	29.0	16.7

LPC - LPCD

IN-LINE CENTRIFUGAL ELECTRIC PUMPS

in cast iron

ELECTRICAL DATA TABLE LPCD4

4 Poles

Model	P2 [HP]	P2 [kW]	Efficiency Three phase	Efficiency (%) Three phase η% 50%	75%	100%	Input [kW]	Absorbed current [A] 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	P2 [HP]	P2 [kW]	LpA - dB(A)*
LPC 32-100/0.37	0.5	0.37	<70
LCP 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	
LPC 40-160/2.2	3	2.2	
LPC 40-160/3R	4	3	72
LPC 40-160/3	4	3	
LPC 40-200/4	5.5	4	78
LPC 40-200/5.5	7.5	5.5	
LPC 40-200/7.5	10	7.5	80
LPC 50-125/1.5	2	1.5	<70
LPC 50-125/2.2	3	2.2	
LPC 50-125/3	4	3	72
LPC 50-160/3	4	3	
LPC 50-160/4	5.5	4	78
LPC 50-200/5.5	7.5	5.5	
LPC 50-200/7.5R	10	7.5	80
LPC 50-200/7.5	10	7.5	
LPC 65-125/2.2	3	2.2	<70
LPC 65-125/3	4	3	72
LPC 65-125/4	5.5	4	78
LPC 65-160/5.5	7.5	5.5	
LPC 65-160/7.5	10	7.5	80
LPC 65-200/11	15	11	
LPC 65-200/15	20	15	
LPC 80-160/11	15	11	
LPC 80-160/15R	20	15	
LPC 80-160/15	20	15	
LPC 80-200/15	20	15	
LPC 80-200/18.5	25	18.5	81
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	
LPC 100-200/18.5	25	18.5	81
LPC 100-200/22	30	22	
LPC 100-200/30	40	30	83
LPC 100-200/37	50	37	
LPC 100-250/37	50	37	

NOISE DATA TABLE LPCD

2 Poles

Model	P2 [HP]	P2 [kW]	LpA - dB(A)*
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	
LPCD 50-125/3	4	3	72
LPCD 50-160/3	4	3	
LPCD 50-160/4	5.5	4	78
LPCD 65-160/3	4	3	72
LPCD 65-160/4	5.5	4	78
LPCD 65-160/5.5	7.5	5.5	
LPCD 65-160/7.5	10	7.5	80
LPCD 80-160/7.5	10	7.5	
LPCD 80-160/11	15	11	
LPCD 80-160/15R	17	12.5	
LPCD 80-160/15	20	15	
LPCD 100-200/15R	15	11	
LPCD 100-200/11	20	15	
LPCD 100-200/15	20	15	

LPC - LPCD

IN-LINE CENTRIFUGAL ELECTRIC PUMPS

in cast iron

NOISE DATA TABLE LPC4 — 4 Poles

Model	P_2 [HP]	P_2 [kW]	L_{pA} - dB(A)*
LPC4 32-100/0.25	0.33	0.25	<70
LPC4 40-100/0.25	0.33	0.25	
LPC4 40-125/0.25R	0.33	0.25	
LPC4 40-125/0.25	0.33	0.25	
LPC4 40-160/0.37	0.5	0.37	
LPC4 40-200/0.75	1.0	0.75	
LPC4 40-200/1.1	1.5	1.1	
LPC4 40-250/1.1	1.5	1.1	
LPC4 40-250/1.5	2	1.5	
LPC4 50-125/0.25	0.33	0.25	
LPC4 50-125/0.37	0.5	0.37	
LPC4 50-160/0.55	0.75	0.55	
LPC4 50-200/1.1R	1.5	1.1	
LPC4 50-200/1.1	1.5	1.1	
LPC4 50-250/1.5	2	1.5	
LPC4 50-250/2.2	3	2.2	
LPC4 65-125/0.37	0.5	0.37	<70
LPC4 65-125/0.55	0.75	0.55	
LPC4 65-160/0.75	1.0	0.75	
LPC4 65-160/1.1	1.5	1.1	
LPC4 65-200/1.1	1.5	1.1	
LPC4 65-200/1.5	2	1.5	
LPC4 65-250/2.2	3	2.2	
LPC4 65-250/3	4	3	72
LPC4 80-160/0.75	1.0	0.75	<70
LPC4 80-160/1.1R	1.5	1.1	
LPC4 80-160/1.1	1.5	1.1	
LPC4 80-160/1.5	2	1.5	
LPC4 80-200/2.2	3	2.2	
LPC4 80-200/3	4	3	72
LPC4 80-250/4	5.5	4	78
LPC4 80-250/5.5	7.5	5.5	
LPC4 100-160/1.5	2	1.5	<70
LPC4 100-160/2.2	3	2.2	
LPC4 100-200/3	4	3	72
LPC4 100-200/4	5.5	4	78
LPC4 100-250/5.5	7.5	5.5	
LPC4 100-250/7.5	10	7.5	80
LPC4 125-250/5.5R	7.5	5.5	78
LPC4 125-250/5.5	7.5	5.5	
LPC4 125-250/7.5	10	7.5	80
LPC4 125-250/11	15	11	
LPC4 150-250/7.5	10	7.5	
LPC4 150-250/11R	15	11	
LPC4 150-250/11	15	11	
LPC4 150-250/15R	20	15	
LPC4 150-250/15	20	15	

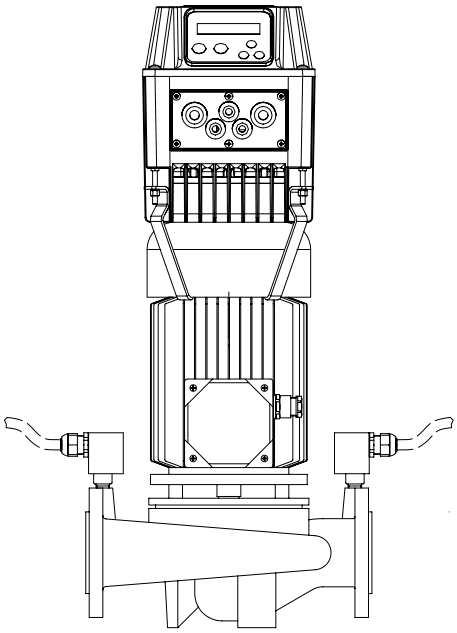
NOISE DATA TABLE LPCD4 — 4 Poles

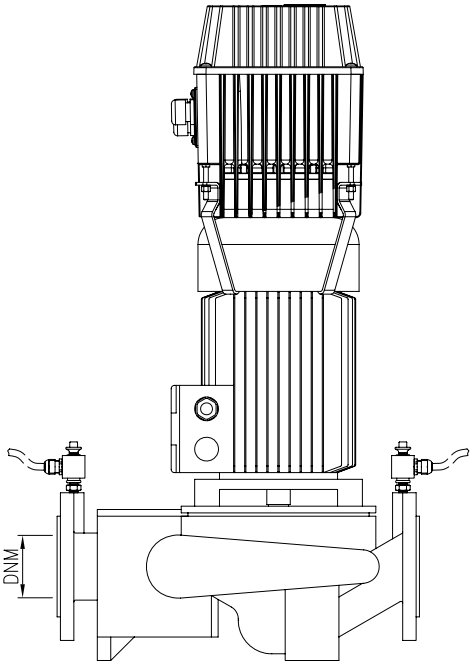
Model	P_2 [HP]	P_2 [kW]	L_{pA} - dB(A)*
LPCD4 40-125/0.25R	0.33	0.25	<70
LPCD4 40-125/0.25	0.33	0.25	
LPCD4 50-125/0.25	0.33	0.25	
LPCD4 50-125/0.37	0.5	0.37	
LPCD4 50-160/0.55	0.75	0.55	
LPCD4 65-160/0.75R	1	0.75	
LPCD4 65-160/0.75	1	0.75	
LPCD4 65-160/1.1	1.5	1.1	
LPCD4 80-160/0.75	1	0.75	
LPCD4 80-160/1.1R	1.5	1.1	
LPCD4 80-160/1.1	1.5	1.1	
LPCD4 80-160/1.5	2	1.5	
LPCD4 100-200/1.5	2	1.5	
LPCD4 100-200/2.2	3	2.2	
LPCD4 100- 200/3	4	3	72
LPCD4 100-200/4	5.5	4	78

LPC-LPCD WITH E-drive

IN-LINE ELECTRONIC ELECTRIC PUMPS + INVERTER

in cast iron





In-line centrifugal electric pumps, single and twin, with cast iron hydraulic equipment and inverter on-board motor.

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
- Energy and cost savings
- Extended system service life
- Lower stress on wear parts (mechanical seals, bearings, etc.) and hence less maintenance

PUMP TECHNICAL DATA

- 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

MOTOR TECHNICAL DATA

- High efficiency motors IE2 for power ratings 0.75kW to 5.5kW
  IE3 for power ratings above 7.5kW
- 2 and 4 poles self-ventilating asynchronous motors
- Insulation class F
- Protection rating IP 55
- Three phase power 230/400V ±10%, 50 Hz up to 4 kW, three phase power 400/690V ±10%, 50 Hz 5.5 kW and above
- Protection to be provided by the user

E-drive TECHNICAL DATA

- See page 232

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

LPC-LPCD WITH E-drive

IN-LINE ELECTRONIC ELECTRIC PUMPS + INVERTER

in cast iron

LPC(4) + E-*drive* **2 and 4 poles**

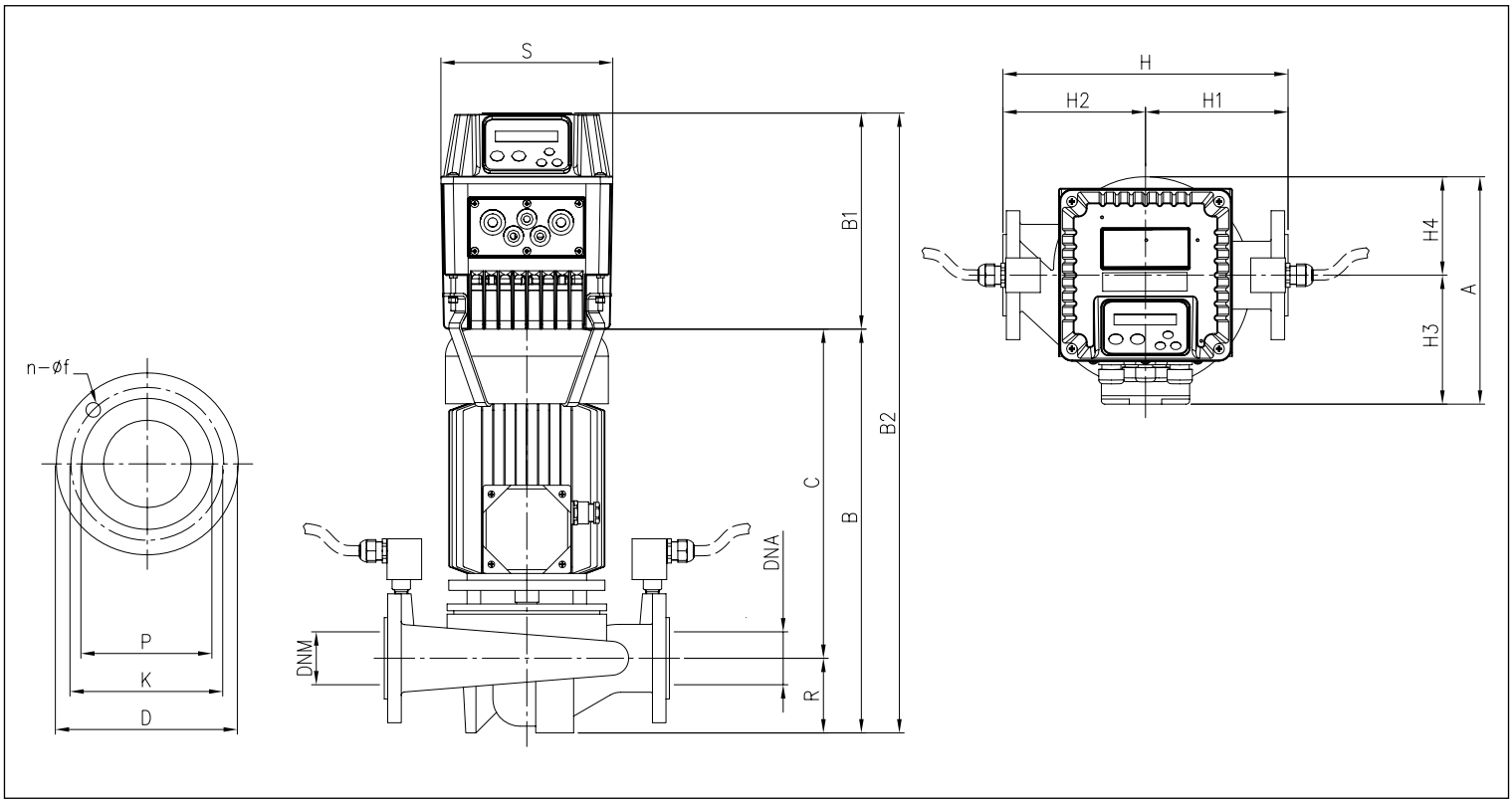


TABLE OF DIMENSIONS LPC + E-*drive* **2 Poles**

Model	Dimensions [mm]																			Weight [kg] Pump + E-*drive*
	DNA	DNM	n	f	P	K	D	H	H1	H2	H3	H4	R	A	B	B1	B2	S	C	
LPC 32-100/0.37 EDT (EDM)	DN32	DN32	4	14	70	90	120	220	110	110	112	65	65	177	379	228	607	181	314	16.5
LPC 40-100/0.55 EDT (EDM)	DN40	DN40	4	14	80	100	130	260	140	120	112	77	90	189	407	228	635	181	317	20.5
LPC/E 40-100/0.75 EDT (EDM)	DN40	DN40	4	14	80	100	130	260	140	120	129	77	90	206	424	228	652	181	334	22.5
LPC/E 40-125/0.75 EDT (EDM)	DN40	DN40	4	18	88	110	150	300	160	140	129	93	100	222	446	228	674	181	346	30.5
LPC/E 40-125/1.1 EDT (EDM)	DN40	DN40	4	18	88	110	150	300	160	140	129	93	100	222	446	228	674	181	346	31.5
LPC/E 40-125/1.5 EDT (EDM)	DN40	DN40	4	18	88	110	150	300	160	140	129	93	100	222	446	228	674	181	346	33.5
LPC/E 40-160/2.2 EDT	DN40	DN40	4	18	88	110	150	320	170	150	138	108	100	246	481	228	709	181	381	35.5
LPC/E 40-160/3R EDT	DN40	DN40	4	18	88	110	150	320	170	150	145	108	100	253	520	228	748	181	420	44.5
LPC/E 40-160/3 EDT	DN40	DN40	4	18	88	110	150	320	170	150	145	108	100	253	520	228	748	181	420	46.5
LPC/E 40-200/4 EDT	DN40	DN40	4	18	88	110	150	380	200	180	145	127	100	272	520	228	748	181	420	54.5
LPC/E 40-200/5.5 EDT	DN40	DN40	4	18	88	110	150	380	200	180	160	127	100	287	542	180	722	260	442	64.0
LPC/I 40-200/7.5 EDT	DN40	DN40	4	18	88	110	150	380	200	180	160	127	100	287	564	180	744	260	464	67.0
LPC/E 50-125/1.5 EDT (EDM)	DN50	DN50	4	18	102	125	165	322	182	140	129	103	110	232	456	228	684	181	346	32.5
LPC/E 50-125/2.2 EDT	DN50	DN50	4	18	102	125	165	322	182	140	138	103	110	241	491	228	719	181	381	34.5
LPC/E 50-125/3 EDT	DN50	DN50	4	18	102	125	165	322	182	140	145	103	110	248	530	228	758	181	420	41.5
LPC/E 50-160/3 EDT	DN50	DN50	4	18	102	125	165	340	180	160	145	113	110	258	530	228	758	181	420	41.5
LPC/E 50-160/4 EDT	DN50	DN50	4	18	102	125	165	340	180	160	145	113	110	258	530	228	758	181	420	46.5
LPC/E 50-200/5.5 EDT	DN50	DN50	4	18	102	125	165	400	220	180	160	131	110	291	552	180	732	260	442	65.0
LPC/I 50-200/7.5R EDT	DN50	DN50	4	18	102	125	165	400	220	180	160	131	110	291	574	180	754	260	464	68.0
LPC/I 50-200/7.5 EDT	DN50	DN50	4	18	102	125	165	400	220	180	160	131	110	291	574	180	754	260	464	68.0
LPC/E 65-125/2.2 EDT	DN65	DN65	4	18	122	145	185	360	205	155	138	108	140	246	521	228	749	181	381	40.5
LPC/E 65-125/3 EDT	DN65	DN65	4	18	122	145	185	360	205	155	145	108	140	253	560	228	788	181	420	47.5
LPC/E 65-125/4 EDT	DN65	DN65	4	18	122	145	185	360	205	155	145	108	140	253	560	228	788	181	420	48.5
LPC/E 65-160/5.5 EDT	DN65	DN65	4	18	122	145	185	400	220	180	160	122	140	282	582	180	762	260	442	63.0
LPC/I 65-160/7.5 EDT	DN65	DN65	4	18	122	145	185	400	220	180	160	122	140	282	604	180	784	260	464	65.0
LPC/I 65-200/11 EDT	DN65	DN65	4	18	122	145	185	440	240	200	194	136	140	330	679	180	859	260	539	90.0
LPC/I 80-160/11 EDT	DN80	DN80	8	18	138	160	200	440	240	200	194	131	160	325	719	180	899	260	559	92.0
LPC/I 100-160/11 EDT	DN100	DN100	8	18	158	180	220	525	300	225	194	136	190	330	800	180	980	260	610	96.0

LPC-LPCD WITH E-drive

IN-LINE ELECTRONIC ELECTRIC PUMPS + INVERTER

in cast iron

TABLE OF DIMENSIONS LPC4 + E-*drive*

4 Poles

Model	Dimensions [mm]																			Weight [kg] Pump + E-*drive*
	DNA	DNM	n	f	P	K	D	H	H1	H2	H3	H4	R	A	B	B1	B2	S	C	
LPC4 32-100/0.25 EDT (EDM)	DN32	DN32	4	14	70	90	120	220	110	110	112	65	65	177	379	228	607	181	314	16.5
LPC4 40-100/0.25 EDT (EDM)	DN40	DN40	4	14	80	100	130	260	140	120	112	77	90	189	407	228	635	181	317	20.5
LPC4 40-125/0.25R EDT (EDM)	DN40	DN40	4	18	88	110	150	300	160	140	112	93	100	205	429	228	657	181	329	24.5
LPC4 40-125/0.25 EDT (EDM)	DN40	DN40	4	18	88	110	150	300	160	140	112	93	100	205	429	228	657	181	329	24.5
LPC4 40-160/0.37 EDT (EDM)	DN40	DN40	4	18	88	110	150	320	170	150	112	108	100	220	429	228	657	181	329	27.5
LPC4/E 40-200/0.75 EDT (EDM)	DN40	DN40	4	18	88	110	150	380	200	180	139	127	100	266	446	228	674	181	346	36.5
LPC4/E 40-200/1.1 EDT (EDM)	DN40	DN40	4	18	88	110	150	380	200	180	148	127	100	275	481	228	709	181	381	41.5
LPC4/E 40-250/1.1 EDT (EDM)	DN40	DN40	4	18	88	110	150	440	230	210	148	165	100	313	481	228	709	181	381	56.5
LPC4/E 40-250/1.5 EDT (EDM)	DN40	DN40	4	18	88	110	150	440	230	210	148	165	100	313	481	228	709	181	381	59.5
LPC4 50-125/0.25 EDT (EDM)	DN50	DN50	4	18	102	125	165	322	182	140	112	103	110	215	439	228	667	181	329	25.5
LPC4 50-125/0.37 EDT (EDM)	DN50	DN50	4	18	102	125	165	322	182	140	112	103	110	215	439	228	667	181	329	26.5
LPC4 50-160/0.55 EDT (EDM)	DN50	DN50	4	18	102	125	165	340	180	160	112	113	110	225	439	228	667	181	329	29.5
LPC4/E 50-200/1.1R EDT (EDM)	DN50	DN50	4	18	102	125	165	400	220	180	148	131	110	279	491	228	719	181	381	44.5
LPC4/E 50-200/1.1 EDT (EDM)	DN50	DN50	4	18	102	125	165	400	220	180	148	131	110	279	491	228	719	181	381	44.5
LPC4/E 50-250/1.5 EDT (EDM)	DN50	DN50	4	18	102	125	165	440	230	210	148	165	125	313	506	228	734	181	381	57.5
LPC4/E 50-250/2.2 EDT	DN50	DN50	4	18	102	125	165	440	230	210	155	165	125	320	545	228	773	181	420	61.5
LPC4 65-125/0.37 EDT (EDM)	DN65	DN65	4	18	122	145	185	360	205	155	112	108	140	220	469	228	697	181	329	29.5
LPC4 65-125/0.55 EDT (EDM)	DN65	DN65	4	18	122	145	185	360	205	155	112	108	140	220	469	228	697	181	329	30.5
LPC4/E 65-160/0.75 EDT (EDM)	DN65	DN65	4	18	122	145	185	400	220	180	139	122	140	261	486	228	714	181	346	38.5
LPC4/E 65-160/1.1 EDT (EDM)	DN65	DN65	4	18	122	145	185	400	220	180	148	122	140	270	521	228	749	181	381	43.5
LPC4/E 65-200/1.1 EDT (EDM)	DN65	DN65	4	18	122	145	185	440	240	200	148	136	140	284	521	228	749	181	381	45.5
LPC4/E 65-200/1.5 EDT (EDM)	DN65	DN65	4	18	122	145	185	440	240	200	148	136	140	284	521	228	749	181	381	46.5
LPC4/E 65-250/2.2 EDT	DN65	DN65	4	18	122	145	185	475	250	225	155	165	140	320	560	228	788	181	420	71.5
LPC4/E 65-250/3 EDT	DN65	DN65	4	18	122	145	185	475	250	225	155	165	140	320	594	228	822	181	454	72.5
LPC4/E 80-160/0.75 EDT (EDM)	DN80	DN80	8	18	138	160	200	440	240	200	139	131	160	270	506	228	734	181	346	55.5
LPC4/E 80-160/1.1R EDT (EDM)	DN80	DN80	8	18	138	160	200	440	240	200	148	131	160	279	541	228	769	181	381	61.5
LPC4/E 80-160/1.1 EDT (EDM)	DN80	DN80	8	18	138	160	200	440	240	200	148	131	160	279	541	228	769	181	381	45.5
LPC4/E 80-160/1.5 EDT (EDM)	DN80	DN80	8	18	138	160	200	440	240	200	148	131	160	279	541	228	769	181	381	46.5
LPC4/E 80-200/2.2 EDT	DN80	DN80	8	18	138	160	200	500	275	225	155	146	160	301	580	228	808	181	420	56.5
LPC4/E 80-200/3 EDT	DN80	DN80	8	18	138	160	200	500	275	210	155	146	160	301	614	228	842	181	454	63.5
LPC4/E 80-250/4 EDT	DN80	DN80	8	18	138	160	200	530	280	250	171	168	160	339	614	228	842	181	454	87.5
LPC4/E 80-250/5.5 EDT	DN80	DN80	8	18	138	160	200	530	280	250	195	168	160	363	651	228	879	181	491	114.0
LPC4/E 100-160/1.5 EDT (EDM)	DN100	DN100	8	18	158	180	220	525	300	225	148	136	190	284	571	228	799	181	381	50.5
LPC4/E 100-160/2.2 EDT	DN100	DN100	8	18	158	180	220	525	300	225	155	136	190	291	610	228	838	181	420	55.5
LPC4/E 100-200/3 EDT	DN100	DN100	8	18	158	180	220	550	300	250	155	156	190	311	658	228	886	181	468	72.5
LPC4/E 100-200/4 EDT	DN100	DN100	8	18	158	180	220	550	300	250	171	156	190	327	644	228	872	181	454	76.5
LPC4/E 100-250/5.5 EDT	DN100	DN100	8	18	158	180	220	600	320	280	195	176	190	371	701	180	881	260	511	116.0
LPC4/I 100-250/7.5 EDT	DN100	DN100	8	18	158	180	220	600	320	280	195	176	190	371	741	180	921	260	551	126.0
LPC4/E 125-250/5.5R EDT	DN125	DN125	8	18	188	210	250	620	340	280	195	195	195	390	706	180	886	260	511	152.0
LPC4/E 125-250/5.5 EDT	DN125	DN125	8	18	188	210	250	620	340	280	195	195	195	390	706	180	886	260	511	152.0
LPC4/I 125-250/7.5 EDT	DN125	DN125	8	18	188	210	250	620	340	280	195	195	195	390	746	180	926	260	551	155.0
LPC4/I 125-250/11 EDT	DN125	DN125	8	18	188	210	250	620	340	280	238	195	195	433	861	180	1041	260	666	195.0
LPC4/I 150-250/7.5 EDT	DN150	DN150	8	22	212	240	285	700	370	330	195	210	220	405	802	180	982	260	582	174.0
LPC4/I 150-250/11R EDT	DN150	DN150	8	22	212	240	285	700	370	330	195	210	220	405	895	180	1075	260	675	203.0
LPC4/I 150-250/11 EDT	DN150	DN150	8	22	212	240	285	700	370	330	195	210	220	405	895	180	1075	260	675	215.0

LPC-LPCD WITH E-drive

IN-LINE ELECTRONIC ELECTRIC PUMPS + INVERTER

in cast iron

LPCD(4) + E-*drive* **2 and 4 poles**

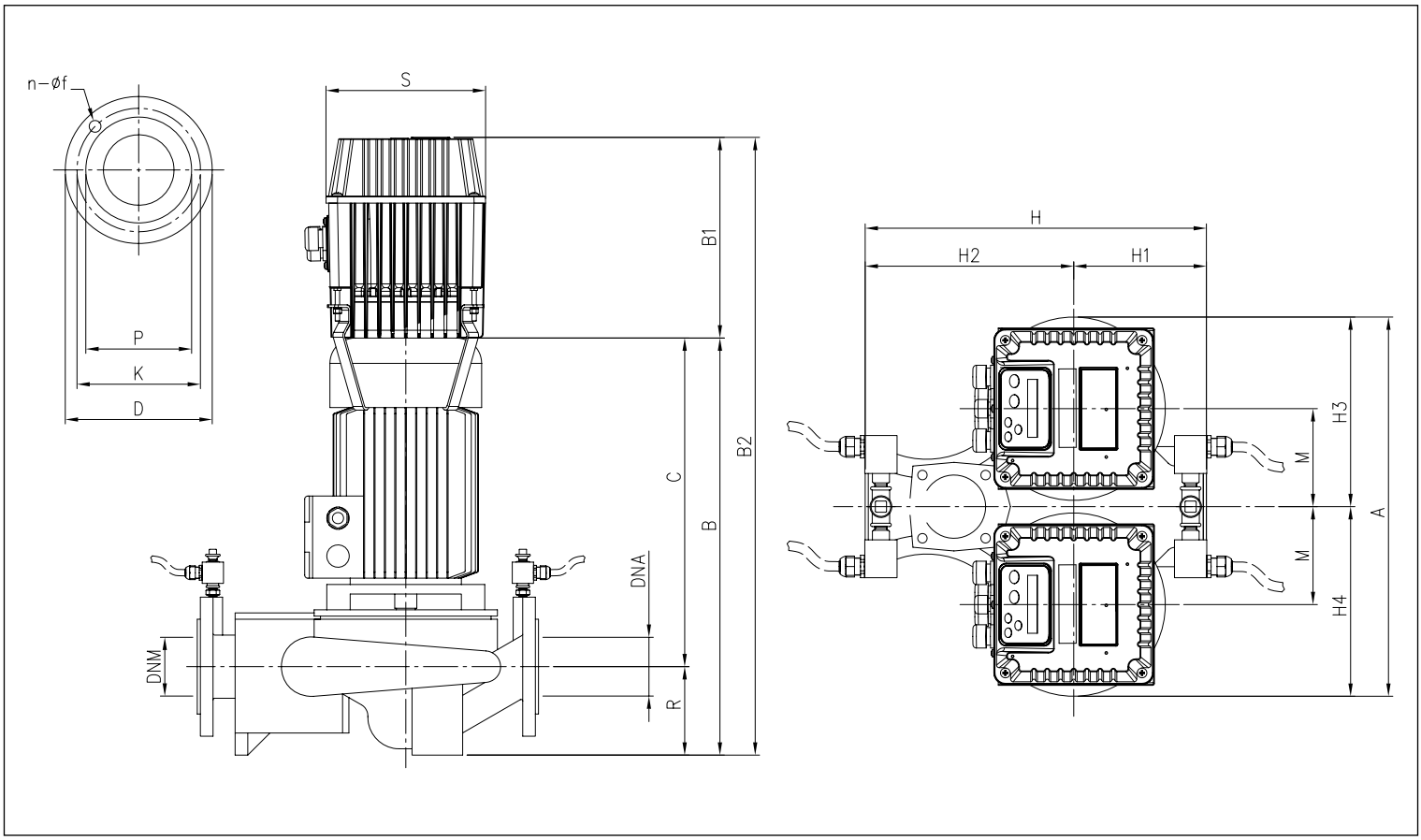


TABLE OF DIMENSIONS LPCD + E-*drive* **2 Poles**

Model	Dimensions [mm]																				Weight [kg]
	DNA	DNM	n	f	P	K	D	H	H1	H2	H3	H4	M	R	A	B	B1	B2	S	C	Pump + E-*drive*
LPCD 40-125/0.75 R EDT (EDM)	DN40	DN40	4	18	88	110	150	340	130	210	197	200	100	100	397	446	228	674	180	346	64.0
LPCD/E 40-125/0.75 EDT (EDM)	DN40	DN40	4	18	88	110	150	340	130	210	197	200	100	100	397	446	228	697	180	346	64.0
LPCD/E 40-125/1.1 EDT (EDM)	DN40	DN40	4	18	88	110	150	340	130	210	197	200	100	100	397	446	228	697	180	346	66.0
LPCD/E 40-125/1.5 EDT (EDM)	DN40	DN40	4	18	88	110	150	340	130	210	197	200	100	100	397	446	228	742	180	346	68.0
LPCD/E 50-125/1.5 EDT (EDM)	DN50	DN50	4	18	102	125	165	365	145	220	210	217	105	110	427	456	228	752	180	346	70.0
LPCD/E 50-125/2.2 EDT	DN50	DN50	4	18	102	125	165	365	145	220	210	217	105	110	427	491	228	752	180	381	73.0
LPCD/E 50-125/3 EDT	DN50	DN50	4	18	102	125	165	365	145	220	210	217	105	110	427	530	228	792	180	420	86.0
LPCD/E 50-160/3 EDT	DN50	DN50	4	18	102	125	165	410	170	240	235	245	120	110	480	530	228	792	180	420	87.0
LPCD/E 50-160/4 EDT	DN50	DN50	4	18	102	125	165	410	170	240	235	245	120	110	480	530	228	812	180	420	95.0
LPCD/E 65-160/3 EDT	DN65	DN65	4	18	122	145	185	450	180	270	268	275	140	130	543	550	228	812	180	420	101.0
LPCD/E 65-160/4 EDT	DN65	DN65	4	18	122	145	185	450	180	270	268	275	140	130	543	550	228	832	180	420	110.0
LPCD/E 65-160/5.5 EDT	DN65	DN65	4	18	122	145	185	450	180	270	268	275	140	130	543	572	180	825	260	442	126.0
LPCD/I 65-160/7.5 EDT	DN65	DN65	4	18	122	145	185	450	180	270	268	275	140	130	543	594	180	825	260	464	132.0
LPCD/I 80-160/7.5 EDT	DN80	DN80	8	18	138	160	200	510	205	305	270	280	135	150	550	614	180	845	260	464	155.0
LPCD/I 80-160/11 EDT	DN80	DN80	8	18	138	160	200	510	205	305	270	280	135	150	550	709	180	985	260	559	202.0
LPCD/I 100-200/11 EDT	DN100	DN100	8	18	158	180	220	630	240	390	345	325	165	180	670	751	180	1027	260	571	240.0

LPC-LPCD WITH E-drive

IN-LINE ELECTRONIC ELECTRIC PUMPS + INVERTER

in cast iron

TABLE OF DIMENSIONS LPCD4 + E-*drive*

4 Poles

Model	Dimensions [mm]																				Weight [kg] Pump + E-*drive*
	DNA	DNM	n	f	P	K	D	H	H1	H2	H3	H4	M	R	A	B	B1	B2	S	C	
LPCD4 40-125/0.25R EDT (EDM)	DN40	DN40	4	18	88	110	150	340	130	210	197	200	100	100	397	430	228	658	181	330	53.0
LPC4 40-125/0.25 EDT (EDM)	DN40	DN40	4	18	88	110	150	340	130	210	197	200	100	100	397	430	228	658	181	330	53.0
LPC4 50-125/0.25 EDT (EDM)	DN50	DN50	4	18	102	125	165	365	145	220	197	200	105	110	397	440	228	668	181	330	55.0
LPC4 50-125/0.37 EDT (EDM)	DN50	DN50	4	18	102	125	165	365	145	220	197	200	105	110	397	440	228	668	181	330	56.0
LPC4 50-160/0.55 EDT (EDM)	DN50	DN50	4	18	102	125	165	410	170	240	235	245	120	110	480	440	228	668	181	330	62.0
LPCD4/E 65-160/0.75 EDT (EDM)	DN65	DN65	4	18	122	145	185	450	180	270	268	275	140	130	543	476	228	704	181	346	75.0
LPCD4/E 65-160/1.1 EDT (EDM)	DN65	DN65	4	18	122	145	185	450	180	270	268	275	140	130	543	511	228	739	181	381	88.0
LPCD4/E 80-160/0.75 EDT (EDM)	DN80	DN80	8	18	138	160	200	510	205	305	270	280	135	150	550	496	228	724	181	346	84.0
LPCD4/E 80-160/1.1R EDT (EDM)	DN80	DN80	8	18	138	160	200	510	205	305	270	280	135	150	550	531	228	759	181	381	95.0
LPCD4/E 80-160/1.1 EDT (EDM)	DN80	DN80	8	18	138	160	200	510	205	305	270	280	135	150	550	531	228	759	181	381	95.0
LPCD4/E 80-160/1.5 EDT (EDM)	DN80	DN80	8	18	138	160	200	510	205	305	270	280	135	150	550	531	228	759	181	381	96.0
LPCD4/E 100-200/1.5 EDT (EDM)	DN100	DN100	8	18	158	180	220	630	240	390	345	325	165	180	670	573	228	801	181	393	142.0
LPCD4/E 100-200/2.2 EDT	DN100	DN100	8	18	158	180	220	630	240	390	345	325	165	180	670	612	228	840	181	432	152.0
LPCD4/E 100-200/3 EDT	DN100	DN100	8	18	158	180	220	630	240	390	345	325	165	180	670	646	228	874	181	466	163.0
LPCD4/E 100-200/4 EDT	DN100	DN100	8	18	158	180	220	630	240	390	345	325	165	180	670	634	228	862	181	454	178.0

ELINE

IN-LINE NORMALISED ELECTRIC PUMPS

in cast iron

In-line centrifugal electric pumps with hydraulic equipment in cast iron, single impeller, designed to satisfy DIN 24255. Equipped with normalised motor.

APPLICATIONS

- Heating and air conditioning systems
- Cooling and domestic hot water systems
- Pressurisation
- Industrial: pumping clean, chemically neutral fluids without abrasive particles in suspension

CHARACTERISTICS AND ADVANTAGES

- Direct mounting to pipes with supplementary mounts up to 3 kW power rating
- Very silent running
- Reduced size
- Ease of installation and removal
- Low maintenance

OPTIONS/ACCESSORIES AVAILABLE ON REQUEST

- Anti-condensation heating elements
- ATEX execution
- Temperature sensors (PT100), thermistors (PTC)
- Dual speed
- Powered ventilation

PUMP TECHNICAL DATA

- Maximum operating pressure: 10 bar
- Fluid temperature: -10 ÷ +120°C
- Admitted fluids: clean, chemically neutral and without suspended particles
- Flanges (delivery and suction): DN 40 to DN 200
- MEI > 0.4

MOTOR TECHNICAL DATA

- Three phase asynchronous motor, 2 and 4 poles
- Speed: 1450 – 2900 rpm
- Insulation class: F
- Protection rating: IP55
- Ambient temperature: 40°C
- Voltage:
  - 3~230/400V ±10% (for power ≤ 4 kW)
  - 3~400/690V ±10% (for power > 4 kW)
- Frequency: 50 Hz (60Hz available on request)

MATERIALS

- Pump body and lantern in cast iron (GG-25)
- Cast iron impeller (GG-20)
- Shaft made of AISI 316 stainless steel
- Mechanical seal in graphite/ceramic
- Gasket/O-ring in paper/NBR

IDENTIFICATION CODE

EL	40	-	160	/	0.75	A

- A: Impeller size
- 0.75: Power [kW]
- 160: Impeller dia. in mm — 125, 160, 200, 250
- 40: Flange size in mm — 40, 50, 65, 80, 100, 125, 150, 200
- EL: Model — EL 2 Poles; EL4 4 Poles

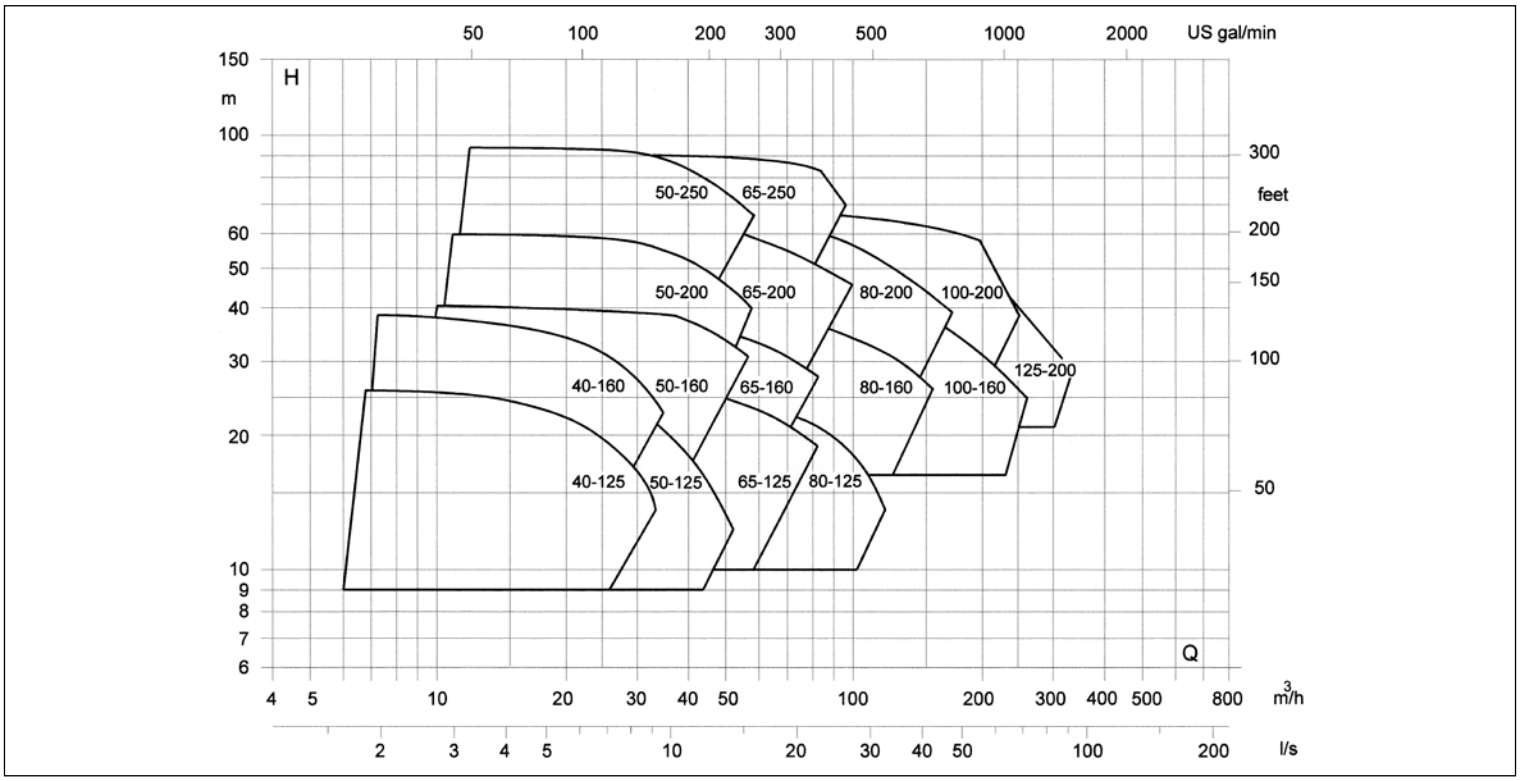
IN-LINE NORMALISED ELECTRIC PUMPS

in cast iron

PERFORMANCE RANGE ELINE

2 Poles

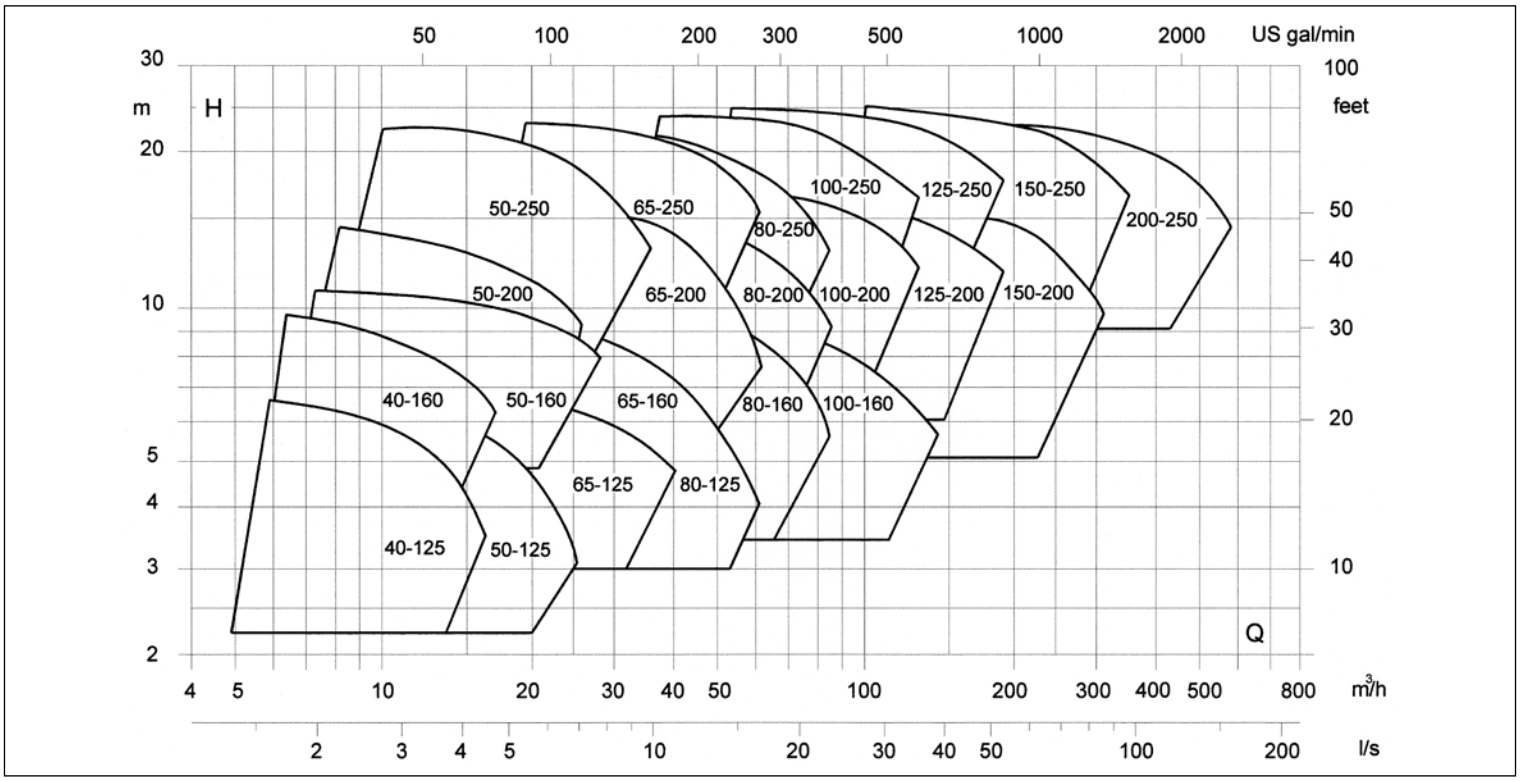
(per ISO 9906 Annex A)



PERFORMANCE RANGE ELINE 4

4 Poles

(per ISO 9906 Annex A)



IN-LINE NORMALISED ELECTRIC PUMPS

in cast iron

SELECTION TABLE up to 60 m³/h

2 Poles

H [m] \ Q [m³/h]	7	10	15	20	25	30	35	40	45	50	55	60
10					40-125 1.5 C	50-125 2.2 C	50-125 2.2 C					
15	50-125 1.5 C	40-125 1.5 C	40-125 1.5 C	40-125 2.2 B	40-125 2.2 B	50-125 3 B	50-125 3 B	50-125 4 A	65-125 4 C	65-125 5.5 B	65-125 5.5 B	65-125 5.5B
20	40-125 2.2 B	40-125 2.2 B	40-125 2.2 B	40-125 2.2 A	40-125 3 A	50-125 3 A	50-125 4 A	65-125 4 B	65-125 5.5 B	65-125 5.5 A	65-125 7.5 A	65-125 7.5 A
25	40-125 2.2 A	40-125 2.2 A	40-125 2.2 A	40-160 3 B	40-160 5.5 A	50-160 5.5 B	50-160 5.5 B	65-125 5.5 A	65-125 5.5 A	65-125 7.5 B	65-125 7.5 B	65-125 7.5 B
30	40-160 3 B	40-160 3 B	40-160 3 B	40-160 4 A	40-160 5.5 A	50-160 5.5 B	50-160 5.5 B	50-160 7.5 A	65-125 7.5 B	65-160 9.2 A	65-160 9.2 B	65-160 9.2 A
35	40-160 4 A	40-160 4 A	40-160 4 A	40-160 4 A	50-160 7.5 A	50-160 7.5 A	50-160 7.5 A	50-160 7.5 A	65-160 9.2 A	65-160 9.2 A	65-160 9.2 B	65-160 9.2 A
40	50-160 7.5 A	50-160 7.5 A	50-160 7.5 A	50-160 7.5 A	50-160 7.5 A	50-160 7.5 A	50-200 9.2 B	50-200 9.2 B	50-200 11 B	100-200 22 D	100-200 22 D	100-200 22 D
45	50-200 9.2 B	50-200 9.2 B	50-200 9.2 B	50-200 9.2 B	50-200 9.2 B	50-200 9.2 B	50-200 9.2 B	50-200 9.2 B	50-250 15 C	100-200 30 C	100-200 30 C	100-200 30 C
50	50-200 9.2 B	50-200 9.2 B	50-200 9.2 B	50-200 9.2 B	50-200 9.2 B	50-200 9.2 B	50-200 11 B	50-200 11 B	65-250 18.5 C	100-200 30 C	100-200 30 C	100-200 30 C
55	50-200 11 A	50-200 11 A	50-200 11 A	50-200 11 A	50-200 11 A	50-200 9.2 B	50-200 11 B	50-200 11 B	65-250 18.5 C	100-200 30 B	100-200 30 B	100-200 30 C
60	50-250 11 C	50-250 11 C	50-250 11 C	50-250 11 C	50-250 11 C	50-250 15 B	50-250 15 B	50-250 15 B	50-250 15 B	100-200 37 A	100-200 30 C	100-200 30 C
65	50-250 15 B	50-250 15 B	50-250 15 B	50-250 15 B	50-250 15 B	50-250 15 B	50-250 15 B	50-250 15 B	50-250 18.5 A	100-200 37 A	100-200 37 A	100-200 37 A
70	50-250 15 B	50-250 15 B	50-250 15 B	50-250 15 B	50-250 15 B	50-250 15 B	50-250 15 B	50-250 18.5 A	50-250 18.5 A	50-250 22 A	65-250 22 B	65-250 22 B
75	50-250 15 B	50-250 15 B	50-250 15 B	50-250 15 B	50-250 15 B	50-250 15 B	50-250 18.5 A	50-250 18.5 A	50-250 18.5 A	50-250 22 A	65-250 22 B	65-250 22 B
80	50-250 15 B	50-250 15 B	50-250 18.5 A	50-250 15 B	50-250 18.5 A	50-250 18.5 A	50-250 18.5 A	50-250 18.5 A	50-250 18.5 A	50-250 22 A	65-250 30 A	65-250 30 A
85	50-250 18.5 A	50-250 18.5 A	50-250 18.5 A	50-250 15 B	50-250 18.5 A	50-250 18.5 A	50-250 18.5 A	50-250 18.5 A	65-250 30 A	65-250 30 A	65-250 30 A	65-250 22 B
90	50-250 18.5 A	50-250 18.5 A	50-250 18.5 A	50-250 15 B	50-250 18.5 A	50-250 18.5 A	50-250 18.5 A	65-250 30 A	65-250 30 A	65-250 30 A	65-250 30 A	65-250 30 A
95	50-250 18.5 A	50-250 18.5 A	50-250 18.5 A	50-250 15 B	50-250 18.5 A	65-250 30 A	65-250 30 A					

Model --> 50-250
Motor power (kW) --> 18.5 A <-- Impeller

Single pump

Single/twin pump

IN-LINE NORMALISED ELECTRIC PUMPS

in cast iron

SELECTION TABLE 65 m³/h and above

2 Poles

H [m] \ Q [m³/h]	65	70	80	90	100	125	150	175	200	225	250	275
10												
15	65-125 5.5B	80-125 5.5 B	80-125 5.5 B	80-125 7.5 A	80-125 7.5 A				100-160 15 C			
20	65-160 7.5 B	65-160 7.5 B	80-125 7.5 A	80-125 7.5 A	80-160 9.2 C	80-160 15 B	100-160 15 C	100-160 15 C	100-160 22 B			
25	65-160 7.5 B	65-160 9.2 A	80-160 11 B	80-160 11 B	80-160 11 B	80-160 15 B	80-160 18.5 A	100-160 18.5 B	100-160 22 B			
30	65-160 9.2 A	65-160 9.2 A	80-160 11 B	80-160 11 B	100-200 22 D	100-200 22 D	100-200 22 D	100-200 22 D	100-200 30 C	125-200 30 D	125-200 30 D	
35	100-200 22 D	100-200 22 D	100-200 22 D	100-200 22 D	100-200 22 D	100-200 22 D	100-200 22 D	100-200 30 C	100-200 30 C	125-200 30 D	125-200 37 C	
40	100-200 22 D	100-200 22 D	100-200 22 D	100-200 22 D	100-200 22 D	100-200 30 C	100-200 30 C	100-200 30 C	100-200 37 B	125-200 37 C	125-200 37 C	
45	100-200 30 C	100-200 30 C	100-200 30 C	100-200 30 C	100-200 30 C	100-200 30 C	100-200 30 C	100-200 37 A	125-200 37 C			
50	100-200 30 C	100-200 30 C	100-200 30 B	100-200 30 B	100-200 30 B	100-200 30 B	100-200 30 B	100-200 37 A				
55	100-200 30 B	100-200 30 B	100-200 30 B	100-200 30 B	100-200 30 B	100-200 30 B	100-200 37 A					
60	100-200 30 B	100-200 30 B	100-200 30 B	100-200 37 A	100-200 37 A	100-200 37 A	100-200 37 A					
65	100-200 37 A	100-200 37 A	100-200 37 A	100-200 37 A	100-200 37 A							
70	65-250 22 B	65-250 22 B	65-250 30 B									
75	65-250 22 B	65-250 30 A										
80	65-250 30 A	65-250 30 A										
85	65-250 22 B											
90	65-250 30 A											
95												

Model -->
Motor power (kW) --> 100-200 22 D <-- Impeller

Single pump

Single/twin pump

IN-LINE NORMALISED ELECTRIC PUMPS

in cast iron

SELECTION TABLE up to 80 m³/h

4 Poles

H [m] \ Q [m³/h]	4	6	8	10	12	14	16	18	20	25	30	35	40	45	50	55	60	65	70	80
4	40-125 0.55 C	40-125 0.55 C	40-125 0.55 C	40-125 0.55 B	40-125 0.55 B	50-125 0.55 B	50-125 0.55 B	50-125 0.55 A	50-125 0.55 A	65-125 0.55 B	65-125 0.75 B	65-160 1.1 B	65-160 1.1 B	65-160 1.1 B	80-160 1.1 C	80-160 1.1 C	80-160 1.1 C			
5	40-125 0.55 B	40-125 0.55 B	40-125 0.55 B	40-125 0.55 B	40-125 0.55 A	50-125 0.55 A	50-125 0.55 A	50-125 0.55 A	65-125 0.55 B	65-125 0.55 B	65-125 0.75 A	65-160 1.1 B	65-160 1.1 B	65-160 1.5 A	80-160 1.1 C	80-160 1.5 B	80-160 1.5 B	100-160 2.2 C	100-160 2.2 C	100-160 2.2 C
6	40-125 0.55 A	40-125 0.55 A	40-125 0.55 A	40-160 0.55 B	40-160 0.55 B	50-160 0.75 B	50-160 0.75 B	50-160 0.75 B	65-125 0.75 A	65-125 0.75 A	65-160 1.1 B	65-160 1.1 B	65-160 1.5 A	65-160 1.5 A	80-160 1.5 B	80-160 1.5 B	80-160 1.5 B	100-160 2.2 B	100-160 2.2 B	100-160 2.2 B
7	40-160 0.55 B	40-160 0.55 B	40-160 0.55 B	40-160 0.55 A	40-160 0.55 A	50-160 0.75 B	50-160 0.75 B	50-160 0.75 B	50-160 0.75 B	65-160 1.5 A	65-160 1.5 A	65-160 1.5 A	65-160 1.5 A	80-160 1.5 B	80-160 1.5 B	80-160 1.5 B	80-160 2.2 A	100-160 2.2 B	100-160 2.2 B	100-160 3 A
8	40-160 0.55 A	40-160 0.55 A	40-160 0.55 A	40-160 0.55 A	40-160 0.55 A	50-160 1.1 A	50-160 1.1 A	50-160 1.1 A	50-160 1.1 A	65-160 1.5 A	65-160 1.5 A	65-160 1.5 A	65-200 2.2 C	80-160 2.2 A	80-160 2.2 A	80-160 2.2 A	80-160 2.2 A	80-200 3 B	100-160 3 A	100-160 3 A
9	40-160 0.55 A	40-160 0.55 A	40-160 0.55 A	50-160 1.1 A	50-160 1.1 A	50-160 1.1 A	50-160 1.1 A	50-160 1.1 A	50-160 1.1 A	65-160 1.5 A	65-200 1.5 C	65-200 1.5 C	65-200 2.2 B	80-160 2.2 A	80-160 2.2 A	80-160 2.2 A	80-200 3 B	80-200 3 B	80-200 4 A	80-200 4 A
10		50-160 1.1 A	50-160 1.1 A	50-160 1.1 A	50-160 1.1 A	50-160 1.1 A	50-160 1.1 A	50-200 1.5 A	50-200 1.5 A	50-250 2.2 B	65-200 2.2 C	65-200 2.2 B	65-200 2.2 B	80-200 2.2 B	80-200 3 B	80-200 3 B	80-200 3 B	80-200 4 A	80-200 4 A	80-250 5.5 A
11		50-200 1.1 B	50-200 1.1 B	50-200 1.1 B	50-200 1.1 B	50-200 1.5 A	50-200 1.5 A	50-200 1.5 A	50-200 1.5 A	50-250 2.2 B	65-200 2.2 B	65-200 2.2 B	65-200 2.2 B	80-200 2.2 B	80-200 2.2 B	80-200 3 B	80-200 4 A	80-200 4 A	80-200 4 A	80-250 5.5 A
12		50-200 1.1 B	50-200 1.5 A	50-200 1.5 A	50-200 1.5 A	50-200 1.5 A	50-200 1.5 A	50-200 1.5 A	50-250 2.2 C	50-250 2.2 B	65-200 2.2 B	65-200 2.2 A	65-200 2.2 A	80-200 2.2 B	80-200 3 A	80-200 3 A	80-200 4 A	80-200 4 A	80-200 4 A	80-250 5.5 A
13		50-200 1.5 A	50-200 1.5 A	50-200 1.5 A	50-200 1.5 A	50-200 1.5 A	50-200 1.5 A	50-250 2.2 C	50-250 2.2 B	50-250 2.2 B	65-200 2.2 A	65-200 2.2 A	65-200 2.2 A	80-200 3 A	80-200 3 A	80-200 3 A	80-200 4 A	80-200 4 A	80-250 5.5 A	80-250 5.5 A
14		50-200 1.5 A	50-200 1.5 A	50-200 1.5 A	50-200 1.5 A	50-250 2.2 C	50-250 2.2 C	50-250 2.2 B	50-250 2.2 B	50-250 2.2 B	65-200 2.2 A	65-200 2.2 A	65-200 2.2 A	80-200 3 A	80-200 3 A	80-200 3 A	80-200 4 B	80-200 4 B	80-250 5.5 A	80-250 5.5 A
16		50-250 2.2 B	50-250 2.2 B	50-250 2.2 C	50-250 2.2 B	50-250 2.2 B	50-250 2.2 B	50-250 2.2 B	50-250 2.2 B	50-250 3 A	65-250 3 B	65-250 3 B	65-250 3 B	80-250 4 C	80-250 4 B	80-250 5.5 A	80-250 5.5 A	80-250 5.5 A	80-250 5.5 B	100-250 7.5 A
18		50-250 2.2 B	50-250 2.2 B	50-250 2.2 B	50-250 2.2 B	50-250 2.2 B	50-250 2.2 B	50-250 2.2 A	50-250 2.2 A	50-250 2.2 A	65-250 3 B	65-250 4 A	65-250 4 A	80-250 5.5 A	80-250 5.5 A	80-250 5.5 A	80-250 5.5 A	100-250 7.5 A	100-250 7.5 A	100-250 7.5 A
20		50-250 2.2 A	50-250 2.2 A	50-250 2.2 A	50-250 2.2 B	50-250 2.2 A	50-250 2.2 A	50-250 2.2 A	50-250 2.2 A	65-250 4 A	65-250 4 A	65-250 4 A	65-250 4 A	80-250 5.5 A	80-250 5.5 A	100-250 7.5 A	100-250 7.5 A	100-250 7.5 A	100-250 7.5 A	100-250 7.5 A
22		50-250 2.2 A	50-250 2.2 A	50-250 2.2 A	50-250 2.2 A	50-250 2.2 A	50-250 2.2 A	50-250 2.2 A	65-250 4 A	65-250 4 A	65-250 4 A	100-250 7.5 A	100-250 7.5 A	100-250 7.5 A	100-250 7.5 A	100-250 7.5 A	100-250 7.5 A	100-250 7.5 A	100-250 7.5 A	100-250 7.5 A
24		50-250 2.2 A	50-250 2.2 A	50-250 2.2 A	50-250 2.2 A	50-250 2.2 A	65-250 4 A	65-250 4 A	100-250 7.5 A	100-250 7.5 A	100-250 7.5 A	100-250 7.5 A	100-250 7.5 A	100-250 7.5 A	125-250 11 A	125-250 11 A	125-250 11 A	125-250 11 A	125-250 11 A	125-250 11 A

Model -->
Motor power (kW) --> 50-200 1.5 A <-- Impeller

Single pump

Single/twin pump

IN-LINE NORMALISED ELECTRIC PUMPS

in cast iron

SELECTION TABLE 90 m³/h and above

4 Poles

H [m] \ Q [m³/h]	90	100	110	120	130	140	150	160	180	200	225	250	275	300	350	400	450	500
4																		
5	100-160 3 A	100-160 3 A	100-160 3 A	100-160 4 A														
6	100-160 3 A	100-160 3 A	100-160 3 A	100-160 4 A	100-160 4 A													
7	100-160 3 A	100-160 3 A	100-160 3 A	125-200 4 D	125-200 4 D	150-200 5.5 D	150-200 5.5 D	150-200 5.5 D	150-200 5.5 D	150-200 7.5 C								
8	100-160 3 A	100-200 4 C	100-200 4 C	125-200 4 D	125-200 5.5 C	150-200 5.5 D	150-200 5.5 D	150-200 5.5 D	150-200 7.5 C	150-200 7.5 C	150-200 7.5 C	150-200 11 B						
9	100-200 4 C	100-200 4 C	100-200 5.5 B	125-200 5.5 C	125-200 5.5 C	125-200 5.5 C	150-200 7.5 C	150-200 7.5 C	150-200 7.5 C	150-200 7.5 C	150-200 11 B	150-200 11 B						
10	100-200 4 C	100-200 5.5 B	100-200 5.5 B	125-200 5.5 C	125-200 5.5 C	125-200 7.5 B	150-200 7.5 C	150-200 7.5 C	150-200 11 B	150-200 11 B	150-200 11 B	150-200 11 A						
11	100-200 4 A	100-200 5.5 B	100-200 5.5 B	125-200 5.5 B	125-200 7.5 C	125-200 7.5 C	150-200 7.5 B	150-200 7.5 B	150-200 11 B	150-200 11 B	150-200 11 A	150-200 11 A	150-200 11 A	200-250 15 D	200-250 15 D			
12	100-200 4 A	100-200 5.5 A	100-200 5.5 A	125-200 5.5 B	125-200 7.5 C	125-200 7.5 B	150-200 7.5 B	150-200 7.5 B	150-200 11 B	150-200 11 A	150-200 11 A	150-200 11 A	200-250 15 D	200-250 15 D	200-250 15 D			
13	100-200 5.5 A	100-200 5.5 A	100-200 5.5 A	125-200 7.5 A	125-200 7.5 A	125-200 7.5 A	150-200 11 A	150-200 11 A	150-200 11 A	150-200 11 A	150-200 11 A	150-250 15 C	200-250 15 D	200-250 15 D	200-250 18.5 C	200-250 18.5 C	200-250 30 B	
14	100-200 5.5 A	100-200 5.5 A	100-200 5.5 A	125-200 7.5 A	125-200 7.5 A	125-200 7.5 A	150-200 11 A	150-200 11 A	150-200 11 A	150-200 11 A	150-250 15 C	150-250 15 C	200-250 15 D	200-250 18.5 C	200-250 18.5 C	200-250 30 B	200-250 30 B	200-250 30 A
16	100-250 9.2 A	100-250 9.2 A	100-250 9.2 A	100-250 9.2 A	100-250 9.2 A	125-250 11 B	150-250 15 C	150-250 15 C	150-250 15 C	150-250 15 C	150-250 15 C	150-250 15 B	200-250 18.5 C	200-250 18.5 C	200-250 22 B	200-250 30 B	200-250 30 A	200-250 30 A
18	100-250 9.2 A	100-250 9.2 A	100-250 9.2 A	100-250 9.2 A	125-250 11 B	125-250 11 B	150-250 15 C	150-250 15 C	150-250 15 B	150-250 15 B	150-250 15 B	150-250 18.5 B	200-250 22 B	200-250 22 B	200-250 22 B	200-250 30 A	200-250 30 A	
20	100-250 9.2 A	100-250 9.2 A	125-250 11 B	125-250 11 A	125-250 11 A	125-250 11 A	150-250 15 B	150-250 15 B	150-250 15 B	150-250 15 B	150-250 18.5 A	150-250 18.5 A	200-250 30 A	200-250 30 A	200-250 30 A	200-250 30 A		
22	125-250 11 A	125-250 11 A	125-250 11 A	125-250 11 A	125-250 11 A	125-250 11 A	150-250 18.5 A	150-250 18.5 A	150-250 18.5 A	150-250 18.5 A	150-250 18.5 A	200-250 30 A	200-250 30 A	200-250 30 A				
24	125-250 11 A	200-250 30 A	150-250 18.5 A	150-250 18.5 A	150-250 18.5 A	150-250 18.5 A	150-250 18.5 A	150-250 18.5 A	150-250 18.5 A									

Model -->
Motor power (kW) -->
50-250 2.2 B <-- Impeller

Single pump

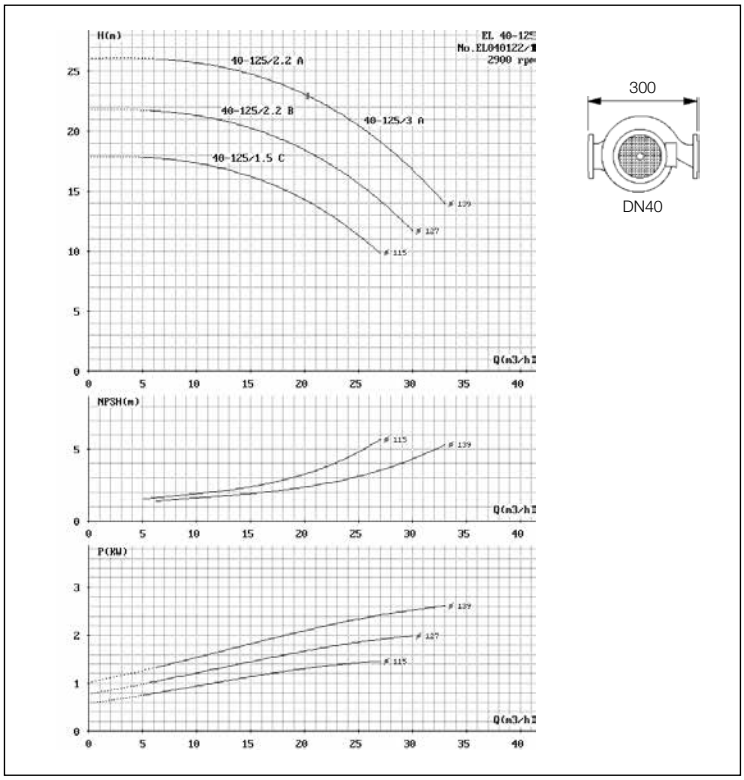
Single/twin pump

IN-LINE NORMALISED ELECTRIC PUMPS

in cast iron

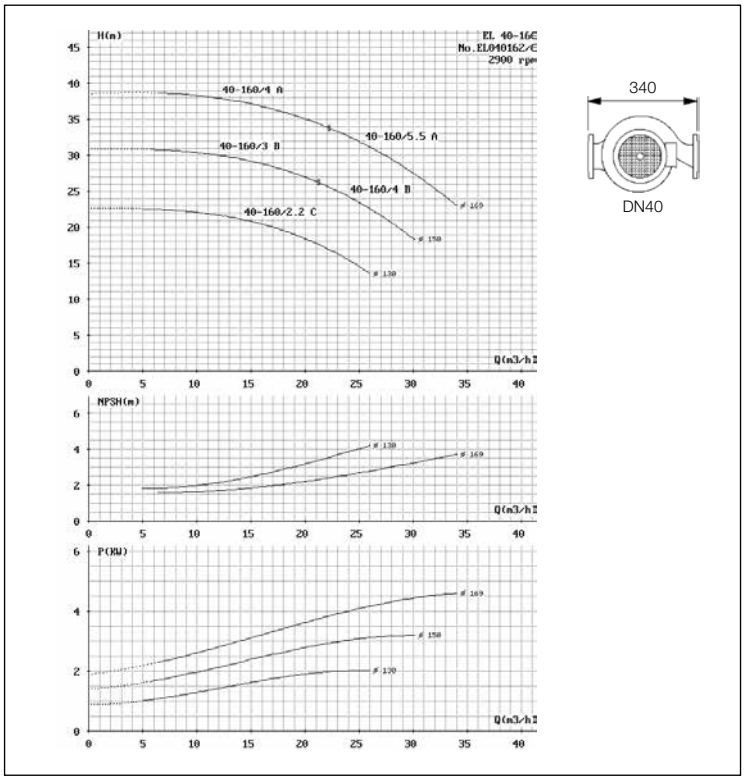
PERFORMANCE CURVES ELINE 40-125 — 2 Poles

(per ISO 9906 Annex A)



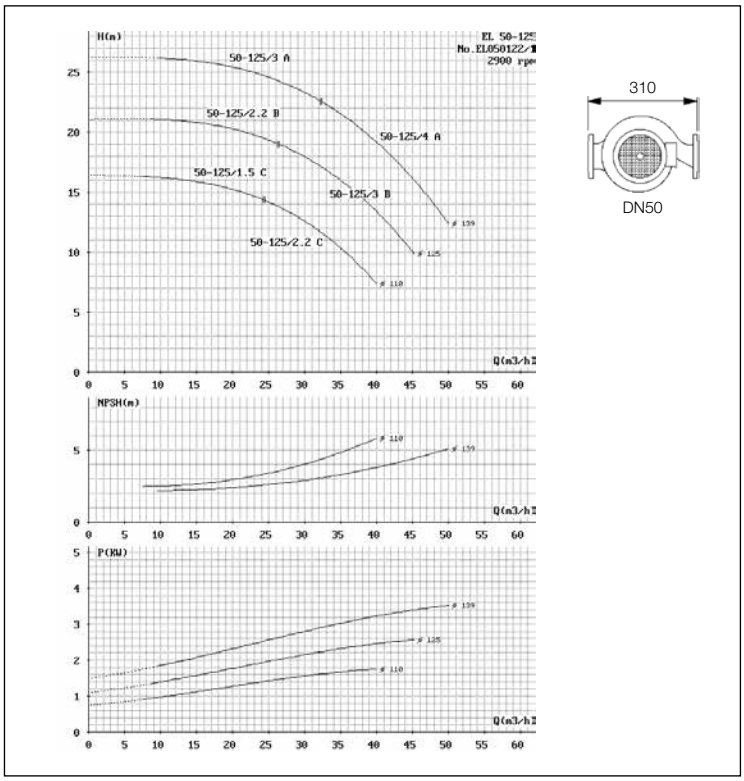
PERFORMANCE CURVES ELINE 40-160 — 2 Poles

(per ISO 9906 Annex A)



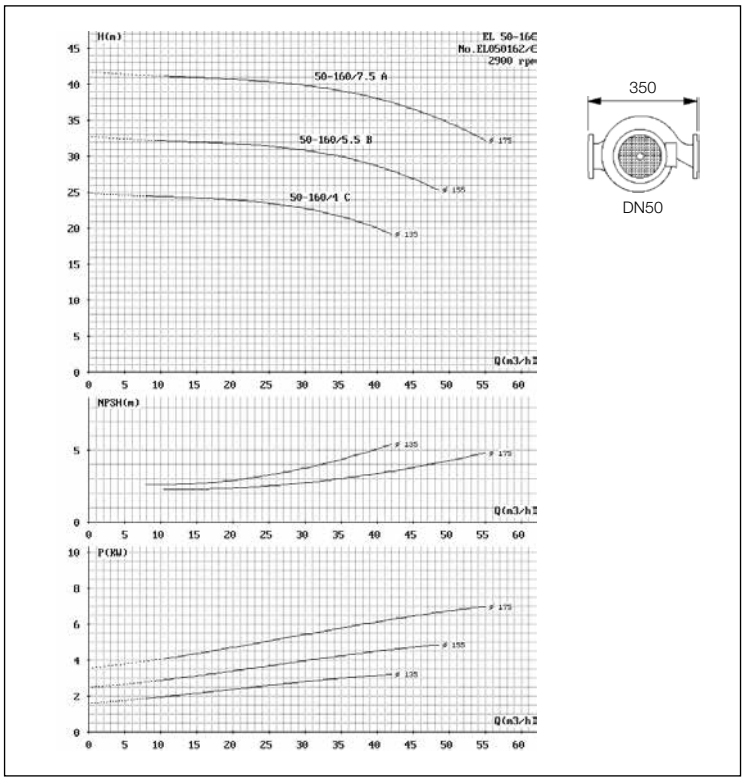
PERFORMANCE CURVES ELINE 50-125 — 2 Poles

(per ISO 9906 Annex A)



PERFORMANCE CURVES ELINE 50-160 — 2 Poles

(per ISO 9906 Annex A)

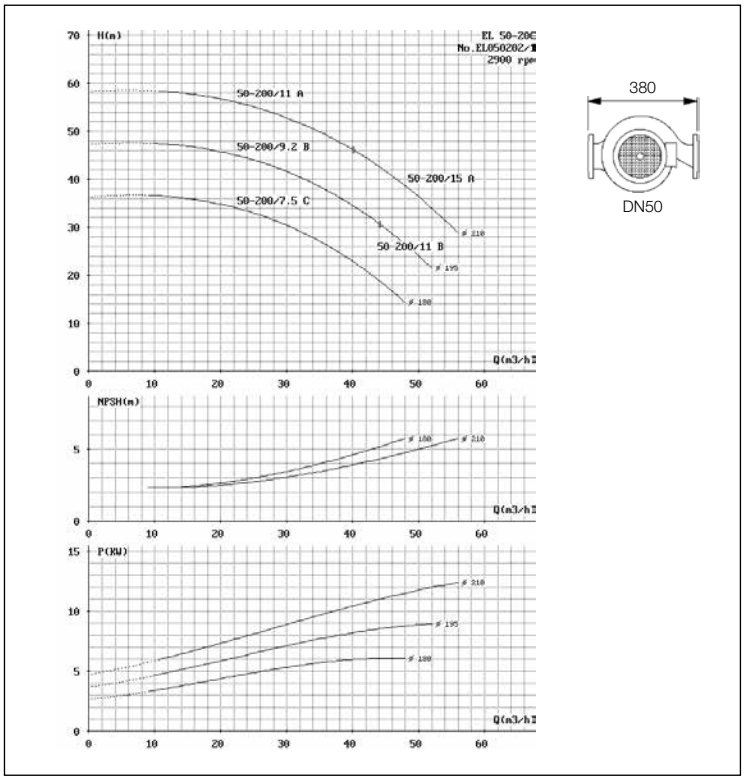


IN-LINE NORMALISED ELECTRIC PUMPS

in cast iron

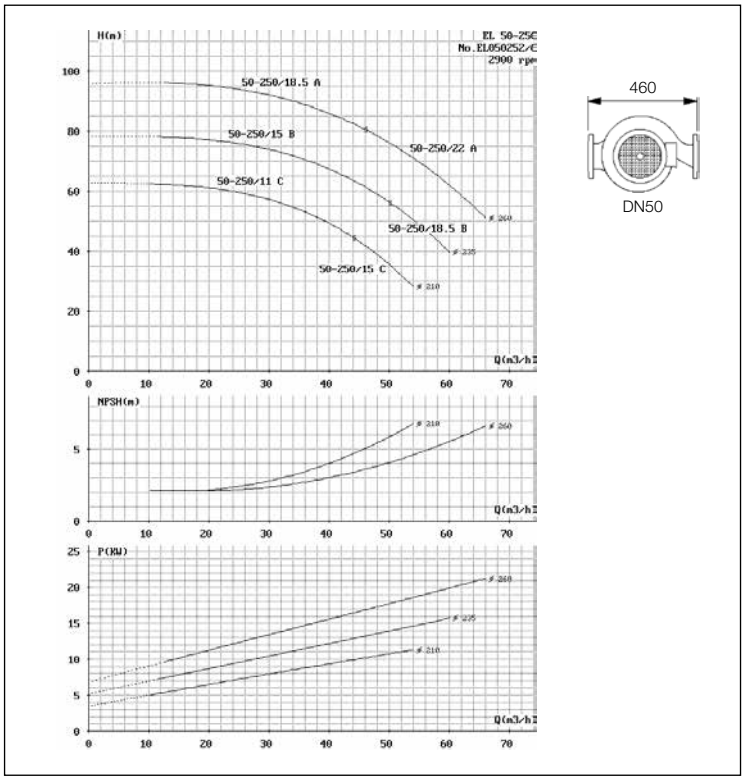
PERFORMANCE CURVES ELINE 50-200 — 2 Poles

(per ISO 9906 Annex A)



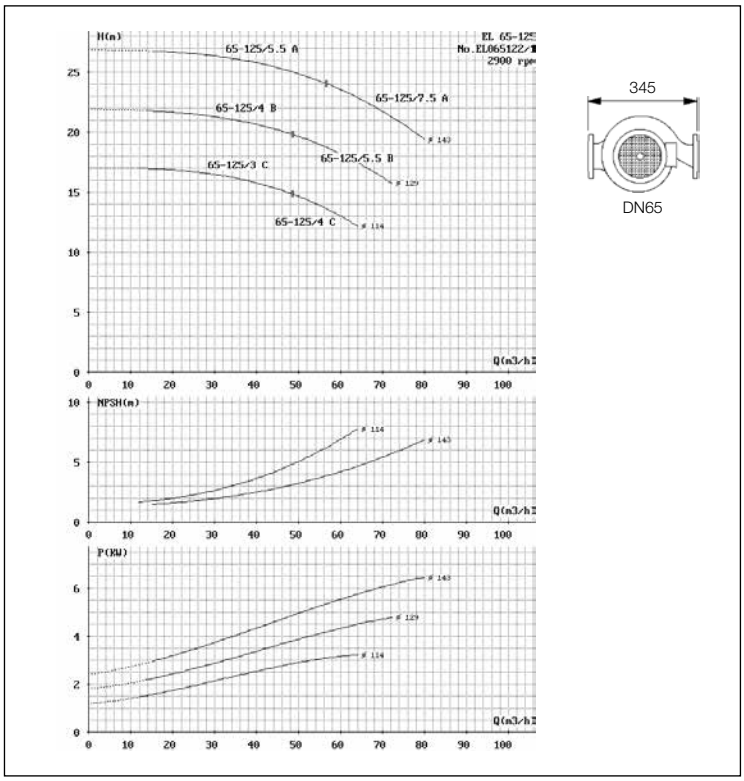
PERFORMANCE CURVES ELINE 50-250 — 2 Poles

(per ISO 9906 Annex A)



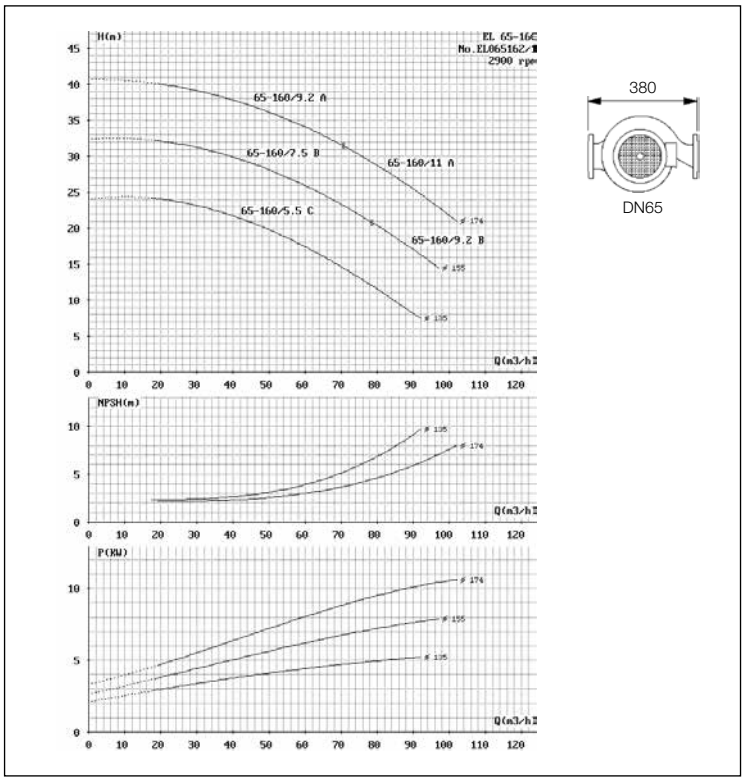
PERFORMANCE CURVES ELINE 65-125 — 2 Poles

(per ISO 9906 Annex A)



PERFORMANCE CURVES ELINE 65-160 — 2 Poles

(per ISO 9906 Annex A)



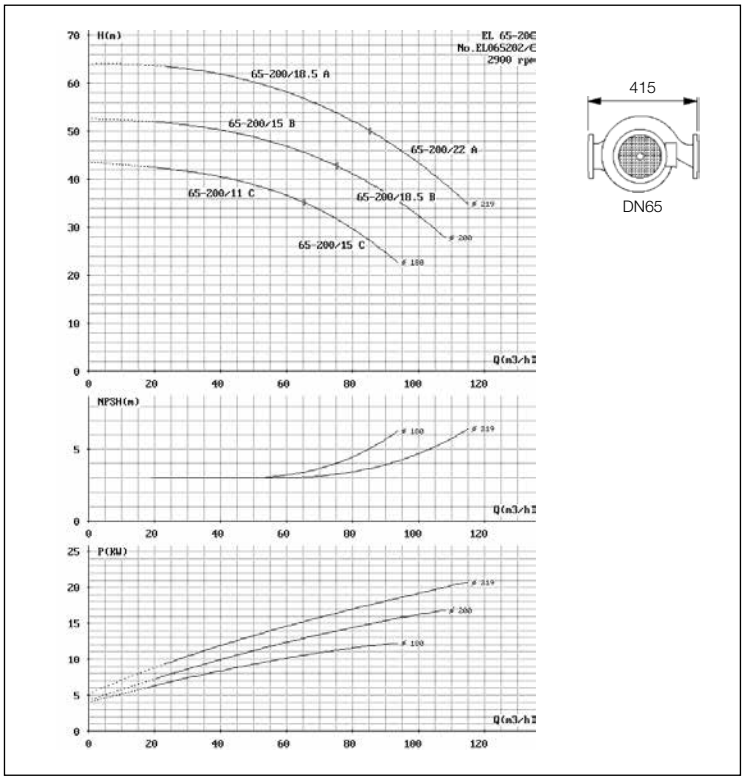
ELINE

IN-LINE NORMALISED ELECTRIC PUMPS

in cast iron

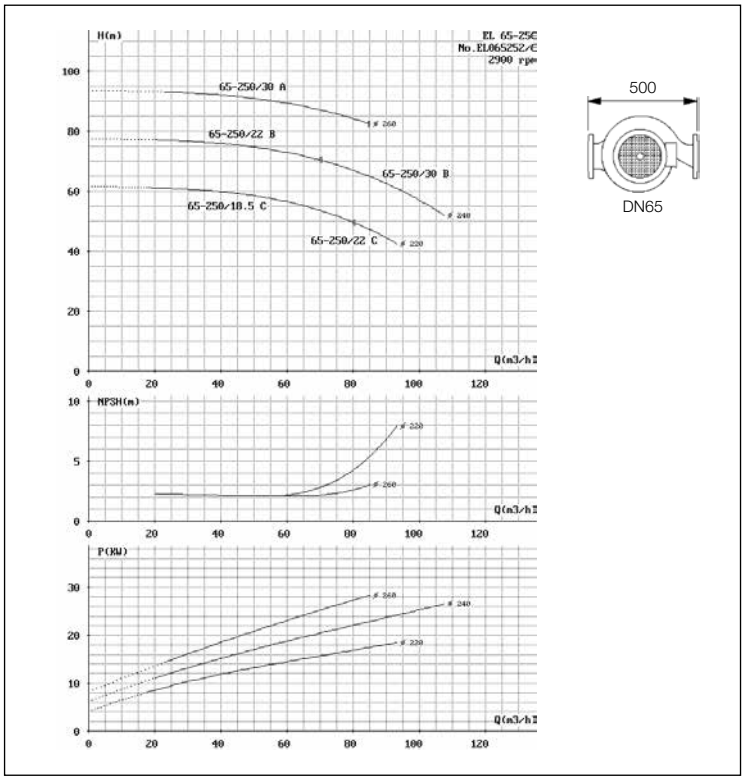
PERFORMANCE CURVES ELINE 65-200 — 2 Poles

(per ISO 9906 Annex A)



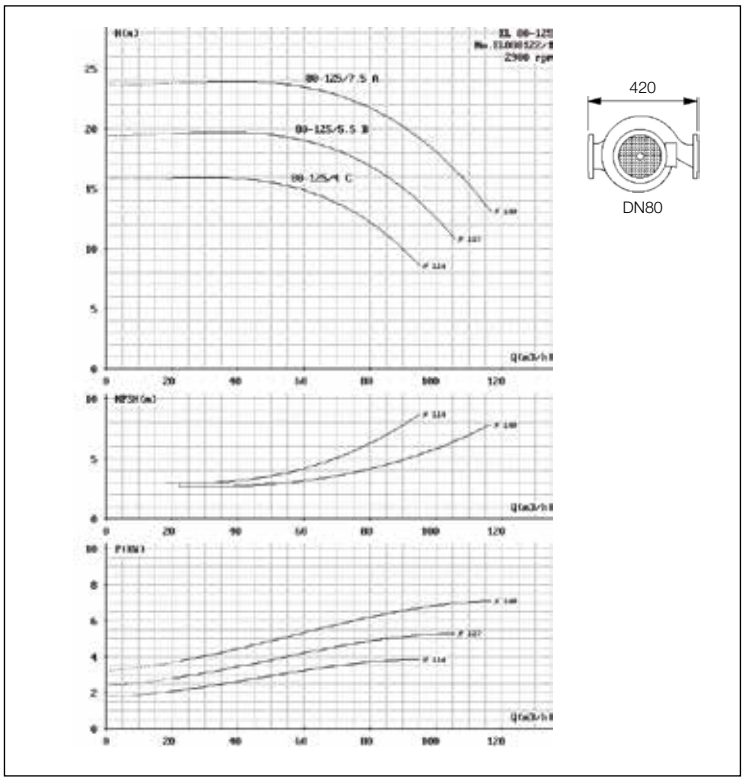
PERFORMANCE CURVES ELINE 65-250 — 2 Poles

(per ISO 9906 Annex A)



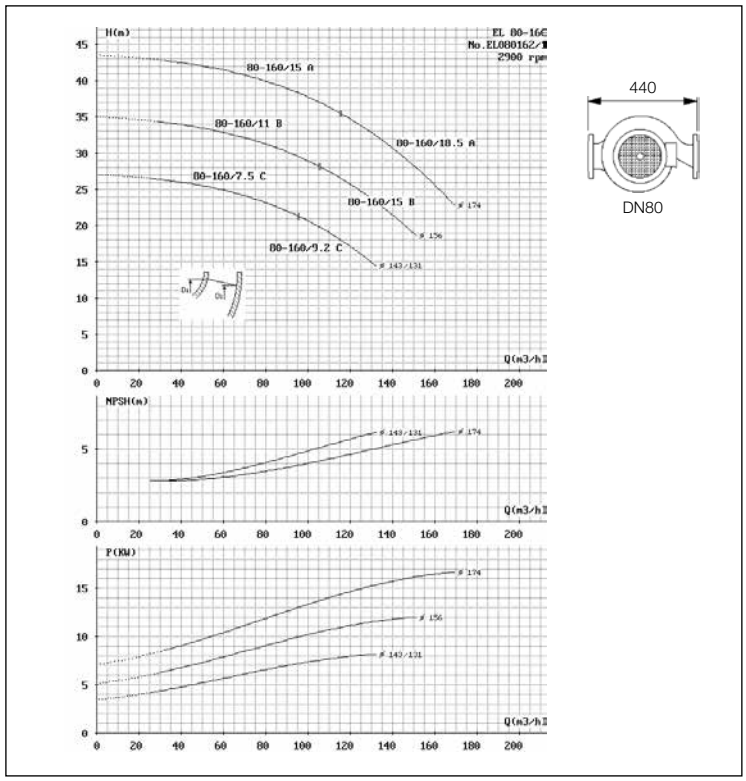
PERFORMANCE CURVES ELINE 80-125 — 2 Poles

(per ISO 9906 Annex A)



PERFORMANCE CURVES ELINE 80-160 — 2 Poles

(per ISO 9906 Annex A)

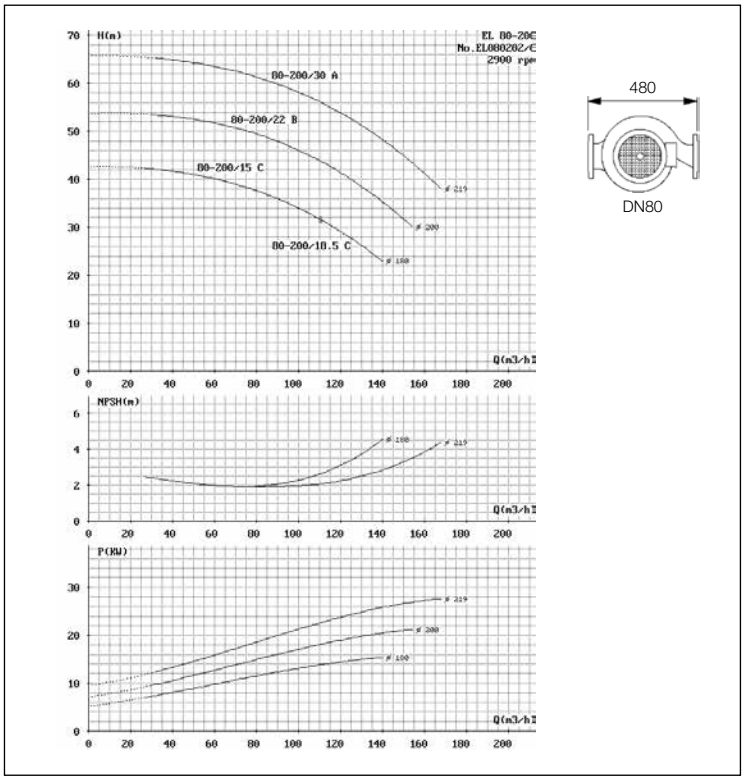


IN-LINE NORMALISED ELECTRIC PUMPS

in cast iron

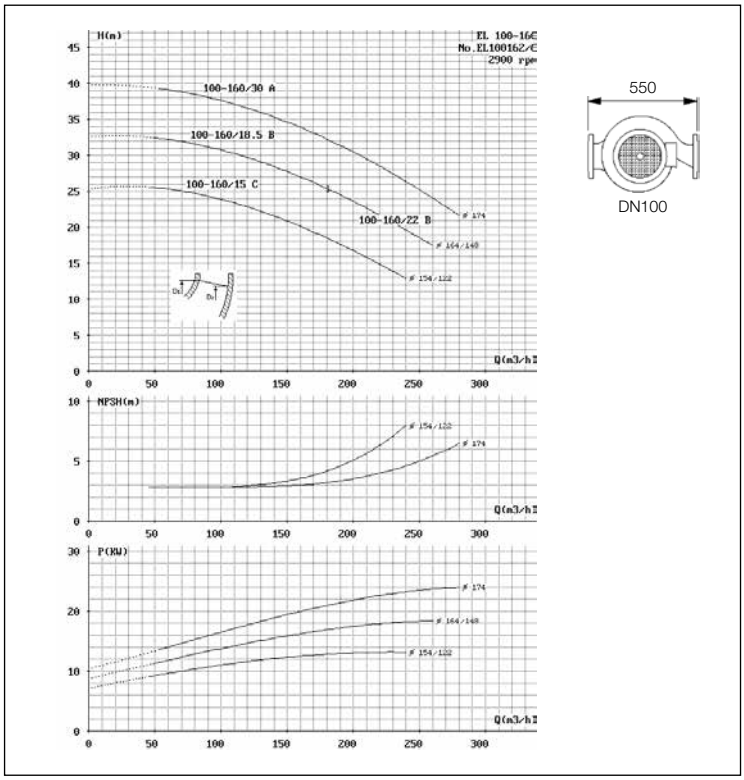
PERFORMANCE CURVES ELINE 80-200 — 2 Poles

(per ISO 9906 Annex A)



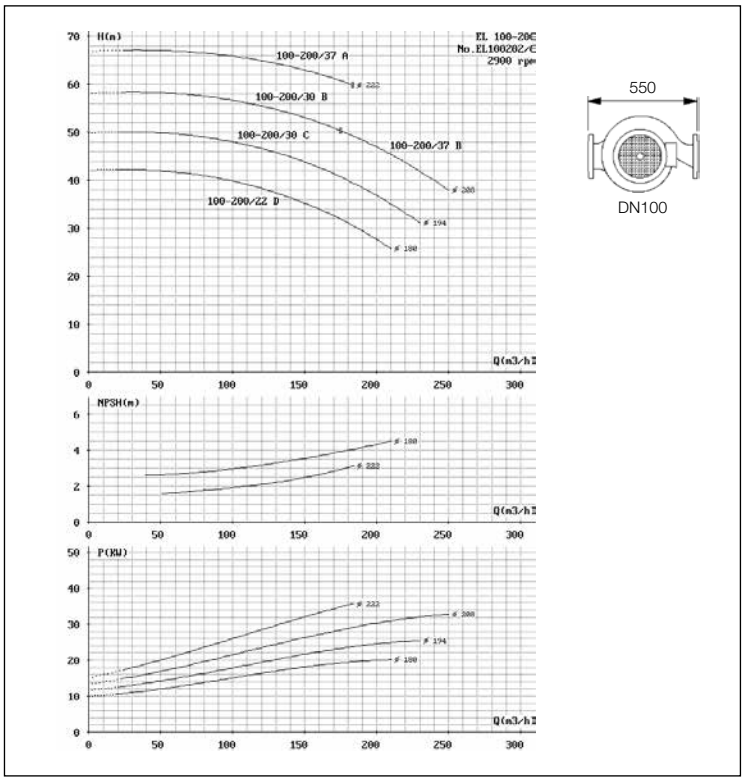
PERFORMANCE CURVES ELINE 100-160 — 2 Poles

(per ISO 9906 Annex A)



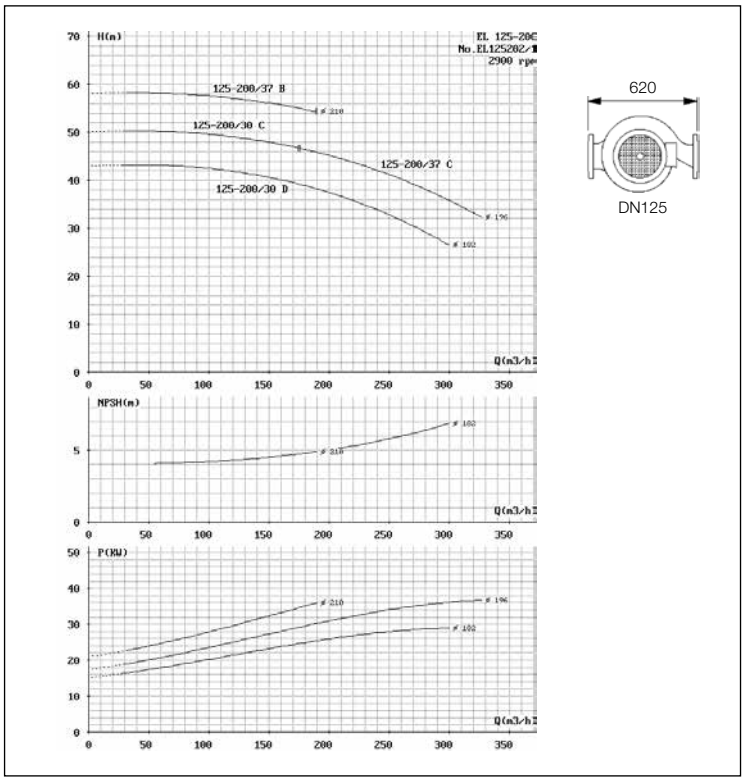
PERFORMANCE CURVES ELINE 100-200 — 2 Poles

(per ISO 9906 Annex A)



PERFORMANCE CURVES ELINE 125-200 — 2 Poles

(per ISO 9906 Annex A)

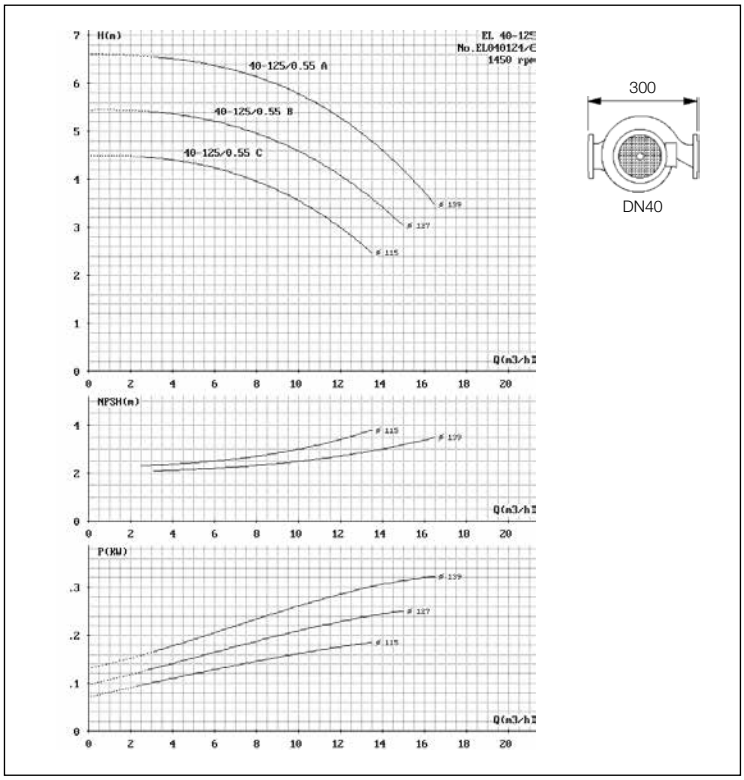


IN-LINE NORMALISED ELECTRIC PUMPS

in cast iron

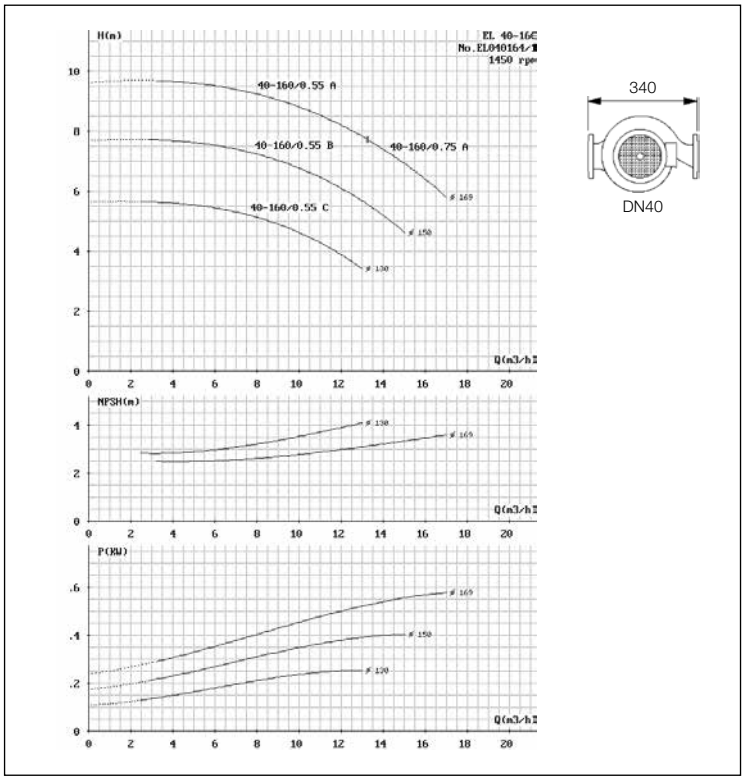
PERFORMANCE CURVES ELINE 4 40-125 — 4 Poles

(per ISO 9906 Annex A)



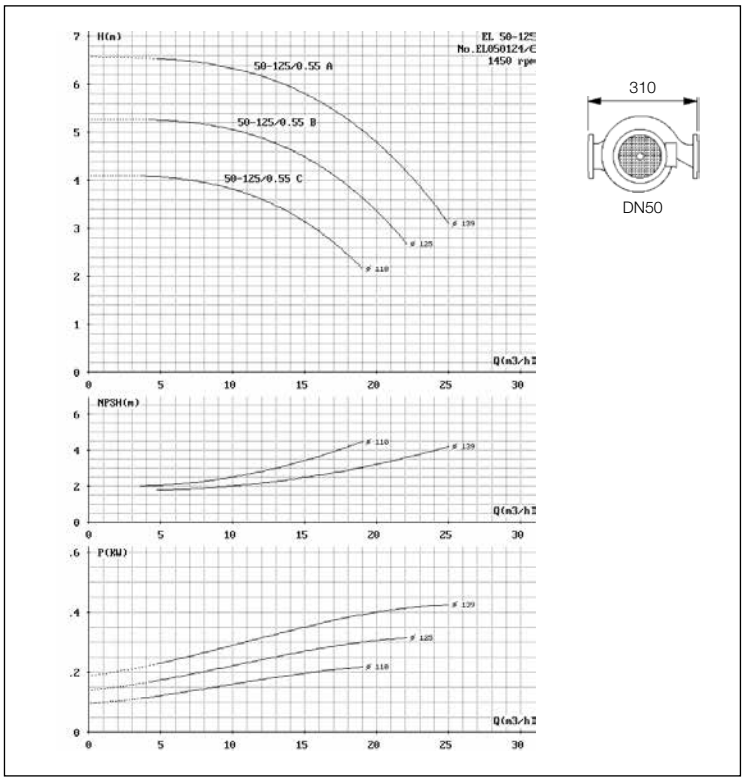
PERFORMANCE CURVES ELINE 4 40-160 — 4 Poles

(per ISO 9906 Annex A)



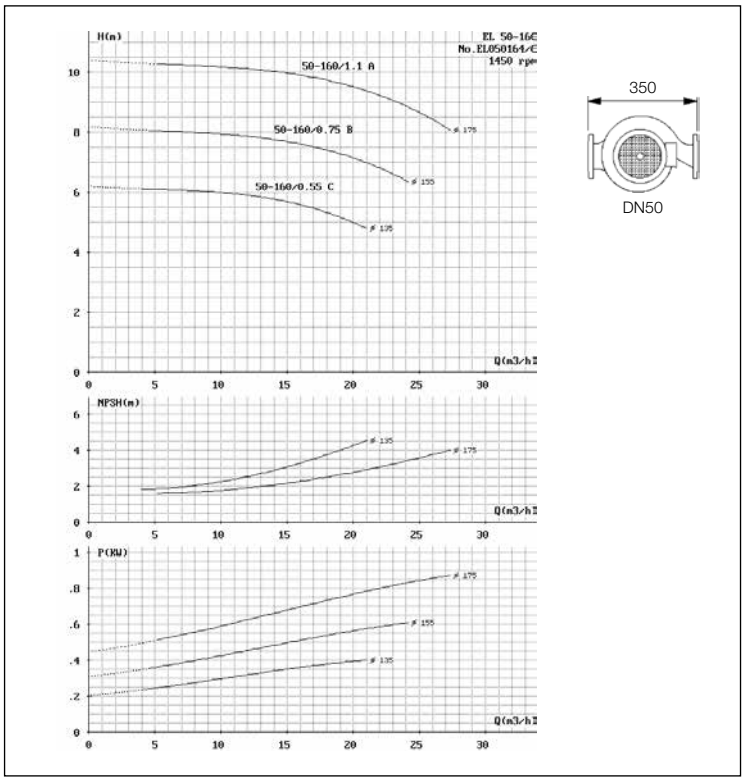
PERFORMANCE CURVES ELINE 4 50-125 — 4 Poles

(per ISO 9906 Annex A)



PERFORMANCE CURVES ELINE 4 50-160 — 4 Poles

(per ISO 9906 Annex A)

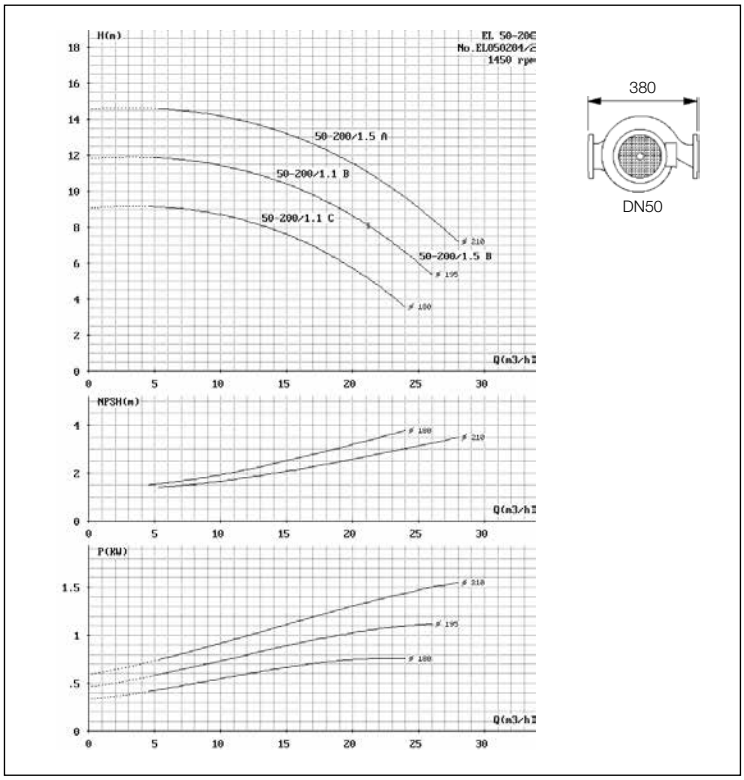


IN-LINE NORMALISED ELECTRIC PUMPS

in cast iron

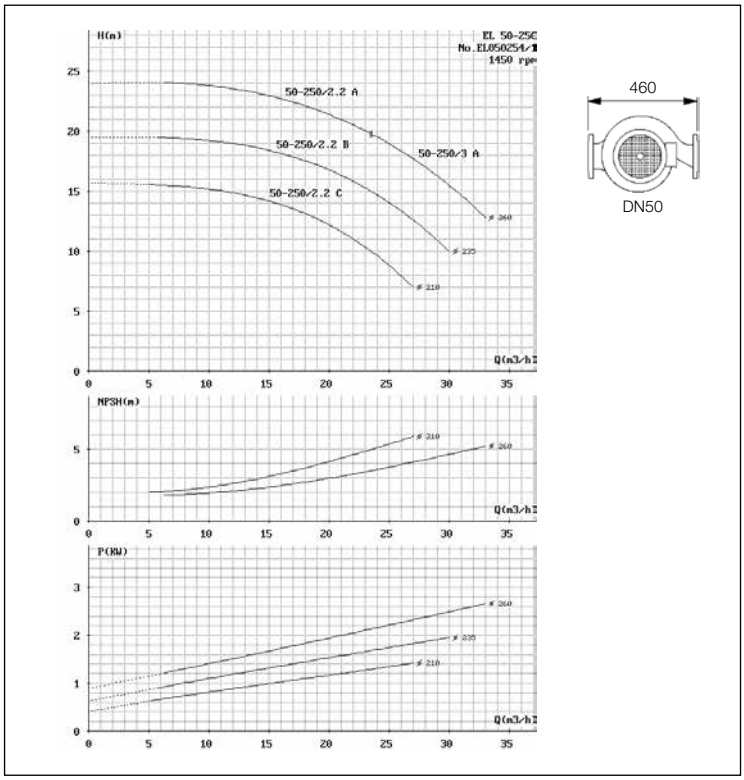
PERFORMANCE CURVES ELINE 4 50-200 — 4 Poles

(per ISO 9906 Annex A)



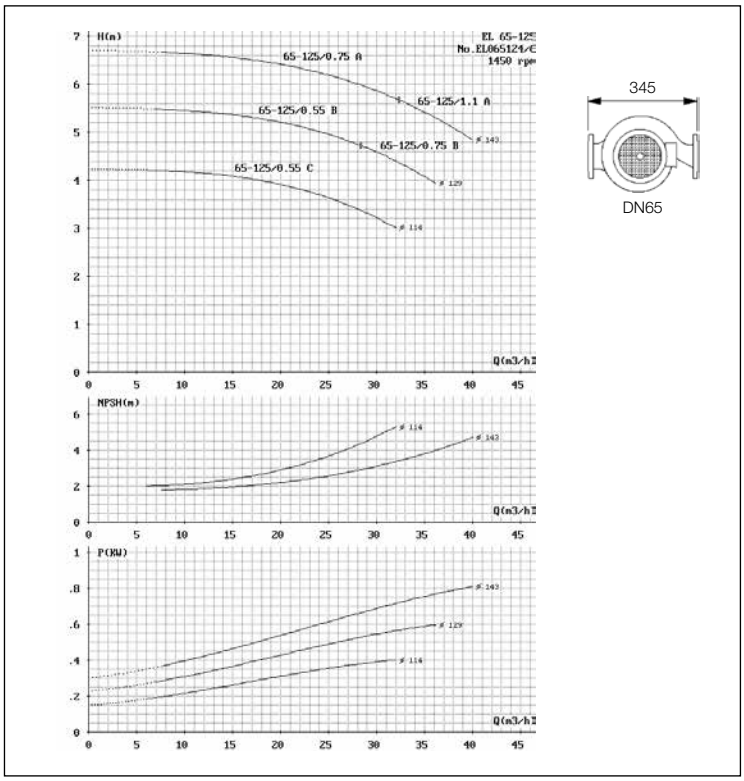
PERFORMANCE CURVES ELINE 4 50-250 — 4 Poles

(per ISO 9906 Annex A)



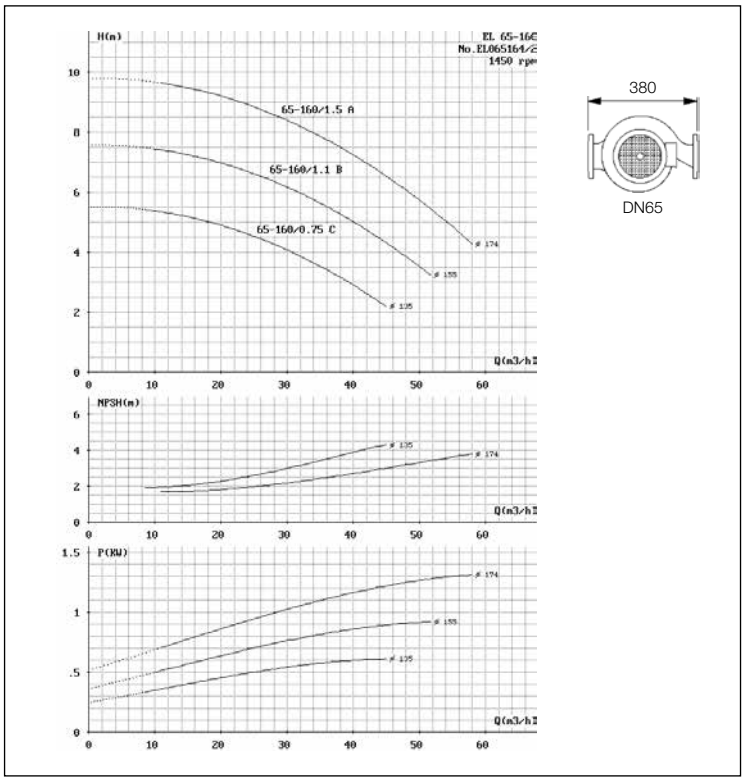
PERFORMANCE CURVES ELINE 4 65-125 — 4 Poles

(per ISO 9906 Annex A)



PERFORMANCE CURVES ELINE 4 65-160 — 4 Poles

(per ISO 9906 Annex A)

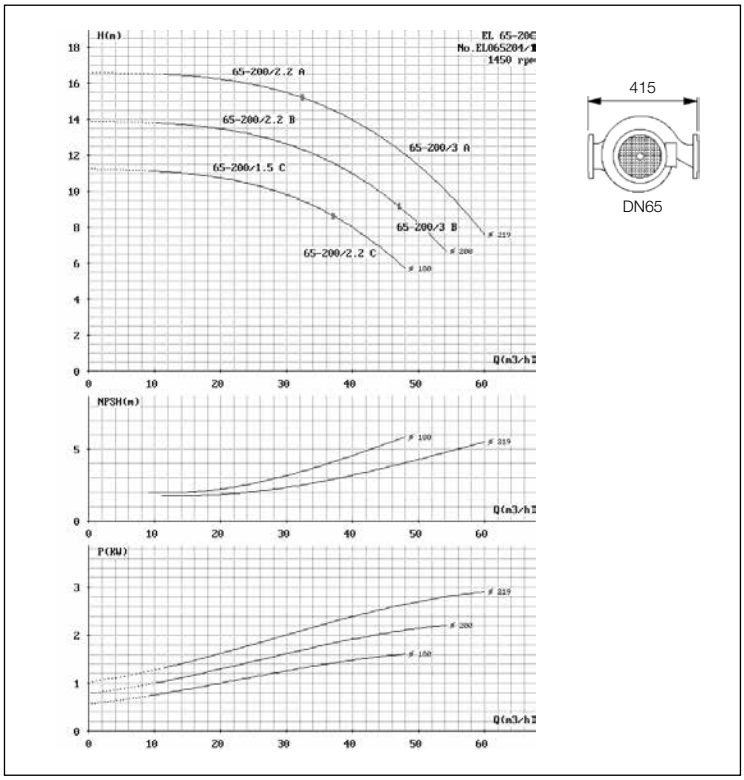


IN-LINE NORMALISED ELECTRIC PUMPS

in cast iron

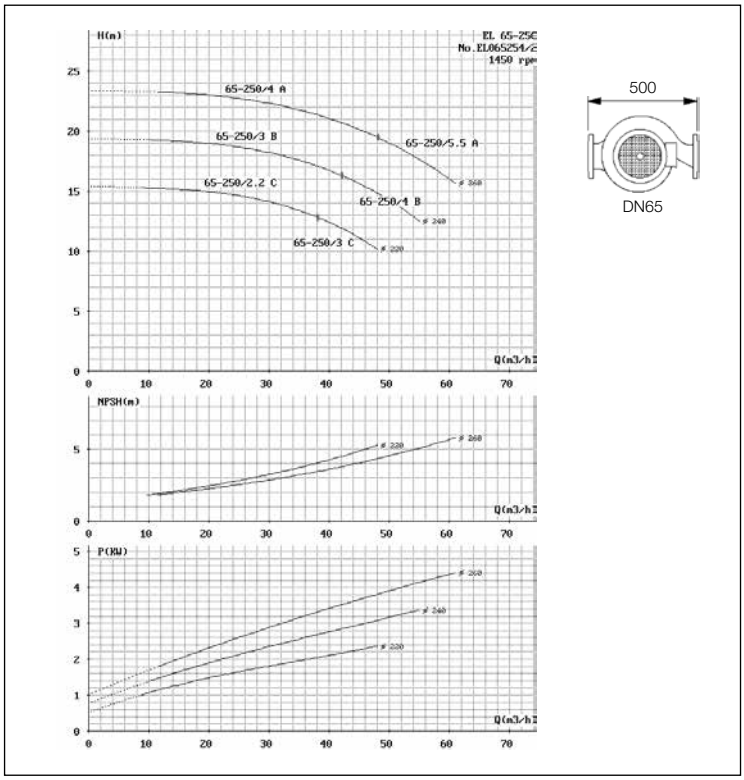
PERFORMANCE CURVES ELINE 4 65-200 — 4 Poles

(per ISO 9906 Annex A)



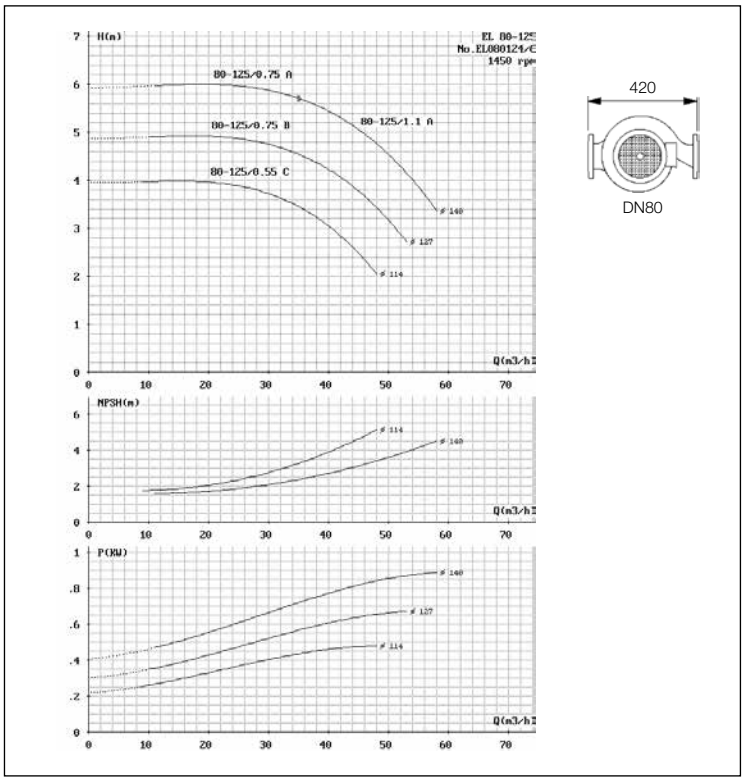
PERFORMANCE CURVES ELINE 4 65-250 — 4 Poles

(per ISO 9906 Annex A)



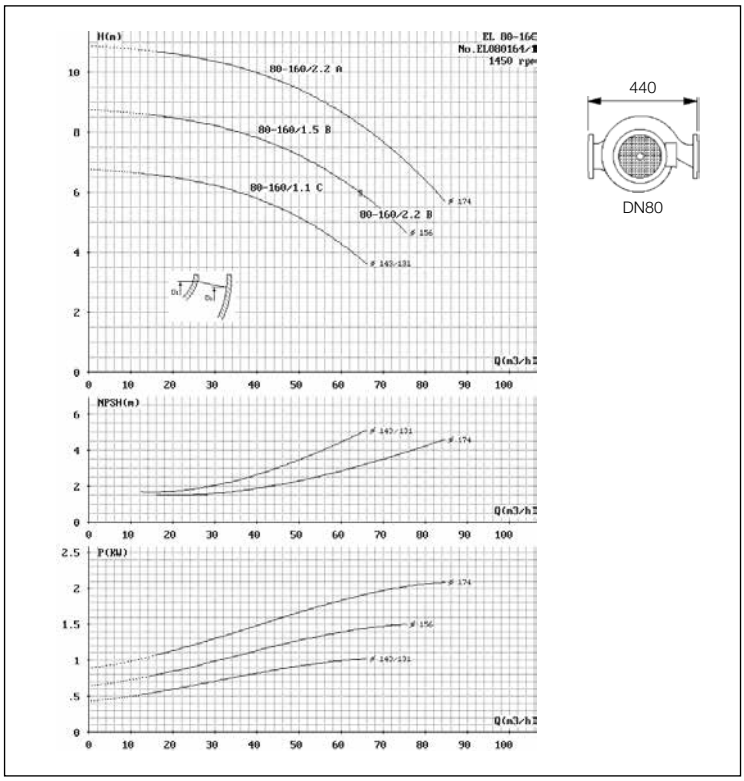
PERFORMANCE CURVES ELINE 4 80-125 — 4 Poles

(per ISO 9906 Annex A)



PERFORMANCE CURVES ELINE 4 80-160 — 4 Poles

(per ISO 9906 Annex A)

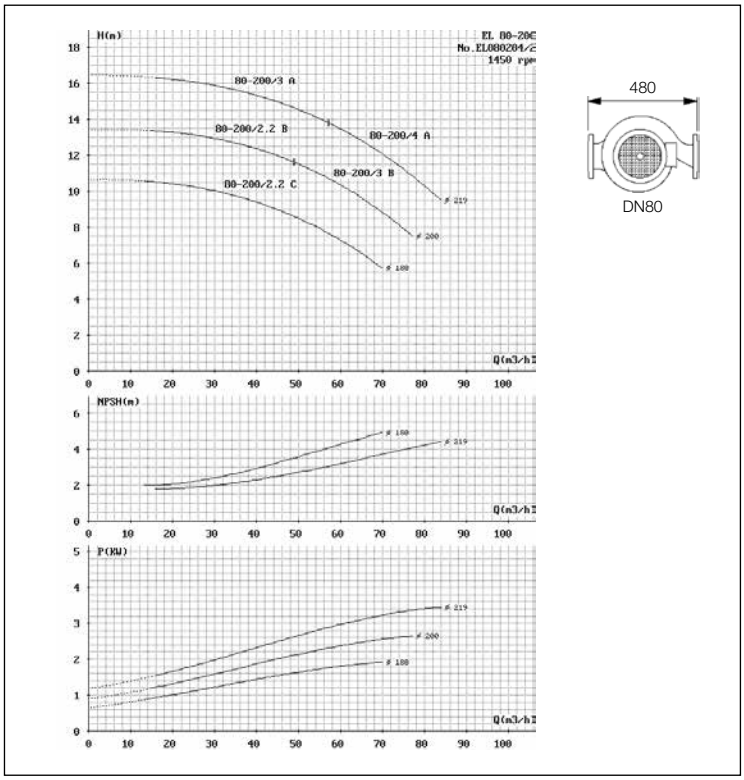


IN-LINE NORMALISED ELECTRIC PUMPS

in cast iron

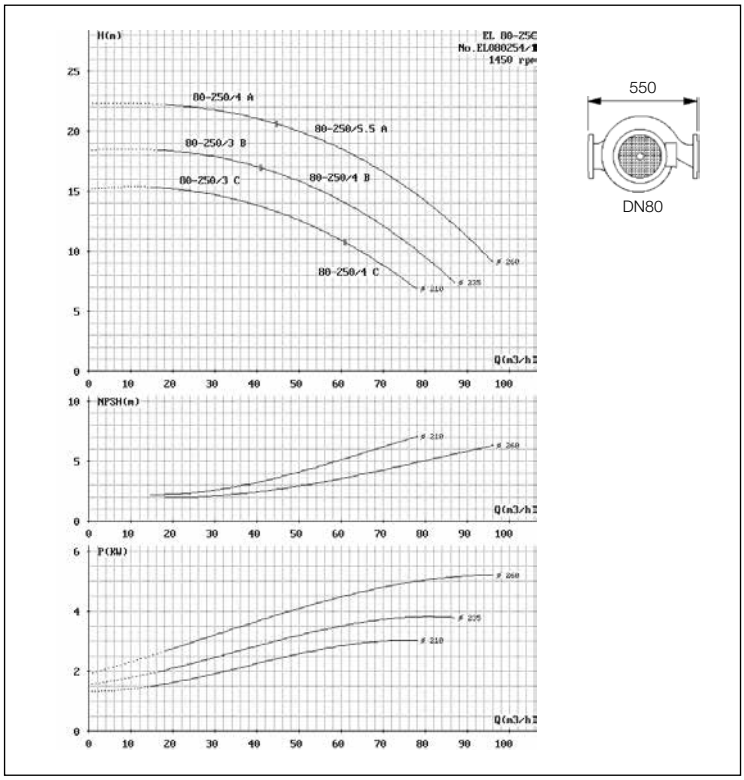
PERFORMANCE CURVES ELINE 4 80-200 — 4 Poles

(per ISO 9906 Annex A)



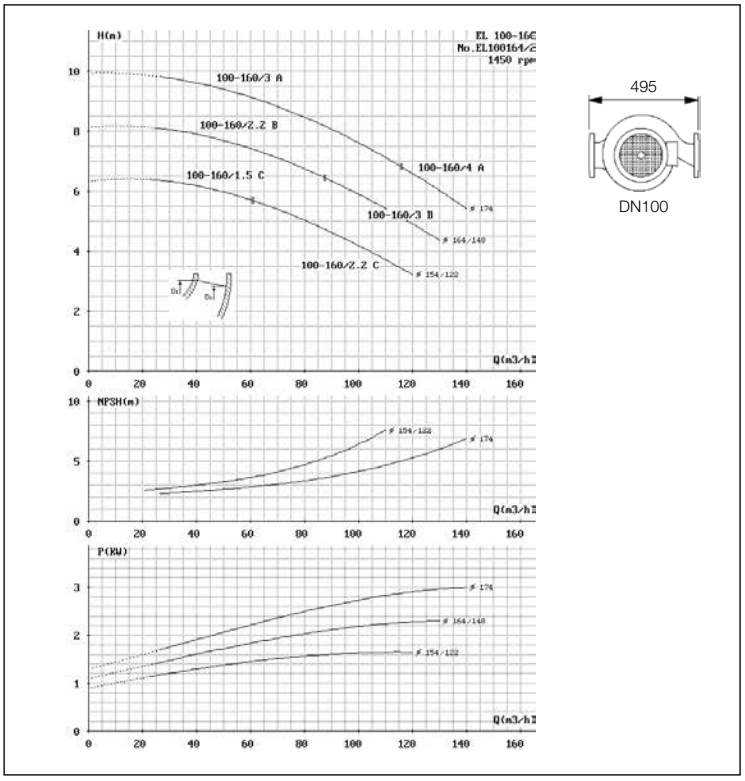
PERFORMANCE CURVES ELINE 4 80-250 — 4 Poles

(per ISO 9906 Annex A)



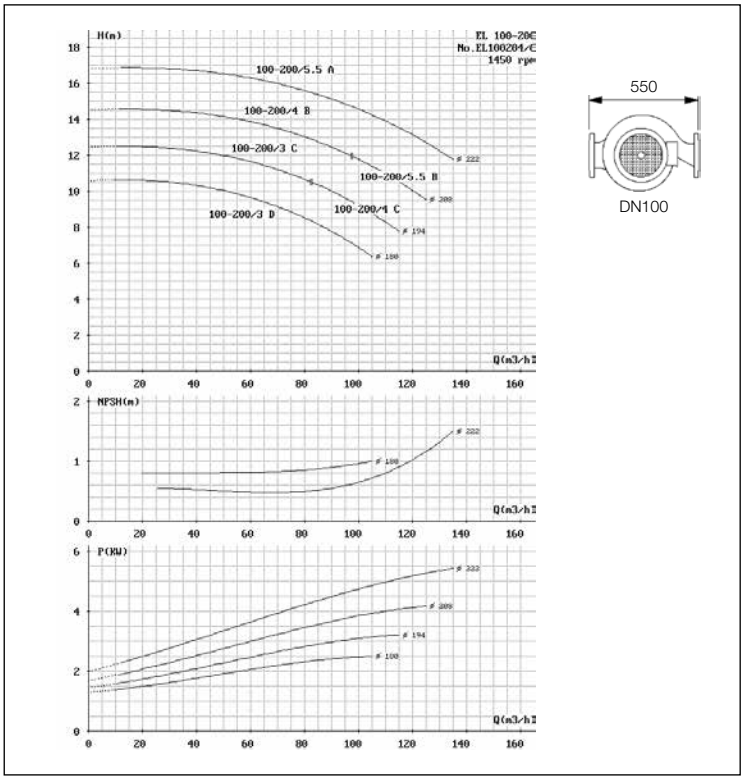
PERFORMANCE CURVES ELINE 4 100-160 — 4 Poles

(per ISO 9906 Annex A)



PERFORMANCE CURVES ELINE 4 100-200 — 4 Poles

(per ISO 9906 Annex A)



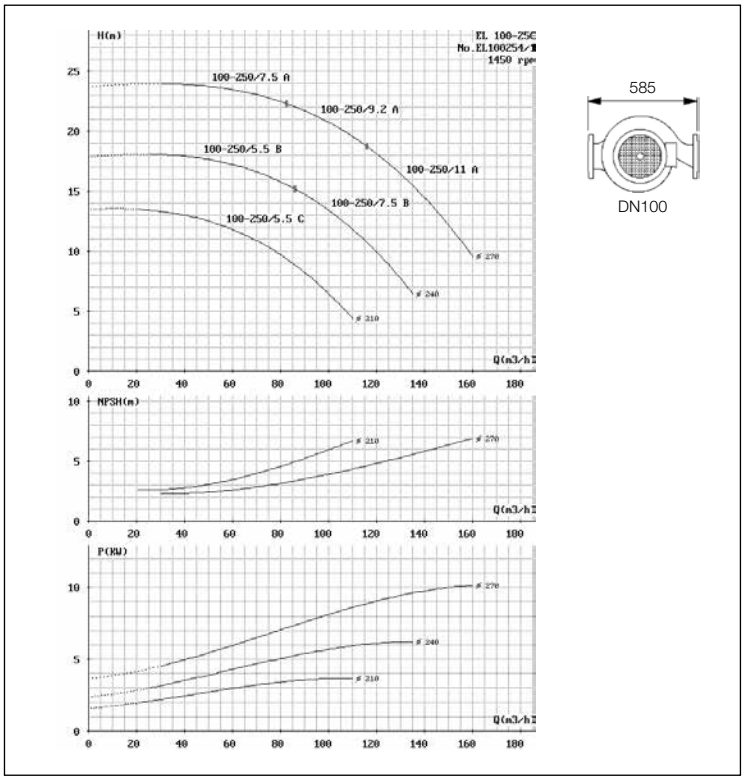
ELINE

IN-LINE NORMALISED ELECTRIC PUMPS

in cast iron

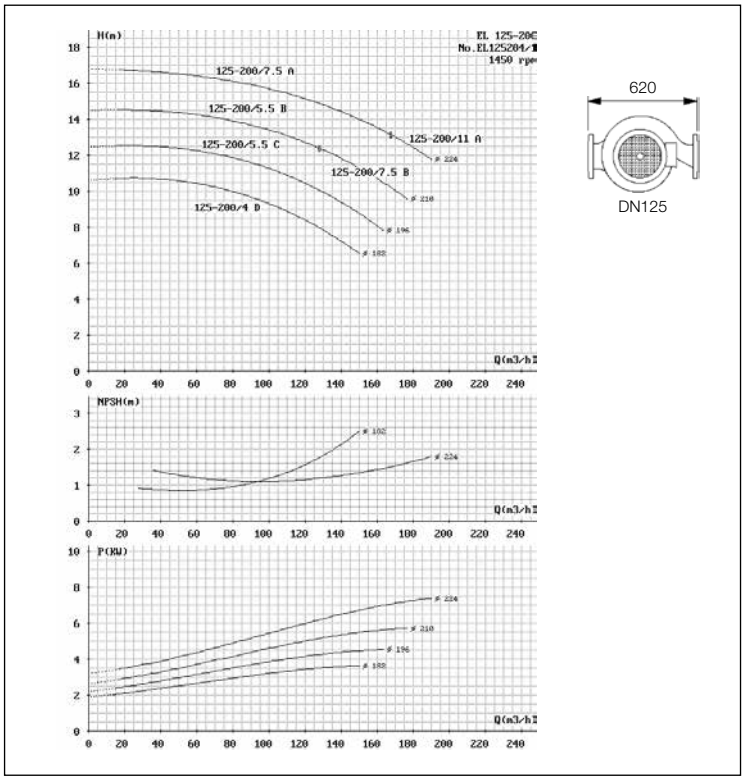
PERFORMANCE CURVES ELINE 4 100-250 — 4 Poles

(per ISO 9906 Annex A)



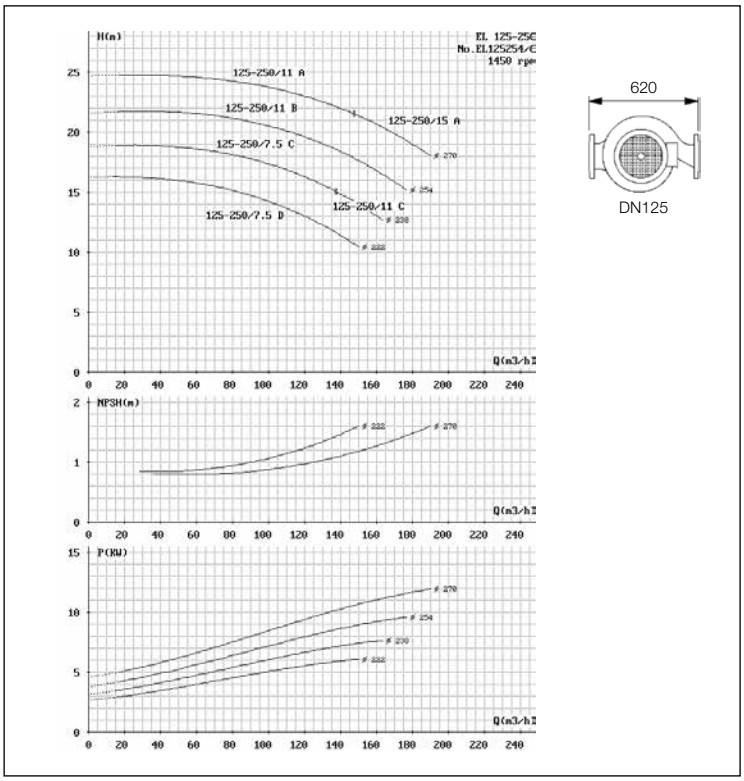
PERFORMANCE CURVES ELINE 4 125-200 — 4 Poles

(per ISO 9906 Annex A)



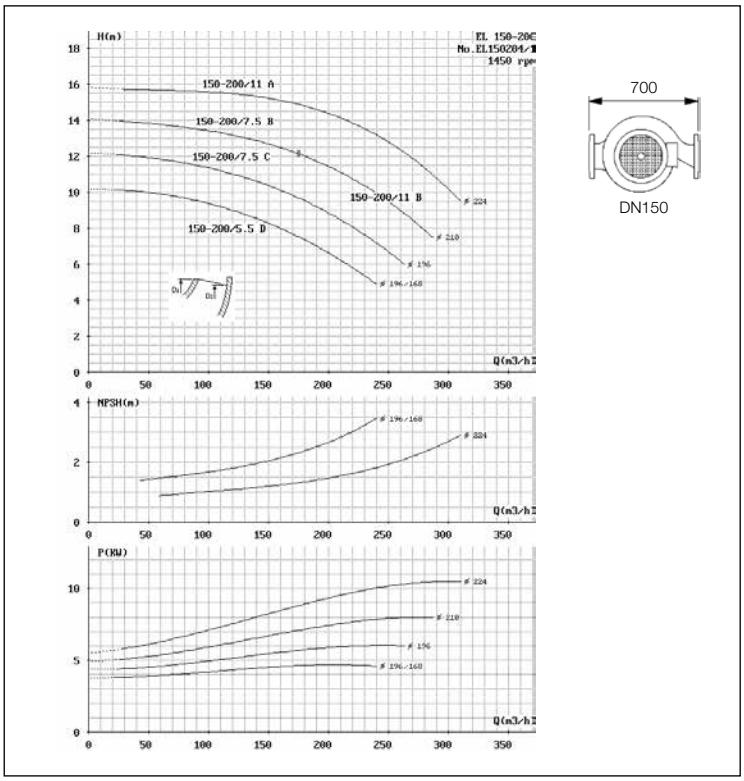
PERFORMANCE CURVES ELINE 4 125-250 — 4 Poles

(per ISO 9906 Annex A)



PERFORMANCE CURVES ELINE 4 150-200 — 4 Poles

(per ISO 9906 Annex A)

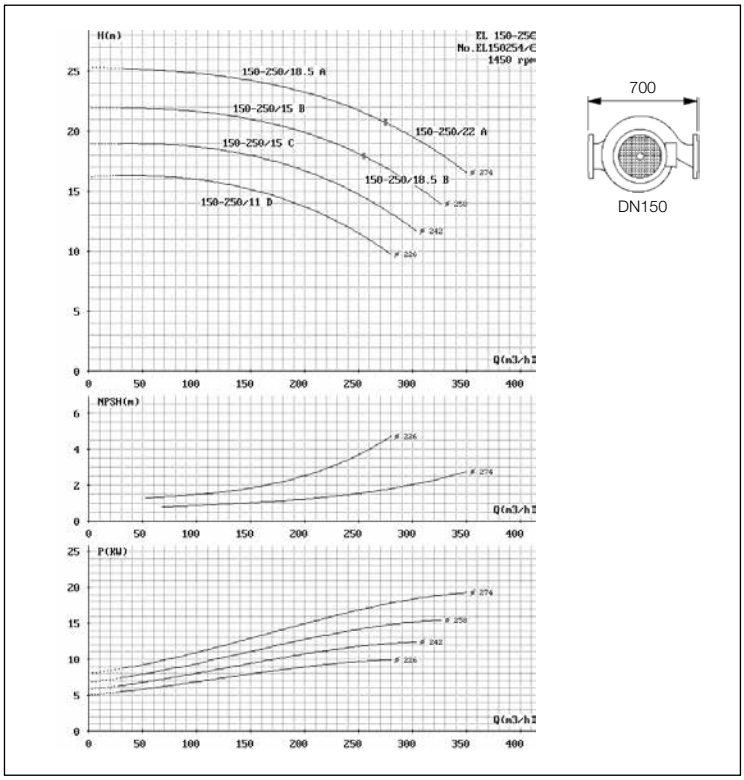


IN-LINE NORMALISED ELECTRIC PUMPS

in cast iron

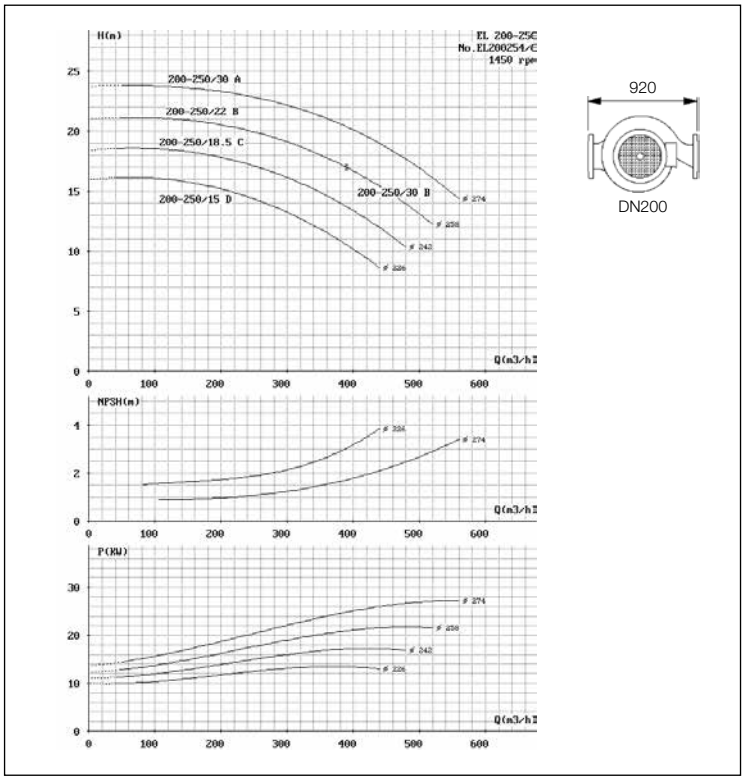
PERFORMANCE CURVES ELINE 4 150-250 — 4 Poles

(per ISO 9906 Annex A)



PERFORMANCE CURVES ELINE 4 200-250 — 4 Poles

(per ISO 9906 Annex A)



IN-LINE NORMALISED ELECTRIC PUMPS

in cast iron

DIMENSIONS

2 Poles

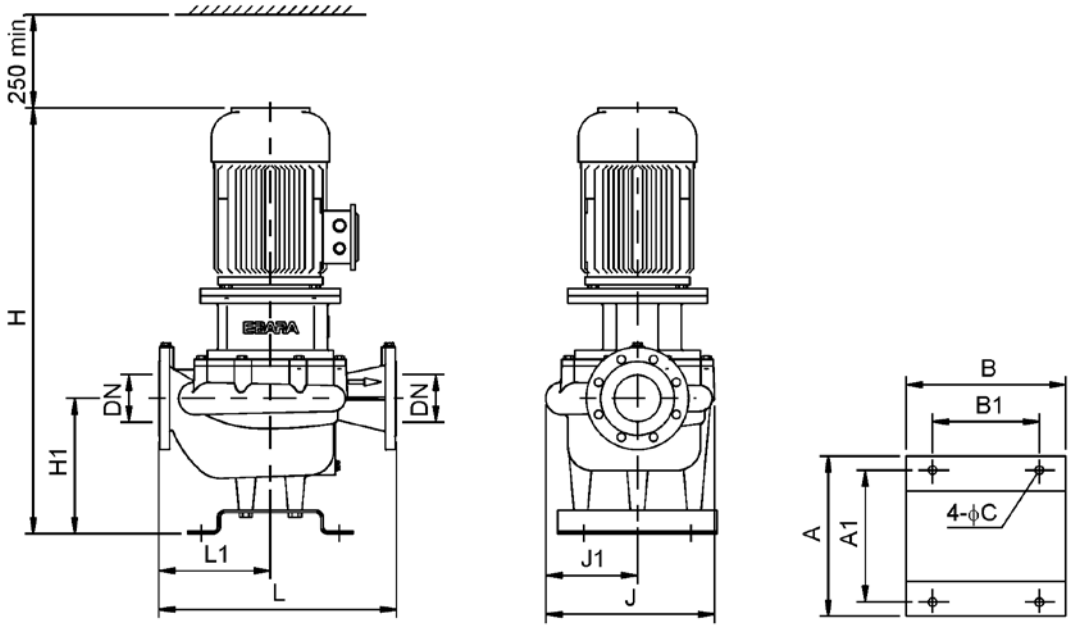


TABLE OF DIMENSIONS

2 Poles

Model	Dimensions [mm]												Weight
	DN	H1	H	L1	L	J1	J	A1	A	B1	B	C	[kg]
EL 40-125/1.5	40	135	565	160	300	110	220	250	300	200	300	15	42
EL 40-125/2.2	40	135	565	160	300	110	220	250	300	200	300	15	45
EL 40-125/3	40	135	635	160	300	125	250	250	300	200	300	15	46
EL 40-160/2.2	40	140	570	180	340	120	230	250	300	200	300	15	45
EL 40-160/3	40	140	640	180	340	125	250	250	300	200	300	15	56
EL 40-160/4	40	140	640	180	340	125	250	250	300	200	300	15	60
EL 40-160/5.5	40	140	725	180	340	150	300	250	300	200	300	15	73
EL 50-125/1.5	50	140	570	170	310	110	220	250	300	200	300	15	42
EL 50-125/2.2	50	140	570	170	310	110	220	250	300	200	300	15	42
EL 50-125/3	50	140	640	170	310	125	250	250	300	200	300	15	56
EL 50-125/4	50	140	640	170	310	125	250	250	300	200	300	15	60
EL 50-160/4	50	145	645	190	350	135	260	250	300	200	300	15	62
EL 50-160/5.5	50	145	730	190	350	150	300	250	300	200	300	15	79
EL 50-160/7.5	50	145	730	190	350	150	300	250	300	200	300	15	84
EL 50-200/7.5	50	145	730	200	380	150	285	250	300	200	300	15	88
EL 50-200/9.2	50	145	730	200	380	150	285	250	300	200	300	15	96
EL 50-200/11	50	145	910	200	380	175	350	440	500	300	500	18	113
EL 50-200/15	50	145	910	200	380	175	350	440	500	300	500	18	122
EL 50-250/11	50	155	920	230	460	175	350	440	500	300	500	18	107
EL 50-250/15	50	155	920	230	460	175	350	440	500	300	500	18	115
EL 50-250/18.5	50	155	920	230	460	175	350	440	500	300	500	18	123
EL 50-250/22	50	155	920	230	460	175	350	440	500	300	500	18	142
EL 65-125/3	65	150	650	185	345	130	255	250	300	200	300	15	56
EL 65-125/4	65	150	650	185	345	130	255	250	300	200	300	15	61
EL 65-125/5.5	65	150	735	185	345	150	300	250	300	200	300	15	78
EL 65-125/7.5	65	150	735	185	345	150	300	250	300	200	300	15	83
EL 65-160/5.5	65	155	740	200	380	150	300	250	300	200	300	15	82
EL 65-160/7.5	65	155	740	200	380	150	300	250	300	200	300	15	87
EL 65-160/9.2	65	155	740	200	380	150	300	250	300	200	300	15	94
EL 65-160/11	65	155	740	200	380	150	300	250	300	200	300	15	106
EL 65-200/15	65	160	925	215	415	175	350	440	500	300	500	18	111
EL 65-200/18.5	65	160	925	215	415	175	350	440	500	300	500	18	119
EL 65-200/22	65	160	925	215	415	175	350	440	500	300	500	18	138
EL 65-250/18.5	65	165	930	255	500	185	360	440	500	300	500	18	128
EL 65-250/22	65	165	930	255	500	185	360	440	500	300	500	18	147
EL 65-250/30	65	165	930	255	500	185	360	440	500	300	500	18	174

IN-LINE NORMALISED ELECTRIC PUMPS

in cast iron

TABLE OF DIMENSIONS

2 Poles

Model	Dimensions [mm]												Weight [kg]
	DN	H1	H	L1	L	J1	J	A1	A	B1	B	C	
EL 80-125/4	80	155	655	240	420	150	275	250	300	200	300	15	69
EL 80-125/5.5	80	155	740	240	420	150	300	250	300	200	300	15	86
EL 80-125/7.5	80	155	740	240	420	150	300	250	300	200	300	15	91
EL 80-160/7.5	80	170	755	240	440	155	305	250	300	200	300	15	95
EL 80-160/9.2	80	170	755	240	440	155	305	250	300	200	300	15	102
EL 80-160/11	80	170	935	240	440	175	350	440	500	300	500	18	118
EL 80-160/15	80	170	935	240	440	175	350	440	500	300	500	18	126
EL 80-160/18.5	80	170	935	240	440	175	350	440	500	300	500	18	138
EL 80-200/15	80	170	935	255	480	175	350	440	500	300	500	18	131
EL 80-200/18.5	80	170	935	255	480	175	350	440	500	300	500	18	143
EL 80-200/22	80	170	935	255	480	175	350	440	500	300	500	18	162
EL 80-200/30	80	170	1010	255	480	200	400	440	500	300	500	18	191
EL 100-160/15	100	195	960	270	495	175	350	440	500	300	500	18	134
EL 100-160/18.5	100	195	960	270	495	175	350	440	500	300	500	18	146
EL 100-160/22	100	195	960	270	495	175	350	440	500	300	500	18	165
EL 100-160/30	100	195	1035	270	495	200	400	440	500	300	500	18	194
EL 100-200/22	100	290	1020	275	550	190	365	440	500	300	500	18	191
EL 100-200/30	100	290	1095	275	550	200	400	440	500	300	500	18	220
EL 100-200/37	100	290	1095	275	550	200	400	440	500	300	500	18	238
EL 125-200/30	125	290	1095	340	620	205	405	440	500	300	500	18	244
EL 125-200/37	125	290	1095	340	620	205	405	440	500	300	500	18	262

IN-LINE NORMALISED ELECTRIC PUMPS

in cast iron

DIMENSIONS

4 Poles

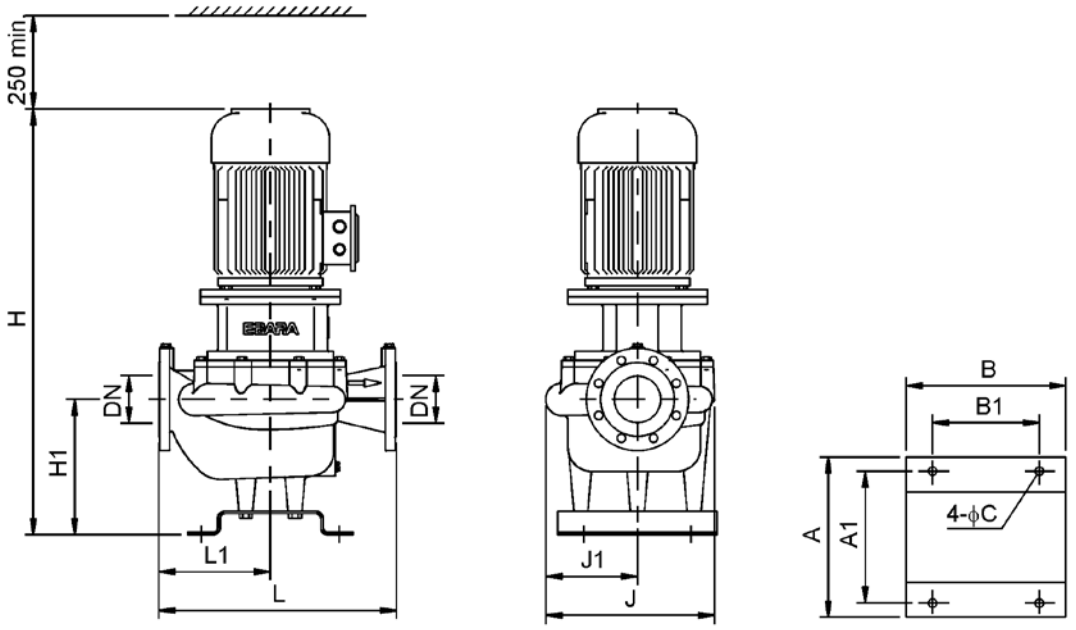


TABLE OF DIMENSIONS

4 Poles

Model	Dimensions [mm]												Weight
	DN	H1	H	L1	L	J1	J	A1	A	B1	B	C	[kg]
EL4 40-125/0.55	40	135	525	160	300	110	220	250	300	200	300	15	38
EL4 40-160/0.55	40	140	530	180	340	120	230	250	300	200	300	15	38
EL4 40-160/0.75	40	140	530	180	340	120	230	250	300	200	300	15	40
EL4 50-125/0.55	50	140	530	170	310	110	220	250	300	200	300	15	38
EL4 50-160/0.55	50	145	535	190	350	135	255	250	300	200	300	15	43
EL4 50-160/0.75	50	145	535	190	350	135	255	250	300	200	300	15	45
EL4 50-160/1.1	50	145	575	190	350	135	255	250	300	200	300	15	48
EL4 50-200/1.1	50	145	575	200	380	150	285	250	300	200	300	15	55
EL4 50-200/1.5	50	145	575	200	380	150	285	250	300	200	300	15	57
EL4 50-250/2.2	50	155	655	230	460	170	340	250	300	200	300	15	73
EL4 50-250/3	50	155	655	230	460	170	340	250	300	200	300	15	77
EL4 65-125/0.55	65	150	540	185	345	130	250	250	300	200	300	15	42
EL4 65-125/0.75	65	150	540	185	345	130	250	250	300	200	300	15	44
EL4 65-125/1.1	65	150	580	185	345	130	250	250	300	200	300	15	47
EL4 65-160/0.75	65	155	545	200	380	145	270	250	300	200	300	15	48
EL4 65-160/1.1	65	155	585	200	380	145	270	250	300	200	300	15	51
EL4 65-160/1.5	65	155	585	200	380	145	270	250	300	200	300	15	53
EL4 65-160/2.2	65	155	655	200	380	145	270	250	300	200	300	15	56
EL4 65-200/1.5	65	160	590	215	415	165	310	250	300	200	300	15	62
EL4 65-200/2.2	65	160	660	215	415	165	310	250	300	200	300	15	68
EL4 65-200/3	65	160	660	215	415	165	310	250	300	200	300	15	73
EL4 65-250/2.2	65	165		255	500	185	355	250	300	200	300	15	78
EL4 65-250/3	65	165	665	255	500	185	355	250	300	200	300	15	82
EL4 65-250/4	65	165	665	255	500	185	355	250	300	200	300	15	88
EL4 65-250/5.5	65	165	745	255	500	185	355	250	300	200	300	15	99
EL4 80-125/0.55	80	155	545	240	420	150	270	250	300	200	300	15	50
EL4 80-125/0.75	80	155	545	240	420	150	270	250	300	200	300	15	52
EL4 80-125/1.1	80	155	585	240	420	150	270	250	300	200	300	15	55
EL4 80-160/1.1	80	170	600	240	440	155	285	250	300	200	300	15	59
EL4 80-160/1.5	80	170	600	240	440	155	285	250	300	200	300	15	61
EL4 80-160/2.2	80	170	670	240	440	155	285	250	300	200	300	15	68
EL4 80-200/2.2	80	170	670	255	480	175	325	250	300	200	300	15	73
EL4 80-200/3	80	170	670	255	480	175	325	250	300	200	300	15	77
EL4 80-200/4	80	170	670	255	480	175	325	250	300	200	300	15	83
EL4 80-250/3	80	185	695	280	550	195	370	250	300	200	300	15	82
EL4 80-250/4	80	185	695	280	550	195	370	250	300	200	300	15	88
EL4 80-250/5.5	80	185	795	280	550	195	370	250	300	200	300	15	99

IN-LINE NORMALISED ELECTRIC PUMPS

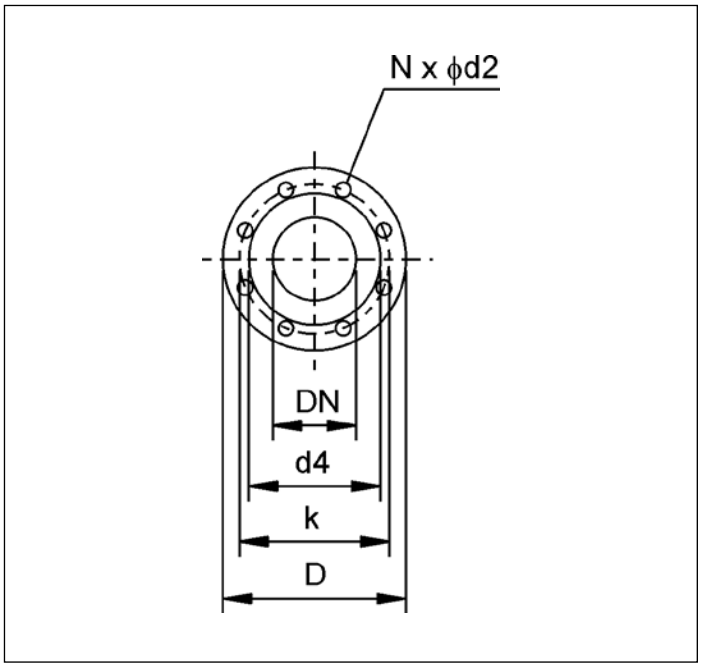
in cast iron

TABLE OF DIMENSIONS

4 Poles

Model	Dimensions [mm]												Weight [kg]
	DN	H1	H	L1	L	J1	J	A1	A	B1	B	C	
EL4 100-160/1.5	100	195	625	270	495	175	315	250	300	200	300	15	70
EL4 100-160/2.2	100	195	695	270	495	175	315	250	300	200	300	15	77
EL4 100-160/3	100	195	695	270	495	175	315	250	300	200	300	15	81
EL4 100-160/4	100	195	695	270	495	175	315	250	300	200	300	15	86
EL4 100-200/3	100	290	825	275	550	190	345	250	300	200	300	15	106
EL4 100-200/4	100	290	825	275	550	190	345	250	300	200	300	15	112
EL4 100-200/5.5	100	290	910	275	550	190	345	250	300	200	300	15	125
EL4 100-250/5.5	100	185	790	290	585	215	400	250	300	200	300	15	121
EL4 100-250/7.5	100	185	790	290	585	215	400	250	300	200	300	15	132
EL4 100-250/9.2	100	185	790	290	585	215	400	250	300	200	300	15	138
EL4 100-250/11	100	185	950	290	585	215	400	440	500	300	500	18	183
EL4 125-200/4	125	290	825	340	620	205	365	250	300	200	300	15	139
EL4 125-200/5.5	125	290	910	340	620	205	365	250	300	200	300	15	149
EL4 125-200/7.5	125	290	910	340	620	205	365	250	300	200	300	15	159
EL4 125-200/11	125	290	1020	340	620	205	380	440	500	300	500	18	184
EL4 125-250/7.5	125	290	905	340	620	220	405	250	300	200	300	15	165
EL4 125-250/11	125	290	1015	340	620	220	405	440	500	300	500	18	190
EL4 125-250/15	125	290	1015	340	620	220	405	440	500	300	500	18	203
EL4 150-200/5.5	150	315	935	370	700	245	430	250	300	200	300	15	183
EL4 150-200/7.5	150	315	935	370	700	245	430	250	300	200	300	15	193
EL4 150-200/11	150	315	1045	370	700	245	430	440	500	300	500	18	218
EL4 150-250/11	150	315	1040	370	700	255	460	440	500	300	500	18	275
EL4 150-250/15	150	315	1040	370	700	255	460	440	500	300	500	18	288
EL4 150-250/18.5	150	315	1040	370	700	255	460	440	500	300	500	18	311
EL4 150-250/22	150	315	1115	370	700	255	460	440	500	300	500	18	347
EL4 200-250/15	200	340	1065	470	920	290	515	440	500	300	500	18	294
EL4 200-250/18.5	200	340	1065	470	920	290	515	440	500	300	500	18	317
EL4 200-250/22	200	340	1140	470	920	290	515	440	500	300	500	18	312
EL4 200-250/30	200	340	1140	470	920	290	515	440	500	300	500	18	342

FLANGE DIMENSIONS



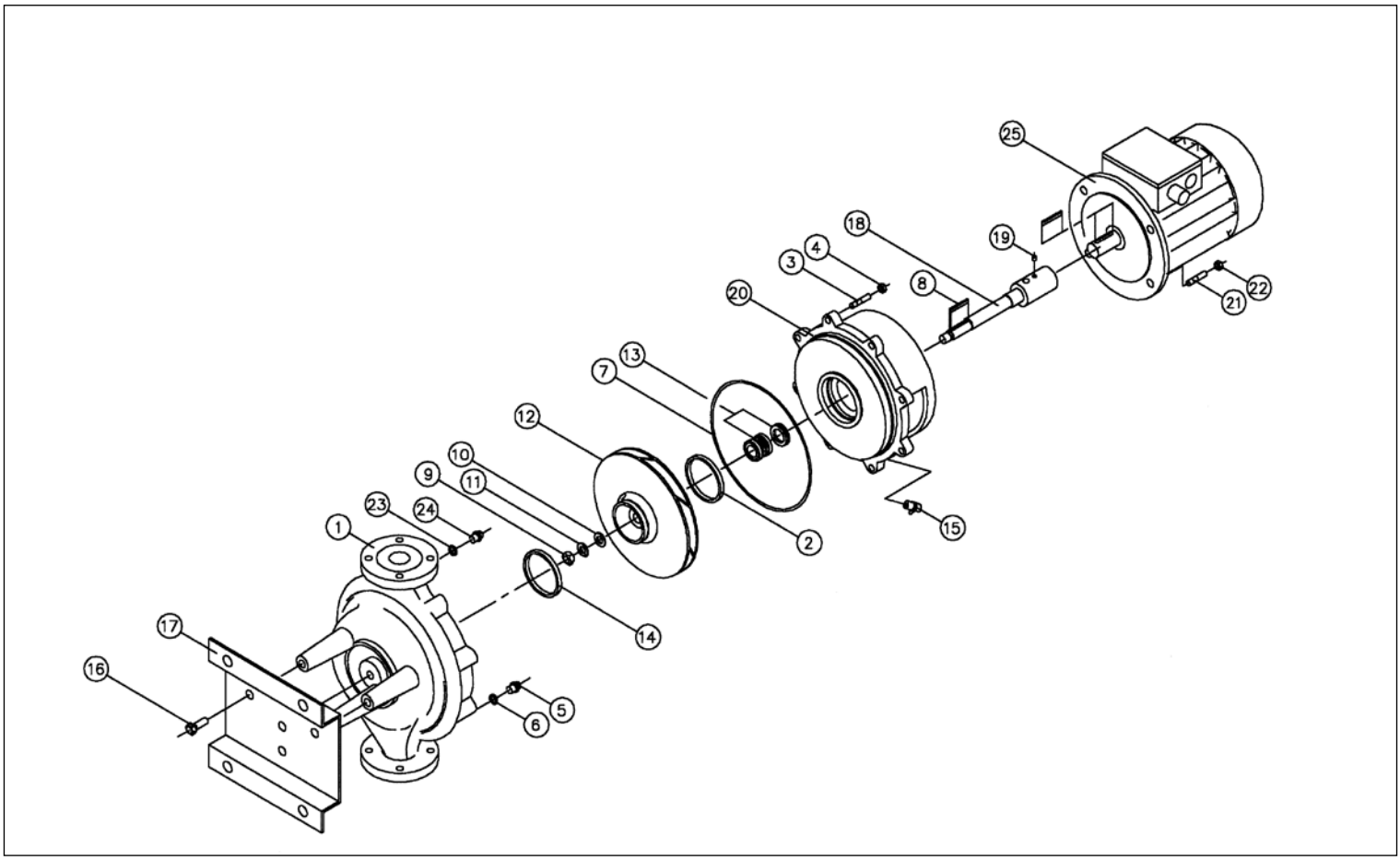
DIN 2532 PN10				
DN	d4	k	D	N x d2
40	88	110	150	4 x 18
50	102	125	165	4 x 18
65	122	145	185	4 x 18
80	138	160	200	8 x 18
100	158	180	220	8 x 18
125	188	210	250	8 x 18
150	212	240	285	8 x 22
200	268	295	340	8 x 22

ELINE

IN-LINE NORMALISED ELECTRIC PUMPS

in cast iron

SECTIONAL VIEW



MATERIALS TABLE

Ref.	Name	Material	Ref.	Name	Material
1	Pump body	Cast iron (GG-25)	14	Clearance ring (suction side)	Cast iron (GG-25)
2	Clearance ring (delivery side)	Cast iron (GG-25)	15	Air vent	Brass
3	Lantern mounting bolt	DIN 939 5.6	16	Basement mounting bolts	DIN 933 5.6
4	Lantern mounting nut	DIN 934 Zinc	17	Base	AE-275CUNE3608
5	Pressure gauge mounting cap	DIN 910	18	Shaft	Stainless steel (AISI 316)
6	O-Ring for pressure gauge cap	Aluminium	19	Set of bolts	DIN 916 A2
7	Lantern gasket	BELPA CSA-25	20	Lantern	Cast iron (GG-25)
8	Impeller key	DIN 6885 X5CRNIMO18-10	21	Lantern motor mounting bolts	DIN 939 5.6
9	Impeller nut	Brass	22	Lantern motor mounting nuts	DIN 934
10	Impeller nut washer	DIN 127 A2	23	Pressure gauge cap gasket (optional)	DIN 910
11	Impeller washer	DIN 125 300HV	24	Pressure gauge cap (optional)	Aluminium
12	Impeller	Cast iron (GG-20)	25	Motor	-
13	Mechanical seal	Carbon-Ceramic			

IN-LINE NORMALISED ELECTRIC PUMPS

in cast iron

ELECTRICAL DATA TABLE — 2 Poles

Model Three phase 230/400V 400/690V	P_2 [HP]	P_2 [kW]	Motor	Efficiency (%) Three phase η %	cosΦ	Absorbed current [A] Three phase 400V
EL 40-125/1.5	2	1.5	90S	84.5	0.83	3.09
EL 40-125/2.2	3	2.2	90L	86.3	0.83	4.43
EL 40-125/3	4	3	100L	87.3	0.86	5.77
EL 40-160/2.2	3	2.2	90L	86.3	0.83	4.43
EL 40-160/3	4	3	100L	87.3	0.86	5.77
EL 40-160/4	5.5	4	112M	88.4	0.86	7.59
EL 40-160/5.5	7.5	5.5	132S	89.4	0.84	10.6
EL 50-125/1.5	2	1.5	90S	84.5	0.83	3.09
EL 50-125/2.2	3	2.2	90L	86.3	0.83	4.43
EL 50-125/3	4	3	100L	87.3	0.86	5.77
EL 50-125/4	5.5	4	112M	88.4	0.86	7.59
EL 50-160/4	5.5	4	112M	88.4	0.86	7.59
EL 50-160/5.5	7.5	5.5	132S	89.4	0.84	10.6
EL 50-160/7.5	10	7.5	132S	90.3	0.85	14.1
EL 50-200/7.5	10	7.5	132S	90.3	0.85	14.1
EL 50-200/9.2	12.5	9.2	132M	90.7	0.88	16.6
EL 50-200/11	15	11	160M	91.4	0.87	20.0
EL 50-200/15	20	15	160M	92.1	0.85	27.7
EL 50-250/11	15	11	160M	91.4	0.87	20.0
EL 50-250/15	20	15	160M	92.1	0.85	27.7
EL 50-250/18.5	25	18.5	160L	92.6	0.85	33.9
EL 50-250/22	30	22	180M	92.9	0.86	39.7
EL 65-125/3	4	3	100L	87.3	0.86	5.77
EL 65-125/4	5.5	4	112M	88.4	0.86	7.59
EL 65-125/5.5	7.5	5.5	132S	89.4	0.84	10.6
EL 65-125/7.5	10	7.5	132S	90.3	0.85	14.1
EL 65-160/5.5	7.5	5.5	132S	89.4	0.84	10.6
EL 65-160/7.5	10	7.5	132S	90.3	0.85	14.1
EL 65-160/9.2	12.5	9.2	132M	90.7	0.88	16.6
EL 65-160/11	15	11	132M(1)	91.4	0.87	20.0
EL 65-200/15	20	15	160M	92.1	0.85	27.7
EL 65-200/18.5	25	18.5	160L	92.6	0.85	33.9
EL 65-200/22	30	22	180M	92.9	0.86	39.7
EL 65-250/18.5	25	18.5	160M	92.6	0.85	33.9
EL 65-250/22	30	22	160L	92.9	0.86	39.7
EL 65-250/30	40	30	180M	93.5	0.85	54.5
EL 80-125/4	5.5	4	112M	88.4	0.86	7.59
EL 80-125/5.5	7.5	5.5	132S	89.4	0.84	10.6
EL 80-125/7.5	10	7.5	132S	90.3	0.85	14.1
EL 80-160/7.5	10	7.5	132S	90.3	0.85	14.1
EL 80-160/9.2	12.5	9.2	132M	90.7	0.88	16.6
EL 80-160/11	15	11	160M	91.4	0.87	20.0
EL 80-160/15	20	15	160M	92.1	0.85	27.7
EL 80-160/18.5	25	18.5	160L	92.6	0.85	33.9
EL 80-200/15	20	15	160M	92.1	0.85	27.7
EL 80-200/18.5	25	18.5	160L	92.6	0.85	33.9
EL 80-200/22	30	22	180M	92.9	0.86	39.7
EL 80-200/30	40	30	200L	93.5	0.85	54.5
EL 100-160/15	20	15	160M	92.1	0.85	27.7
EL 100-160/18.5	25	18.5	160L	92.6	0.85	33.9
EL 100-160/22	30	22	180M	92.9	0.86	39.7
EL 100-160/30	40	30	200L	93.5	0.85	54.5
EL 100-200/22	30	22	180M	92.9	0.86	39.7
EL 100-200/30	40	30	200L	93.5	0.85	54.5
EL 100-200/37	50	37	200L	93.8	0.84	67.8
EL 125-200/30	40	30	200L	93.5	0.85	54.5
EL 125-200/37	50	37	200L	93.8	0.84	67.8

* Motor with undersized flange

(1) Non standard frame.

ELECTRICAL DATA TABLE — 4 POLE

Model Three phase 230/400V 400/690V	P_2 [HP]	P_2 [kW]	Motor	Efficiency (%) Three phase η %	cosΦ	Absorbed current [A] Three phase 400V
EL4 40-125/0.55	0.75	0.55	80	80.8	0.80	1.23
EL4 40-160/0.55	0.75	0.55	80	80.8	0.80	1.23
EL4 40-160/0.75	1	0.75	80	82.5	0.81	1.62
EL4 50-125/0.55	0.75	0.55	80	80.8	0.80	1.23
EL4 50-160/0.55	0.75	0.55	80	80.8	0.80	1.23
EL4 50-160/0.75	1	0.75	80	82.5	0.81	1.62
EL4 50-160/1.1	1.5	1.1	90S	84.5	0.80	2.35
EL4 50-200/1.1	1.5	1.1	90S	84.5	0.80	2.35
EL4 50-200/1.5	2	1.5	90L	85.5	0.80	3.17
EL4 50-250/2.2	3	2.2	100L	87.0	0.80	4.56
EL4 50-250/3	4	3	100L	88.0	0.80	6.15
EL4 65-125/0.55	0.75	0.55	80	80.8	0.80	1.23
EL4 65-125/0.75	1	0.75	80	82.5	0.81	1.62
EL4 65-125/1.1	1.5	1.1	90S	84.5	0.80	2.35
EL4 65-160/0.75	1	0.75	80	82.5	0.81	1.62
EL4 65-160/1.1	1.5	1.1	90S	84.5	0.80	2.35
EL4 65-160/1.5	2	1.5	90L	85.5	0.80	3.17
EL4 65-160/2.2	3	2.2	100L	87.0	0.80	4.56
EL4 65-200/1.5	2	1.5	90L	85.5	0.80	3.17
EL4 65-200/2.2	3	2.2	100L	87.0	0.80	4.56
EL4 65-200/3	4	3	100L	88.0	0.80	6.15
EL4 65-250/2.2	3	2.2	100L	87.0	0.80	4.56
EL4 65-250/3	4	3	100L	88.0	0.80	6.15
EL4 65-250/4	5.5	4	112M	88.8	0.81	8.03
EL4 65-250/5.5	7.5	5.5	132S	89.7	0.85	10.4
EL4 80-125/0.55	0.7	0.55	80	80.8	0.80	1.23
EL4 80-125/0.75	1	0.75	80	82.5	0.81	1.62
EL4 80-125/1.1	1.5	1.1	90S	84.5	0.80	2.35
EL4 80-160/1.1	1.5	1.1	90S	84.5	0.80	2.35
EL4 80-160/1.5	2	1.5	90L	85.5	0.80	3.17
EL4 80-160/2.2	3	2.2	100L	87.0	0.80	4.56
EL4 80-200/2.2	3	2.2	100L	87.0	0.80	4.56
EL4 80-200/3	4	3	100L	88.0	0.80	6.15
EL4 80-200/4	5.5	4	112M	88.8	0.81	8.03
EL4 80-250/3	4	3	100L	88.0	0.80	6.15
EL4 80-250/4	5.5	4	112M	88.8	0.81	8.03
EL4 80-250/5.5	7.5	5.5	132S	89.7	0.85	10.4
EL4 100-160/1.5	2	1.5	90L	85.5	0.80	3.17
EL4 100-160/2.2	3	2.2	100L	87.0	0.80	4.56
EL4 100-160/3	4	3	100L	88.0	0.80	6.15
EL4 100-160/4	5.5	4	112M	88.8	0.81	8.03
EL4 100-200/3	4	3	100L	88.0	0.80	6.15
EL4 100-200/4	5.5	4	112M	88.8	0.81	8.03
EL4 100-200/5.5	7.5	5.5	132S	89.7	0.85	10.4
EL4 100-250/5.5	7.5	5.5	132S	89.7	0.85	10.4
EL4 100-250/7.5	10	7.5	132M	90.6	0.86	13.9
EL4 100-250/9.2	12.5	9.2	132M	91.0	0.82	17.4
EL4 100-250/11	15	11	160M	91.6	0.83	20.9
EL4 125-200/4	5.5	4	112M	88.8	0.81	8.03
EL4 125-200/5.5	7.5	5.5	132S	89.7	0.85	10.4
EL4 125-200/7.5	10	7.5	132M	90.6	0.86	13.9
EL4 125-200/11	15	11	160M	91.6	0.83	20.9
EL4 125-250/7.5	10	7.5	132M	90.6	0.86	13.9
EL4 125-250/11	15	11	160M	91.6	0.83	20.9
EL4 125-250/15	20	15	160L	92.3	0.84	27.9
EL4 150-200/5.5	7.5	5.5	132S	89.7	0.85	10.4
EL4 150-200/7.5	10	7.5	132M	90.6	0.86	13.9
EL4 150-200/11	15	11	160M	91.6	0.83	20.9
EL4 150-250/11	15	11	160M	91.6	0.83	20.9
EL4 150-250/15	20	15	160L	92.3	0.84	27.9
EL4 150-250/18.5	25	18.5	180M	92.8	0.82	35.1
EL4 150-250/22	30	22	180L	93.2	0.83	41.0
EL4 200-250/15	20	15	160L	92.3	0.84	27.9
EL4 200-250/18.5	25	18.5	180M	92.8	0.82	35.1
EL4 200-250/22	30	22	180L	93.2	0.83	41.0
EL4 200-250/30	40	30	200L	93.7	0.81	57.1

IN-LINE NORMALISED ELECTRIC PUMPS

in cast iron

NOISE DATA TABLE EL — 2 Poles

Model	P_2 [HP]	P_2 [kW]	L_{pA} - dB(A)
EL 40-125/1.5	2	1.5	65
EL 40-125/2.2	3	2.2	
EL 40-125/3	4	3	
EL 40-160/2.2	3	2.2	
EL 40-160/3	4	3	66
EL 40-160/4	5.5	4	
EL 40-160/5.5	7.5	5.5	72
EL 50-125/1.5	2	1.5	65
EL 50-125/2.2	3	2.2	
EL 50-125/3	4	3	66
EL 50-125/4	5.5	4	
EL 50-160/4	5.5	4	
EL 50-160/5.5	7.5	5.5	72
EL 50-160/7.5	10	7.5	
EL 50-200/7.5	10	7.5	
EL 50-200/9.2	12.5	9.2	
EL 50-200/11	15	11	
EL 50-200/15	20	15	
EL 50-250/11	15	11	
EL 50-250/15	20	15	
EL 50-250/18.5	25	18.5	
EL 50-250/22	30	22	
EL 65-125/3	4	3	66
EL 65-125/4	5.5	4	
EL 65-125/5.5	7.5	5.5	72
EL 65-125/7.5	10	7.5	
EL 65-160/5.5	7.5	5.5	
EL 65-160/7.5	10	7.5	
EL 65-160/9.2	12.5	9.2	
EL 65-160/11	15	11	
EL 65-200/15	20	15	
EL 65-200/18.5	25	18.5	
EL 65-200/22	30	22	
EL 65-250/18.5	25	18.5	
EL 65-250/22	30	22	
EL 65-250/30	40	30	
EL 80-125/4	5.5	4	
EL 80-125/5.5	7.5	5.5	
EL 80-125/7.5	10	7.5	
EL 80-160/7.5	10	7.5	
EL 80-160/9.2	12.5	9.2	
EL 80-160/11	15	11	
EL 80-160/15	20	15	
EL 80-160/18.5	25	18.5	
EL 80-200/15	20	15	
EL 80-200/18.5	25	18.5	
EL 80-200/22	30	22	
EL 80-200/30	40	30	73
EL 100-160/15	20	15	72
EL 100-160/18.5	25	18.5	
EL 100-160/22	30	22	
EL 100-160/30	40	30	73
EL 100-200/22	30	22	72
EL 100-200/30	40	30	73
EL 100-200/37	50	37	
EL 125-200/30	40	30	
EL 125-200/37	50	37	

NOISE DATA TABLE EL — 4 Poles

Model	P_2 [HP]	P_2 [kW]	L_{pA} - dB(A)
EL4 40-125/0.55	0.75	0.55	45
EL4 40-160/0.55	0.75	0.55	
EL4 40-160/0.75	1	0.75	
EL4 50-125/0.55	0.75	0.55	
EL4 50-160/0.55	0.75	0.55	
EL4 50-160/0.75	1	0.75	
EL4 50-160/1.1	1.5	1.1	48
EL4 50-200/1.1	1.5	1.1	
EL4 50-200/1.5	2	1.5	
EL4 50-250/2.2	3	2.2	
EL4 50-250/3	4	3	
EL4 65-125/0.55	0.75	0.55	45
EL4 65-125/0.75	1	0.75	
EL4 65-125/1.1	1.5	1.1	48
EL4 65-160/0.75	1	0.75	45
EL4 65-160/1.1	1.5	1.1	48
EL4 65-160/1.5	2	1.5	
EL4 65-160/2.2	3	2.2	
EL4 65-200/1.5	2	1.5	
EL4 65-200/2.2	3	2.2	
EL4 65-200/3	4	3	
EL4 65-250/2.2	3	2.2	
EL4 65-250/3	4	3	
EL4 65-250/4	5.5	4	49
EL4 65-250/5.5	7.5	5.5	58
EL4 80-125/0.55	0.7	0.55	45
EL4 80-125/0.75	1	0.75	
EL4 80-125/1.1	1.5	1.1	48
EL4 80-160/1.1	1.5	1.1	
EL4 80-160/1.5	2	1.5	
EL4 80-160/2.2	3	2.2	
EL4 80-200/2.2	3	2.2	
EL4 80-200/3	4	3	
EL4 80-200/4	5.5	4	49
EL4 80-250/3	4	3	48
EL4 80-250/4	5.5	4	49
EL4 80-250/5.5	7.5	5.5	58
EL4 100-160/1.5	2	1.5	48
EL4 100-160/2.2	3	2.2	
EL4 100-160/3	4	3	
EL4 100-160/4	5.5	4	49
EL4 100-200/3	4	3	48
EL4 100-200/4	5.5	4	49
EL4 100-200/5.5	7.5	5.5	58
EL4 100-250/5.5	7.5	5.5	
EL4 100-250/7.5	10	7.5	62
EL4 100-250/9.2	12.5	9.2	
EL4 100-250/11	15	11	
EL4 125-200/4	5.5	4	49
EL4 125-200/5.5	7.5	5.5	58
EL4 125-200/7.5	10	7.5	62
EL4 125-200/11	15	11	
EL4 125-250/7.5	10	7.5	
EL4 125-250/11	15	11	
EL4 125-250/15	20	15	
EL4 150-200/5.5	7.5	5.5	58
EL4 150-200/7.5	10	7.5	62
EL4 150-200/11	15	11	
EL4 150-250/11	15	11	
EL4 150-250/15	20	15	
EL4 150-250/18.5	25	18.5	64
EL4 150-250/22	30	22	
EL4 200-250/15	20	15	62
EL4 200-250/18.5	25	18.5	64
EL4 200-250/22	30	22	
EL4 200-250/30	40	30	

ELINED

IN-LINE NORMALISED ELECTRIC PUMPS

in cast iron

In-line centrifugal twin electric pumps with hydraulic equipment in cast iron, single impeller, designed to satisfy DIN 24255. Equipped with normalised motor.

APPLICATIONS

- Heating and air conditioning systems
- Cooling and domestic hot water systems
- Pressurisation
- Industrial: pumping clean, chemically neutral fluids without abrasive particles in suspension

CHARACTERISTICS AND ADVANTAGES

- Direct mounting to pipes with supplementary mounts up to 3 kW power rating
- Very silent running
- Reduced size
- Ease of installation and removal
- Low maintenance

OPTIONS/ACCESSORIES AVAILABLE ON REQUEST

- Anti-condensation heating elements
- ATEX execution
- Temperature sensors (PT100), thermistors (PTC)
- Dual speed
- Powered ventilation

PUMP TECHNICAL DATA

- Maximum operating pressure: 10 bar
- Fluid temperature: -10 ÷ +120°C (+140°C on request)
- Admitted fluids: clean, chemically neutral and without suspended particles
- Flanges (delivery and suction): DN 40 to DN 200
- MEI > 0.4

MOTOR TECHNICAL DATA

- Three phase asynchronous motor, 2 and 4 poles
- Insulation class: F
- Protection rating: IP55
- Speed: 1450 – 2900 rpm
- Ambient temperature: 40°C
- Voltage:
  - 3~230/400V ±10% (for power ≤ 4 kW)
  - 3~400/690V ±10% (for power > 4 kW)
- Frequency: 50 Hz (60Hz available on request)

MATERIALS

- Pump body and lantern in cast iron (GG-25)
- Cast iron impeller (GG-20)
- Shaft made of AISI 316 stainless steel
- Mechanical seal in graphite/ceramic
- Gasket/O-ring in paper/NBR

IDENTIFICATION CODE

EL | D | 40 - 160 / 0.75 | A

- A — Impeller size
- 0.75 — Power [kW]
- 160 — Impeller dia. in mm: 125, 160, 200, 250
- 40 — Flange size in mm: 40, 50, 65, 80, 100, 125, 150, 200
- D — Tandem
- EL — Model: ELD 2 Poles twin; ELD4 4 Poles twin

ELINED

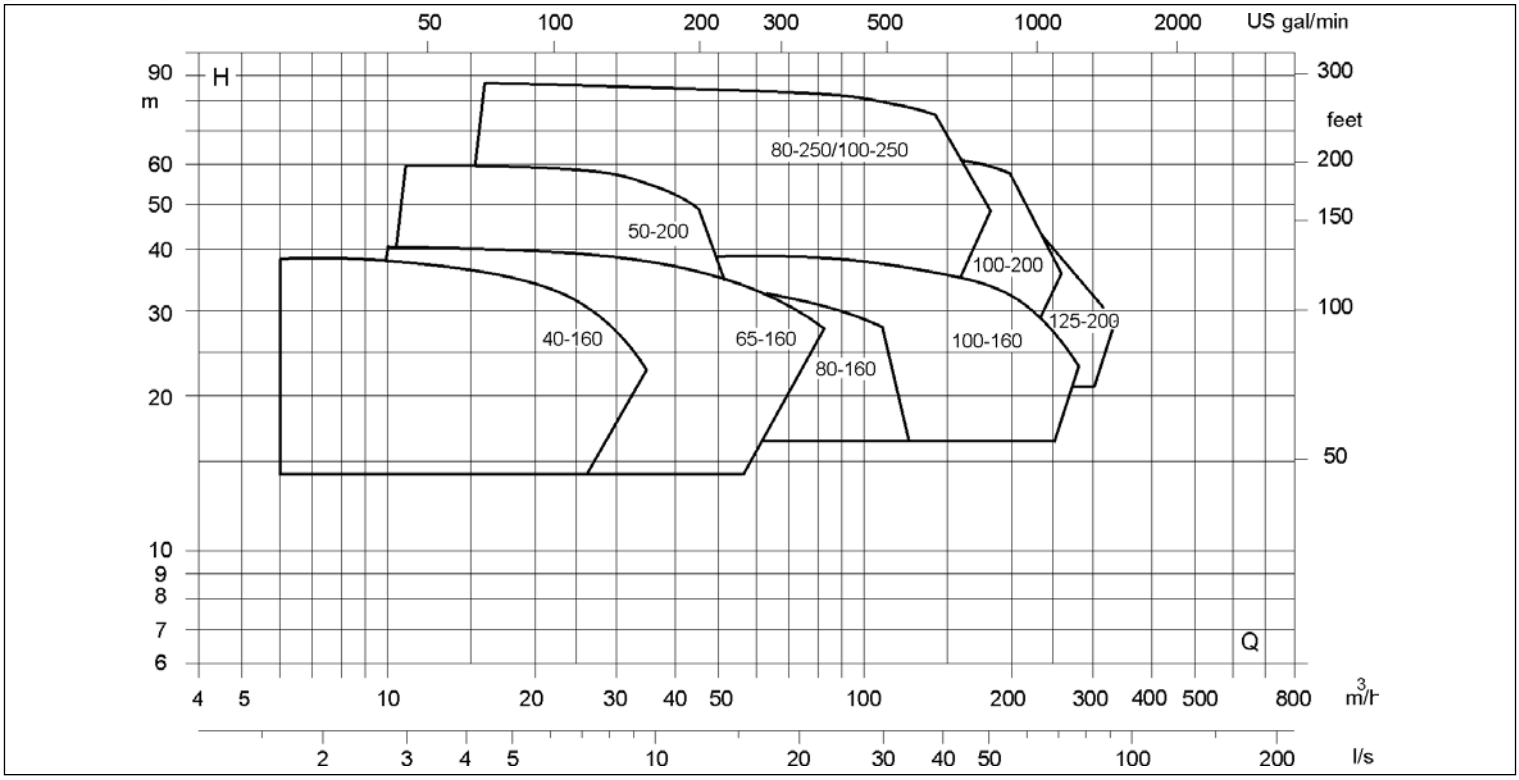
IN-LINE NORMALISED ELECTRIC PUMPS

in cast iron

PERFORMANCE RANGE ELINED

2 Poles

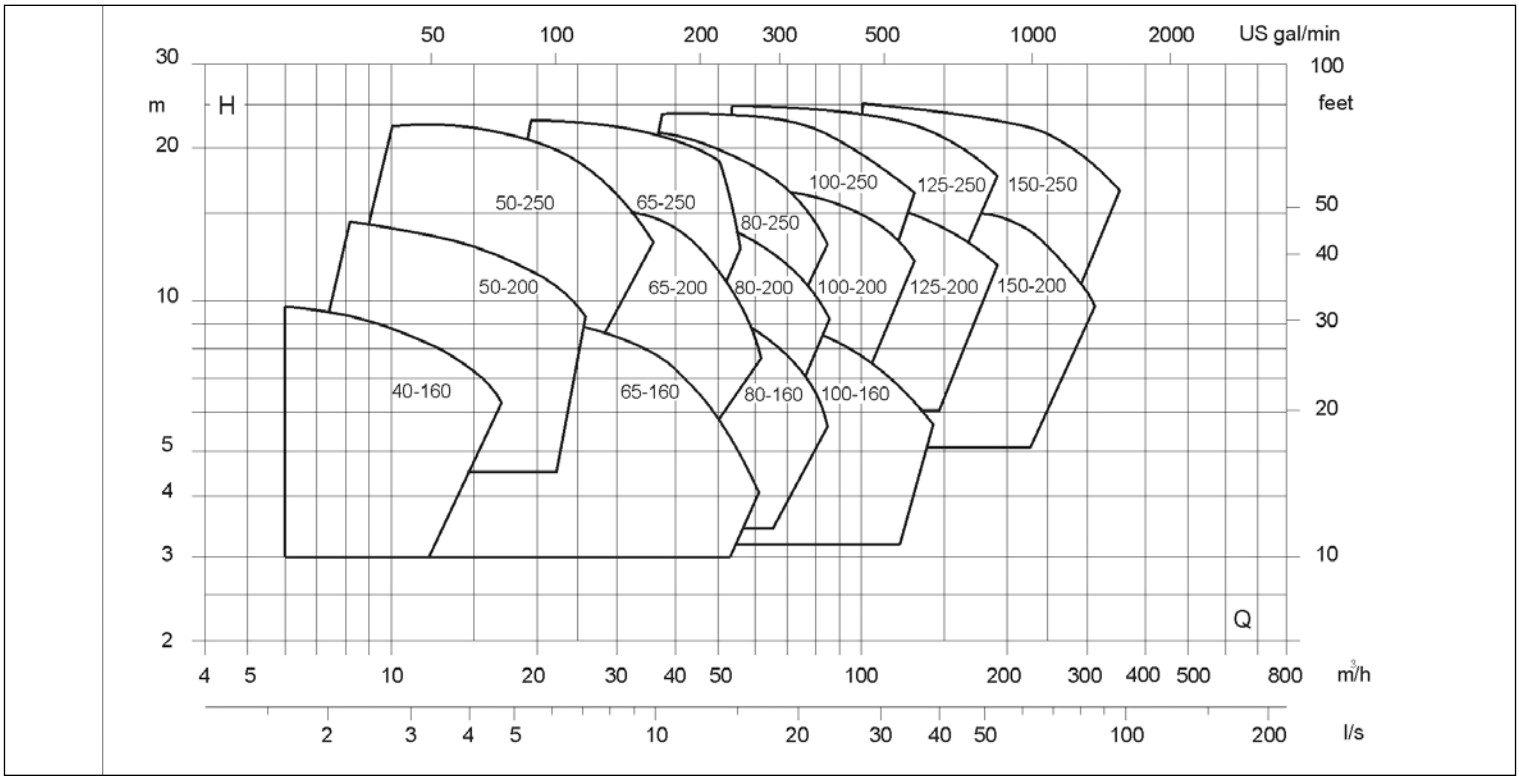
(per ISO 9906 Annex A)



PERFORMANCE RANGE ELINED4

4 Poles

(per ISO 9906 Annex A)



Selection table on page 173

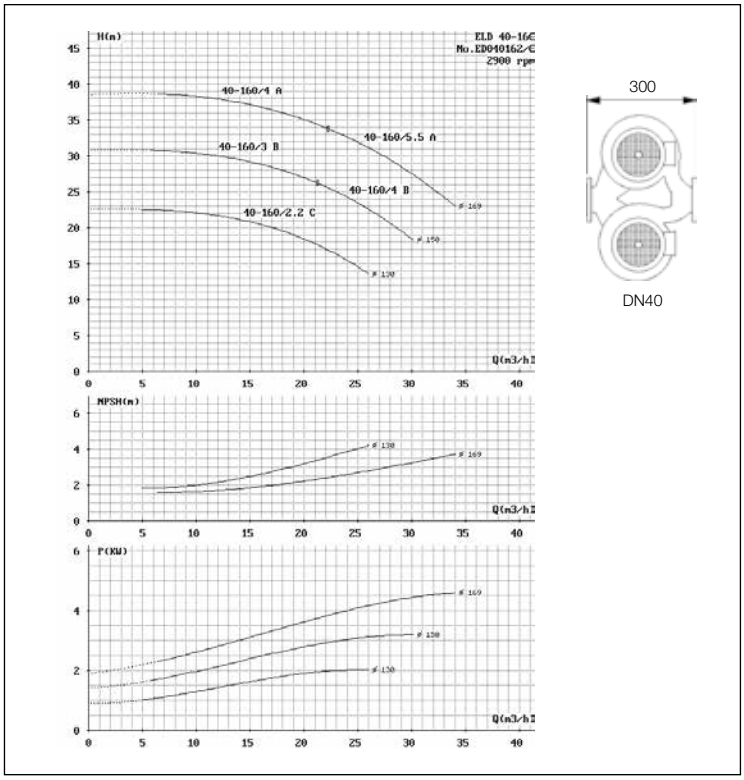
ELINED

IN-LINE NORMALISED ELECTRIC PUMPS

in cast iron

PERFORMANCE CURVES ELINED 40-160 — 2 Poles

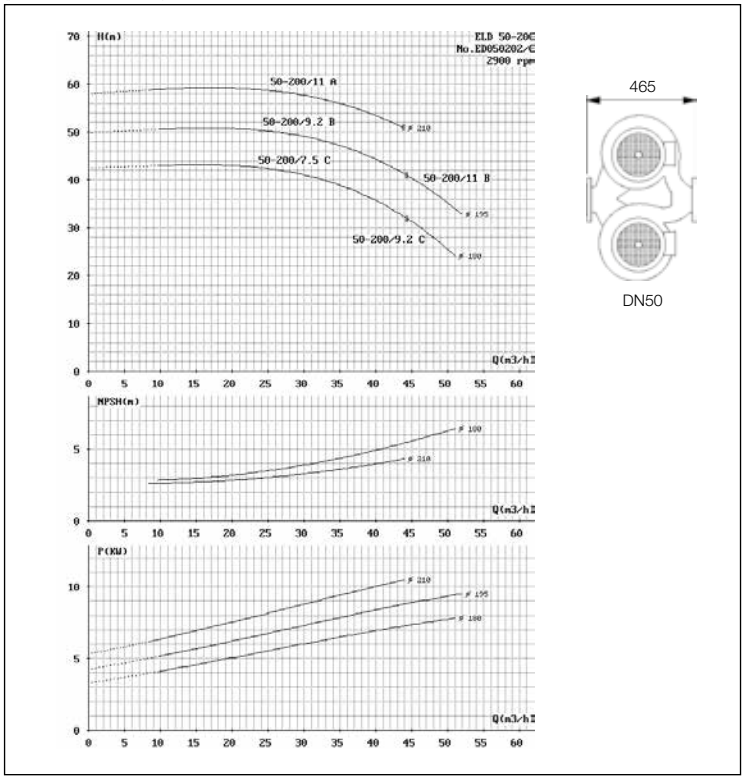
(per ISO 9906 Annex A)



DN40

PERFORMANCE CURVES ELINED 50-200 — 2 Poles

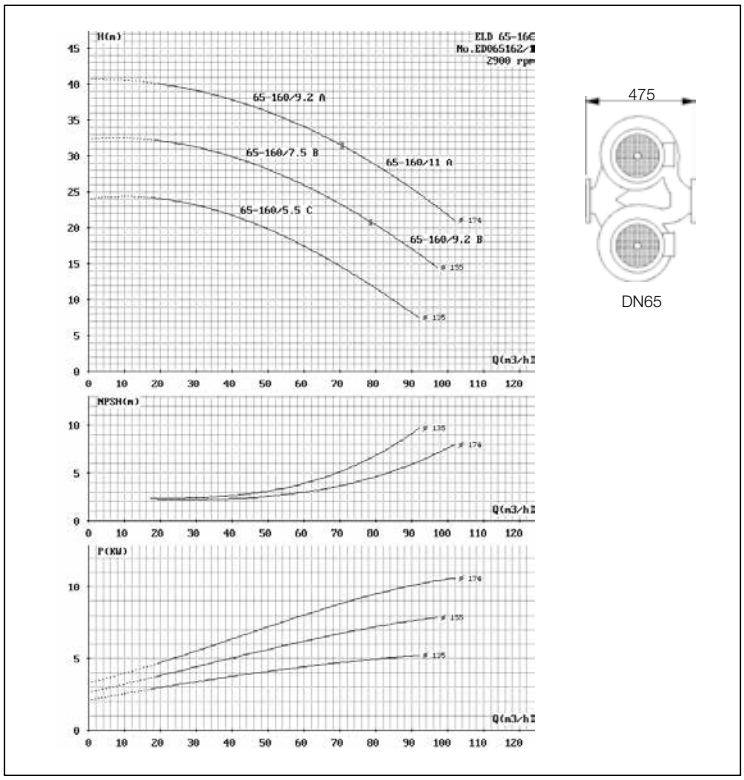
(per ISO 9906 Annex A)



DN50

PERFORMANCE CURVES ELINED 65-160 — 2 Poles

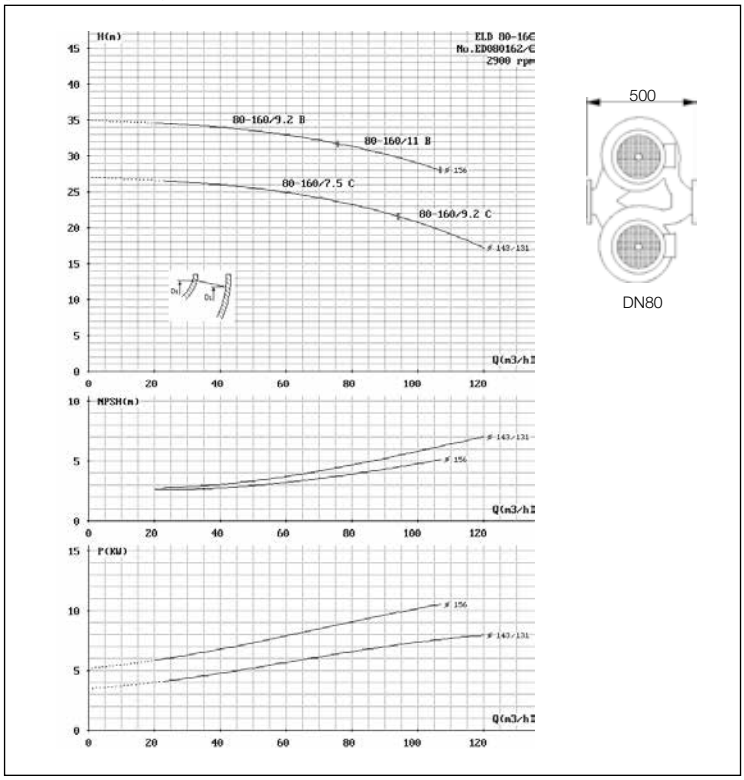
(per ISO 9906 Annex A)



DN65

PERFORMANCE CURVES ELINED 80-160 — 2 Poles

(per ISO 9906 Annex A)



DN80

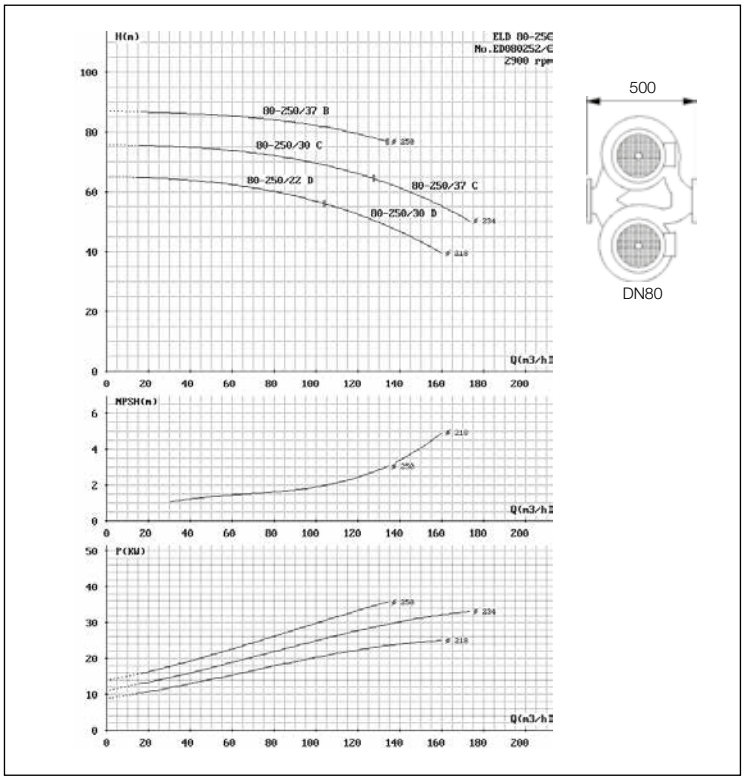
ELINED

IN-LINE NORMALISED ELECTRIC PUMPS

in cast iron

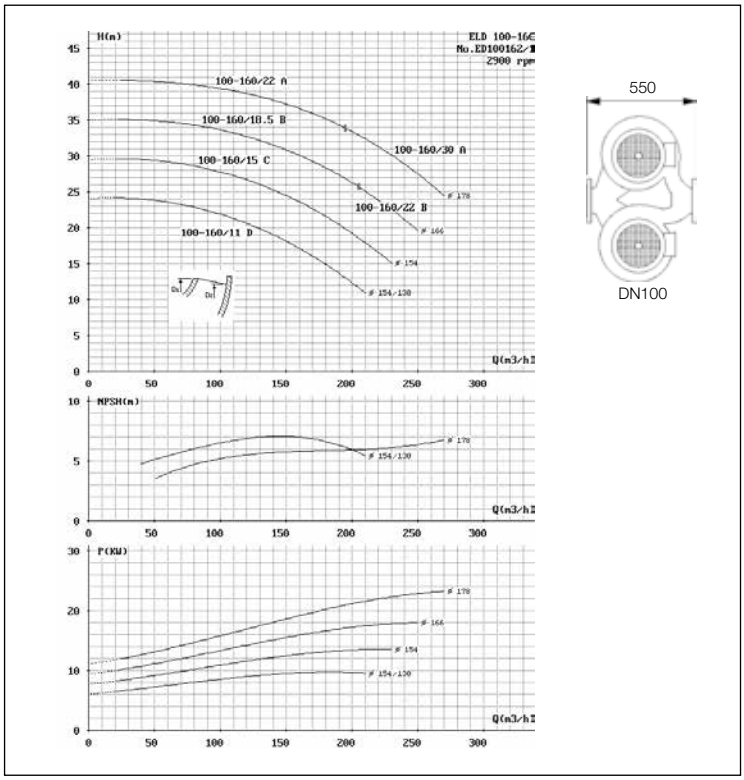
PERFORMANCE CURVES ELINED 80-250 — 2 Poles

(per ISO 9906 Annex A)



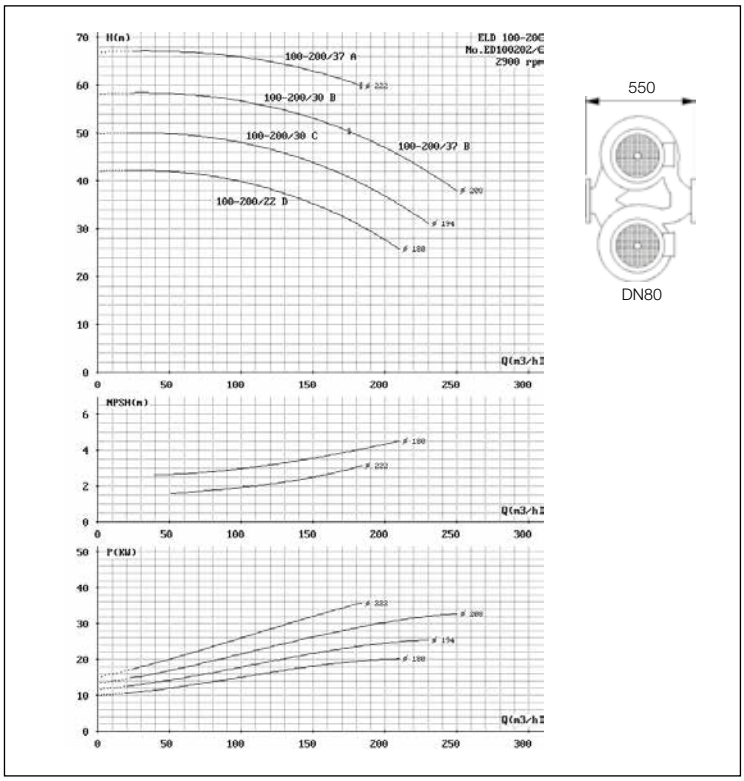
PERFORMANCE CURVES ELINED 100-160 — 2 Poles

(per ISO 9906 Annex A)



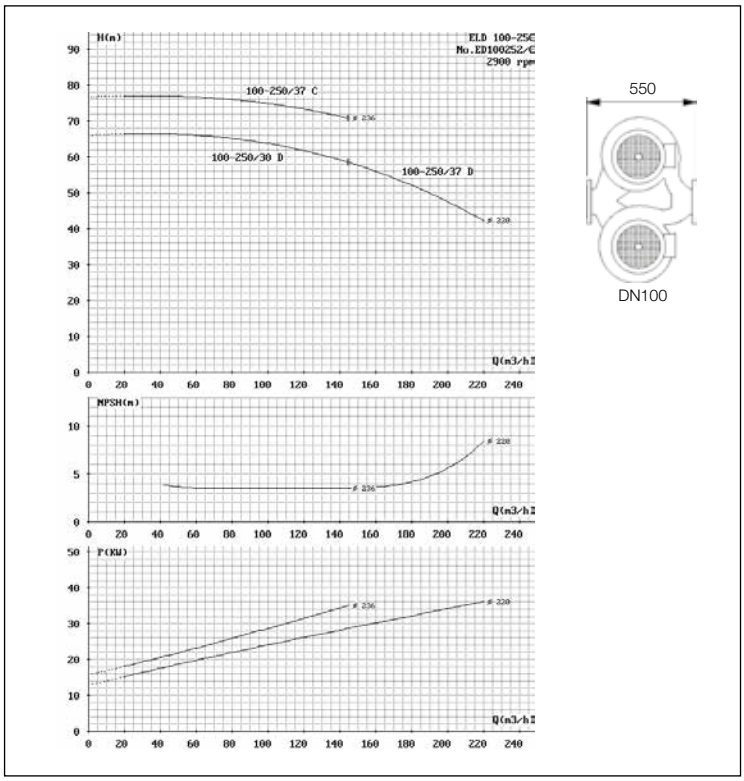
PERFORMANCE CURVES ELINED 100-200 — 2 Poles

(per ISO 9906 Annex A)



PERFORMANCE CURVES ELINED 100-250 — 2 Poles

(per ISO 9906 Annex A)



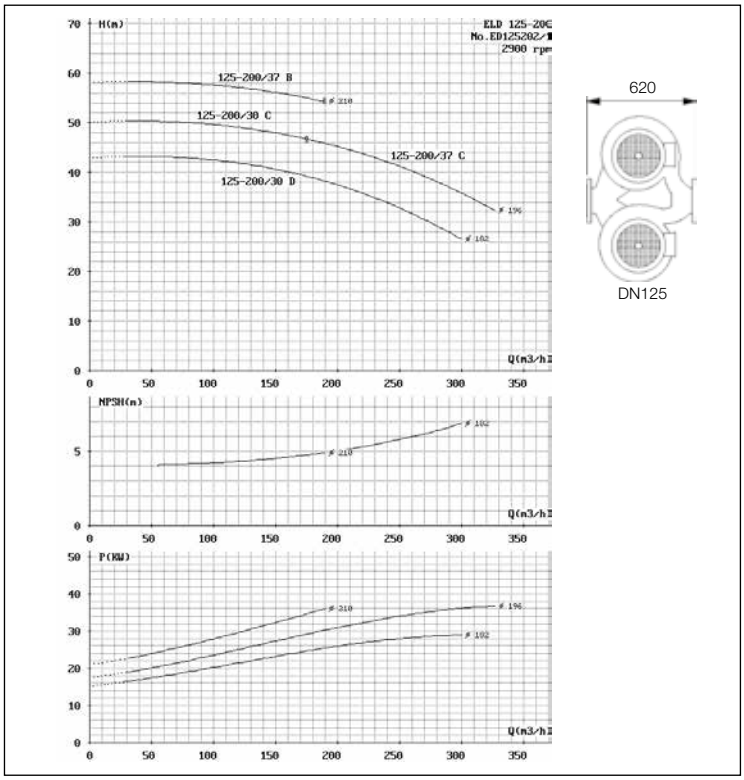
ELINED

IN-LINE NORMALISED ELECTRIC PUMPS

in cast iron

PERFORMANCE CURVES ELINED 125-200 — 2 Poles

(per ISO 9906 Annex A)

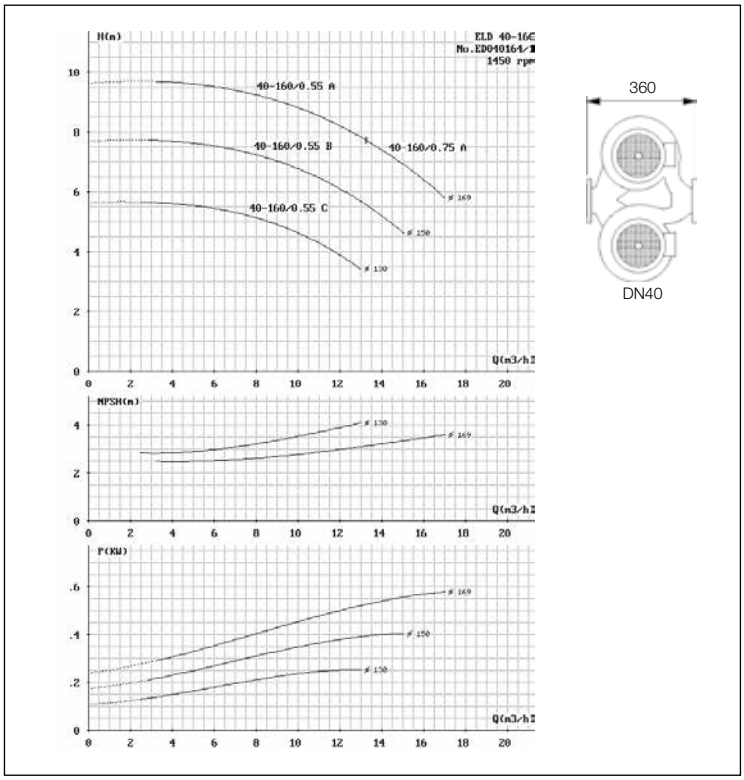


IN-LINE NORMALISED ELECTRIC PUMPS

in cast iron

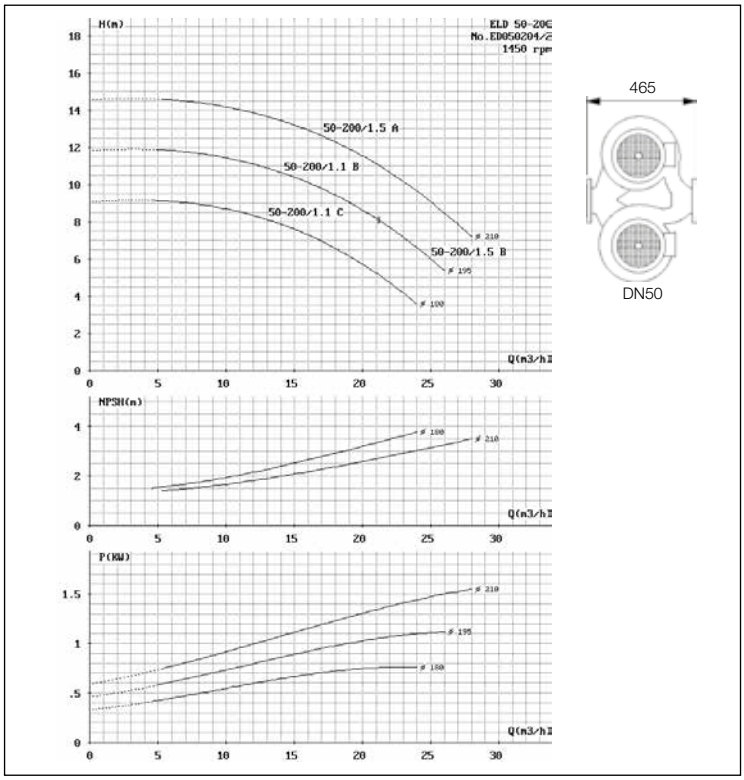
PERFORMANCE CURVES ELINED4 40-160 — 4 Poles

(per ISO 9906 Annex A)



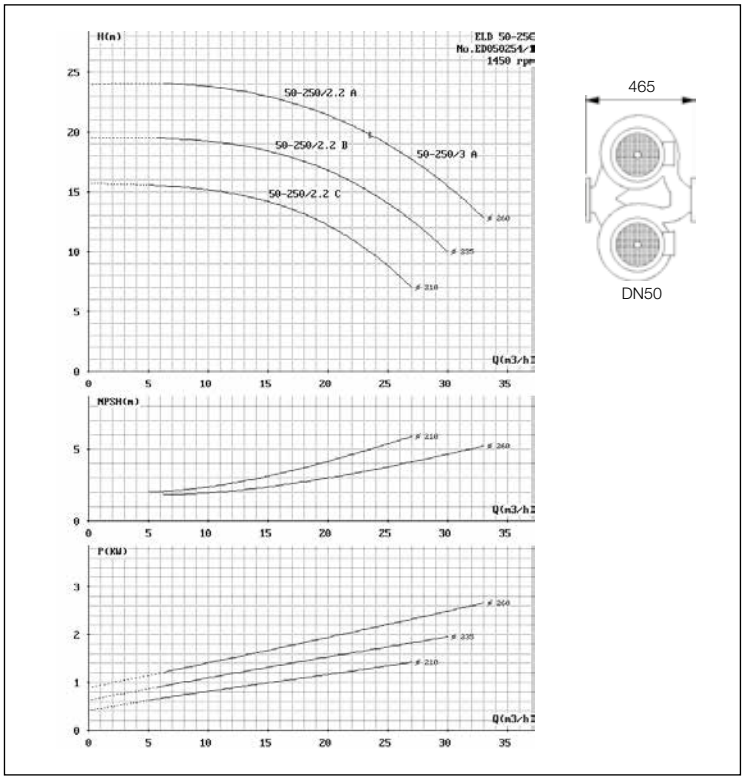
PERFORMANCE CURVES ELINED4 50-200 — 4 Poles

(per ISO 9906 Annex A)



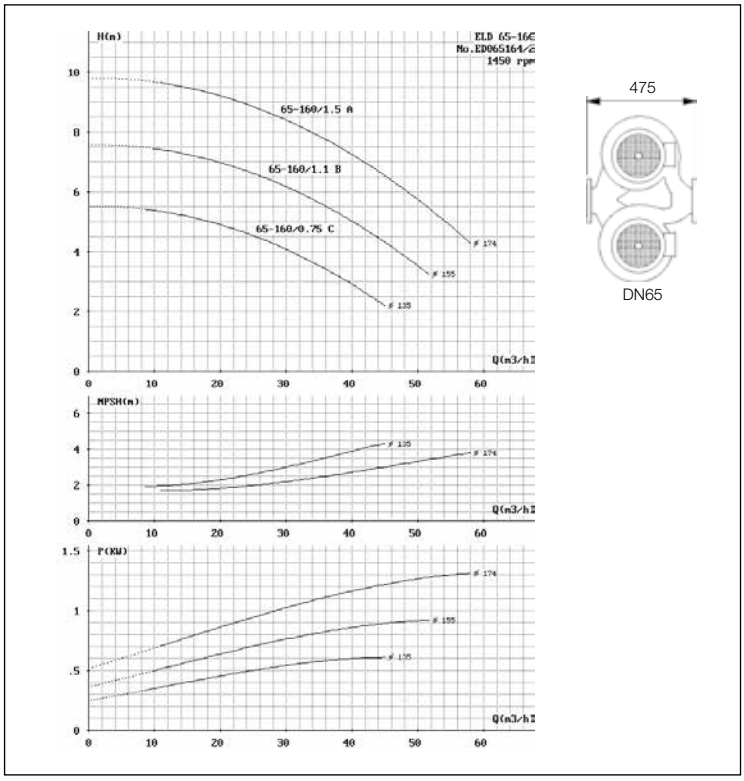
PERFORMANCE CURVES ELINED4 50-250 — 4 Poles

(per ISO 9906 Annex A)



PERFORMANCE CURVES ELINED4 65-160 — 4 Poles

(per ISO 9906 Annex A)

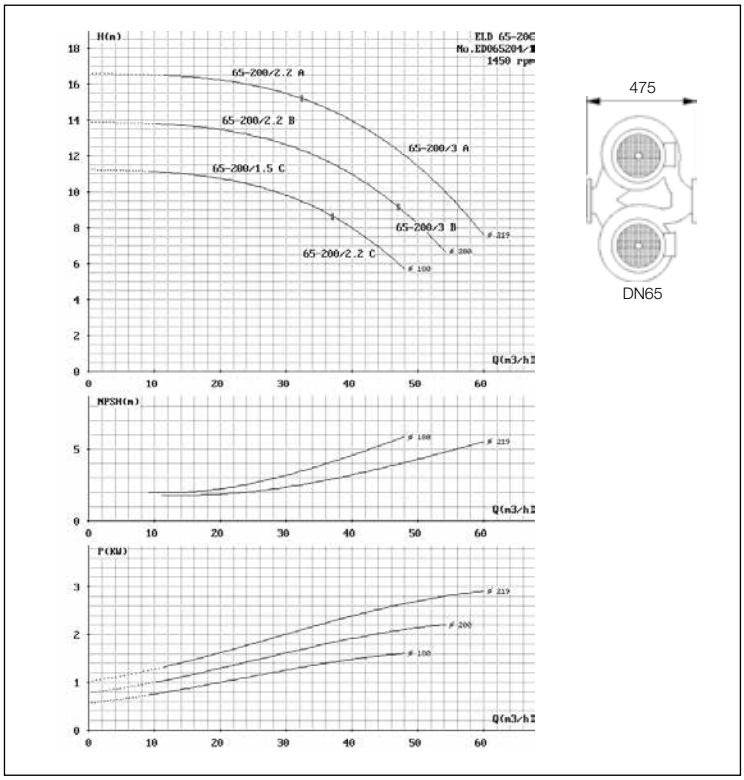


IN-LINE NORMALISED ELECTRIC PUMPS

in cast iron

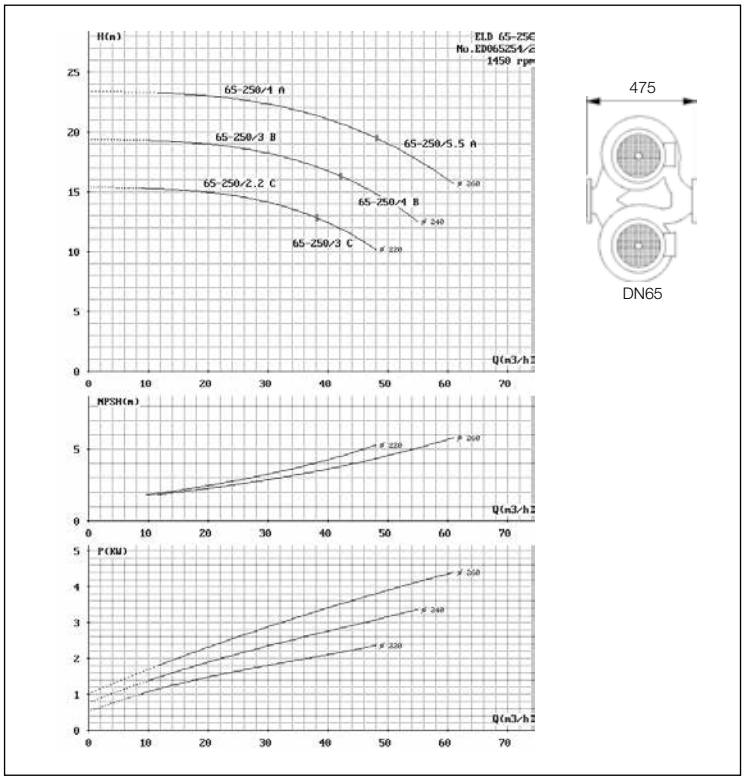
PERFORMANCE CURVES ELINED4 65-200 — 4 Poles

(per ISO 9906 Annex A)



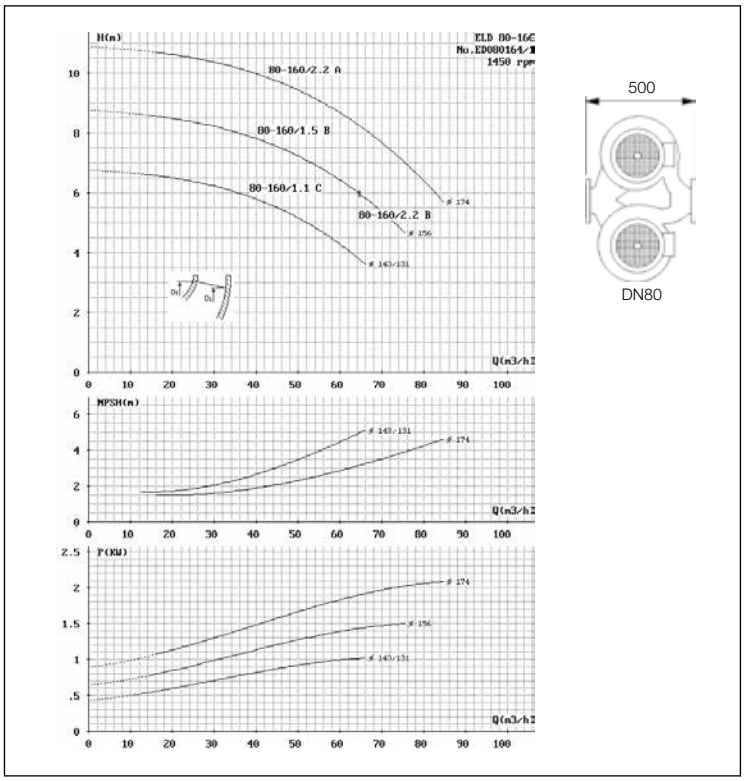
PERFORMANCE CURVES ELINED4 65-250 — 4 Poles

(per ISO 9906 Annex A)



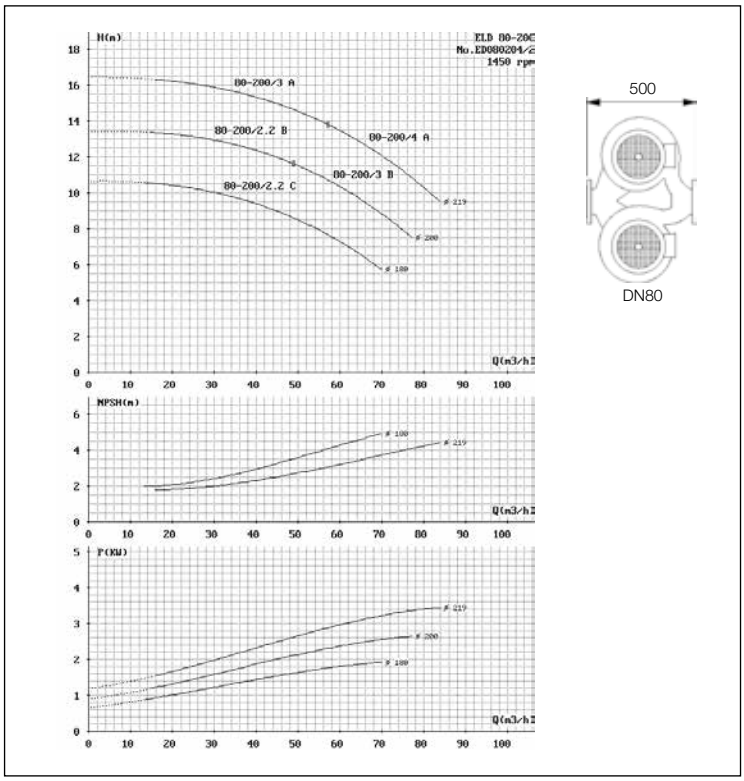
PERFORMANCE CURVES ELINED4 80-160 — 4 Poles

(per ISO 9906 Annex A)



PERFORMANCE CURVES ELINED4 80-200 — 4 Poles

(per ISO 9906 Annex A)

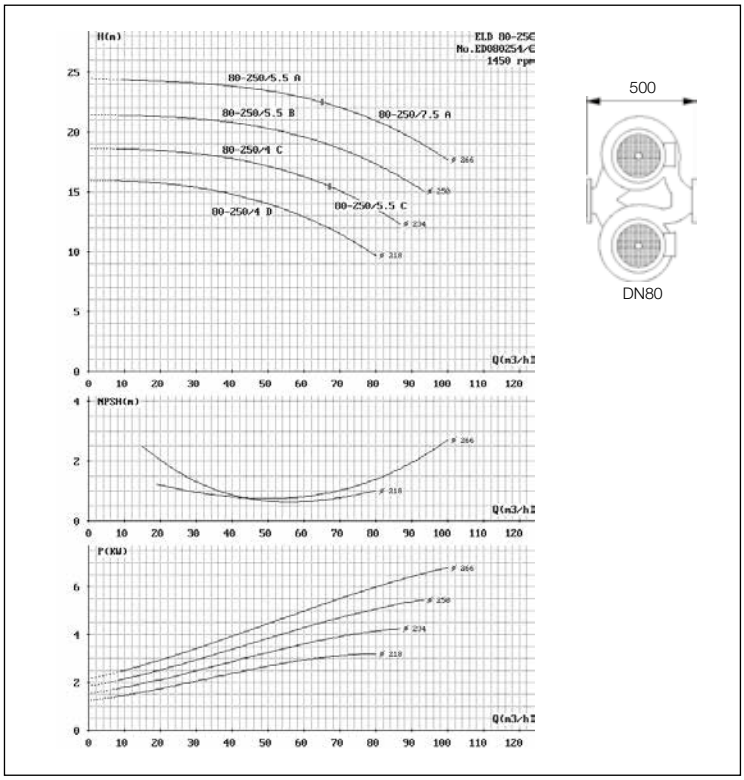


IN-LINE NORMALISED ELECTRIC PUMPS

in cast iron

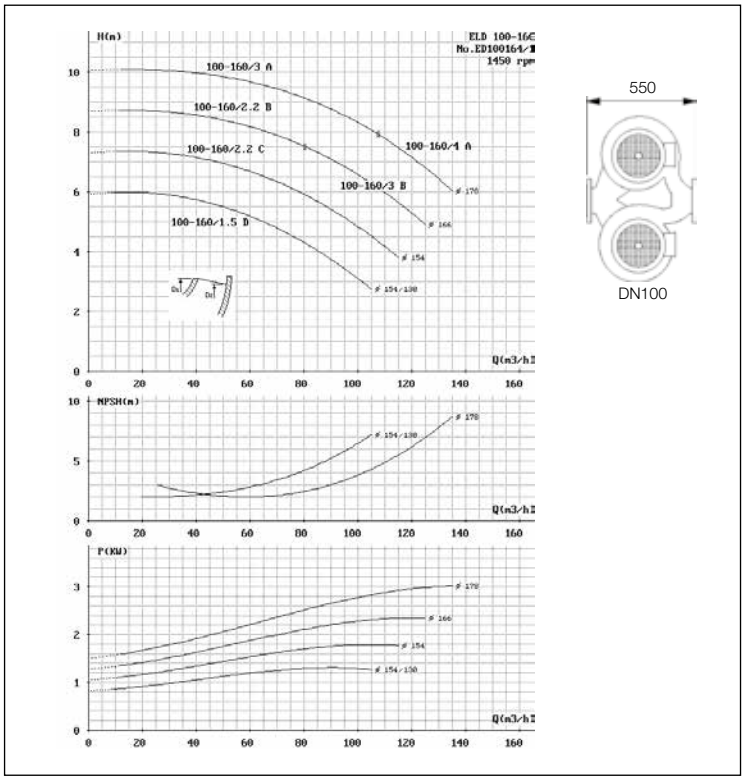
PERFORMANCE CURVES ELINED4 80-250 — 4 Poles

(per ISO 9906 Annex A)



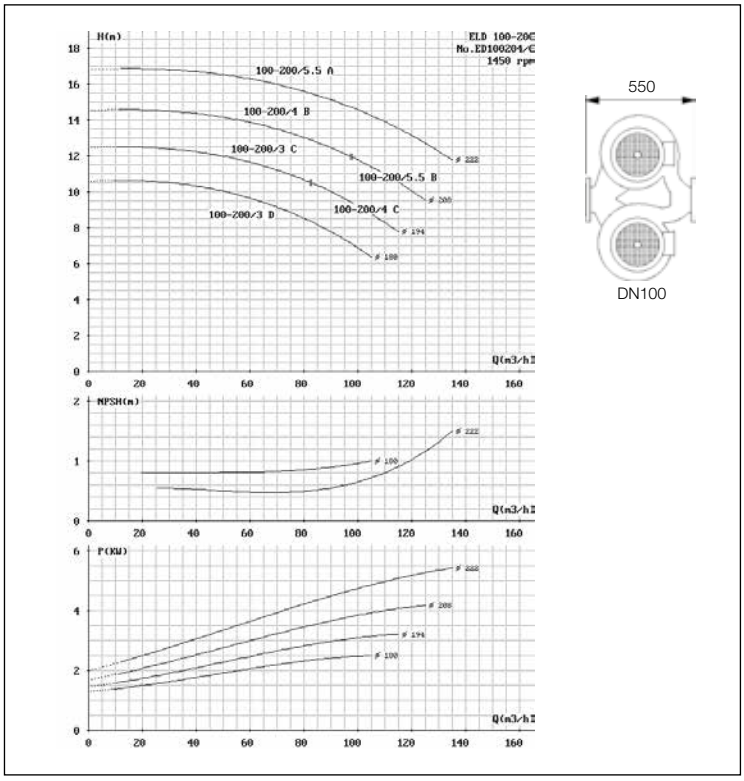
PERFORMANCE CURVES ELINED4 100-160 — 4 Poles

(per ISO 9906 Annex A)



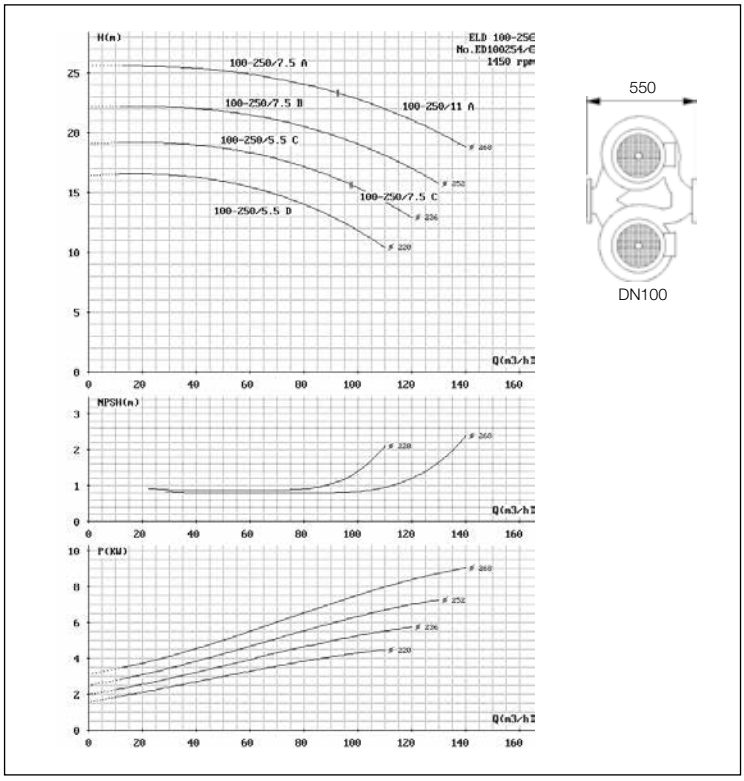
PERFORMANCE CURVES ELINED4 100-200 — 4 Poles

(per ISO 9906 Annex A)



PERFORMANCE CURVES ELINED4 100-250 — 4 Poles

(per ISO 9906 Annex A)

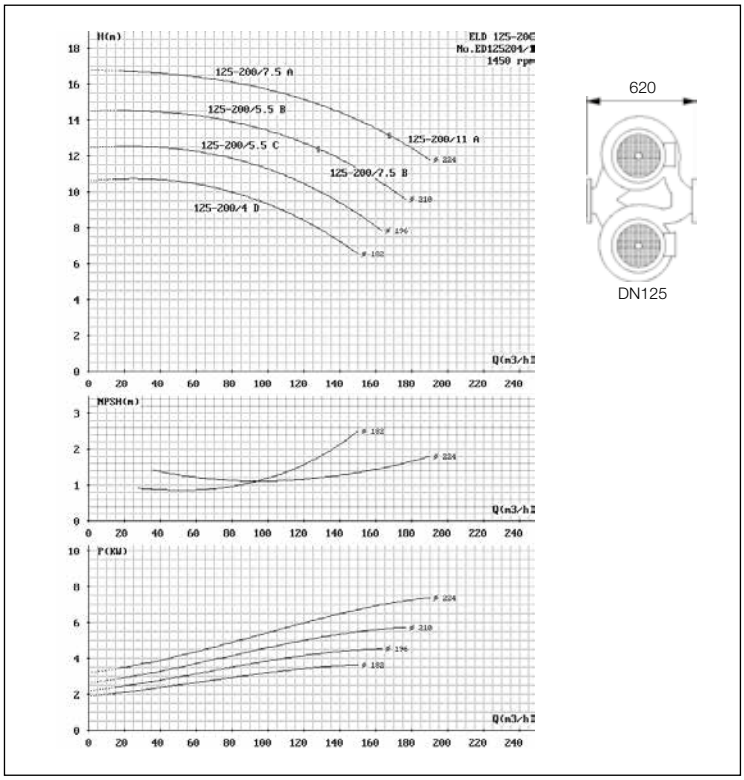


IN-LINE NORMALISED ELECTRIC PUMPS

in cast iron

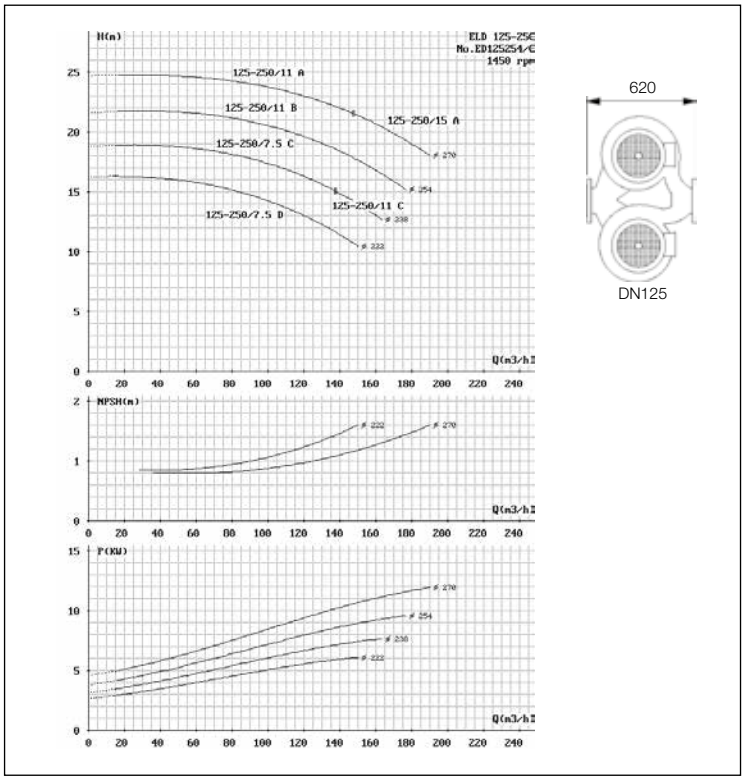
PERFORMANCE CURVES ELINED4 125-200 — 4 Poles

(per ISO 9906 Annex A)



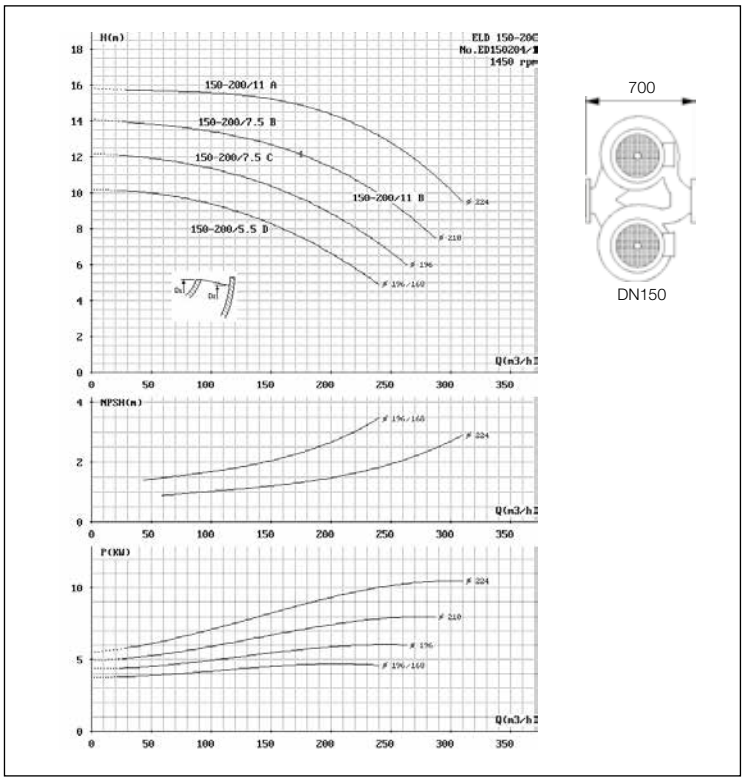
PERFORMANCE CURVES ELINED4 125-250 — 4 Poles

(per ISO 9906 Annex A)



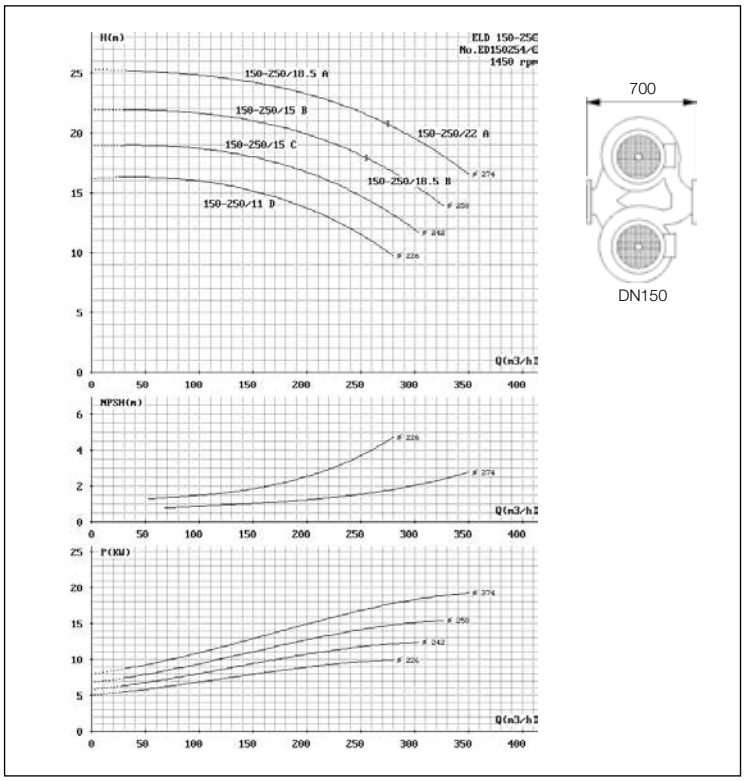
PERFORMANCE CURVES ELINED4 150-200 — 4 Poles

(per ISO 9906 Annex A)



PERFORMANCE CURVES ELINED4 150-250 — 4 Poles

(per ISO 9906 Annex A)



ELINED

IN-LINE NORMALISED ELECTRIC PUMPS

in cast iron

ELINED 32-40-50 DIMENSIONS

2 Poles

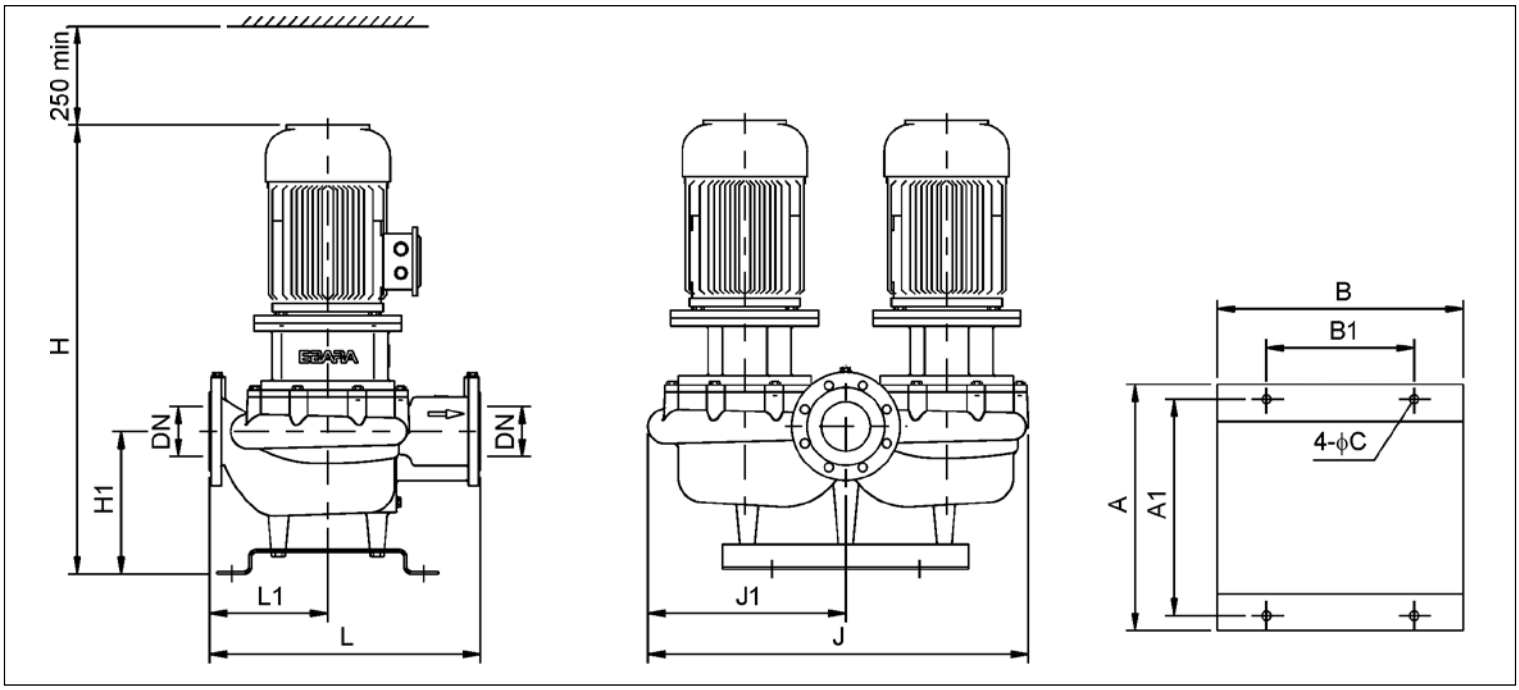


TABLE OF DIMENSIONS

2 Poles

Model	Dimensions [mm]												Weight [kg]
	DN	H1	H	L1	L	J1	J	A1	A	B1	B	C	
ELD 40-160/2.2	40	210	640	175	360	240	470	250	300	200	300	15	87.0
ELD 40-160/3	40	210	665	175	360	240	470	250	300	200	300	15	109.0
ELD 40-160/4	40	210	685	175	360	240	470	250	300	200	300	15	117.0
ELD 40-160/5.5	40	210	685	175	360	240	470	250	300	200	300	15	143.0
ELD 50-200/7.5	50	210	790	210	465	295	580	250	300	200	300	15	177.0
ELD 50-200/9.2	50	210	830	210	465	295	580	250	300	200	300	15	191.0
ELD 50-200/11	50	210	830	210	465	295	580	250	300	200	300	15	217.0
ELD 65-160/5.5	65	210	735	210	475	275	540	250	300	200	300	15	164.0
ELD 65-160/7.5	65	210	780	210	475	275	540	250	300	200	300	15	174.0
ELD 65-160/9.2	65	210	780	210	475	275	540	250	300	200	300	15	188.0
ELD 65-160/11	65	210	780	210	475	275	540	250	300	200	300	15	212.0
ELD 80-160/7.5	80	210	775	240	500	295	590	250	300	200	300	15	193.0
ELD 80-160/9.2	80	210	815	240	500	295	590	250	300	200	300	15	207.0
ELD 80-160/11	80	210	815	240	500	295	590	250	300	200	300	15	231.0
ELD 80-250/22	80	290	1020	235	500	385	765	440	500	300	500	18	380.0
ELD 80-250/30	80	290	1095	235	500	405	810	440	500	300	500	18	439.0
ELD 80-250/37	80	290	1095	235	500	405	810	440	500	300	500	18	475.0
ELD 100-160/11	100	290	1005	265	550	380	760	440	500	300	500	18	265.0
ELD 100-160/15	100	290	1005	265	550	380	760	440	500	300	500	18	281.0
ELD 100-160/18.5	100	290	1005	265	550	380	760	440	500	300	500	18	305.0
ELD 100-160/22	100	290	1005	265	550	380	760	440	500	300	500	18	343.0
ELD 100-160/30	100	290	1085	265	550	405	810	440	500	300	500	18	397.0
ELD 100-200/22	100	290	1020	265	550	385	765	440	500	300	500	18	374.0
ELD 100-200/30	100	290	1095	265	550	405	810	440	500	300	500	18	433.0
ELD 100-200/37	100	290	1095	265	550	405	810	440	500	300	500	18	469.0
ELD 100-250/30	100	290	1095	240	550	405	810	440	500	300	500	18	453.0
ELD 100-250/37	100	290	1095	240	550	405	810	440	500	300	500	18	489.0
ELD 125-200/30	125	290	1095	275	620	405	810	440	500	300	500	18	473.0
ELD 125-200/37	125	290	1095	275	620	405	810	440	500	300	500	18	509.0

IN-LINE NORMALISED ELECTRIC PUMPS

in cast iron

TABLE OF DIMENSIONS

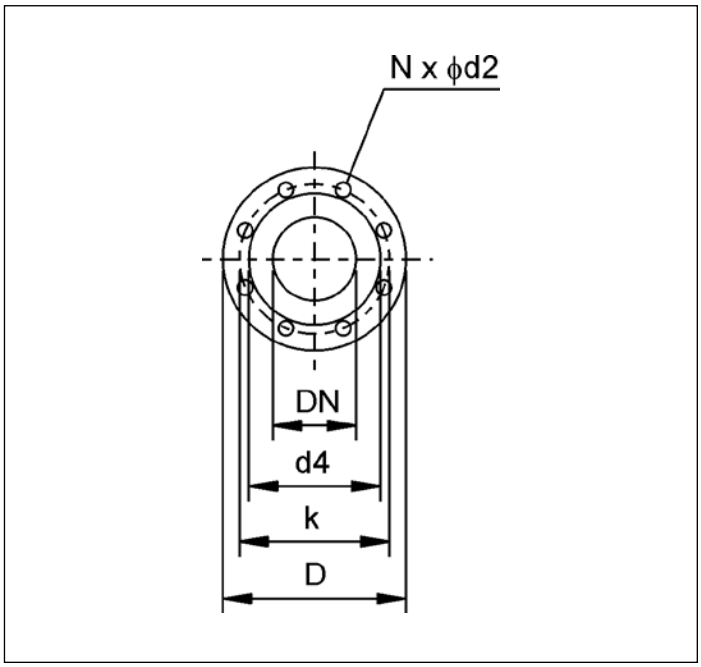
4 Poles

Model	Dimensions [mm]												Weight
	DN	H1	H	L1	L	J1	J	A1	A	B1	B	C	[kg]
ELD4 40-160/0.55	40	210	600	175	360	240	470	250	300	200	300	15	73
ELD4 40-160/0.75	40	210	600	175	360	240	470	250	300	200	300	15	77
ELD4 50-200/1.1	50	210	615	210	465	295	580	250	300	200	300	15	105
ELD4 50-200/1.5	50	210	615	210	465	295	580	250	300	200	300	15	109
ELD4 50-250/2.2	50	210	710	210	465	330	660	250	300	200	300	15	145
ELD4 50-250/3	50	210	710	210	465	330	660	250	300	200	300	15	153
ELD4 65-160/0.75	65	210	600	210	475	275	540	250	300	200	300	15	96
ELD4 65-160/1.1	65	210	640	210	475	275	540	250	300	200	300	15	102
ELD4 65-160/1.5	65	210	640	210	475	275	540	250	300	200	300	15	106
ELD4 65-160/2.2	65	210	710	210	475	275	540	250	300	200	300	15	112
ELD4 65-200/1.5	65	210	640	210	475	310	610	250	300	200	300	15	119
ELD4 65-200/2.2	65	210	710	210	475	310	610	250	300	200	300	15	131
ELD4 65-200/3	65	210	710	210	475	310	610	250	300	200	300	15	141
ELD4 65-250/2.2	65	210	710	210	475	360	710	250	300	200	300	15	158
ELD4 65-250/3	65	210	710	210	475	360	710	250	300	200	300	15	166
ELD4 65-250/4	65	210	710	210	475	360	710	250	300	200	300	15	178
ELD4 65-250/5.5	65	210	790	210	475	360	710	250	300	200	300	15	201
ELD4 80-160/1.1	80	210	640	240	500	295	590	250	300	200	300	15	113
ELD4 80-160/1.5	80	210	640	240	500	295	590	250	300	200	300	15	117
ELD4 80-160/2.2	80	210	710	240	500	295	590	250	300	200	300	15	131
ELD4 80-200/2.2	80	210	710	220	500	340	665	250	300	200	300	15	143
ELD4 80-200/3	80	210	710	220	500	340	665	250	300	200	300	15	151
ELD4 80-200/4	80	210	710	220	500	340	665	250	300	200	300	15	163
ELD4 80-250/4	80	290	825	235	500	385	755	440	500	300	500	18	230
ELD4 80-250/5.5	80	290	910	235	500	385	755	440	500	300	500	18	256
ELD4 80-250/7.5	80	290	910	235	500	385	755	440	500	300	500	18	276
ELD4 100-160/1.5	100	290	745	265	550	370	715	440	500	300	500	18	176
ELD4 100-160/2.2	100	290	815	265	550	370	715	440	500	300	500	18	190
ELD4 100-160/3	100	290	815	265	550	370	715	440	500	300	500	18	198
ELD4 100-160/4	100	290	815	265	550	370	715	440	500	300	500	18	210
ELD4 100-200/3	100	290	825	265	550	385	750	440	500	300	500	18	212
ELD4 100-200/4	100	290	825	265	550	385	750	440	500	300	500	18	224
ELD4 100-200/5.5	100	290	910	265	550	385	750	440	500	300	500	18	250
ELD4 100-250/5.5	100	290	910	240	550	405	790	440	500	300	500	18	270
ELD4 100-250/7.5	100	290	910	240	550	405	790	440	500	300	500	18	290
ELD4 100-250/11	100	290	1020	240	550	405	790	440	500	300	500	18	332
ELD4 125-200/4	125	290	825	275	620	400	775	440	500	300	500	18	264
ELD4 125-200/5.5	125	290	910	275	620	400	775	440	500	300	500	18	290
ELD4 125-200/7.5	125	290	910	275	620	400	775	440	500	300	500	18	310
ELD4 125-200/11	125	290	1020	275	620	400	780	440	500	300	500	18	352
ELD4 125-250/7.5	125	290	910	275	620	420	815	440	500	300	500	18	335
ELD4 125-250/11	125	290	1020	275	620	420	815	440	500	300	500	18	377
ELD4 125-250/15	125	290	1020	275	620	420	815	440	500	300	500	18	403
ELD4 150-200/5.5	150	315	940	275	700	485	930	440	500	300	500	18	371
ELD4 150-200/7.5	150	315	940	275	700	485	930	440	500	300	500	18	391
ELD4 150-200/11	150	315	1045	275	700	485	930	440	500	300	500	18	433
ELD4 150-250/11	150	315	1045	275	700	495	955	440	500	300	500	18	445
ELD4 150-250/15	150	315	1045	275	700	495	955	440	500	300	500	18	471
ELD4 150-250/18.5	150	315	1045	275	700	495	955	440	500	300	500	18	517
ELD4 150-250/22	150	315	1045	275	700	495	955	440	500	300	500	18	589

IN-LINE NORMALISED ELECTRIC PUMPS

in cast iron

FLANGE DIMENSIONS



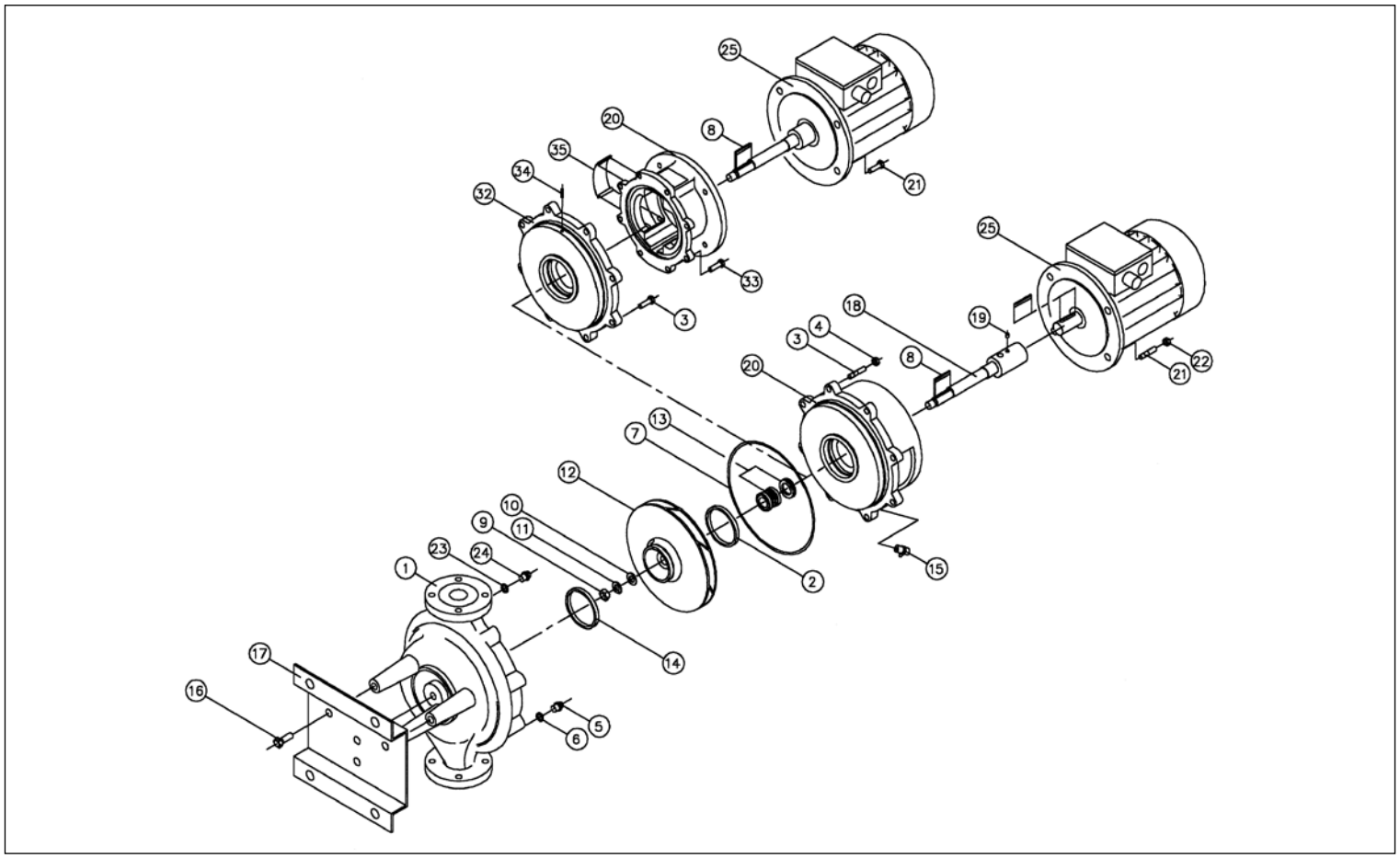
DIN 2532 PN10				
DN	d4	k	D	N x d2
40	88	110	150	4 x 18
50	102	125	165	4 x 18
65	122	145	185	4 x 18
80	138	160	200	8 x 18
100	158	180	220	8 x 18
125	188	210	250	8 x 18
150	212	240	285	8 x 22
200	268	295	340	8 x 22

ELINED

IN-LINE NORMALISED ELECTRIC PUMPS

in cast iron

ELINED - ELINED 4 SECTIONAL VIEW



MATERIALS TABLE

Ref.	Name	Material	Ref.	Name	Material
1	Pump body	Cast iron (GG-25)	16	Basement mounting bolts	DIN 933 5.6
2	Clearance ring (delivery side)	Cast iron (GG-25)	17	Base	AE-275CUNE3608
3	Lantern mounting bolt	DIN 939 5.6	18	Shaft	Stainless steel (AISI 316)
4	Lantern mounting nut	DIN 934 Zinc	19	Set of bolts	DIN 916 A2
5	Pressure gauge mounting cap	DIN 910	20	Lantern	Cast iron (GG-25)
6	O-Ring for pressure gauge cap	Aluminium	21	Lantern motor mounting bolts	DIN 939 5.6
7	Lantern gasket	BELPA CSA-25	22	Lantern motor mounting nuts	DIN 934
8	Impeller key	DIN 6885 X5CRNIMO18-10	23	Pressure gauge cap gasket (optional)	DIN 910
9	Impeller nut	Brass	24	Pressure gauge cap (optional)	Aluminium
10	Impeller nut washer	DIN 127 A2	25	Motor	-
11	Impeller washer	DIN 125 300HV	32	Seal disk	Cast iron (GG-25)
12	Impeller	Cast iron (GG-20)	33	Bolt	DIN 939 5.6
13	Mechanical seal	Carbon-Ceramic	34	Retainer stud	DIN 1481
14	Clearance ring (suction side)	Cast iron (GG-25)	35	Lateral guards	Aluminium
15	Air vent	Brass			

ELINED

IN-LINE NORMALISED ELECTRIC PUMPS

in cast iron

ELECTRICAL DATA TABLE — 2 Poles

Model Three phase 230/400V 400/690V	P_2 [HP]	P_2 [kW]	Motor	Efficiency (%) Three phase η %	cosΦ	Absorbed current [A] Three phase 400V
ELD 40-160/2.2	3	2.2	90L	86.3	0.83	4.43
ELD 40-160/3	4	3	100L*	87.3	0.86	5.77
ELD 40-160/4	5.5	4	112M*	88.4	0.86	7.59
ELD 40-160/5.5	7.5	5.5	112M*(1)	89.4	0.84	10.6
ELD 50-200/7.5	10	7.5	132S*	90.3	0.85	14.1
ELD 50-200/9.2	12.5	9.2	132M*	90.7	0.88	16.6
ELD 50-200/11	15	11	132M*(1)	91.4	0.87	20.0
ELD 65-160/5.5	7.5	5.5	112M(1)	89.4	0.84	10.6
ELD 65-160/7.5	10	7.5	132S*	90.3	0.85	14.1
ELD 65-160/9.2	12.5	9.2	132M*	90.7	0.88	16.6
ELD 65-160/11	15	11	132M*(1)	91.4	0.87	20.0
ELD 80-160/7.5	10	7.5	132S*	90.3	0.85	14.1
ELD 80-160/9.2	12.5	9.2	132M*	90.7	0.88	16.6
ELD 80-160/11	15	11	132M*(1)	91.4	0.87	20.0
ELD 80-250/22	30	22	180M	92.9	0.86	39.7
ELD 80-250/30	40	30	200L	93.5	0.85	54.5
ELD 80-250/37	50	37	200L	93.8	0.84	67.8
ELD 100-160/11	15	11	160M	91.4	0.87	20.0
ELD 100-160/15	20	15	160M	92.1	0.85	27.7
ELD 100-160/18.5	25	18.5	160L	92.6	0.85	33.9
ELD 100-160/22	30	22	180M	92.9	0.86	39.7
ELD 100-160/30	40	30	200L	93.5	0.85	54.5
ELD 100-200/22	30	22	180M	92.9	0.86	39.7
ELD 100-200/30	40	30	200L	93.5	0.85	54.5
ELD 100-200/37	50	37	200L	93.8	0.84	67.8
ELD 100-250/30	40	30	200L	93.5	0.85	54.5
ELD 100-250/37	50	37	200L	93.8	0.84	67.8
ELD 125-200/30	40	30	200L	93.5	0.85	54.5
ELD 125-200/37	50	37	200L	93.8	0.84	67.8

* Motor with undersized flange

(1) Non-standard mounting.

ELECTRICAL DATA TABLE — 4 Poles

Model Three phase 230/400V 400/690V	P_2 [HP]	P_2 [kW]	Motor	Efficiency (%) Three phase η %	cosΦ	Absorbed current [A] Three phase 400V
ELD4 40-160/0.55	0.75	0.55	80	80.8	0.80	1.23
ELD4 40-160/0.75	1	0.75	80	82.5	0.81	1.62
ELD4 50-200/1.1	1.5	1.1	90S	84.5	0.80	2.35
ELD4 50-200/1.5	2	1.5	90L	85.5	0.80	3.17
ELD4 50-250/2.2	3	2.2	100L	87.0	0.80	4.56
ELD4 50-250/3	4	3	100L	88.0	0.80	6.15
ELD4 65-160/0.75	1	0.75	80	82.5	0.81	1.62
ELD4 65-160/1.1	1.5	1.1	90S	84.5	0.80	2.35
ELD4 65-160/1.5	2	1.5	90L	85.5	0.80	3.17
ELD4 65-160/2.2	3	2.2	100L	87.0	0.80	4.56
ELD4 65-200/1.5	2	1.5	90L	85.5	0.80	3.17
ELD4 65-200/2.2	3	2.2	100L	87.0	0.80	4.56
ELD4 65-200/3	4	3	100L	88.0	0.80	6.15
ELD4 65-250/2.2	3	2.2	100L	87.0	0.80	4.56
ELD4 65-250/3	4	3	100L	88.0	0.80	6.15
ELD4 65-250/4	5.5	4	112M	88.8	0.81	8.03
ELD4 65-250/5.5	7.5	5.5	132S	89.7	0.85	10.4
ELD4 80-160/1.1	1.5	1.1	90S	84.5	0.80	2.35
ELD4 80-160/1.5	2	1.5	90L	85.5	0.80	3.17
ELD4 80-160/2.2	3	2.2	100L	87.0	0.80	4.56
ELD4 80-200/2.2	3	2.2	100L	87.0	0.80	4.56
ELD4 80-200/3	4	3	100L	88.0	0.80	6.15
ELD4 80-200/4	5.5	4	112M	88.8	0.81	8.03
ELD4 80-250/4	5.5	4	112M	88.8	0.81	8.03
ELD4 80-250/5.5	7.5	5.5	132S	89.7	0.85	10.4
ELD4 80-250/7.5	10	7.5	132M	90.6	0.86	13.9
ELD4 100-160/1.5	2	1.5	90L	85.5	0.80	3.17
ELD4 100-160/2.2	3	2.2	100L	87.0	0.80	4.56
ELD4 100-160/3	4	3	100L	88.0	0.80	6.15
ELD4 100-160/4	5.5	4	112M	88.8	0.81	8.03
ELD4 100-200/3	4	3	100L	88.0	0.80	6.15
ELD4 100-200/4	5.5	4	112M	88.8	0.81	8.03
ELD4 100-200/5.5	7.5	5.5	132S	89.7	0.85	10.4
ELD4 100-250/5.5	7.5	5.5	132S	89.7	0.85	10.4
ELD4 100-250/7.5	10	7.5	132M	90.6	0.86	13.9
ELD4 100-250/11	15	11	160M	91.6	0.83	20.9
ELD4 125-200/4	5.5	4	112M	88.8	0.81	8.03
ELD4 125-200/5.5	7.5	5.5	132S	89.7	0.85	10.4
ELD4 125-200/7.5	10	7.5	132M	90.6	0.86	13.9
ELD4 125-200/11	15	11	160M	91.6	0.83	20.9
ELD4 125-250/7.5	10	7.5	132M	90.6	0.86	13.9
ELD4 125-250/11	15	11	160M	91.6	0.83	20.9
ELD4 125-250/15	20	15	160L	92.3	0.84	27.9
ELD4 150-200/5.5	7.5	5.5	132S	89.7	0.85	10.4
ELD4 150-200/7.5	10	7.5	132M	90.6	0.86	13.9
ELD4 150-200/11	15	11	160M	91.6	0.83	20.9
ELD4 150-250/11	15	11	160M	91.6	0.83	20.9
ELD4 150-250/15	20	15	160L	92.3	0.84	27.9
ELD4 150-250/18.5	25	18.5	180M	92.8	0.82	35.1
ELD4 150-250/22	30	22	180L	93.2	0.83	41.0

ELINED

IN-LINE NORMALISED ELECTRIC PUMPS

in cast iron

NOISE DATA TABLE — 2 Poles

Model	P_2 [HP]	P_2 [kW]	L_{pA} - dB(A)
ELD 40-160/2.2	3	2.2	65
ELD 40-160/3	4	3	66
ELD 40-160/4	5.5	4	
ELD 40-160/5.5	7.5	5.5	72
ELD 50-200/7.5	10	7.5	72
ELD 50-200/9.2	12.5	9.2	
ELD 50-200/11	15	11	
ELD 65-160/5.5	7.5	5.5	72
ELD 65-160/7.5	10	7.5	
ELD 65-160/9.2	12.5	9.2	
ELD 65-160/11	15	11	
ELD 80-160/7.5	10	7.5	72
ELD 80-160/9.2	12.5	9.2	
ELD 80-160/11	15	11	
ELD 80-250/22	30	22	
ELD 80-250/30	40	30	73
ELD 80-250/37	50	37	
ELD 100-160/11	15	11	72
ELD 100-160/15	20	15	
ELD 100-160/18.5	25	18.5	
ELD 100-160/22	30	22	
ELD 100-160/30	40	30	73
ELD 100-200/22	30	22	72
ELD 100-200/30	40	30	73
ELD 100-200/37	50	37	
ELD 100-250/30	40	30	
ELD 100-250/37	50	37	
ELD 125-200/30	40	30	73
ELD 125-200/37	50	37	

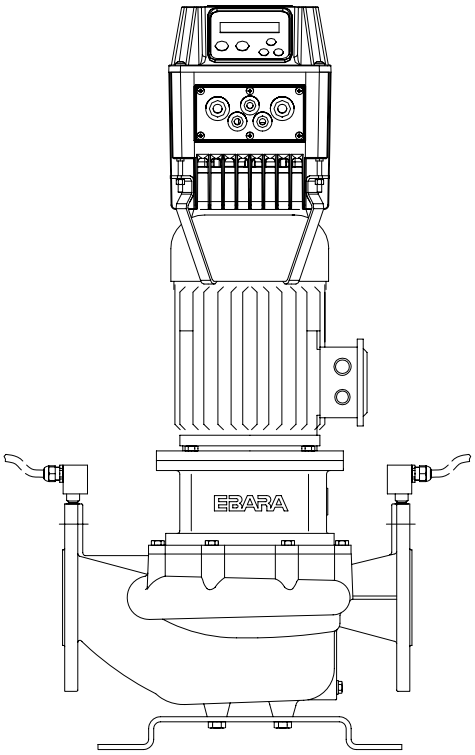
NOISE DATA TABLE — 4 Poles

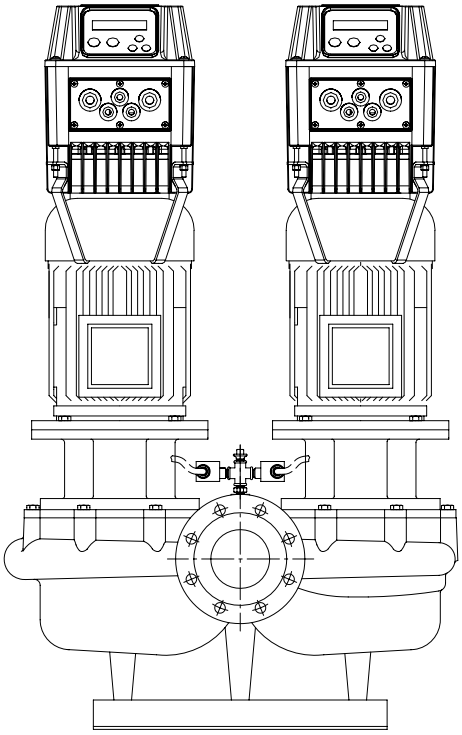
Model	P_2 [HP]	P_2 [kW]	L_{pA} - dB(A)
ELD4 40-160/0.55	0.75	0.55	45
ELD4 40-160/0.75	1	0.75	
ELD4 50-200/1.1	1.5	1.1	48
ELD4 50-200/1.5	2	1.5	
ELD4 50-250/2.2	3	2.2	
ELD4 50-250/3	4	3	
ELD4 65-160/0.75	1	0.75	45
ELD4 65-160/1.1	1.5	1.1	48
ELD4 65-160/1.5	2	1.5	
ELD4 65-160/2.2	3	2.2	
ELD4 65-200/1.5	2	1.5	
ELD4 65-200/2.2	3	2.2	
ELD4 65-200/3	4	3	
ELD4 65-250/2.2	3	2.2	
ELD4 65-250/3	4	3	
ELD4 65-250/4	5.5	4	49
ELD4 65-250/5.5	7.5	5.5	58
ELD4 80-160/1.1	1.5	1.1	48
ELD4 80-160/1.5	2	1.5	
ELD4 80-160/2.2	3	2.2	
ELD4 80-200/2.2	3	2.2	
ELD4 80-200/3	4	3	
ELD4 80-200/4	5.5	4	49
ELD4 80-250/4	5.5	4	
ELD4 80-250/5.5	7.5	5.5	58
ELD4 80-250/7.5	10	7.5	62
ELD4 100-160/1.5	2	1.5	48
ELD4 100-160/2.2	3	2.2	
ELD4 100-160/3	4	3	
ELD4 100-160/4	5.5	4	49
ELD4 100-200/3	4	3	48
ELD4 100-200/4	5.5	4	49
ELD4 100-200/5.5	7.5	5.5	58
ELD4 100-250/5.5	7.5	5.5	
ELD4 100-250/7.5	10	7.5	62
ELD4 100-250/11	15	11	
ELD4 125-200/4	5.5	4	49
ELD4 125-200/5.5	7.5	5.5	58
ELD4 125-200/7.5	10	7.5	62
ELD4 125-200/11	15	11	
ELD4 125-250/7.5	10	7.5	
ELD4 125-250/11	15	11	
ELD4 125-250/15	20	15	
ELD4 150-200/5.5	7.5	5.5	58
ELD4 150-200/7.5	10	7.5	62
ELD4 150-200/11	15	11	
ELD4 150-250/11	15	11	
ELD4 150-250/15	20	15	
ELD4 150-250/18.5	25	18.5	64
ELD4 150-250/22	30	22	

ELINE ELINED WITH E-drive

IN-LINE ELECTRONIC NORMALISED ELECTRIC PUMPS + INVERTER

in cast iron





In-line centrifugal single and twin electric pumps with hydraulic equipment in cast iron, single impeller, designed to satisfy DIN 24255. Equipped with normalised motor combined with on-board inverter.

APPLICATIONS

- Heating and air conditioning systems
- Cooling and hot water systems
- Industrial: pumping clean, chemically neutral fluids without abrasive particles in suspension

TECHNICAL FEATURES

- Direct mounting to pipes with supplementary mounts up to 3 kW power rating
- Very silent running
- Reduced size
- Ease of installation and removal
- Low maintenance
- Energy and cost savings
- Extended system service life
- Lower stress on wear parts (mechanical seals, bearings, etc.)

PUMP TECHNICAL DATA

- Maximum operating pressure: 10 bar
- Fluid temperature: -10 ÷ +120°C (+140°C on request)
- Admitted fluids: clean, chemically neutral and without suspended particles
- Flanges (delivery and suction): DN 40 to DN 200

MOTOR TECHNICAL DATA

- Three phase asynchronous motor, 2 and 4 poles
- Speed: 2900 – 1450 rpm
- Insulation class: F
- Protection rating: IP55
- Ambient temperature: 40°C
- Voltage:

- 3~230/400V ±10% (for power ≤ 4 kW)
- 3~400/690V ±10% (for power > 4 kW)

- Frequency: 50 Hz (60Hz available on request)

E-DRIVE TECHNICAL DATA

- See page 232

MATERIALS

- Pump body and lantern in cast iron (GG-25)
- Cast iron impeller (GG-20)
- Shaft made of AISI 316 stainless steel
- Mechanical seal in graphite/ceramic
- Gasket/O-ring in paper/NBR

ACCESSORIES AND OPTIONS (on request)

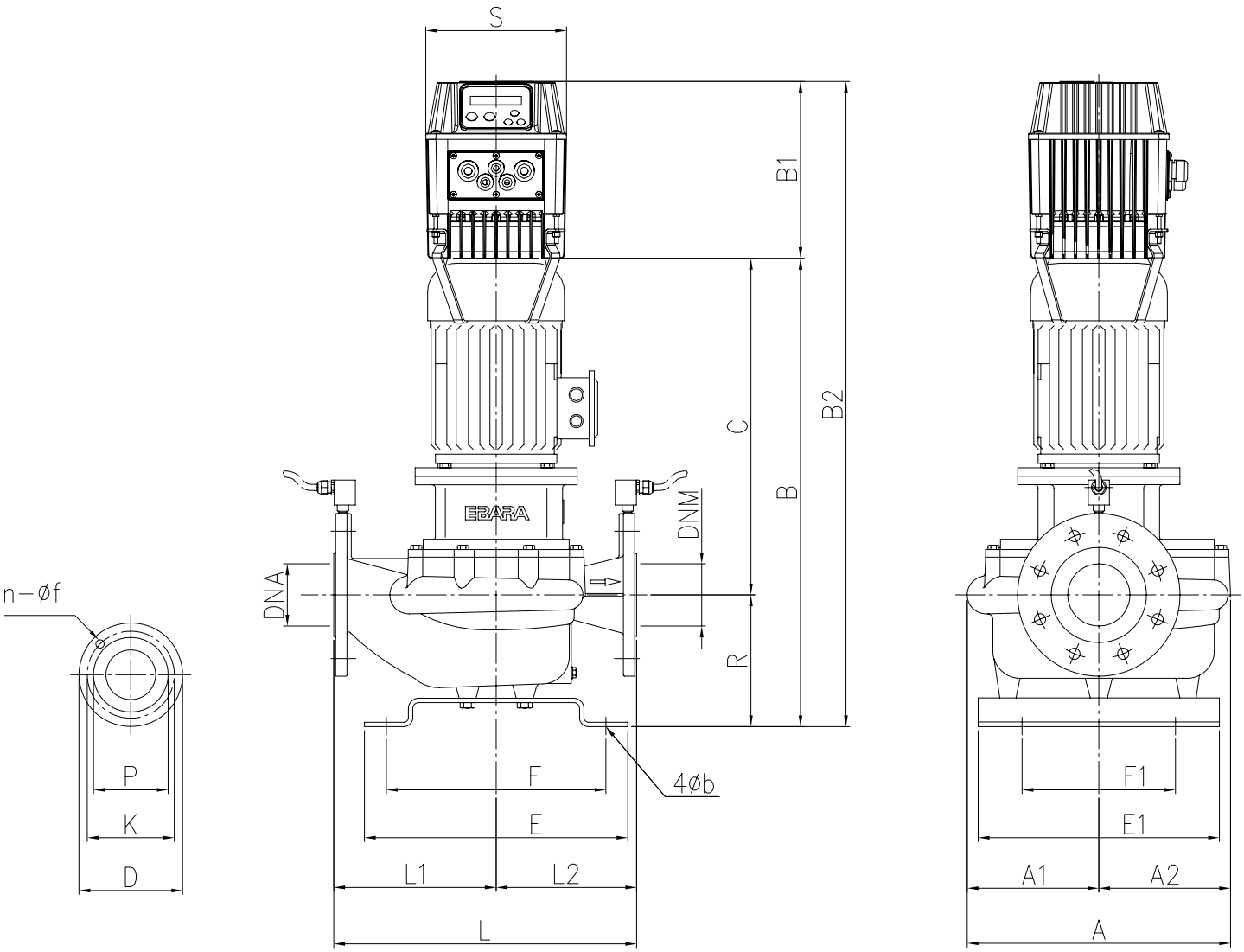
- Anti-condensation heating elements
- Temperature sensors (PT100), thermistors (PTC)

ELINE ELINED WITH E-drive

IN-LINE ELECTRONIC NORMALISED ELECTRIC PUMPS + INVERTER

in cast iron

ELINE(4) + E-*drive* **2 and 4 poles**



ELINE ELINED WITH E-drive

IN-LINE ELECTRONIC NORMALISED ELECTRIC PUMPS + INVERTER

in cast iron

TABLE OF DIMENSIONS ELINE + E-*drive*

2 Poles

Model	Dimensions [mm]																							Weight [kg] Pump + E-*drive*
	DNA	DNM	n	f	P	K	D	B	R	C	B1	B2	S	L	L1	L2	A	A1	A2	E	F	E1	F1	b	
EL 40-125/1.5 C [MT]	DN40	DN40	4	18	88	110	150	565	135	430	228	793	181	300	160	140	220	110	110	300	250	300	200	15	46.4
EL 40-125/2.2 A	DN40	DN40	4	18	88	110	150	565	135	430	228	793	181	300	160	140	220	110	110	300	250	300	200	15	49.4
EL 40-125/2.2 B	DN40	DN40	4	18	88	110	150	565	135	430	228	793	181	300	160	140	220	110	110	300	250	300	200	15	49.4
EL 40-125/3 A	DN40	DN40	4	18	88	110	150	635	135	500	228	863	181	300	160	140	250	125	125	300	250	300	200	15	50.4
EL 40-160/2.2 C	DN40	DN40	4	18	88	110	150	570	140	430	228	798	181	340	180	160	230	120	110	300	250	300	200	15	49.4
EL 40-160/3 B	DN40	DN40	4	18	88	110	150	640	140	500	228	868	181	340	180	160	250	125	125	300	250	300	200	15	60.4
EL 40-160/4 A	DN40	DN40	4	18	88	110	150	640	140	500	228	868	181	340	180	160	250	125	125	300	250	300	200	15	64.4
EL 40-160/4 B	DN40	DN40	4	18	88	110	150	640	140	500	228	868	181	340	180	160	250	125	125	300	250	300	200	15	64.4
EL 40-160/5.5 A	DN40	DN40	4	18	88	110	150	725	140	585	180	905	260	340	180	160	300	150	150	300	250	300	200	15	80.0
EL 50-125/1.5 C [MT]	DN50	DN50	4	18	102	125	165	570	140	430	228	798	181	310	170	140	220	110	110	300	250	300	200	15	46.4
EL 50-125/2.2 B	DN50	DN50	4	18	102	125	165	570	140	430	228	798	181	310	170	140	220	110	110	300	250	300	200	15	46.4
EL 50-125/2.2 C	DN50	DN50	4	18	102	125	165	570	140	430	228	798	181	310	170	140	220	110	110	300	250	300	200	15	46.4
EL 50-125/3 A	DN50	DN50	4	18	102	125	165	640	140	500	228	868	181	310	170	140	250	125	125	300	250	300	200	15	60.4
EL 50-125/3 B	DN50	DN50	4	18	102	125	165	640	140	500	228	868	181	310	170	140	250	125	125	300	250	300	200	15	60.4
EL 50-125/4 A	DN50	DN50	4	18	102	125	165	640	140	500	228	868	181	310	170	140	250	125	125	300	250	300	200	15	64.4
EL 50-160/4 C	DN50	DN50	4	18	102	125	165	645	145	500	228	873	181	350	190	160	260	135	125	300	250	300	200	15	66.4
EL 50-160/5.5 B	DN50	DN50	4	18	102	125	165	730	145	585	180	910	260	350	190	160	300	150	150	300	250	300	200	15	86.0
EL 50-160/7.5 A	DN50	DN50	4	18	102	125	165	730	145	585	180	910	260	350	190	160	300	150	150	300	250	300	200	15	91.0
EL 50-200/7.5 C	DN50	DN50	4	18	102	125	165	730	145	585	180	910	260	380	200	180	285	150	135	300	250	300	200	15	95.0
EL 50-200/9.2 B	DN50	DN50	4	18	102	125	165	730	145	585	180	910	260	380	200	180	285	150	135	300	250	300	200	15	103.0
EL 50-200/11 A	DN50	DN50	4	18	102	125	165	910	145	765	180	1090	260	380	200	180	350	175	175	500	440	500	300	18	120.0
EL 50-200/11 B	DN50	DN50	4	18	102	125	165	910	145	765	180	1090	260	380	200	180	350	175	175	500	440	500	300	18	120.0
EL 50-200/15 A	DN50	DN50	4	18	102	125	165	910	145	765	180	1090	260	380	200	180	350	175	175	500	440	500	300	18	129.0
EL 50-250/11 C	DN50	DN50	4	18	102	125	165	920	155	765	180	1100	260	460	230	230	350	175	175	500	440	500	300	18	114.0
EL 50-250/15 C	DN50	DN50	4	18	102	125	165	920	155	765	180	1100	260	460	230	230	350	175	175	500	440	500	300	18	122.0
EL 50-250/15 B	DN50	DN50	4	18	102	125	165	920	155	765	180	1100	260	460	230	230	350	175	175	500	440	500	300	18	122.0
EL 65-125/3 C	DN65	DN65	4	18	122	145	185	650	150	500	228	878	181	345	185	160	255	130	125	300	250	300	200	15	60.4
EL 65-125/4 B	DN65	DN65	4	18	122	145	185	650	150	500	228	878	181	345	185	160	255	130	125	300	250	300	200	15	65.4
EL 65-125/4 C	DN65	DN65	4	18	122	145	185	650	150	500	228	878	181	345	185	160	255	130	125	300	250	300	200	15	65.4
EL 65-125/5.5 A	DN65	DN65	4	18	122	145	185	735	150	585	180	915	260	345	185	160	300	150	150	300	250	300	200	15	105.0
EL 65-125/5.5 B	DN65	DN65	4	18	122	145	185	735	150	585	180	915	260	345	185	160	300	150	150	300	250	300	200	15	105.0
EL 65-125/7.5 A	DN65	DN65	4	18	122	145	185	735	150	585	180	915	260	345	185	160	300	150	150	300	250	300	200	15	90.0
EL 65-160/5.5 C	DN65	DN65	4	18	122	145	185	740	155	585	180	920	260	380	200	180	300	150	150	300	250	300	200	15	89.0
EL 65-160/7.5 B	DN65	DN65	4	18	122	145	185	740	155	585	180	920	260	380	200	180	300	150	150	300	250	300	200	15	94.0
EL 65-160/9.2 A	DN65	DN65	4	18	122	145	185	740	155	585	180	920	260	380	200	180	300	150	150	300	250	300	200	15	101.0
EL 65-160/9.2 B	DN65	DN65	4	18	122	145	185	740	155	585	180	920	260	380	200	180	300	150	150	300	250	300	200	15	101.0
EL 65-160/11 A	DN65	DN65	4	18	122	145	185	740	155	585	180	920	260	380	200	180	300	150	150	300	250	300	200	15	113.0
EL 65-200/15 C	DN65	DN65	4	18	122	145	185	925	160	765	180	1105	260	415	215	200	350	175	175	500	440	500	300	18	118.0
EL 65-200/15 B	DN65	DN65	4	18	122	145	185	925	160	765	180	1105	260	415	215	200	350	175	175	500	440	500	300	18	118.0
EL 80-125/4 C	DN80	DN80	8	18	138	160	200	655	155	500	228	883	181	420	240	180	275	150	125	300	250	300	200	15	73.4
EL 80-125/5.5 B	DN80	DN80	8	18	138	160	200	740	155	585	180	920	260	420	240	180	300	150	150	300	250	300	200	15	93.0
EL 80-125/7.5 A	DN80	DN80	8	18	138	160	200	740	155	585	180	920	260	420	240	180	300	150	150	300	250	300	200	15	98.0
EL 80-160/7.5 C	DN80	DN80	8	18	138	160	200	755	170	585	180	935	260	440	240	200	305	155	150	300	250	300	200	15	102.0
EL 80-160/9.2 C	DN80	DN80	8	18	138	160	200	755	170	585	180	935	260	440	240	200	305	155	150	300	250	300	200	15	109.0
EL 80-160/11 B	DN80	DN80	8	18	138	160	200	935	170	765	180	1115	260	440	240	200	350	175	175	500	440	500	300	18	125.0
EL 80-160/15 B	DN80	DN80	8	18	138	160	200	935	170	765	180	1115	260	440	240	200	350	175	175	500	440	500	300	18	133.0
EL 80-160/15 A	DN80	DN80	8	18	138	160	200	935	170	765	180	1115	260	440	240	200	350	175	175	500	440	500	300	18	133.0
EL 80-200/15 C	DN80	DN80	8	18	138	160	200	935	170	765	180	1115	260	480	255	225	350	175	175	500	440	500	300	18	138.0
EL 100-160/15 C	DN100	DN100	8	18	158	180	220	960	195	765	180	1140	260	495	270	225	350	175	175	500	440	500	300	18	141.0

ELINE ELINED WITH E-drive

IN-LINE ELECTRONIC NORMALISED ELECTRIC PUMPS + INVERTER

in cast iron

TABLE OF DIMENSIONS ELINE4 + E-*drive*

4 Poles

Model	Dimensions [mm]																							Weight [kg]
	DNA	DNM	n	f	P	K	D	B	R	C	B1	B2	S	L	L1	L2	A	A1	A2	E	F	E1	F1	b	Pump + E-*drive*
EL4 40-125/0.55 A [MT]	DN40	DN40	4	18	88	110	150	525	135	660	228	753	181	300	160	140	220	110	110	300	250	300	200	15	42.4
EL4 40-125/0.55 B [MT]	DN40	DN40	4	18	88	110	150	525	135	660	228	753	181	300	160	140	220	110	110	300	250	300	200	15	42.4
EL4 40-125/0.55 C [MT]	DN40	DN40	4	18	88	110	150	525	135	660	228	753	181	300	160	140	220	110	110	300	250	300	200	15	42.4
EL4 40-160/0.55 A [MT]	DN40	DN40	4	18	88	110	150	530	140	670	228	758	181	340	180	160	230	120	110	300	250	300	200	15	42.4
EL4 40-160/0.55 B [MT]	DN40	DN40	4	18	88	110	150	530	140	670	228	758	181	340	180	160	230	120	110	300	250	300	200	15	42.4
EL4 40-160/0.55 C [MT]	DN40	DN40	4	18	88	110	150	530	140	670	228	758	181	340	180	160	230	120	110	300	250	300	200	15	42.4
EL4 40-160/0.75 A [MT]	DN40	DN40	4	18	88	110	150	530	140	670	228	758	181	340	180	160	230	120	110	300	250	300	200	15	44.4
EL4 50-125/0.55 A [MT]	DN50	DN50	4	18	102	125	165	530	140	670	228	758	181	310	170	140	220	110	110	300	250	300	200	15	42.4
EL4 50-125/0.55 B [MT]	DN50	DN50	4	18	102	125	165	530	140	670	228	758	181	310	170	140	220	110	110	300	250	300	200	15	42.4
EL4 50-125/0.55 C [MT]	DN50	DN50	4	18	102	125	165	530	140	670	228	758	181	310	170	140	220	110	110	300	250	300	200	15	42.4
EL4 50-160/0.55 C [MT]	DN50	DN50	4	18	102	125	165	535	145	680	228	763	181	350	190	160	255	135	120	300	250	300	200	15	47.4
EL4 50-160/0.75 B [MT]	DN50	DN50	4	18	102	125	165	535	145	680	228	763	181	350	190	160	255	135	120	300	250	300	200	15	49.4
EL4 50-160/1.1 A [MT]	DN50	DN50	4	18	102	125	165	575	145	720	228	803	181	350	190	160	255	135	120	300	250	300	200	15	52.4
EL4 50-200/1.1 B [MT]	DN50	DN50	4	18	102	125	165	575	145	720	228	803	181	380	200	180	285	150	135	300	250	300	200	15	59.4
EL4 50-200/1.1 C [MT]	DN50	DN50	4	18	102	125	165	575	145	720	228	803	181	380	200	180	285	150	135	300	250	300	200	15	59.4
EL4 50-200/1.5 A [MT]	DN50	DN50	4	18	102	125	165	575	145	720	228	803	181	380	200	180	285	150	135	300	250	300	200	15	61.4
EL4 50-200/1.5 B [MT]	DN50	DN50	4	18	102	125	165	575	145	720	228	803	181	380	200	180	285	150	135	300	250	300	200	15	61.4
EL4 50-250/2.2 A	DN50	DN50	4	18	102	125	165	655	155	810	228	883	181	460	230	230	340	170	170	300	250	300	200	15	77.7
EL4 50-250/2.2 B	DN50	DN50	4	18	102	125	165	655	155	810	228	883	181	460	230	230	340	170	170	300	250	300	200	15	77.7
EL4 50-250/2.2 C	DN50	DN50	4	18	102	125	165	655	155	810	228	883	181	460	230	230	340	170	170	300	250	300	200	15	77.7
EL4 50-250/3 A	DN50	DN50	4	18	102	125	165	655	155	810	228	883	181	460	230	230	340	170	170	300	250	300	200	15	81.4
EL4 65-125/0.55 B [MT]	DN65	DN65	4	18	122	145	185	540	150	690	228	768	181	345	185	160	250	130	120	300	250	300	200	15	46.4
EL4 65-125/0.55 C [MT]	DN65	DN65	4	18	122	145	185	540	150	690	228	768	181	345	185	160	250	130	120	300	250	300	200	15	46.4
EL4 65-125/0.75 A [MT]	DN65	DN65	4	18	122	145	185	540	150	690	228	768	181	345	185	160	250	130	120	300	250	300	200	15	48.4
EL4 65-125/0.75 B [MT]	DN65	DN65	4	18	122	145	185	540	150	690	228	768	181	345	185	160	250	130	120	300	250	300	200	15	48.4
EL4 65-125/1.1 A [MT]	DN65	DN65	4	18	122	145	185	580	150	730	228	808	181	345	185	160	250	130	120	300	250	300	200	15	51.4
EL4 65-160/0.75 C [MT]	DN65	DN65	4	18	122	145	185	545	155	700	228	773	181	380	200	180	270	145	125	300	250	300	200	15	52.4
EL4 65-160/1.1 B [MT]	DN65	DN65	4	18	122	145	185	585	155	740	228	813	181	380	200	180	270	145	125	300	250	300	200	15	55.4
EL4 65-160/1.5 A [MT]	DN65	DN65	4	18	122	145	185	585	155	740	228	813	181	380	200	180	270	145	125	300	250	300	200	15	57.4
EL4 65-200/1.5 C [MT]	DN65	DN65	4	18	122	145	185	590	160	750	228	818	181	415	215	200	310	165	145	300	250	300	200	15	66.4
EL4 65-200/2.2 A	DN65	DN65	4	18	122	145	185	660	160	820	228	888	181	415	215	200	310	165	145	300	250	300	200	15	72.4
EL4 65-200/2.2 B	DN65	DN65	4	18	122	145	185	660	160	820	228	888	181	415	215	200	310	165	145	300	250	300	200	15	72.4
EL4 65-200/2.2 C	DN65	DN65	4	18	122	145	185	660	160	820	228	888	181	415	215	200	310	165	145	300	250	300	200	15	72.4
EL4 65-200/3 A	DN65	DN65	4	18	122	145	185	660	160	820	228	888	181	415	215	200	310	165	145	300	250	300	200	15	77.4
EL4 65-200/3 B	DN65	DN65	4	18	122	145	185	660	160	820	228	888	181	415	215	200	310	165	145	300	250	300	200	15	77.4
EL4 65-250/2.2 C	DN65	DN65	4	18	122	145	185	665	165	830	228	893	181	500	255	245	355	185	170	300	250	300	200	15	82.4
EL4 65-250/3 B	DN65	DN65	4	18	122	145	185	665	165	830	228	893	181	500	255	245	355	185	170	300	250	300	200	15	86.4
EL4 65-250/3 C	DN65	DN65	4	18	122	145	185	665	165	830	228	893	181	500	255	245	355	185	170	300	250	300	200	15	86.4
EL4 65-250/4 A	DN65	DN65	4	18	122	145	185	665	165	830	228	893	181	500	255	245	355	185	170	300	250	300	200	15	92.4
EL4 65-250/4 B	DN65	DN65	4	18	122	145	185	665	165	830	228	893	181	500	255	245	355	185	170	300	250	300	200	15	92.4
EL4 65-250/5.5 A	DN65	DN65	4	18	122	145	185	745	165	910	180	925	260	500	255	245	355	185	170	300	250	300	200	15	103.4
EL4 80-125/0.55 C [MT]	DN80	DN80	4	18	138	160	200	545	155	700	228	773	181	420	240	180	270	150	120	300	250	300	200	15	54.4
EL4 80-125/0.75 A [MT]	DN80	DN80	4	18	138	160	200	545	155	700	228	773	181	420	240	180	270	150	120	300	250	300	200	15	56.4
EL4 80-125/0.75 B [MT]	DN80	DN80	4	18	138	160	200	545	155	700	228	773	181	420	240	180	270	150	120	300	250	300	200	15	56.4
EL4 80-125/1.1 A [MT]	DN80	DN80	4	18	138	160	200	585	155	740	228	813	181	420	240	180	270	150	120	300	250	300	200	15	59.4
EL4 80-160/1.1 C [MT]	DN80	DN80	4	18	138	160	200	600	170	770	228	828	181	440	240	200	285	155	130	300	250	300	200	15	63.4
EL4 80-160/1.5 B [MT]	DN80	DN80	4	18	138	160	200	600	170	770	228	828	181	440	240	200	285	155	130	300	250	300	200	15	65.4
EL4 80-160/2.2 A	DN80	DN80	4	18	138	160	200	670	170	840	228	898	181	440	240	200	285	155	130	300	250	300	200	15	72.4
EL4 80-160/2.2 B	DN80	DN80	4	18	138	160	200	670	170	840	228	898	181	440	240	200	285	155	130	300	250	300	200	15	72.4
EL4 80-200/2.2 B	DN80	DN80	4	18	138	160	200	670	170	840	228	898	181	480	255	225	325	175	150	300	250	300	200	15	77.4
EL4 80-200/2.2 C	DN80	DN80	4	18	138	160	200	670	170	840	228	898	181	480	255	225	325	175	150	300	250	300	200	15	77.4
EL4 80-200/3 A	DN80	DN80	4	18	138	160	200	670	170	840	228	898	181	480	255	225	325	175	150	300	250	300	200	15	81.4
EL4 80-200/3 B	DN80	DN80	4	18	138	160	200	670	170	840	228	898	181	480	255	225	325	175	150	300	250	300	200	15	81.4
EL4 80-200/4 A	DN80	DN80	4	18	138	160	200	670	170	840	228	898	181	480	255	225	325	175	150	300	250	300	200	15	87.4
EL4 80-250/3 B	DN80	DN80	4	18	138	160	200	695	185	880	228	923	181	550	280	270	370	195	175	300	250	300	200	15	86.4
EL4 80-250/3 C	DN80	DN80	4	18	138	160	200	695	185	880	228	923	181	550	280	270	370	195	175	300	250	300	200	15	86.4
EL4 80-250/4 A	DN80	DN80	4	18	138	160	200	695	185	880	228	923	181	550	280	270	370	195	175	300	250	300	200	15	92.4
EL4 80-250/4 B	DN80	DN80	4	18	138	160	200	695	185	880	228	923	181	550	280	270	370	195	175	300	250	300	200	15	92.4
EL4 80-250/4 C	DN80	DN80	4	18	138	160	200	695	185	880	228	923	181	550	280	270	370	195	175	300	250	300	200	15	92.4
EL4 80-250/5.5 A	DN80	DN80	4	18	138	160	200	795	185	980	180	975	260	550	280	270	370	195	175	300	250	300	200	15	103.4

IN-LINE ELECTRONIC NORMALISED ELECTRIC PUMPS + INVERTER

in cast iron

TABLE OF DIMENSIONS ELINE4 + E-*drive*

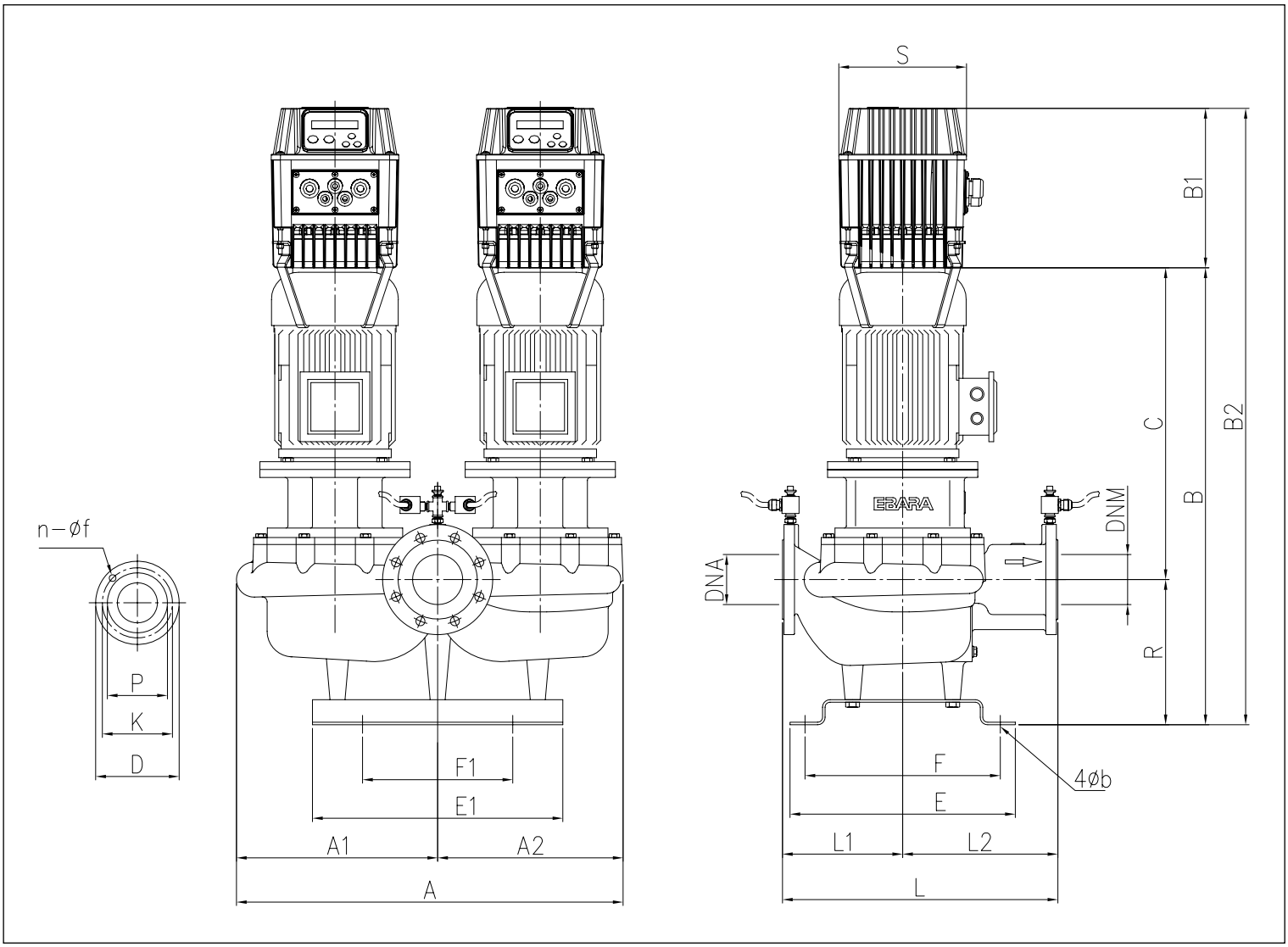
4 Poles

Model	Dimensions [mm]																							Weight [kg] Pump + E-*drive*
	DNA	DNM	n	f	P	K	D	B	R	C	B1	B2	S	L	L1	L2	A	A1	A2	E	F	E1	F1	b	
EL4 100-160/1.5 C [MT]	DN100	DN100	8	18	158	180	220	625	195	820	228	853	181	495	270	225	315	175	140	300	250	300	200	15	74.4
EL4 100-160/2.2 B	DN100	DN100	8	18	158	180	220	695	195	890	228	923	181	495	270	225	315	175	140	300	250	300	200	15	81.4
EL4 100-160/2.2 C	DN100	DN100	8	18	158	180	220	695	195	890	228	923	181	495	270	225	315	175	140	300	250	300	200	15	81.4
EL4 100-160/3 A	DN100	DN100	8	18	158	180	220	695	195	890	228	923	181	495	270	225	315	175	140	300	250	300	200	15	85.4
EL4 100-160/3 B	DN100	DN100	8	18	158	180	220	695	195	890	228	923	181	495	270	225	315	175	140	300	250	300	200	15	85.4
EL4 100-160/4 A	DN100	DN100	8	18	158	180	220	695	195	890	228	923	181	495	270	225	315	175	140	300	250	300	200	15	90.4
EL4 100-200/3 C	DN100	DN100	8	18	158	180	220	825	290	1115	228	1053	181	550	275	275	345	190	155	300	250	300	200	15	110.4
EL4 100-200/3 D	DN100	DN100	8	18	158	180	220	825	290	1115	228	1053	181	550	275	275	345	190	155	300	250	300	200	15	110.4
EL4 100-200/4 B	DN100	DN100	8	18	158	180	220	825	290	1115	228	1053	181	550	275	275	345	190	155	300	250	300	200	15	116.4
EL4 100-200/4 C	DN100	DN100	8	18	158	180	220	825	290	1115	228	1053	181	550	275	275	345	190	155	300	250	300	200	15	116.4
EL4 100-200/5.5 A	DN100	DN100	8	18	158	180	220	910	290	1200	180	1090	260	550	275	275	345	190	155	300	250	300	200	15	132.0
EL4 100-200/5.5 B	DN100	DN100	8	18	158	180	220	910	290	1200	180	1090	260	550	275	275	345	190	155	300	250	300	200	15	132.0
EL4 100-250/5.5 B	DN100	DN100	8	18	158	180	220	790	185	975	180	970	260	585	290	295	400	215	185	300	250	300	200	15	128.0
EL4 100-250/5.5 C	DN100	DN100	8	18	158	180	220	790	185	975	180	970	260	585	290	295	400	215	185	300	250	300	200	15	128.0
EL4 100-250/7.5 A	DN100	DN100	8	18	158	180	220	790	185	975	180	970	260	585	290	295	400	215	185	300	250	300	200	15	139.0
EL4 100-250/7.5 B	DN100	DN100	8	18	158	180	220	790	185	975	180	970	260	585	290	295	400	215	185	300	250	300	200	15	139.0
EL4 100-250/9.2 A	DN100	DN100	8	18	158	180	220	790	185	975	180	970	260	585	290	295	400	215	185	300	250	300	200	15	145.0
EL4 100-250/11 A	DN100	DN100	8	18	158	180	220	950	185	1135	180	1130	260	585	290	295	400	215	185	500	440	500	300	18	190.0
EL4 125-200/4 D	DN125	DN125	8	18	188	210	250	825	290	1115	228	1053	181	620	340	280	365	205	160	300	250	300	200	15	143.4
EL4 125-200/5.5 B	DN125	DN125	8	18	188	210	250	910	290	1200	180	1090	260	620	340	280	365	205	160	300	250	300	200	15	156.0
EL4 125-200/5.5 C	DN125	DN125	8	18	188	210	250	910	290	1200	180	1090	260	620	340	280	365	205	160	300	250	300	200	15	156.0
EL4 125-200/7.5 A	DN125	DN125	8	18	188	210	250	910	290	1200	180	1090	260	620	340	280	365	205	160	300	250	300	200	15	166.0
EL4 125-200/7.5 B	DN125	DN125	8	18	188	210	250	910	290	1200	180	1090	260	620	340	280	365	205	160	300	250	300	200	15	166.0
EL4 125-200/11 A	DN125	DN125	8	18	188	210	250	1020	290	1310	180	1200	260	620	340	280	380	205	175	500	440	500	300	18	191.0
EL4 125-250/7.5 C	DN125	DN125	8	18	188	210	250	905	290	1195	180	1085	260	620	340	280	405	220	185	300	250	300	200	15	172.0
EL4 125-250/7.5 D	DN125	DN125	8	18	188	210	250	905	290	1195	180	1085	260	620	340	280	405	220	185	300	250	300	200	15	172.0
EL4 125-250/11 A	DN125	DN125	8	18	188	210	250	1015	290	1305	180	1195	260	620	340	280	405	220	185	500	440	500	300	18	197.0
EL4 125-250/11 B	DN125	DN125	8	18	188	210	250	1015	290	1305	180	1195	260	620	340	280	405	220	185	500	440	500	300	18	197.0
EL4 125-250/11 C	DN125	DN125	8	18	188	210	250	1015	290	1305	180	1195	260	620	340	280	405	220	185	500	440	500	300	18	197.0
EL4 125-250/15 A	DN125	DN125	8	18	188	210	250	1015	290	1305	180	1195	260	620	340	280	405	220	185	500	440	500	300	18	210.0
EL4 150-200/5.5 D	DN150	DN150	8	22	212	240	285	935	315	1250	180	1115	260	700	370	330	430	245	185	300	250	300	200	15	190.0
EL4 150-200/7.5 B	DN150	DN150	8	22	212	240	285	935	315	1250	180	1115	260	700	370	330	430	245	185	300	250	300	200	15	200.0
EL4 150-200/7.5 C	DN150	DN150	8	22	212	240	285	935	315	1250	180	1115	260	700	370	330	430	245	185	300	250	300	200	15	200.0
EL4 150-200/11 A	DN150	DN150	8	22	212	240	285	1045	315	1360	180	1225	260	700	370	330	430	245	185	500	440	500	300	18	225.0
EL4 150-200/11 B	DN150	DN150	8	22	212	240	285	1045	315	1360	180	1225	260	700	370	330	430	245	185	500	440	500	300	18	225.0
EL4 150-250/11 D	DN150	DN150	8	22	212	240	285	1040	315	1355	180	1220	260	700	370	330	460	255	205	500	440	500	300	18	282.0
EL4 150-250/15 B	DN150	DN150	8	22	212	240	285	1040	315	1355	180	1220	260	700	370	330	460	255	205	500	440	500	300	18	295.0
EL4 150-250/15 C	DN150	DN150	8	22	212	240	285	1040	315	1355	180	1220	260	700	370	330	460	255	205	500	440	500	300	18	295.0
EL4 200-250/15 D	DN200	DN200	8	22	268	295	340	1065	340	1405	180	1245	260	920	470	450	515	290	225	500	440	500	300	18	301.0

IN-LINE ELECTRONIC NORMALISED ELECTRIC PUMPS + INVERTER

in cast iron

ELINED(4) + E-*drive* **2 and 4 poles**



IN-LINE ELECTRONIC NORMALISED ELECTRIC PUMPS + INVERTER

in cast iron

TABLE OF DIMENSIONS ELINED + E-*drive*

2 Poles

Model	Dimensions [mm]																							Weight [kg] Pump + E-*drive*
	DNA	DNM	n	f	P	K	D	B	R	C	B1	B2	S	L	L1	L2	A	A1	A2	E	F	E1	F1	b	
ELD 40-160/2.2 C	DN40	DN40	4	18	88	110	150	640	210	430	228	868	181	360	175	185	470	240	230	300	250	300	200	15	95.8
ELD 40-160/3 B	DN40	DN40	4	18	88	110	150	665	210	455	228	893	181	360	175	185	470	240	230	300	250	300	200	15	117.8
ELD 40-160/4 A	DN40	DN40	4	18	88	110	150	685	210	475	228	913	181	360	175	185	470	240	230	300	250	300	200	15	125.8
ELD 40-160/4 B	DN40	DN40	4	18	88	110	150	685	210	475	228	913	181	360	175	185	470	240	230	300	250	300	200	15	125.8
ELD 40-160/5.5 A	DN40	DN40	4	18	88	110	150	685	210	475	180	865	260	360	175	185	470	240	230	300	250	300	200	15	101.0
ELD 50-200/7.5 C	DN50	DN40	4	18	102	125	165	790	210	580	180	970	260	465	210	255	580	295	285	300	250	300	200	15	123.0
ELD 50-200/9.2 B	DN50	DN50	4	18	102	125	165	830	210	620	180	1010	260	465	210	255	580	295	285	300	250	300	200	15	131.0
ELD 50-200/9.2 C	DN50	DN50	4	18	102	125	165	830	210	620	180	1010	260	465	210	255	580	295	285	300	250	300	200	15	131.0
ELD 50-200/11 A	DN50	DN50	4	18	102	125	165	830	210	620	180	1010	260	465	210	255	580	295	285	300	250	300	200	15	157.0
ELD 50-200/11 B	DN50	DN50	4	18	102	125	165	830	210	620	180	1010	260	465	210	255	580	295	285	300	250	300	200	15	191.0
ELD 65-160/5.5 C	DN65	DN65	4	18	122	145	185	735	210	525	180	915	260	475	210	265	540	275	265	300	250	300	200	15	205.0
ELD 65-160/7.5 B	DN65	DN65	4	18	122	145	185	780	210	570	180	960	260	475	210	265	540	275	265	300	250	300	200	15	205.0
ELD 65-160/9.2 A	DN65	DN65	4	18	122	145	185	780	210	570	180	960	260	475	210	265	540	275	265	300	250	300	200	15	231.0
ELD 65-160/9.2 B	DN65	DN65	4	18	122	145	185	780	210	570	180	960	260	475	210	265	540	275	265	300	250	300	200	15	231.0
ELD 65-160/11 A	DN65	DN65	4	18	122	145	185	780	210	570	180	960	260	475	210	265	540	275	265	300	250	300	200	15	178.0
ELD 80-160/7.5 C	DN80	DN80	8	18	138	160	200	775	210	565	180	955	260	500	240	260	590	295	295	300	250	300	200	15	188.0
ELD 80-160/9.2 B	DN80	DN80	8	18	138	160	200	815	210	605	180	995	260	500	240	260	590	295	295	300	250	300	200	15	202.0
ELD 80-160/9.2 C	DN80	DN80	8	18	138	160	200	815	210	605	180	995	260	500	240	260	590	295	295	300	250	300	200	15	202.0
ELD 80-160/11 B	DN80	DN80	8	18	138	160	200	815	210	605	180	995	260	500	240	260	590	295	295	300	250	300	200	15	226.0
ELD 100-160/11 D	DN100	DN100	8	18	158	180	220	1005	290	715	180	1185	260	550	265	285	760	380	380	500	440	500	300	18	279.0
ELD 100-160/15 C	DN100	DN100	8	18	158	180	220	1005	290	715	180	1185	260	550	265	285	760	380	380	500	440	500	300	18	295.0

TABLE OF DIMENSIONS ELINED4 + E-*drive*

4 Poles

Model	Dimensions [mm]																							Weight [kg] Pump + E-*drive*
	DNA	DNM	n	f	P	K	D	B	R	C	B1	B2	S	L	L1	L2	A	A1	A2	E	F	E1	F1	b	
ELD4 40-160/0.55 A [MT]	DN40	DN40	4	18	88	110	150	600	210	810	228	828	181	360	175	185	470	240	230	300	250	300	200	15	81.8
ELD4 40-160/0.55 B [MT]	DN40	DN40	4	18	88	110	150	600	210	810	228	828	181	360	175	185	470	240	230	300	250	300	200	15	81.8
ELD4 40-160/0.55 C [MT]	DN40	DN40	4	18	88	110	150	600	210	810	228	828	181	360	175	185	470	240	230	300	250	300	200	15	81.8
ELD4 40-160/0.75 A [MT]	DN40	DN40	4	18	88	110	150	600	210	810	228	828	181	360	175	185	470	240	230	300	250	300	200	15	85.8
ELD4 50-200/1.1 B [MT]	DN50	DN50	4	18	102	125	165	615	210	825	228	843	181	465	210	255	580	295	285	300	250	300	200	15	113.8
ELD4 50-200/1.1 C [MT]	DN50	DN50	4	18	102	125	165	615	210	825	228	843	181	465	210	255	580	295	285	300	250	300	200	15	113.8
ELD4 50-200/1.5 A [MT]	DN50	DN50	4	18	102	125	165	615	210	825	228	843	181	465	210	255	580	295	285	300	250	300	200	15	117.8
ELD4 50-200/1.5 B [MT]	DN50	DN50	4	18	102	125	165	615	210	825	228	843	181	465	210	255	580	295	285	300	250	300	200	15	117.8
ELD4 50-250/2.2 A	DN50	DN50	4	18	102	125	165	710	210	920	228	938	181	465	210	255	660	330	330	300	250	300	200	15	153.8
ELD4 50-250/2.2 B	DN50	DN50	4	18	102	125	165	710	210	920	228	938	181	465	210	255	660	330	330	300	250	300	200	15	153.8
ELD4 50-250/2.2 C	DN50	DN50	4	18	102	125	165	710	210	920	228	938	181	465	210	255	660	330	330	300	250	300	200	15	153.8
ELD4 50-250/3 A	DN50	DN50	4	18	102	125	165	710	210	920	228	938	181	465	210	255	660	330	330	300	250	300	200	15	161.8
ELD4 65-160/0.75 C [MT]	DN65	DN65	4	18	122	145	185	600	210	810	228	828	181	475	210	265	540	275	265	300	250	300	200	15	104.8
ELD4 65-160/1.1 B [MT]	DN65	DN65	4	18	122	145	185	640	210	850	228	868	181	475	210	265	540	275	265	300	250	300	200	15	110.8
ELD4 65-160/1.5 A [MT]	DN65	DN65	4	18	122	145	185	640	210	850	228	868	181	475	210	265	540	275	265	300	250	300	200	15	114.8
ELD4 65-200/1.5 C [MT]	DN65	DN65	4	18	122	145	185	640	210	850	228	868	181	475	210	265	610	310	300	300	250	300	200	15	127.8
ELD4 65-200/2.2 A	DN65	DN65	4	18	122	145	185	710	210	920	228	938	181	475	210	265	610	310	300	300	250	300	200	15	139.8
ELD4 65-200/2.2 B	DN65	DN65	4	18	122	145	185	710	210	920	228	938	181	475	210	265	610	310	300	300	250	300	200	15	139.8
ELD4 65-200/2.2 C	DN65	DN65	4	18	122	145	185	710	210	920	228	938	181	475	210	265	610	310	300	300	250	300	200	15	139.8
ELD4 65-200/3 A	DN65	DN65	4	18	122	145	185	710	210	920	228	938	181	475	210	265	610	310	300	300	250	300	200	15	149.8
ELD4 65-200/3 B	DN65	DN65	4	18	122	145	185	710	210	920	228	938	181	475	210	265	610	310	300	300	250	300	200	15	149.8
ELD4 65-250/2.2 C	DN65	DN65	4	18	122	145	185	710	210	920	228	938	181	475	210	265	710	360	350	300	250	300	200	15	166.8
ELD4 65-250/3 B	DN65	DN65	4	18	122	145	185	710	210	920	228	938	181	475	210	265	710	360	350	300	250	300	200	15	174.8
ELD4 65-250/3 C	DN65	DN65	4	18	122	145	185	710	210	920	228	938	181	475	210	265	710	360	350	300	250	300	200	15	174.8
ELD4 65-250/4 A	DN65	DN65	4	18	122	145	185	710	210	920	228	938	181	475	210	265	710	360	350	300	250	300	200	15	186.8
ELD4 65-250/4 B	DN65	DN65	4	18	122	145	185	710	210	920	228	938	181	475	210	265	710	360	350	300	250	300	200	15	186.8
ELD4 65-250/5.5 A	DN65	DN65	4	18	122	145	185	790	210	1000	180	970	181	475	210	265	710	360	350	300	250	300	200	15	215.0

IN-LINE ELECTRONIC NORMALISED ELECTRIC PUMPS + INVERTER

in cast iron

TABLE OF DIMENSIONS ELINED4 + E-*drive*

4 Poles

Model	Dimensions [mm]																							Weight [kg]
	DNA	DNM	n	f	P	K	D	B	R	C	B1	B2	S	L	L1	L2	A	A1	A2	E	F	E1	F1	b	Pump + E-*drive*
ELD4 80-160/1.1 C [MT]	DN80	DN80	4	18	138	160	200	640	210	850	228	868	181	500	240	260	590	295	295	300	250	300	200	15	117.4
ELD4 80-160/1.5 B [MT]	DN80	DN80	4	18	138	160	200	640	210	850	228	868	181	500	240	260	590	295	295	300	250	300	200	15	125.8
ELD4 80-160/2.2 A	DN80	DN80	4	18	138	160	200	710	210	920	228	938	181	500	240	260	590	295	295	300	250	300	200	15	139.8
ELD4 80-160/2.2 B	DN80	DN80	4	18	138	160	200	710	210	920	228	938	181	500	240	260	590	295	295	300	250	300	200	15	139.8
ELD4 80-200/2.2 B	DN80	DN80	4	18	138	160	200	710	210	920	228	938	181	500	220	280	665	340	325	300	250	300	200	15	151.8
ELD4 80-200/2.2 C	DN80	DN80	4	18	138	160	200	710	210	920	228	938	181	500	220	280	665	340	325	300	250	300	200	15	151.8
ELD4 80-200/3 A	DN80	DN80	4	18	138	160	200	710	210	920	228	938	181	500	220	280	665	340	325	300	250	300	200	15	159.8
ELD4 80-200/3 B	DN80	DN80	4	18	138	160	200	710	210	920	228	938	181	500	220	280	665	340	325	300	250	300	200	15	159.8
ELD4 80-200/4 A	DN80	DN80	4	18	138	160	200	710	210	920	228	938	181	500	220	280	665	340	325	300	250	300	200	15	171.8
ELD4 80-250/4 C	DN80	DN80	4	18	138	160	200	825	290	1115	228	1053	181	500	235	265	755	385	370	500	440	500	300	18	238.8
ELD4 80-250/4 D	DN80	DN80	4	18	138	160	200	825	290	1115	228	1053	181	500	235	265	755	385	370	500	440	500	300	18	238.8
ELD4 80-250/5.5 A	DN80	DN80	4	18	138	160	200	910	290	1200	180	1090	181	500	235	265	755	385	370	500	440	500	300	18	270.0
ELD4 80-250/5.5 B	DN80	DN80	4	18	138	160	200	910	290	1200	180	1090	181	500	235	265	755	385	370	500	440	500	300	18	270.0
ELD4 80-250/5.5 C	DN80	DN80	4	18	138	160	200	910	290	1200	180	1090	181	500	235	265	755	385	370	500	440	500	300	18	270.0
ELD4 80-250/7.5 A	DN80	DN80	4	18	138	160	200	910	290	1200	180	1090	181	500	235	265	755	385	370	500	440	500	300	18	290.0
ELD4 100-160/1.5 D [MT]	DN100	DN100	8	18	158	180	220	745	290	1035	228	973	181	550	265	285	715	370	345	500	440	500	300	18	184.8
ELD4 100-160/2.2 B	DN100	DN100	8	18	158	180	220	815	290	1105	228	1043	181	550	265	285	715	370	345	500	440	500	300	18	198.8
ELD4 100-160/2.2 C	DN100	DN100	8	18	158	180	220	815	290	1105	228	1043	181	550	265	285	715	370	345	500	440	500	300	18	198.8
ELD4 100-160/3 A	DN100	DN100	8	18	158	180	220	815	290	1105	228	1043	181	550	265	285	715	370	345	500	440	500	300	18	206.8
ELD4 100-160/3 B	DN100	DN100	8	18	158	180	220	815	290	1105	228	1043	181	550	265	285	715	370	345	500	440	500	300	18	206.8
ELD4 100-160/4 A	DN100	DN100	8	18	158	180	220	815	290	1105	228	1043	181	550	265	285	715	370	345	500	440	500	300	18	218.8
ELD4 100-200/3 C	DN100	DN100	8	18	158	180	220	825	290	1115	228	1053	181	550	265	285	750	385	365	500	440	500	300	18	220.8
ELD4 100-200/3 D	DN100	DN100	8	18	158	180	220	825	290	1115	228	1053	181	550	265	285	750	385	365	500	440	500	300	18	220.8
ELD4 100-200/4 B	DN100	DN100	8	18	158	180	220	825	290	1115	228	1053	181	550	265	285	750	385	365	500	440	500	300	18	232.8
ELD4 100-200/4 C	DN100	DN100	8	18	158	180	220	825	290	1115	228	1053	181	550	265	285	750	385	365	500	440	500	300	18	232.8
ELD4 100-200/5.5 A	DN100	DN100	8	18	158	180	220	910	290	1200	180	1090	181	550	265	285	750	385	365	500	440	500	300	18	264.0
ELD4 100-200/5.5 B	DN100	DN100	8	18	158	180	220	910	290	1200	180	1090	181	550	265	285	750	385	365	500	440	500	300	18	264.0
ELD4 100-250/5.5 C	DN100	DN100	8	18	158	180	220	910	290	1200	180	1090	181	550	240	310	790	405	385	500	440	500	300	18	284.0
ELD4 100-250/5.5 D	DN100	DN100	8	18	158	180	220	910	290	1200	180	1090	181	550	240	310	790	405	385	500	440	500	300	18	284.0
ELD4 100-250/7.5 A	DN100	DN100	8	18	158	180	220	910	290	1200	180	1090	181	550	240	310	790	405	385	500	440	500	300	18	304.0
ELD4 100-250/7.5 B	DN100	DN100	8	18	158	180	220	910	290	1200	180	1090	181	550	240	310	790	405	385	500	440	500	300	18	304.0
ELD4 100-250/7.5 C	DN100	DN100	8	18	158	180	220	910	290	1200	180	1090	181	550	240	310	790	405	385	500	440	500	300	18	304.0
ELD4 100-250/11 A	DN100	DN100	8	18	158	180	220	1020	290	1310	180	1200	181	550	240	310	790	405	385	500	440	500	300	18	346.0
ELD4 125-200/4 D	DN125	DN125	8	18	188	210	250	825	290	1115	228	1053	181	620	275	345	775	400	375	500	440	500	300	18	272.8
ELD4 125-200/5.5 B	DN125	DN125	8	18	188	210	250	910	290	1200	180	1090	181	620	275	345	775	400	375	500	440	500	300	18	304.0
ELD4 125-200/5.5 C	DN125	DN125	8	18	188	210	250	910	290	1200	180	1090	181	620	275	345	775	400	375	500	440	500	300	18	304.0
ELD4 125-200/7.5 A	DN125	DN125	8	18	188	210	250	910	290	1200	180	1090	181	620	275	345	775	400	375	500	440	500	300	18	324.0
ELD4 125-200/7.5 B	DN125	DN125	8	18	188	210	250	910	290	1200	180	1090	181	620	275	345	775	400	375	500	440	500	300	18	324.0
ELD4 125-200/11 A	DN125	DN125	8	18	188	210	250	1020	290	1310	180	1200	181	620	275	345	780	400	380	500	440	500	300	18	366.0
ELD4 125-250/7.5 C	DN125	DN125	8	18	188	210	250	910	290	1200	180	1090	181	620	275	345	815	420	395	500	440	500	300	18	349.0
ELD4 125-250/7.5 D	DN125	DN125	8	18	188	210	250	910	290	1200	180	1090	181	620	275	345	815	420	395	500	440	500	300	18	349.0
ELD4 125-250/11 A	DN125	DN125	8	18	188	210	250	1020	290	1310	180	1200	181	620	275	345	815	420	395	500	440	500	300	18	391.0
ELD4 125-250/11 B	DN125	DN125	8	18	188	210	250	1020	290	1310	180	1200	181	620	275	345	815	420	395	500	440	500	300	18	391.0
ELD4 125-250/11 C	DN125	DN125	8	18	188	210	250	1020	290	1310	180	1200	181	620	275	345	815	420	395	500	440	500	300	18	391.0
ELD4 125-250/15 A	DN125	DN125	8	18	188	210	250	1020	290	1310	180	1200	181	620	275	345	815	420	395	500	440	500	300	18	417.0
ELD4 150-200/5.5 D	DN150	DN150	8	22	212	240	285	940	315	1255	180	1120	181	700	275	425	930	485	445	500	440	500	300	18	385.0
ELD4 150-200/7.5 B	DN150	DN150	8	22	212	240	285	940	315	1255	180	1120	181	700	275	425	930	485	445	500	440	500	300	18	405.0
ELD4 150-200/7.5 C	DN150	DN150	8	22	212	240	285	940	315	1255	180	1120	181	700	275	425	930	485	445	500	440	500	300	18	405.0
ELD4 150-200/11 A	DN150	DN150	8	22	212	240	285	1045	315	1360	180	1225	181	700	275	425	930	485	445	500	440	500	300	18	447.0
ELD4 150-200/11 B	DN150	DN150	8	22	212	240	285	1045	315	1360	180	1225	181	700	275	425	930	485	445	500	440	500	300	18	447.0
ELD4 150-250/11 D	DN150	DN150	8	22	212	240	285	1045	315	1360	180	1225	181	700	275	425	955	495	460	500	440	500	300	18	459.0
ELD4 150-250/15 B	DN150	DN150	8	22	212	240	285	1045	315	1360	180	1225	181	700	275	425	955	495	460	500	440	500	300	18	485.0
ELD4 150-250/15 C	DN150	DN150	8	22	212	240	285	1045	315	1360	180	1225	181	700	275	425	955	495	460	500	440	500	300	18	485.0

E-drive

FREQUENCY VARIATOR FOR ELECTRIC PUMPS

E-*drive* is an electronic device designed to control and protect pumping system by varying the power frequency.
E-*drive* can be connected to any commercially available surface electric pump, and enables a given physical parameter to be held constant (pressure, flow rate, fluid temperature, etc.) as the conditions vary. This means that the pump is only operated when necessary, and gives considerable energy savings while improving reliability.

APPLICATIONS

- Domestic and industrial water supply
- Irrigation
- Heating and air conditioning
- Filtering and pressure washing

TECHNICAL FEATURES

- Energy and cost savings
- Easy installation and lower overall cost
- Extended system service life
- Improved reliability

TECHNICAL DATA

- Mains power frequency: 50~60 Hz [A]
- Max. ambient temperature at nominal load: 40°C (104 °F)
- Max. altitude at nominal load: 1000 m
- Protection rating: IP55 (NEMA 4)
- Configurable digital outputs (NO/NC):
  1. motor running signal
  2. alarm signal
  3. pump control DOL 1
  4. pump control DOL 2
- Analogue inputs (10 or 15 V DC):
  1. 4-20 mA
  2. 4-20 mA
  3. 4-20 mA / 0 - 10 V DC (configurable)
  4. 4-20 mA / 0 - 10 V DC (configurable)
- 4 Digital inputs, configurable as NO or NC, for starting and stopping the motor
- Serial RS485

ELECTRICAL DATA TABLE

Model	V_{in} +/- 15% [V]	Max. V_{out} [V]	I_{out} [A]	P_2 typical motor [kW]	Dimensions [mm]
E-*drive* 1500	1 x 230	1 x 230	9	1.1	181x181x228
		3 x 230	7	1.5	
E-*drive* 3000	1 x 230	1 x 230	9	1.1	
		3 x 230	11	3	
E-*drive* 2200	3 x 400	3 x 400	6	2.2	
E-*drive* 4000	3 x 400	3 x 400	9	4	
E-*drive* 5500	3 x 400	3 x 400	14	5.5	260x260x180
E-*drive* 7500	3 x 400	3 x 400	18	7.5	
E-*drive* 11000	3 x 400	3 x 400	25	11	
E-*drive* 15000	3 x 400	3 x 400	30	15	
E-*drive* 18500*	3 x 400	3 x 400	38	18.5	680x410x260
E-*drive* 22000*	3 x 400	3 x 400	48	22	
E-*drive* 30000*	3 x 400	3 x 400	65	30	
E-*drive* 37000*	3 x 400	3 x 400	75	37	
E-*drive* 45000*	3 x 400	3 x 400	85	45	

* Wall mounting kit included as standard supply

PERFORMANCE SPECIFICATIONS

The specifications given refer to the curves provided in our catalogues and Data Books (see www.ebaraeurope.com).
All performance curves are calculated in accordance with ISO 9906 Annex A.

Tolerances in accordance with ISO 9906 Annex A.
The curves refer to an effective asynchronous motor speed at 50 Hz.
The measurements were taken at a water temperature of 20°C and a kinematic viscosity of v= 1 mm^2/s (1 cSt).
The NPSH curve is a mean curve obtained in the same conditions as the performance curves.
The continuous lines indicate the recommended working range. The hyphenated line is a guideline only.
In order to avoid the risk of overheating, the pumps should not be used at a flow rate below 10% of the maximum flow rate.

During pump selection, one should apply a safety margin of at least 1 m.

Symbols: Q = Flow rate [m^3/h]
H = Head [m]
P_1 = Power uptake from electrical line
P_2 = Power delivered at motor shaft (power uptake of pump)
η = Pump efficiency
NPSH = Net positive suction head required by the pump
MEI = Minimum Efficiency Index

The MEI measures the quality of a pump in relation to its efficiency.
The MEI is based on the hydraulic performance at the point of maximum efficiency.

The efficiency of a pump with a lathed impeller is generally lower than of a pump with a full impeller diameter.
Lathing the impeller adapts the pump to a fixed working point, and thus reduced power consumption.
The MEI is based on the maximum impeller diameter.

The operation of a water pump with variable working points may be more efficient and economical if controlled by a variable speed motor which adapts the pump's operation to the system.

DNV·GL

MANAGEMENT SYSTEM CERTIFICATE

Certificato No./Certificate No.: CERT-17819-2006-AQ-VEN-SINCERT
Data prima emissione/Initial date: 13 ottobre 2006
Validità/Valid: 10 ottobre 2015 - 10 ottobre 2018

Si certifica che il sistema di gestione di/This is to certify that the management system of

EBARA PUMPS EUROPE S.p.A.

Via Pacinotti, 32 - 36040 Brendola (VI) - Italy

È conforme ai requisiti della norma per il Sistema di Gestione Qualità/
has been found to conform to the Quality Management System standard:

UNI EN ISO 9001:2008 (ISO 9001:2008)

Questa certificazione è valida per il seguente campo applicativo:
Progettazione, produzione, vendita e commercializzazione di pompe e sistemi di pompaggio
(Settore EA: 18 - 17 - 14)

This certificate is valid for the following scope:
Design, manufacture, sales and trade of pumps and pumping systems
(EA Sector: 18 - 17 - 14)

Luogo e Data/Place and date:
Vimercate, 06 agosto 2015

ACCREDIA

Per l'Organismo di Certificazione/
For the Certification Body
Vittore Marangon
Management Representative

La validità del presente Certificato è subordinata al rispetto delle condizioni contenute nel Contratto di Certificazione/
Lack of fulfilment of conditions as set out in the Certification Agreement may render this Certificate invalid.

EBARA Pumps Europe network

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