

SINGLE IMPELLER CENTRIFUGAL ELECTRIC PUMPS

in AISI 304



Single impeller centrifugal electric pumps made entirely of AISI 304 stainless steel.

APPLICATIONS

- Domestic pressure boosting
- Small-scale garden irrigation
- Washing
- Treating water
- Cooling towers
- Pumping clean water in general

TECHNICAL DETAILS

- Sturdy hydraulic frame
- Small dimensions

PUMP TECHNICAL DATA

- Maximum working pressure: 8 bar
- Maximum temperature of the liquid:
 - 5°C ÷ +60°C for CD, CDE, Q1AEGG, VAEGG, U3U3EGG, Q1U3EGG and U3CEGG 70/05-70/07-90/10 models
 - 5°C ÷ +90°C for the rest of the CD range
 - 5°C ÷ +110°C for the H, HS, HW, HSW version
 - 5°C ÷ +120°C for the rest of the CDE range and for the Q1AEGG, VAEGG, U3U3EGG, Q1U3EGG and U3CEGG versions
- G1½ suction connection for CD 200, G1¼ for the rest of the range
- G1 discharge connection
- MEI > 0.4

For further information please see our Technical Data Sheet on the web site www.ebara-europe.com

MOTOR TECHNICAL DATA

- IE3 high energy-efficiency motors starting from 0.75kW
- 2-pole self-ventilated enclosed fan-cooled asynchronous motor
- Class of insulation F
- IP55 protection degree
- 230V ± 10% 50 Hz single phase voltage, 230/400V ± 10% 50Hz three phase voltage
- Permanent capacitor inserted and thermo-amprometric protection with automatic rearm incorporated for the single phase motor
- Protection under user's responsibility for the three phase version

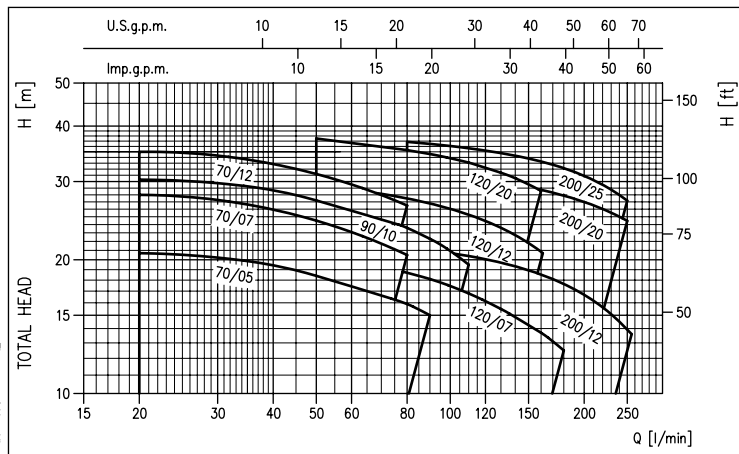
MATERIALS

- Pump casing, impeller, diffuser, seal housing disc, bracket, motor case and fan cover in EN 1.4301 (AISI 304)
- Mechanical seal in:
 - Ceramic/Carbon/NBR (standard)
 - special versions: see p. 8
- Shaft in AISI 303 (part in contact with the liquid)

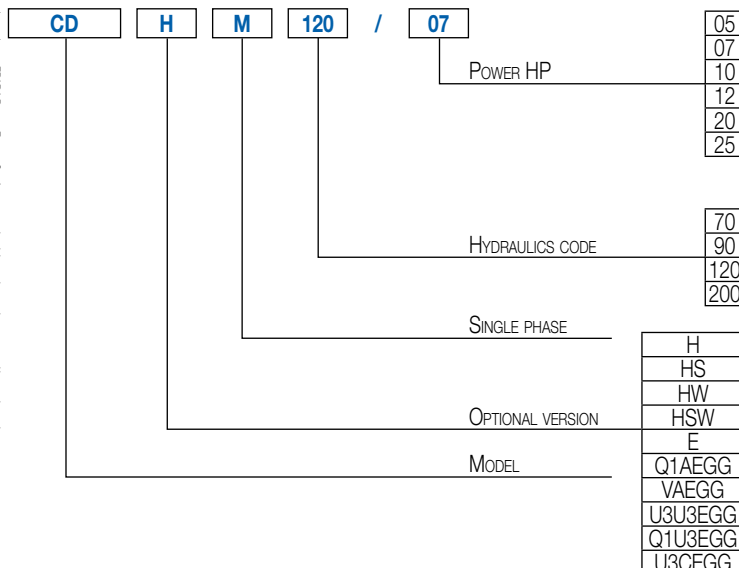
ACCESSORIES (On request)

- Electric panels
- Vessels
- Floats
- Pressure switches
- Presscomfort - Pressure regulator
- E-power - Variable speed control system
- E-drive - Variable speed control system

PERFORMANCE RANGE (according to ISO 9906 Attachment A)



IDENTIFICATION CODE

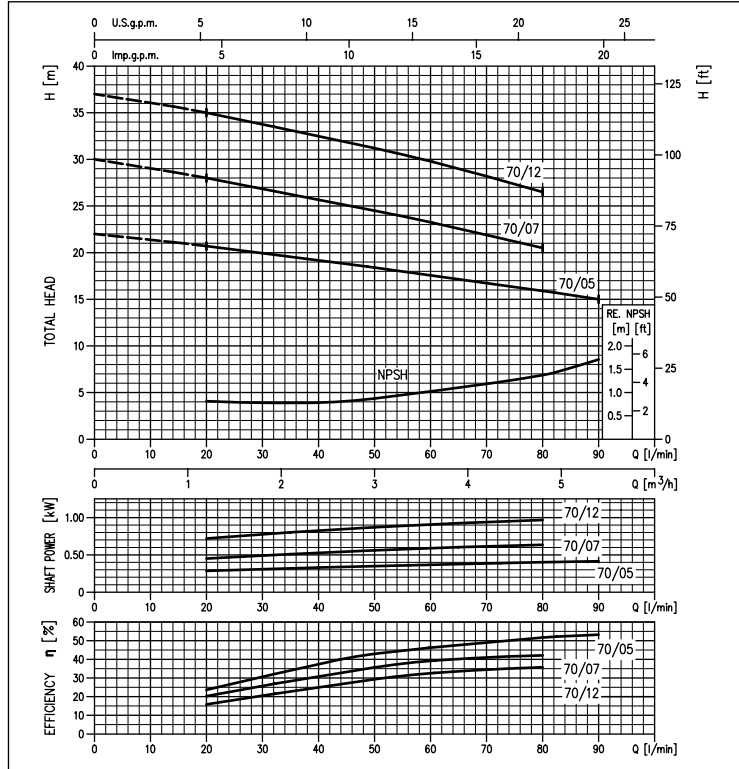


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SINGLE IMPELLER CENTRIFUGAL ELECTRIC PUMPS in AISI 304

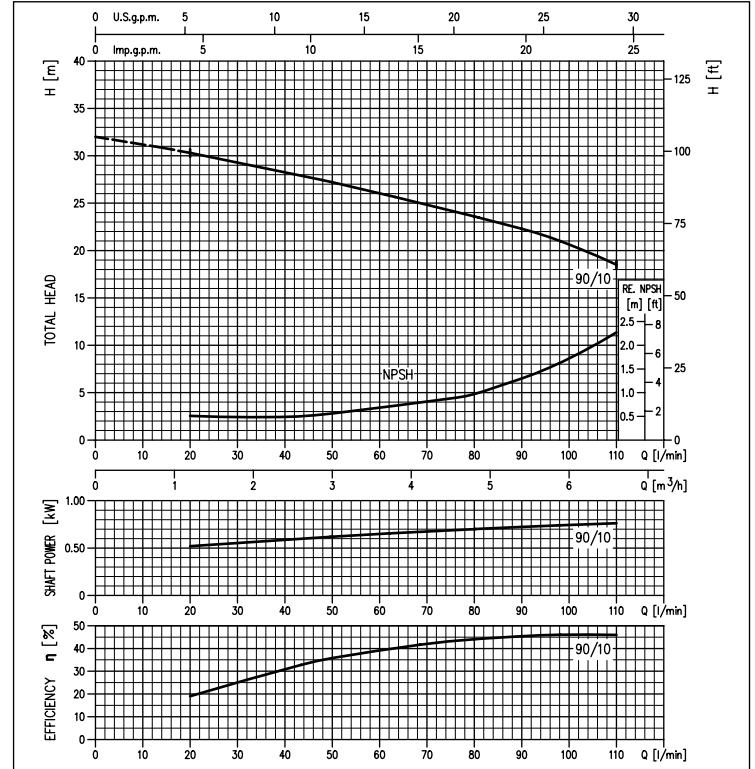
PERFORMANCE CURVES CD 70 series

(according to ISO 9906 Attachment A)



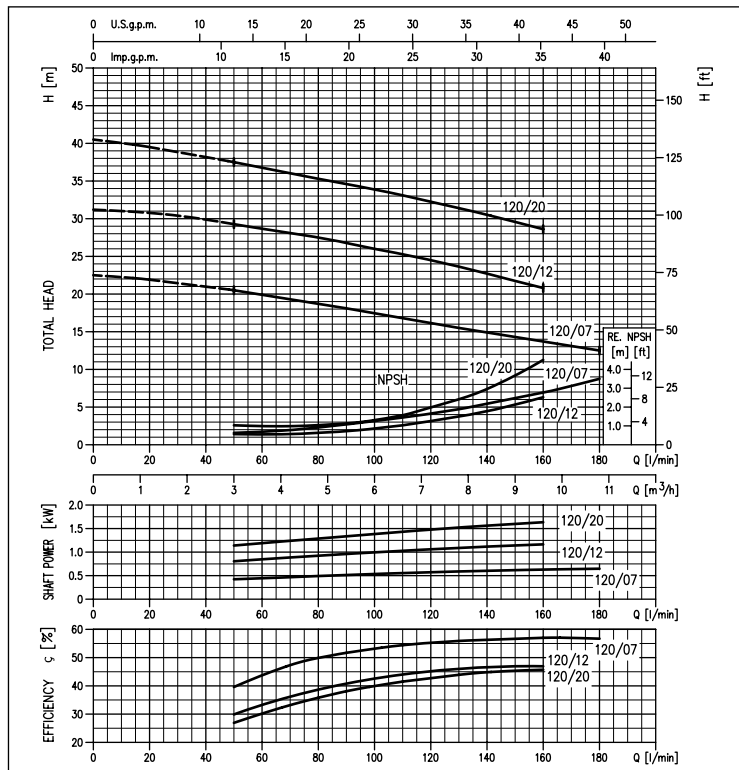
PERFORMANCE CURVES CD 90 series

(according to ISO 9906 Attachment A)



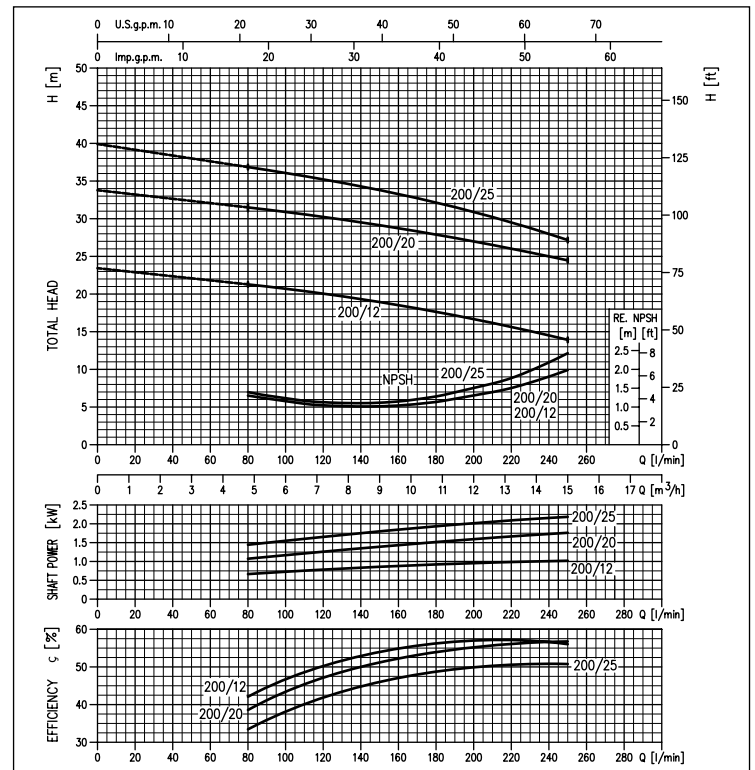
PERFORMANCE CURVES CD 120 series

(according to ISO 9906 Attachment A)



PERFORMANCE CURVES CD 200 series

(according to ISO 9906 Attachment A)



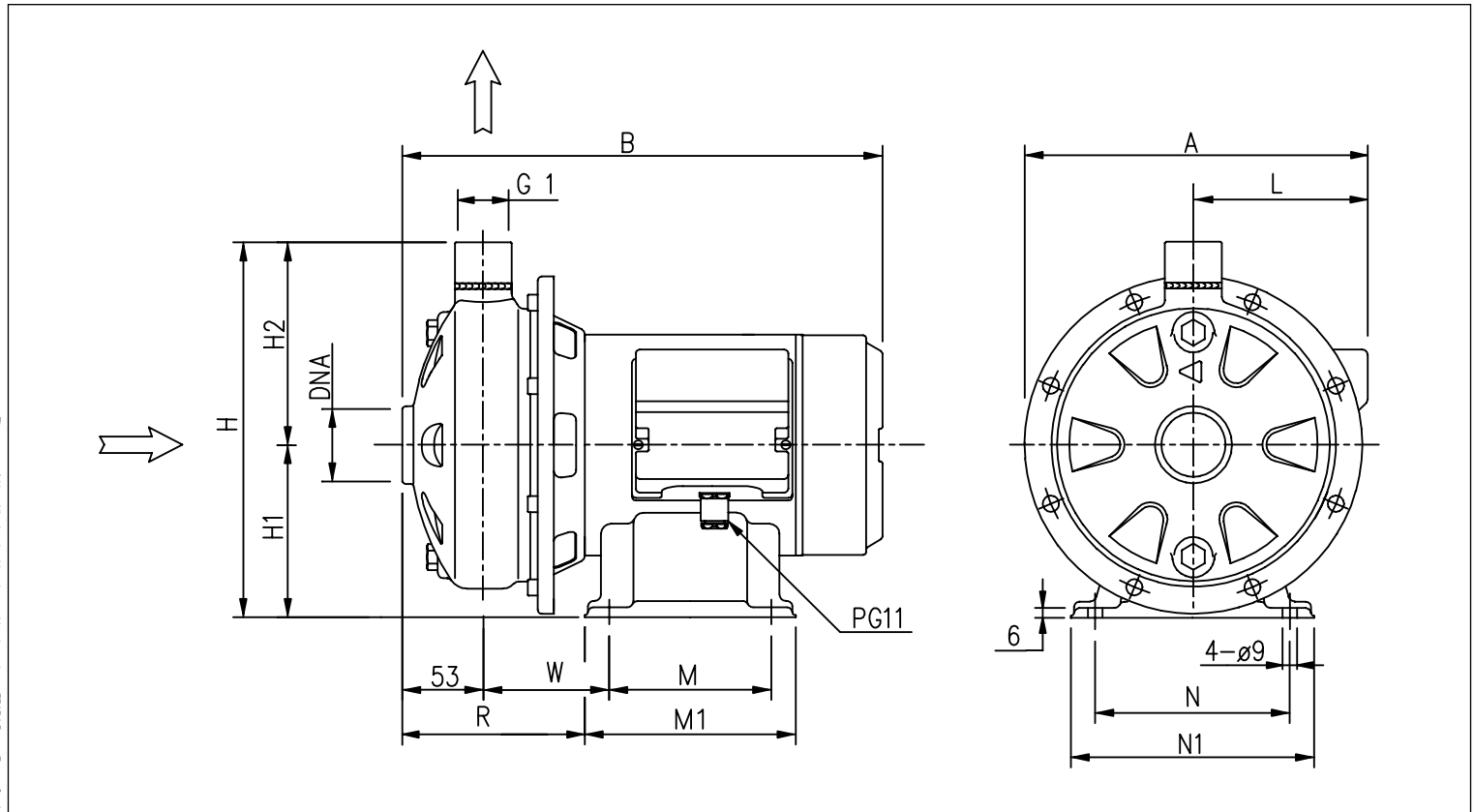
SINGLE IMPELLER CENTRIFUGAL ELECTRIC PUMPS

in AISI 304

PERFORMANCE CHART

Model		P ₂		Q = Flow Rate										
Single phase 230V	Three phase 230/400V	[HP]	[kW]	l/min m ³ /h	20 1.2	50 3	80 4.8	90 5.4	110 6.6	130 7.8	160 9.6	180 10.8	210 12.6	250 15
				H=Head [m]										
CDM 70/05	CD 70/05	0.5	0.37	20.7	18.4	15.9	15.0	-	-	-	-	-	-	-
CDM 70/07	CD 70/07	0.8	0.55	28.0	24.5	20.5	-	-	-	-	-	-	-	-
CDM 70/12	CD 70/12	1.2	0.9	35.0	31.2	26.5	-	-	-	-	-	-	-	-
CDM 90/10	CD 90/10	1	0.75	30.3	27.2	23.6	22.3	19.5	-	-	-	-	-	-
CDM 120/07	CD 120/07	0.8	0.55	-	20.5	18.7	18.1	16.8	15.5	13.7	12.5	-	-	-
CDM 120/12	CD 120/12	1.2	0.9	-	29.3	27.5	26.8	25.2	23.6	21.0	-	-	-	-
CDM 120/20	CD 120/20	2	1.5	-	37.5	35.3	34.6	33.1	31.4	28.6	-	-	-	-
CDM 200/12	CD 200/12	1.2	0.9	-	-	21.3	21.0	20.4	19.7	18.5	17.6	16.0	14.0	-
CDM 200/20	CD 200/20	2	1.5	-	-	31.5	31.2	30.6	30.0	28.7	27.9	26.5	24.5	-
-	CD 200/25	2.5	1.8	-	-	36.8	36.5	35.6	34.7	33.3	32.0	30.0	27.2	-

DIMENSIONS



DIMENSIONAL TABLE

Modello	Dimensioni [mm]																Peso [kg]			
	A [2]	A [1]	B [2]	B [1]	H	H1	H2	L [2]	L [1]	M [2]	M [1]	M1 [2]	M1 [1]	N	N1	R	W	DNA	[2]	[1]
CD(M) 70/05	209	208	298	298	229.5	106	123.5	105	104	100	100	130	130	120	150	115.5	77.5	G1¼	8.7	8.7
CD(M) 70/07	209	208	298	298	229.5	106	123.5	105	104	100	100	130	130	120	150	115.5	77.5	G1¼	10.0	10.0
CD(M) 70/12	208	208	328	338	229.5	106	123.5	104	104	100	100	130	130	120	150	130.5	92.5	G1¼	13.2	13.7
CD(M) 90/10	209	208	328	328	229.5	106	123.5	105	104	100	100	130	130	120	150	130.5	92.5	G1¼	11.5	11.6
CD(M) 120/07	209	208	298	298	229.5	106	123.5	105	104	100	100	130	130	120	150	115.5	77.5	G1¼	10.0	10.5
CD(M) 120/12	208	208	328	338	229.5	106	123.5	104	104	100	100	130	130	120	150	130.5	92.5	G1¼	12.3	12.9
CD(M) 120/20	232	232	356	376	250	118	132	116	116	120	120	150	150	140	170	133	95	G1¼	15.3	18.3
CD(M) 200/12	208	208	328	338	229.5	106	123.5	104	104	100	100	130	130	120	150	130.5	92.5	G1½	12.0	12.6
CD(M) 200/20	213	213	356	376	229.5	106	123.5	109	109	120	120	150	150	140	170	133	95	G1½	15.8	17.5
CD 200/25	-	232	-	376	250	118	132	-	116	-	120	-	150	140	170	138	100	G1½	-	18.3

[1]= Three phase only
[2]= Single phase only

SINGLE IMPELLER CENTRIFUGAL ELECTRIC PUMPS

in AISI 304

SECTIONAL VIEW

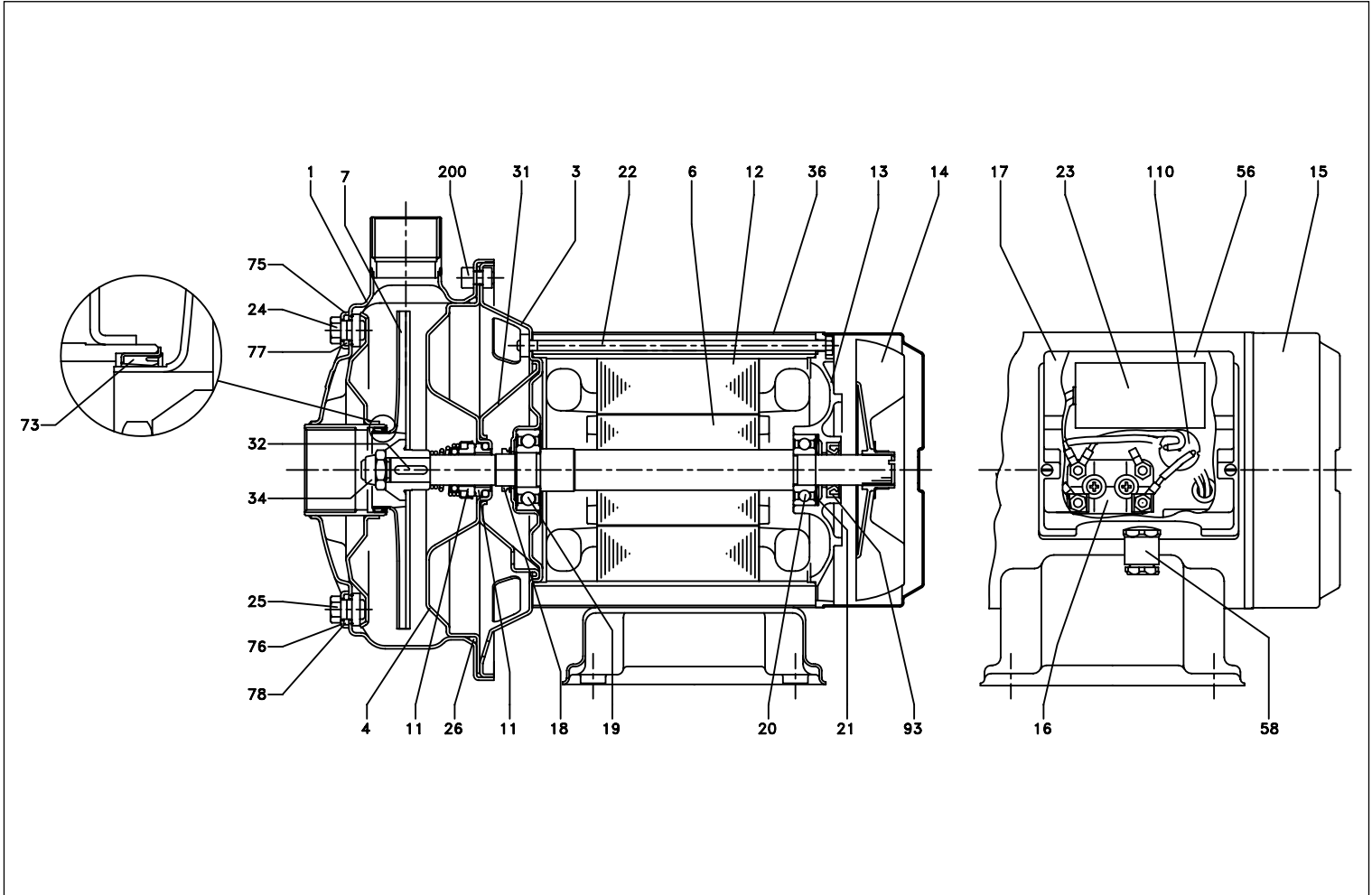


TABLE OF MATERIALS

Ref.	Name	Materials	Ref.	Name	Materials
1	Pump casing	EN 1.4301 (AISI 304)	24	Plug	EN 1.4301 (AISI 304)
3	Motor bracket	EN 1.4301 (AISI 304)	25	Plug	EN 1.4301 (AISI 304)
4	Casing cover	EN 1.4301 (AISI 304)	26	O-Ring [2]	NBR
6	Shaft	AISI 303 Part in contact with the liquid	31	Seal disc spacer	EN 1.4301 (AISI 304)
7	Impeller	EN 1.4301 (AISI 304)	32	Key	AISI 316
11	Mechanical seal	Ceramic/Carbon/NBR	34	Impeller nut	Stainless Steel A2-70
12	Motor frame	-	36	Motor casing	EN 1.4301 (AISI 304)
13	Motor cover	Aluminium	56	Terminal box cover gasket	NBR
14	Fan	PA	58	Cable input	-
15	Fan cover	EN 1.4301 (AISI 304)	73	Casing ring [3]	NBR
16	Terminal Box	-	75	Washer	EN 1.4301 (AISI 304)
17	Terminal Box cover	PA66 reinforced with fibreglass	76	Washer	EN 1.4301 (AISI 304)
18	Seal ring	NBR	77	O-Ring [2]	NBR
19	Bearing (pump side)	-	78	O-Ring [2]	NBR
20	Bearing (motor side)	-	93	Seal ring	NBR
21	Adjustment ring	Steel C70	110	Motor protector [1]	-
22	Tie-rod	Galvanised Fe 42	200	Screw (pump body)	Stainless Steel A2-70
23	Capacitor [1]	-			

[1]= Single phase only

[2]= FKM for CDH-CDHS-CDHW-CDHSW

EPDM for CDE, CD Q1AEGG, CD VAEGG, CD U3U3EGG, CD Q1U3EGG, CD U3CEGG

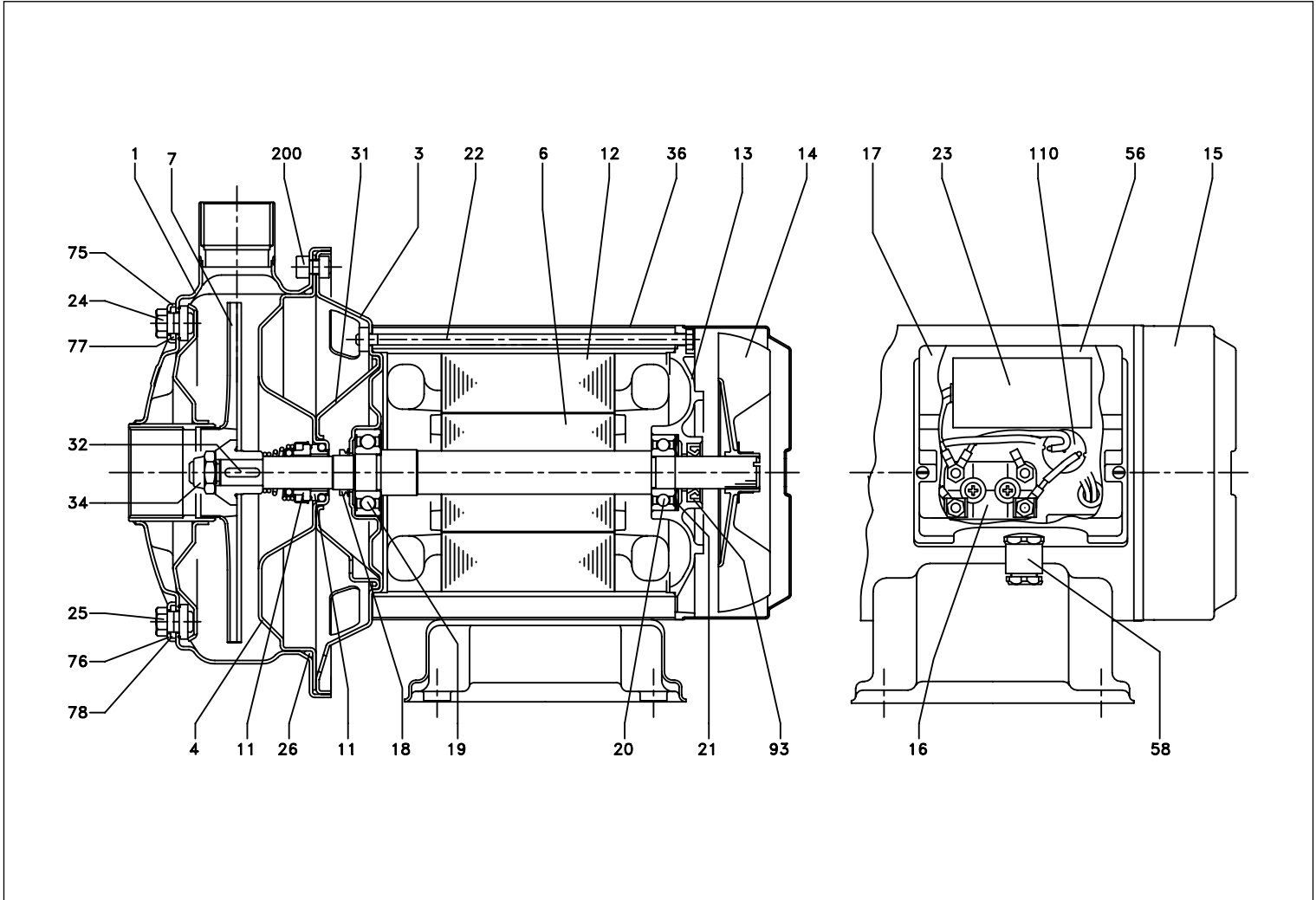
[3]= FKM for CDH-CDHS-CDHW-CDHSW

NBR for CDE, CD Q1AEGG, CD VAEGG, CD U3U3EGG, CD Q1U3EGG, CD U3CEGG

SINGLE IMPELLER CENTRIFUGAL ELECTRIC PUMPS

in AISI 304

SECTIONAL VIEW CD 70/12 - 120/07 - 120/20



MATERIALS TABLE

Ref.	Name	Materials	Ref.	Name	Materials
1	Pump casing	EN 1.4301 (AISI 304)	24	Plug	EN 1.4301 (AISI 304)
3	Motor bracket	EN 1.4301 (AISI 304)	25	Plug	EN 1.4301 (AISI 304)
4	Casing cover	EN 1.4301 (AISI 304)	26	O-Ring [2]	NBR
6	Shaft	AISI 303 Part in contact with the liquid	31	Seal disc spacer	EN 1.4301 (AISI 304)
7	Impeller	EN 1.4301 (AISI 304)	32	Key	AISI 316
11	Mechanical seal	Ceramic/Carbon/NBR	34	Impeller nut	Stainless Steel A2-70
12	Motor frame	-	36	Motor casing	EN 1.4301 (AISI 304)
13	Motor cover	Aluminium	56	Terminal box cover gasket	NBR
14	Fan	PA	58	Cable entry	-
15	Fan cover	EN 1.4301 (AISI 304)	73	Casing ring	-
16	Terminal Box	-	75	Washer	EN 1.4301 (AISI 304)
17	Terminal Box cover	PA66 reinforced with fibreglass	76	Washer	EN 1.4301 (AISI 304)
18	Seal ring	NBR	77	O-Ring [2]	NBR
19	Bearing (pump side)	-	78	O-Ring [2]	NBR
20	Bearing (motor side)	-	93	Seal ring	NBR
21	Adjustment ring	Steel C70	110	Motor protector [1]	-
22	Tie-rod	Galvanised Fe 42	200	Screw (pump body)	Stainless Steel A2-70
23	Capacitor [1]	-			

[1]= Single phase only

[2]= FKM for CDH-CDHS-CDHW-CDHSW

EPDM for CDE, CD Q1AEGG, CD VAEGG, CD U3U3EGG, CD Q1U3EGG, CD U3CEGG

SINGLE IMPELLER CENTRIFUGAL ELECTRIC PUMPS

in AISI 304

SECTIONAL VIEW CD 120/12 - 200/12 - 200/20 - 200/25

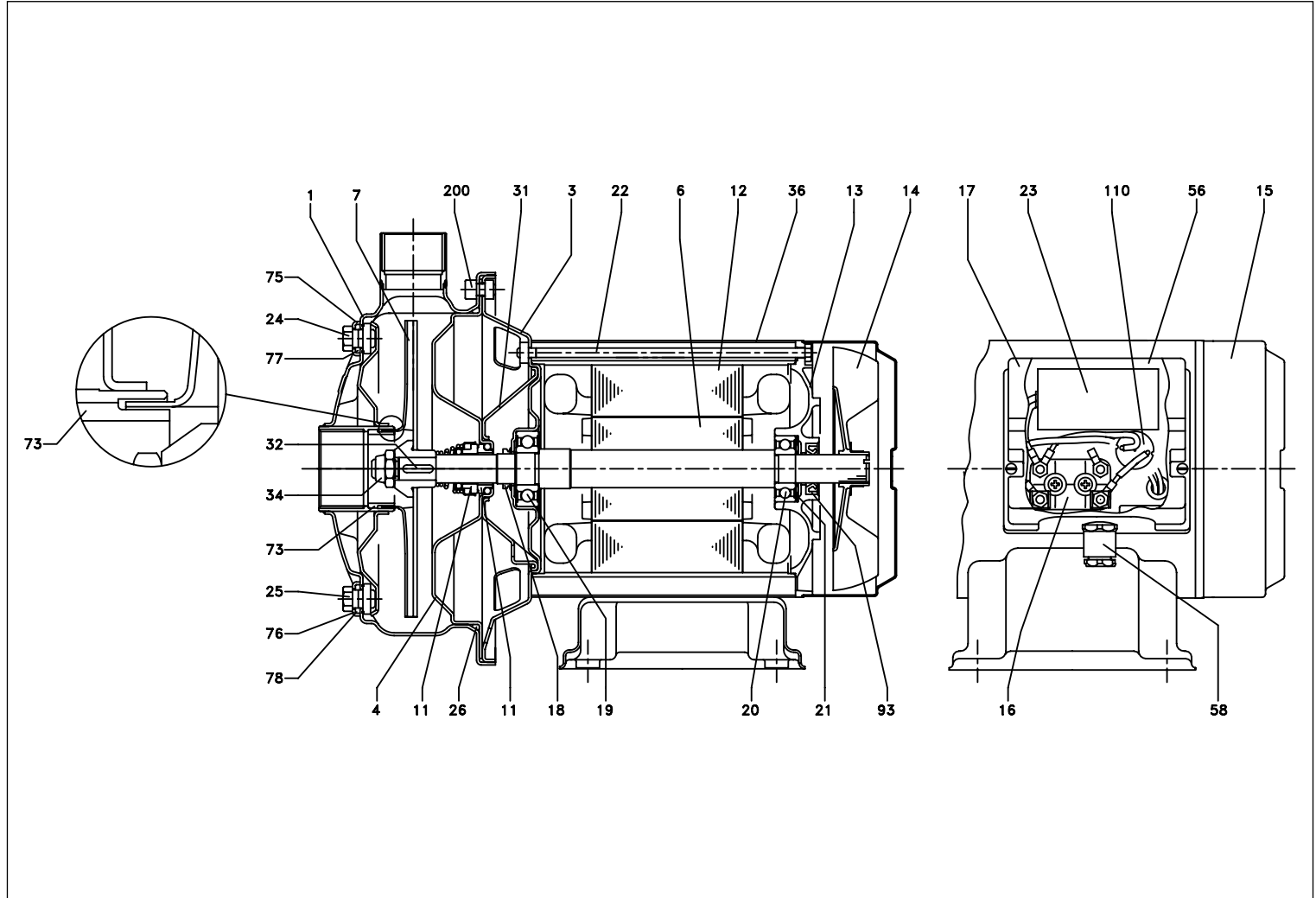


TABLE OF MATERIALS

Ref.	Name	Materials	Ref.	Name	Materials
1	Pump casing	EN 1.4301 (AISI 304)	24	Plug	EN 1.4301 (AISI 304)
3	Motor bracket	EN 1.4301 (AISI 304)	25	Plug	EN 1.4301 (AISI 304)
4	Casing cover	EN 1.4301 (AISI 304)	26	O-Ring [2]	NBR
6	Shaft	AISI 303 Part in contact with the liquid	31	Seal disc spacer	EN 1.4301 (AISI 304)
7	Impeller	EN 1.4301 (AISI 304)	32	Key	AISI 316
11	Mechanical seal	Ceramic/Carbon/NBR	34	Impeller nut	Stainless Steel A2-70
12	Motor frame	-	36	Motor casing	EN 1.4301 (AISI 304)
13	Motor cover	Aluminium	56	Terminal box cover gasket	NBR
14	Fan	PA	58	Cable entry	-
15	Fan cover	EN 1.4301 (AISI 304)	73	Double casing ring	EN 1.4301 (AISI 304)
16	Terminal Box	-	75	Washer	EN 1.4301 (AISI 304)
17	Terminal Box cover	PA66 reinforced with fibreglass	76	Washer	EN 1.4301 (AISI 304)
18	Seal ring	NBR	77	O-Ring [2]	NBR
19	Bearing (pump side)	-	78	O-Ring [2]	NBR
20	Bearing (motor side)	-	93	Seal ring	NBR
21	Adjustment ring	Steel C70	110	Motor protector [1]	-
22	Tie-rod	Galvanised Fe 42	200	Screw (pump body)	Stainless Steel A2-70
23	Capacitor [1]	-			

[1]= Single phase only

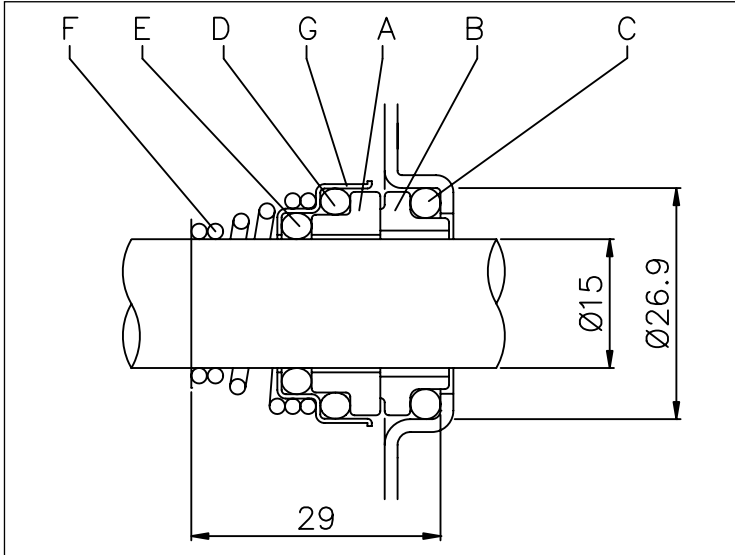
[2]= FKM for CDH-CDHS-CDHW-CDHSW

EPDM for CDE, CD Q1AEGG, CD VAEGG, CD U3U3EGG, CD Q1U3EGG, CD U3CEGG

SINGLE IMPELLER CENTRIFUGAL ELECTRIC PUMPS

in AISI 304

MECHANICAL SEAL standard



MATERIALS TABLE

Ref.	Name	Materials
A	Rotating part	Ceramic
B	Fixed part	Carbon
C	O-Ring	NBR
D	O-Ring	NBR
E	O-Ring	NBR
F	Spring	AISI 316
G	Structure/frame	AISI 304

SPECIAL MECHANICAL SEALS (on request)

Ref.	Name	Materials				
		H Version	HS Version	HW Version	HSW Version	E Version
A	Rotating part	Ceramic	Silicon Carbide	Tungsten Carbide	Silicon Carbide	Ceramic
B	Fixed part	Carbon	Silicon Carbide	Tungsten Carbide	Tungsten Carbide	Carbon
C	O-Ring	FKM	FKM	FKM	FKM	EPDM
D	O-Ring	FKM	FKM	FKM	FKM	EPDM
E	O-Ring	FKM	FKM	FKM	FKM	EPDM
F	Spring	AISI 316	AISI 316	AISI 316	AISI 316	AISI 316
G	Structure/frame	AISI 304	AISI 316	AISI 316	AISI 316	AISI 316

Ref.	Name	Materials				
		Q1AEGG Version	VAEGG Version	U3U3EGG Version	Q1U3EGG Version	U3CEGG Version
A	Rotating part	Silicon Carbide	Ceramic	Tungsten Carbide	Silicon Carbide	Tungsten Carbide
B	Fixed part	Metallised carbon	Metallised carbon	Tungsten Carbide	Tungsten Carbide	Special Carbon
C	O-Ring	EPDM	EPDM	EPDM	EPDM	EPDM
D	O-Ring	EPDM	EPDM	EPDM	EPDM	EPDM
E	O-Ring	EPDM	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

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SINGLE IMPELLER CENTRIFUGAL ELECTRIC PUMPS

in AISI 304

ELECTRIC DATA TABLE

Model		P ₂		Efficiency		Capacitor		Efficiency (%)			P ₁		Absorbed Current [A]		
Single phase 230V	Three phase 230/400V	[HP]	[kW]	Single phase	Three phase	Single phase μF	Three phase V-	Three phase η %			Single phase [kW]	Three phase [kW]	Single phase 230V	Three phase 230V	Three phase 400V
								50%	75%	100%					
CDM 70/05	CD 70/05	0,5	0,37	-	-	12,5	450	-	-	-	0,75	0,68	3,4	2,4	1,4
CDM 70/07	CD 70/07	0,75	0,55	-	-	16	450	-	-	-	1,1	1,0	5,0	3,5	2,0
CDM 70/12	CD 70/12	1,2	0,9	-	IE3	31,5	450	81,7	83,1	82,4	1,5	1,34	6,5	4,3	2,5
CDM 90/10	CD 90/10	1,0	0,75	-	IE3	20	450	80,9	-	82,1	1,2	1,05	5,6	3,3	1,9
CDM 120/07	CD 120/07	0,75	0,55	-	-	16	450	-	-	-	1,0	1,0	4,6	3,2	1,85
CDM 120/12	CD 120/12	1,2	0,9	-	IE3	31,5	450	81,7	83,1	82,4	1,6	1,34	6,9	4,3	2,5
CDM 120/20	CD 120/20	2,0	1,5	-	IE3	40	450	84,2	86,8	86,9	2,1	2,01	9,3	7,1	4,1
CDM 200/12	CD 200/12	1,2	0,9	-	IE3	31,5	450	81,7	83,1	82,4	1,4	1,34	6,3	4,3	2,5
CDM 200/20	CD 200/20	2,0	1,5	-	IE3	40	450	84,2	86,8	86,9	2,3	2,01	10,2	7,1	4,1
-	CD 200/25	2,5	1,85	-	IE3	-	-	86,2	87,0	86,0	-	2,55	-	8,2	4,7

NOISE DATA TABLE

Model		P ₂		L _{eq} - dB(A)*
Single phase 230V	Three phase 230/400V	[HP]	[kW]	
CDM 70/05	CD 70/05	0,5	0,37	<70
CDM 70/07	CD 70/07	0,75	0,55	
CDM 70/12	CD 70/12	1,2	0,9	
CDM 90/10	CD 90/10	1	0,75	
CDM 120/07	CD 120/07	0,75	0,55	
CDM 120/12	CD 120/12	1,2	0,9	
CDM 120/20	CD 120/20	2	1,5	
CDM 200/12	CD 200/12	1,2	0,9	
CDM 200/20	CD 200/20	2	1,5	
-	CD 200/25	2,5	1,85	

* Mean value of several measurements at 1 m distance around the pump.
Tolerance ± 2.5 dB.

CDX(L)

SINGLE IMPELLER CENTRIFUGAL ELECTRIC PUMPS

in AISI 304 and AISI 316



Single impeller centrifugal electric pumps with hydraulic parts in AISI 304 and AISI 316.

APPLICATIONS

- Domestic pressure boosting
- Small-scale garden irrigation
- Washing
- Treating water
- Cooling towers
- Pumping clean water in general

TECHNICAL DETAILS

- Solid hydraulic structure
- Small dimensions

PUMP TECHNICAL DATA

- Maximum working pressure: 8 bar
 - Maximum temperature of the liquid:
 - 5°C ÷ +60°C for CDX(L) and for E, Q1AEGG, VAEGG, U3U3EGG, Q1U3EGG e U3CEGG 70/05-70/07-90/10 versions
 - 5°C ÷ +90°C for the rest of the CDX(L) range
 - 5°C ÷ +110°C for the H-HS-HW-HSW version
 - 5°C ÷ +120°C for E, Q1AEGG, VAEGG, U3U3EGG, Q1U3EGG and U3CEGG versions
 - G1½ suction connection for CDX(L) 200, G1¼ for the rest of the range
 - G1 discharge connection
 - MEI > 0.4
- For further information please see our Data Book on the web site www.ebara-europe.com

MOTOR TECHNICAL DATA

- IE3 high energy-efficiency motors starting from 0.75kW
- Self-ventilated 2 pole asynchronous motor
- Class of insulation F
- IP55 protection degree
- 230V ±10% 50Hz single phase voltage, 230/400V ±10% 50Hz three phase voltage
- Permanent capacitor inserted and thermo-amperometric protection with automatic rearm incorporated for the single phase motor
- Protection under user's responsibility for the three phase version

MATERIALS

AISI 304 Version

- Pump casing, impeller, diffuser and casing cover in AISI 304
- Shaft in AISI 303 (part in contact with the liquid)

AISI 316 (L) Version

- Pump casing, impeller, diffuser and casing cover in AISI 316
- Shaft in AISI 316 (part in contact with the liquid)

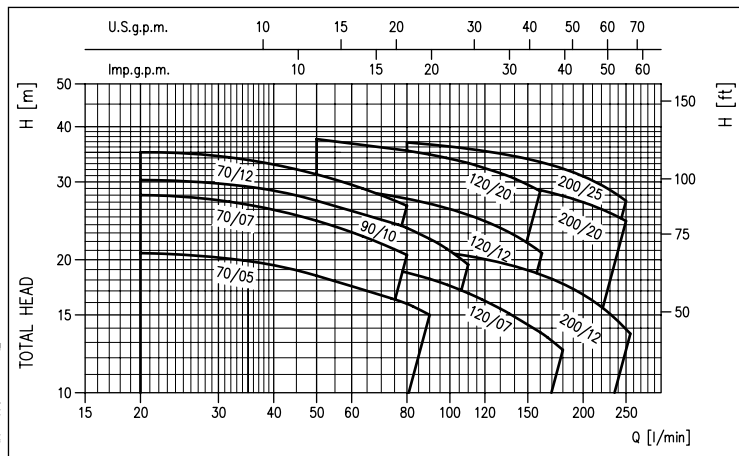
- Bracket and motor frame in aluminium
- Mechanical seal in:
 - Ceramic/Carbon/NBR (standard)
 - special versions: see p. 16

ACCESSORIES (On request)

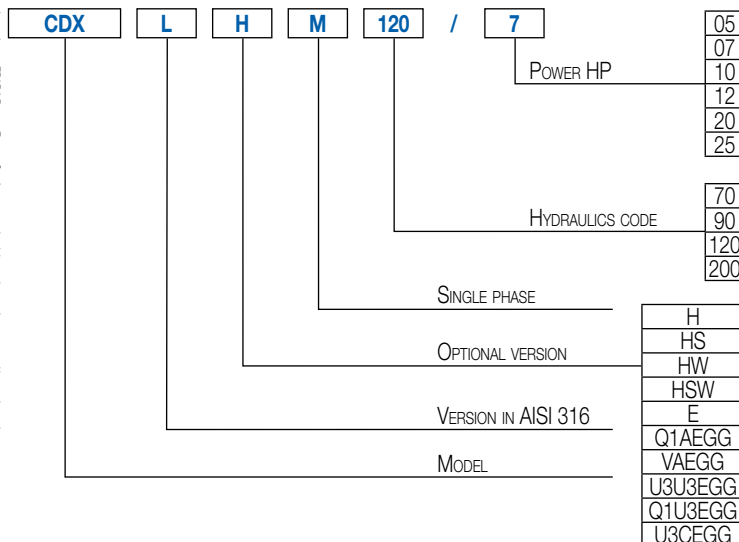
- Insulation casing for CDX (L) pump casing for applications with refrigerant liquids or liquids with high temperature variations that may generate condensate
- Electric panels
- Vessels
- Floats
- Pressure switches
- Presscomfort - Pressure regulator
- E-power - Variable speed control system
- E-drive - Variable speed control system



PERFORMANCE RANGE (according to ISO 9906 Attachment A)



IDENTIFICATION CODE



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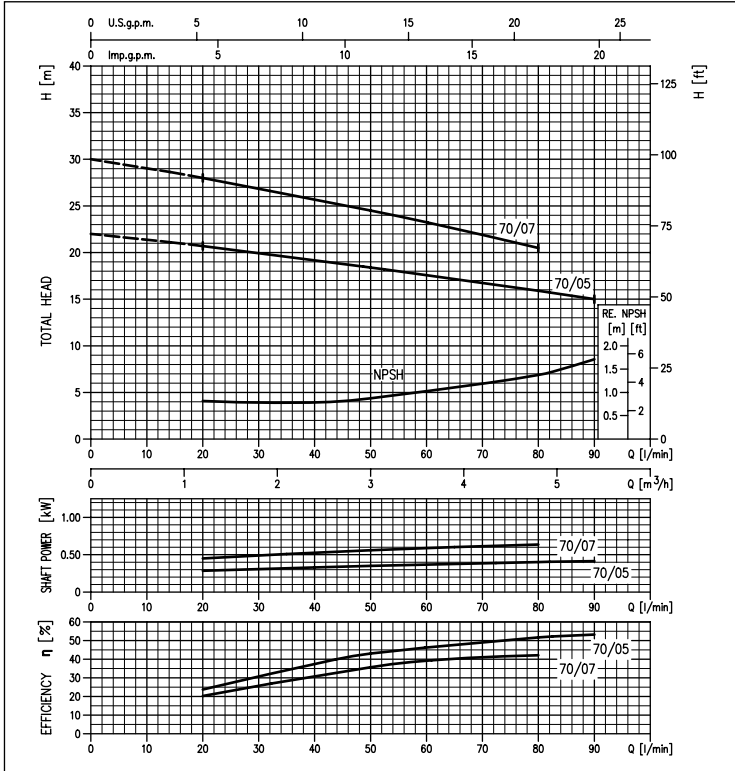
CDX(L)

SINGLE IMPELLER CENTRIFUGAL ELECTRIC PUMPS

in AISI 304 and AISI 316

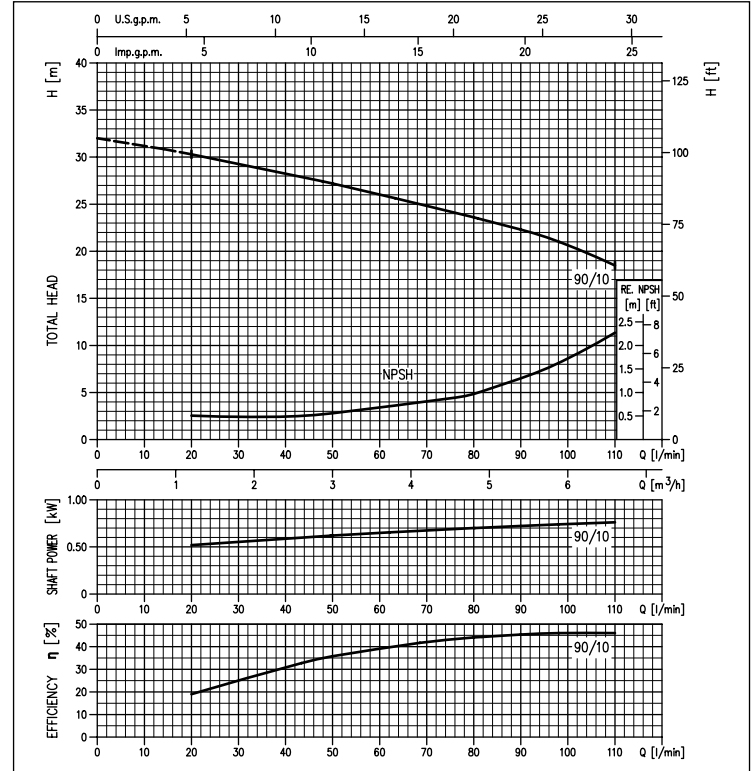
PERFORMANCE CURVES CDX(L) 70 series

(according to ISO 9906 Attachment A)



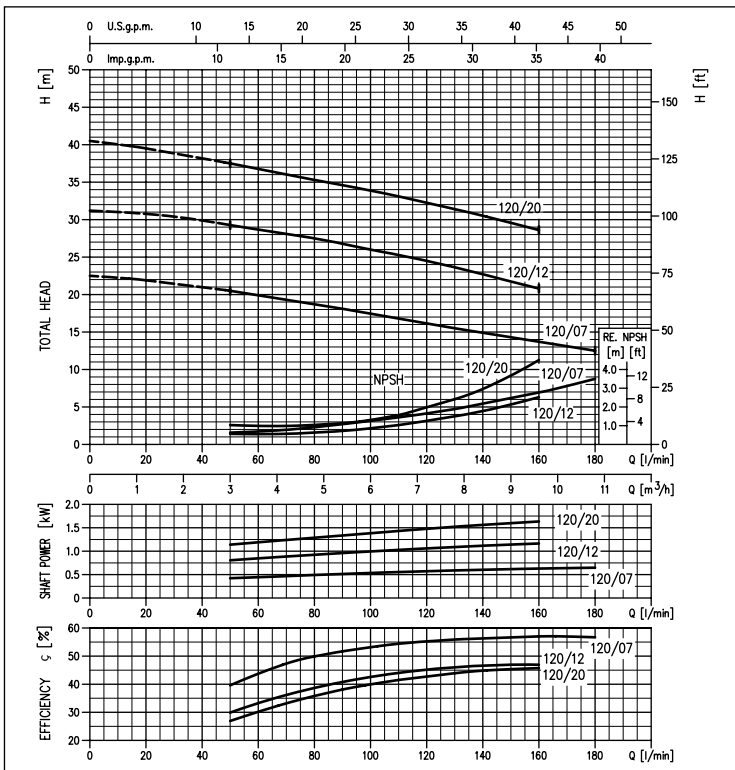
PERFORMANCE CURVES CDX(L) 90 series

(according to ISO 9906 Attachment A)



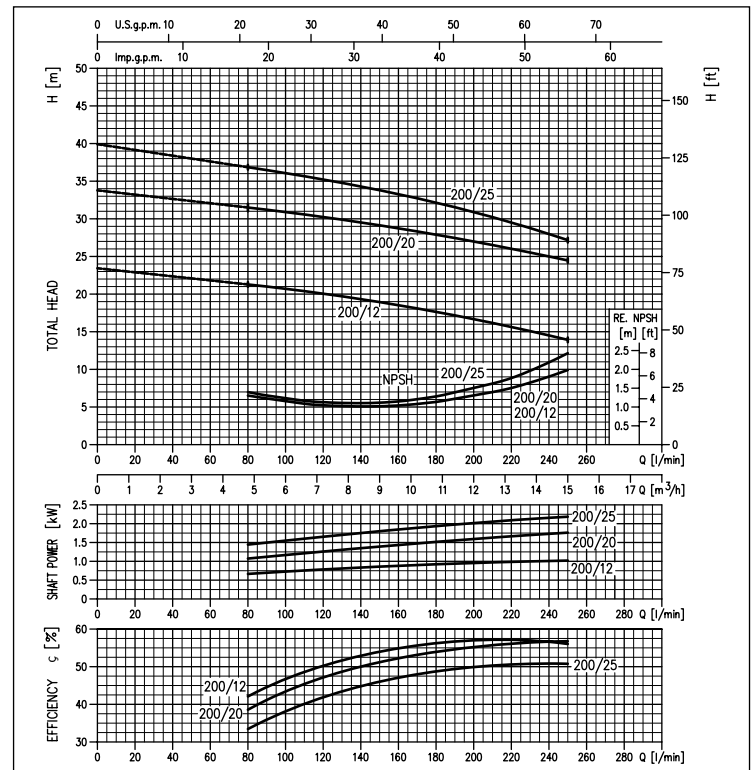
PERFORMANCE CURVES CDX(L) 120 series

(according to ISO 9906 Attachment A)



PERFORMANCE CURVES CDX(L) 200 series

(according to ISO 9906 Attachment A)



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CDX(L)

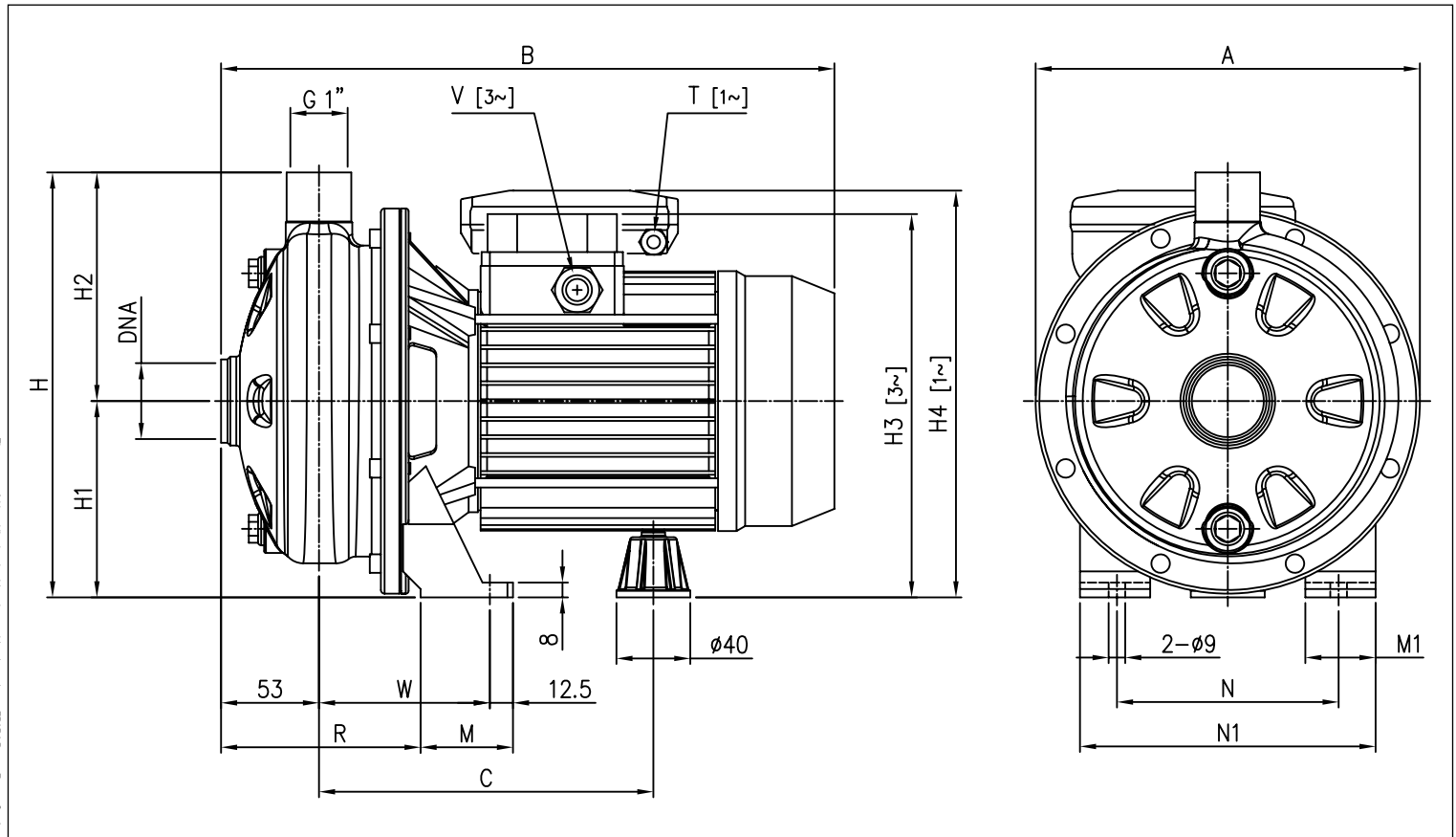
SINGLE IMPELLER CENTRIFUGAL ELECTRIC PUMPS

in AISI 304 and AISI 316

PERFORMANCE CHART

Model		P _e		Q = Flow Rate											
Single phase 230V	Three phase 230/400V	[HP]	[kW]	l/min	20	50	80	90	110	130	160	180	210	250	
				m ³ /h	1.2	3	4.8	5.4	6.6	7.8	9.6	10.8	12.6	15.0	
				H=Head [m]											
CDXM 70/05	CDX 70/05	0.5	0.37	20.7	18.4	15.9	15.0	-	-	-	-	-	-	-	
CDXM 70/07	CDX 70/07	0.75	0.55	28.0	24.5	20.5	-	-	-	-	-	-	-	-	
CDXM 90/10	CDX 90/10	1	0.75	30.3	27.2	23.6	22.3	19.5	-	-	-	-	-	-	
CDXM 120/07	CDX 120/07	0.75	0.55	-	20.5	18.7	18.1	16.8	15.5	13.7	12.5	-	-	-	
CDXM 120/12	CDX 120/12	1.2	0.9	-	29.3	27.5	26.8	25.2	23.6	21.0	-	-	-	-	
CDXM 120/20	CDX 120/20	2	1.5	-	37.5	35.3	34.6	33.1	31.4	28.6	-	-	-	-	
CDXM 200/12	CDX 200/12	1.2	0.9	-	-	21.3	21.0	20.4	19.7	18.5	17.6	16.0	14.0	-	
CDXM 200/20	CDX 200/20	2	1.5	-	-	31.5	31.2	30.6	30.0	28.7	27.9	26.5	24.5	-	
-	CDX 200/25	2.5	1.8	-	-	36.8	26.5	35.6	34.7	33.3	32.0	30.0	27.2	-	

DIMENSIONS



DIMENSIONAL TABLE

Modello	Dimensioni [mm]																			Peso [kg]	
	A	B [2]	B [1]	C	H	H1	H2	H3 [1]	H4 [2]	M	M1	N	N1	R	T [2]	[1]	V *	W	DNA	[2]	[1]
CDX(M) 70/05	208	321	320	181	229.5	106	123.5	207	216	50	38	120	160	108	PG11	PG11	-	92.5	G1 ¼	8.3	8.3
CDX(M) 70/07	208	321	320	181	229.5	106	123.5	207	216	50	38	120	160	108	PG11	PG11	-	92.5	G1 ¼	9.8	9.7
CDX(M) 90/10	208	321	320	181	229.5	106	123.5	207	216	50	38	120	160	108	PG11	PG11	M16x1.5	92.5	G1 ¼	11.0	11.0
CDX(M) 120/07	208	321	320	181	229.5	106	123.5	207	216	50	38	120	160	108	PG11	PG11	-	92.5	G1 ¼	9.6	9.5
CDX(M) 120/12	208	321	332	181	229.5	106	123.5	207	235	50	38	120	160	108	PG11	PG11	M16x1.5	92.5	G1 ¼	11.8	12.4
CDX(M) 120/20	232	346.5	371.5	198.5	250	118	132	237	248.5	55	40	140	180	105.5	PG13.5	PG11	M20x1.5	95	G1 ¼	16.5	18.1
CDX(M) 200/12	208	321	332	181	229.5	106	123.5	207	235	50	38	120	160	108	PG13.5	PG11	M16x1.5	92.5	G1 ½	11.4	12.2
CDX(M) 200/20	208	346.5	371.5	198.5	229.5	106	123.5	225	236.5	55	40	140	180	105.5	PG13.5	PG11	M20x1.5	95	G1 ½	15.3	17
CDX 200/25	232	-	371.5	198.5	250	118	132	237	-	55	40	140	180	105.5	-	PG11	M20x1.5	95	G1 ½	-	16.8

[1]= Three phase only

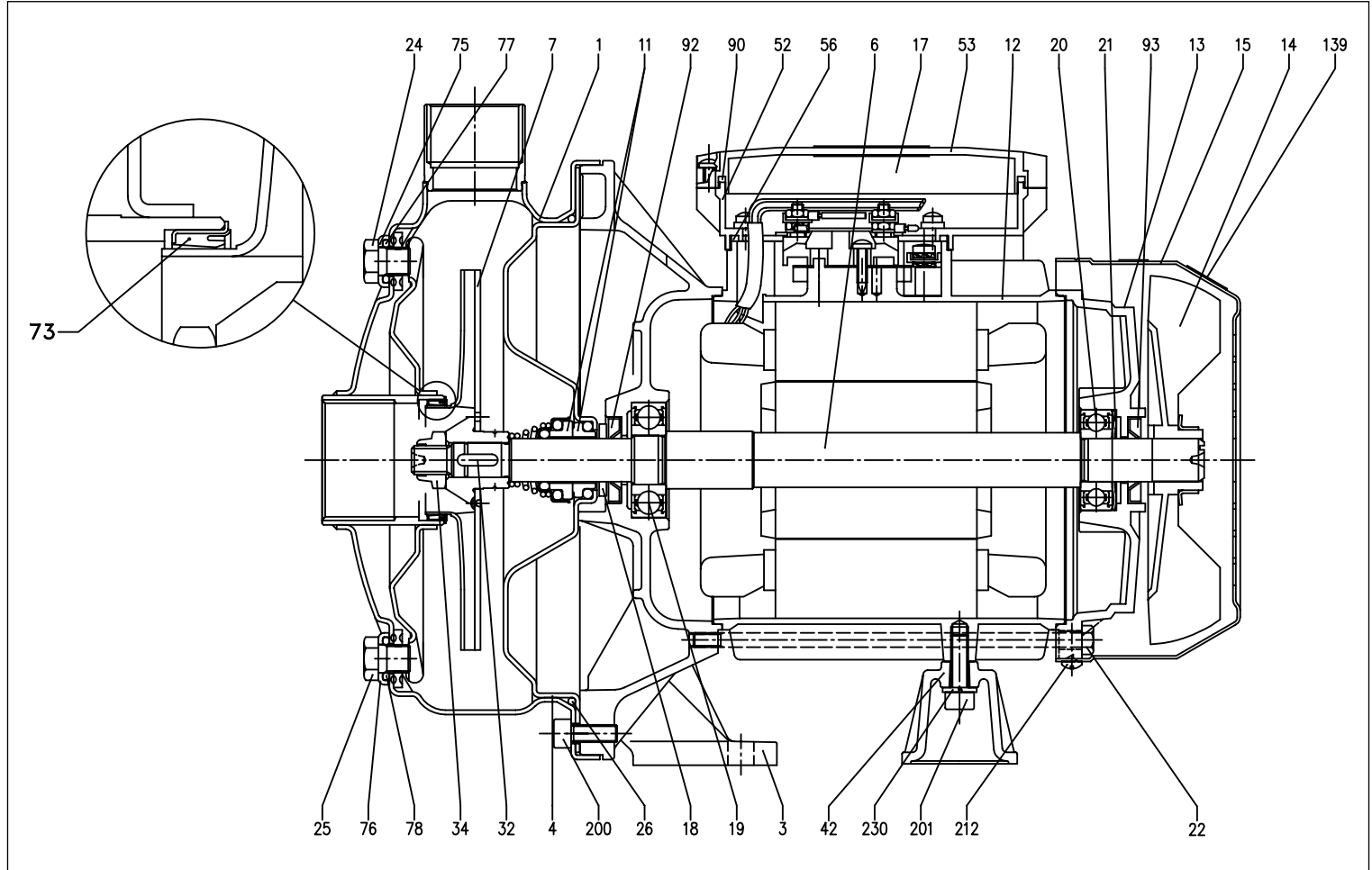
[2]= Single phase only

CDX(L)

SINGLE IMPELLER CENTRIFUGAL ELECTRIC PUMPS

in AISI 304 and AISI 316

SECTIONAL VIEW CDX(L) 70/05 - 70/07 - 90/10



MATERIALS TABLE

Ref.	Name	Materials	Ref.	Name	Materials
1	Pump casing	EN 1.4301 (AISI 304) / AISI 316	25	Plug	AISI 303 / AISI 316
3	Motor bracket	Aluminium	26	O-Ring [3]	NBR
4	Casing cover	EN 1.4301 (AISI 304) / AISI 316	32	Key	AISI 316
6	Shaft	AISI 303 / AISI 316 Part in contact with the liquid	34	Impeller nut	EN 1.4301 (AISI 304) / AISI 316
7	Impeller	EN 1.4301 (AISI 304) / AISI 316	42	Motor support	Aluminium
11	Mechanical seal [3]	Ceramic/Carbon/NBR	52	Terminal Box [2]	ABS
12	Motor frame	-	53	Terminal Box cover [2]	ABS
13	Motor cover	Aluminium	56	Terminal box cover gasket	NBR
14	Fan	PA	73	Casing ring [4]	EN 1.4301 (AISI 304)
15	Fan cover	Galvanised Fe P04	75	Washer	EN 1.4301 (AISI 304) / AISI 316
16	Terminal Box	-	76	Washer	EN 1.4301 (AISI 304) / AISI 316
17	Terminal Box cover [1]	Aluminium	77	O-Ring [3]	NBR
18	Splash ring	NBR	78	O-Ring [3]	NBR
19	Bearing (pump side)	-	90	Gasket [2]	NBR
20	Bearing (motor side)	-	92	Seal ring	-
21	Adjustment ring	Steel C70	93	Seal ring	-
22	Tie-rod	Galvanised Fe 42	110	Motor protector [2]	-
23	Capacitor [2]	-	200	Screw (pump body)	Stainless Steel A2 UNI7323
24	Plug	AISI 303 / AISI 316			

[1]= Three-phase only [2]= Single phase only

[3]= FKM for CDX(L)H, CDX(L)HS, CDX(L)HW, CDX(L)HSW

EPDM for CDX(L)E, CDX(L)Q1AEGG, CDX(L)VAEGG, CDX(L)U3U3EGG, CDX(L)Q1U3EGG, CDX(L)U3CEGG

[4]= FKM for CDX(L)H, CDX(L)HS, CDX(L)HW, CDX(L)HSW

NBR for CDX(L)E, CDX(L)Q1AEGG, CDX(L)VAEGG, CDX(L)U3U3EGG, CDX(L)Q1U3EGG, CDX(L)U3CEGG

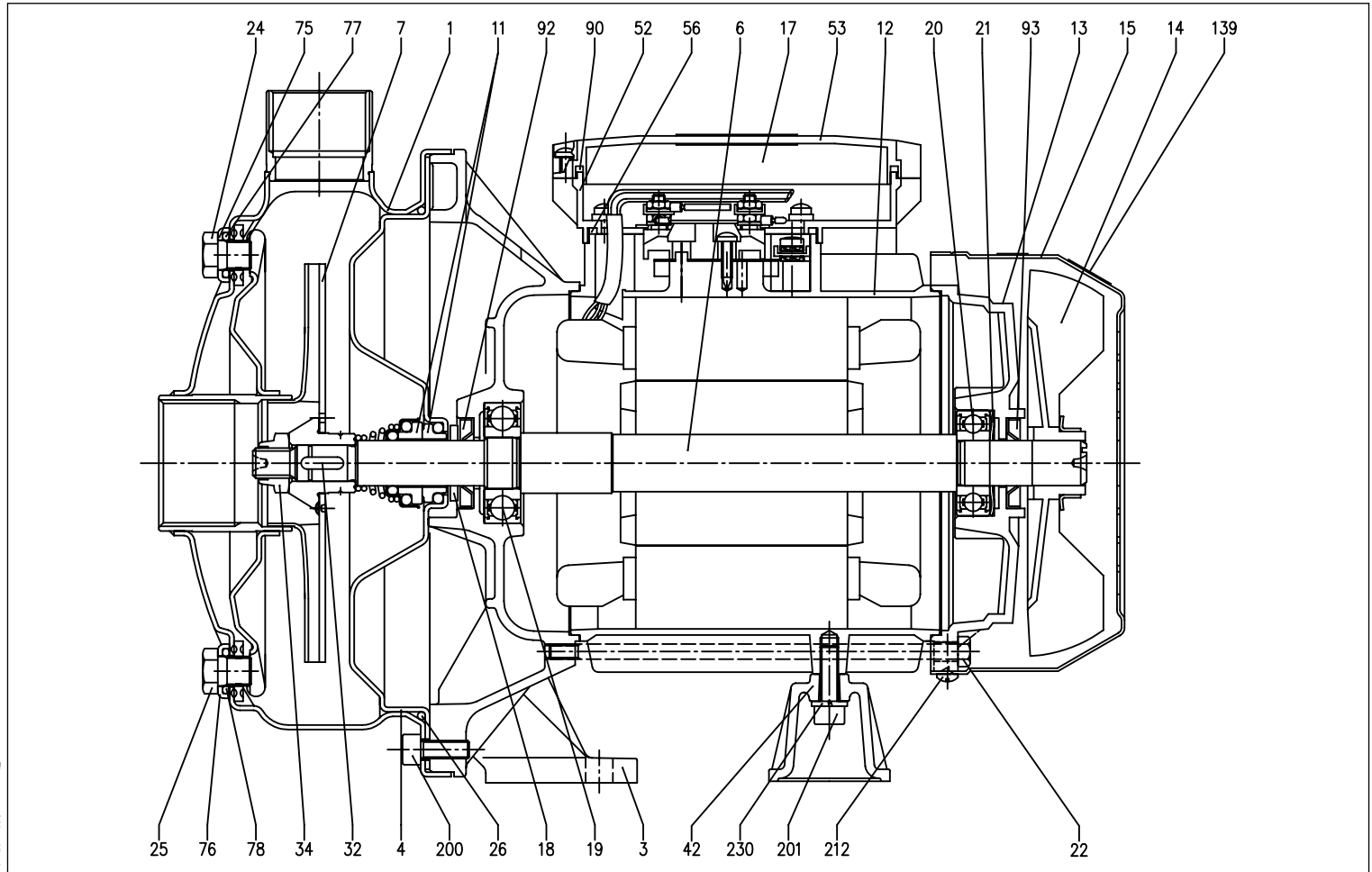
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CDX(L)

SINGLE IMPELLER CENTRIFUGAL ELECTRIC PUMPS

in AISI 304 and AISI 316

SECTIONAL VIEW CDX(L) 120/07 - 120/20



MATERIALS TABLE

Ref.	Name	Materials	Ref.	Name	Materials
1	Pump casing	EN 1.4301 (AISI 304) / AISI 316	25	Plug	AISI 303 / AISI 316
3	Motor bracket	Aluminium	26	O-Ring [3]	NBR
4	Casing cover	EN 1.4301 (AISI 304) / AISI 316	32	Key	AISI 316
6	Shaft	AISI 303 / AISI 316 Part in contact with the liquid	34	Impeller nut	EN 1.4301 (AISI 304) / AISI 316
7	Impeller	EN 1.4301 (AISI 304) / AISI 316	42	Motor support	Aluminium
11	Mechanical seal [3]	Ceramic/Carbon/NBR	52	Terminal Box [2]	ABS
12	Motor frame	-	53	Terminal Box cover [2]	ABS
13	Motor cover	Aluminium	56	Terminal box cover gasket	NBR
14	Fan	PA	73	Casing ring	-
15	Fan cover	Galvanised Fe P04	75	Washer	EN 1.4301 (AISI 304) / AISI 316
16	Terminal Box	-	76	Washer	EN 1.4301 (AISI 304) / AISI 316
17	Terminal Box cover [1]	Aluminium	77	O-Ring [3]	NBR
18	Splash ring	NBR	78	O-Ring [3]	NBR
19	Bearing (pump side)	-	90	Gasket [2]	NBR
20	Bearing (motor side)	-	92	Seal ring	-
21	Adjustment ring	Steel C70	93	Seal ring	-
22	Tie-rod	Galvanised Fe 42	110	Motor protector [2]	-
23	Capacitor [2]	-	200	Screw (pump body)	Stainless Steel A2 UNI7323
24	Plug	AISI 303 / AISI 316			

[1]= Three-phase only [2]= Single phase only

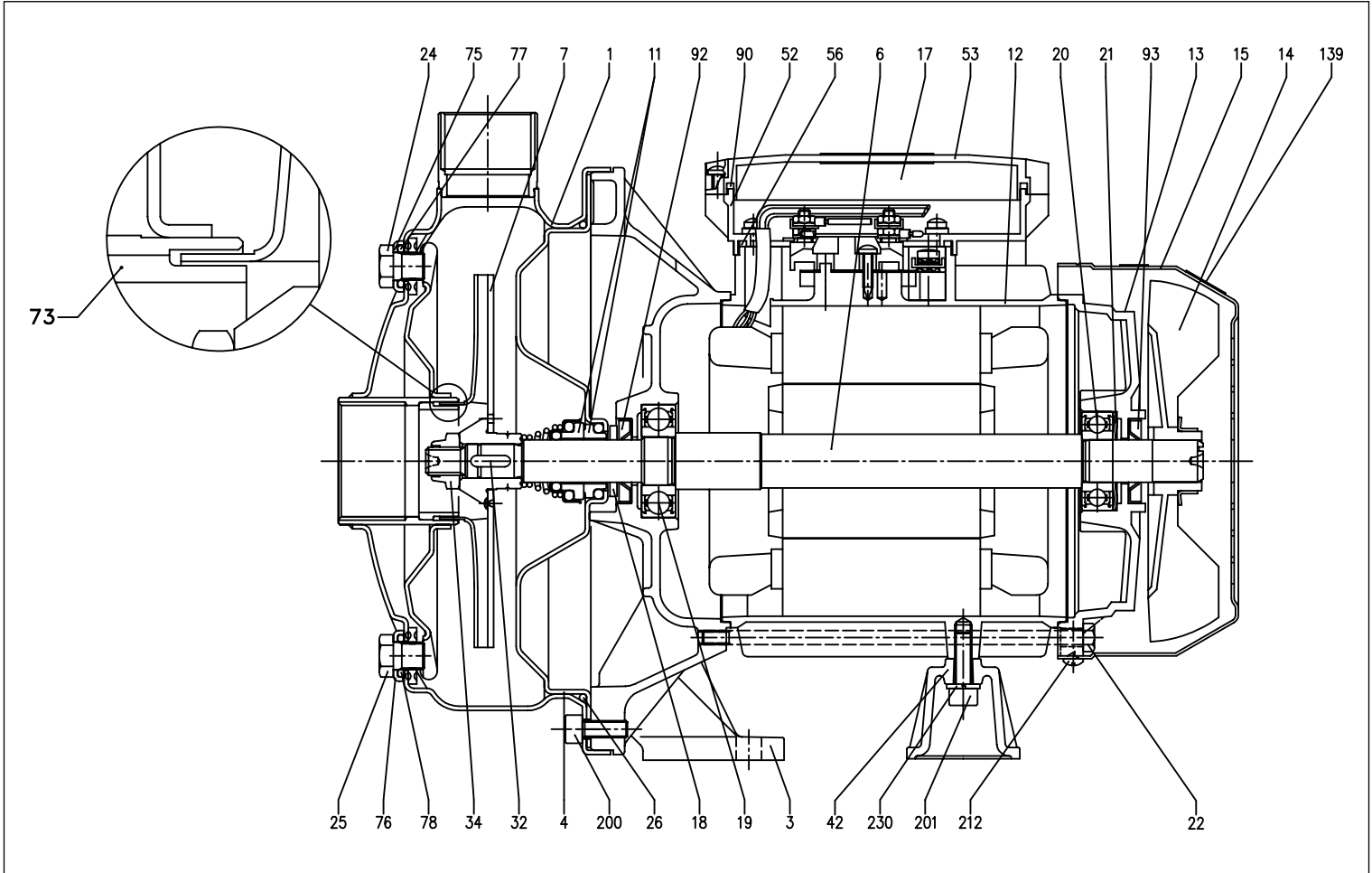
[3]= FKM for CDX(L)H, CDX(L)HS, CDX(L)HW, CDX(L)HSW

EPDM for CDX(L)E, CDX(L) Q1AEGG, CDX(L) VAEGG, CDX(L) U3U3EGG, CDX(L) Q1U3EGG, CDX(L) U3CEGG

SINGLE IMPELLER CENTRIFUGAL ELECTRIC PUMPS

in AISI 304 and AISI 316

SECTIONAL VIEW CDX(L) 120/12 - 200/12 - 200/20 - 200/25



MATERIALS TABLE

Ref.	Name	Materials	Ref.	Name	Materials
1	Pump casing	EN 1.4301 (AISI 304) / AISI 316	25	Plug	AISI 303 / AISI 316
3	Motor bracket	Aluminium	26	O-Ring [3]	NBR
4	Casing cover	EN 1.4301 (AISI 304) / AISI 316	32	Key	AISI 316
6	Shaft	AISI 303 / AISI 316 Part in contact with the liquid	34	Impeller nut	EN 1.4301 (AISI 304) / AISI 316
7	Impeller	EN 1.4301 (AISI 304) / AISI 316	42	Motor support	Aluminium
11	Mechanical seal [3]	Ceramic/Carbon/NBR	52	Terminal Box [2]	ABS
12	Motor frame	-	53	Terminal Box cover [2]	ABS
13	Motor cover	Aluminium	56	Terminal box cover gasket	NBR
14	Fan	PA	73	Double casing ring	EN 1.4301 (AISI 304) / AISI 316
15	Fan cover	Galvanised Fe P04	75	Washer	EN 1.4301 (AISI 304) / AISI 316
16	Terminal Box	-	76	Washer	EN 1.4301 (AISI 304) / AISI 316
17	Terminal Box cover [1]	Aluminium	77	O-Ring [3]	NBR
18	Splash ring	NBR	78	O-Ring [3]	NBR
19	Bearing (pump side)	-	90	Gasket [2]	NBR
20	Bearing (motor side)	-	92	Seal ring	-
21	Adjustment ring	Steel C70	93	Seal ring	-
22	Tie-rod	Galvanised Fe 42	110	Motor protector [2]	-
23	Capacitor [2]	-	200	Screw (pump body)	Stainless Steel A2 UNI7323
24	Plug	AISI 303 / AISI 316			

[1]= Three-phase only [2]= Single phase only

[3]= FKM for CDX(L)H, CDX(L)HS, CDX(L)HW, CDX(L)HSW

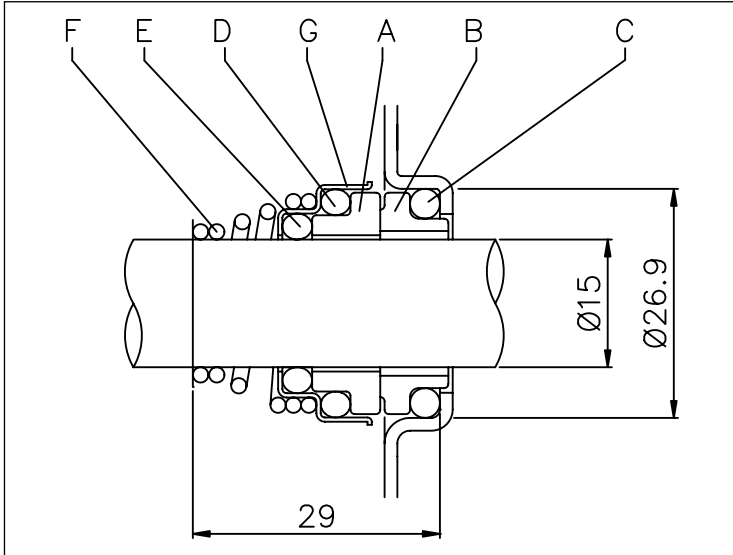
EPDM for CDX(L)E, CDX(L) Q1AEGG, CDX(L) VAEGG, CDX(L) U3U3EGG, CDX(L) Q1U3EGG, CDX(L) U3CEGG

CDX(L)

SINGLE IMPELLER CENTRIFUGAL ELECTRIC PUMPS

in AISI 304 and AISI 316

MECHANICAL SEAL standard



MATERIALS TABLE

Ref.	Name	Materials
A	Rotating part	Ceramic
B	Fixed part	Carbon
C	O-Ring	NBR
D	O-Ring	NBR
E	O-Ring	NBR
F	Spring	AISI 316
G	Structure/frame	AISI 304

SPECIAL MECHANICAL SEALS (on request)

Ref.	Name	Materials				
		H Version	HS Version	HW Version	HSW Version	E Version
A	Rotating part	Ceramic	Silicon Carbide	Tungsten Carbide	Silicon Carbide	Ceramic
B	Fixed part	Carbon	Silicon Carbide	Tungsten Carbide	Tungsten Carbide	Carbon
C	O-Ring	FKM	FKM	FKM	FKM	EPDM
D	O-Ring	FKM	FKM	FKM	FKM	EPDM
E	O-Ring	FKM	FKM	FKM	FKM	EPDM
F	Spring	AISI 316	AISI 316	AISI 316	AISI 316	AISI 316
G	Structure/frame	AISI 304	AISI 316	AISI 316	AISI 316	AISI 316

Ref.	Name	Materials				
		Q1AEGG Version	VAEGG Version	U3U3EGG Version	Q1U3EGG Version	U3CEGG Version
A	Rotating part	Silicon Carbide	Ceramic	Tungsten Carbide	Silicon Carbide	Tungsten Carbide
B	Fixed part	Metallised carbon	Metallised carbon	Tungsten Carbide	Tungsten Carbide	Special Carbon
C	O-Ring	EPDM	EPDM	EPDM	EPDM	EPDM
D	O-Ring	EPDM	EPDM	EPDM	EPDM	EPDM
E	O-Ring	EPDM	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

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CDX(L)

SINGLE IMPELLER CENTRIFUGAL ELECTRIC PUMPS

in AISI 304 and AISI 316

ELECTRIC DATA TABLE

Model		P ₂		Efficiency		Capacitor		Efficiency (%)			P ₁		Absorbed Current [A]		
Single phase 230V	Three phase 230/400V	[HP]	[kW]	Single phase	Three phase	Single phase μF	Three phase V.	Three phase η %			Single phase [kW]	Three phase [kW]	Single phase 230V	Three phase 230V	Three phase 400V
								50%	75%	100%					
CDXM 70/05	CDX 70/05	0,5	0,37	-	-	12,5	450	-	-	-	0,75	0,68	3,4	2,4	1,4
CDXM 70/07	CDX 70/07	0,75	0,55	-	-	16	450	-	-	-	1,1	1,0	5,0	3,5	2,0
CDXM 90/10	CDX 90/10	1	0,75	-	IE3	20	450	80,9	82,3	82,1	1,2	0,91	5,6	3,0	1,7
CDXM 120/07	CDX 120/07	0,75	0,55	-	-	16	450	-	-	-	1,0	1,0	4,6	3,2	1,85
CDXM 120/12	CDX 120/12	1,2	0,9	-	IE3	31,5	450	81,7	83,1	82,4	1,6	1,34	6,9	4,3	2,5
CDXM 120/20	CDX 120/20	2	1,5	-	IE3	40	450	84,2	86,8	86,9	2,1	2,01	9,3	7,1	4,1
CDXM 200/12	CDX 200/12	1,2	0,9	-	IE3	31,5	450	81,7	83,1	82,4	1,4	1,34	6,3	4,3	2,5
CDXM 200/20	CDX 200/20	2	1,5	-	IE3	40	450	84,2	86,8	86,9	2,3	2,01	10,2	7,1	4,1
-	CDX 200/25	2,5	1,8	-	IE3	-	-	86,2	87,0	86,0	-	2,55	-	8,2	4,7

NOISE DATA TABLE

Model		P ₂		L _{pa} - dB(A)*
Single phase 230V	Three phase 230/400V	[HP]	[kW]	
CDXM 70/05	CDX 70/05	0,5	0,37	61
CDXM 70/07	CDX 70/07	0,75	0,55	62
CDXM 90/10	CDX 90/10	1	0,75	62
CDXM 120/07	CDX 120/07	0,75	0,55	62
CDXM 120/12	CDX 120/12	1,2	0,9	62
CDXM 120/20	CDX 120/20	2	1,5	64
CDXM 200/12	CDX 200/12	1,2	0,9	62
CDXM 200/20	CDX 200/20	2	1,5	64
-	CDX 200/25	2,5	1,8	65

* Mean value of several measurements at 1 m distance around the pump.
Tolerance ± 2.5 dB.

Insulation casing



For applications with refrigerant liquids or liquids with high thermal difference that may generate condensate

2CDX(L)

DUAL IMPELLER CENTRIFUGAL ELECTRIC PUMPS

in AISI 304 and AISI 316



Dual impeller centrifugal electric pumps with hydraulic parts in AISI 304 and AISI 316.

APPLICATIONS

- Domestic pressure boosting
- Small-scale garden irrigation
- Washing
- Treating water
- Cooling towers
- Pumping clean water in general

TECHNICAL DETAILS

- Sturdy structure
- Small dimensions

PUMP TECHNICAL DATA

- Maximum working pressure: 8 bar
- Maximum temperature of the liquid:
 - 5°C ÷ +60°C 2CDX(L) for E, Q1AEGG, VAEGG, U3U3EGG, Q1U3EGG and U3CEGG versions
 - 5°C ÷ +110° for H-HS-HW-HSW versions
- G1½ suction connection for 2CDX(L) 200, G1¼ for the rest of the range
- G1 discharge connection

MOTOR TECHNICAL DATA

- IE3 high energy-efficiency motors starting from 0.75kW
- Self-ventilated 2 pole asynchronous motor
- Class of insulation F
- IP55 protection degree
- 230V ±10% 50Hz single phase voltage, 230/400V ±10% 50Hz three phase voltage
- Permanent capacitor inserted and thermo-amperometric protection with automatic rearm incorporated for the single phase motor
- Protection under user's responsibility for the three phase version

MATERIALS

AISI 304 Version

- Pump casing, impeller, shaft, diffuser and seal housing disc in EN 1.4301 (AISI 304)

AISI 316 (L) Version

- Pump casing, impeller, shaft, diffuser and seal housing disc in AISI 316

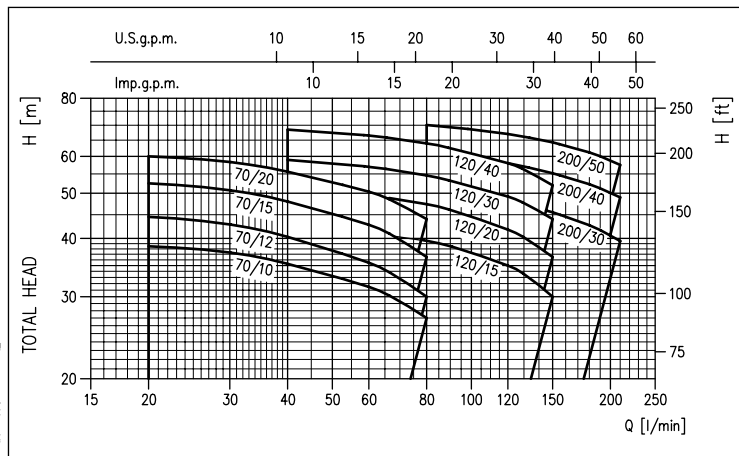
- Aluminium motor bracket (up to 1.5 kW included), in cast iron (2.2 kW and above)
- Mechanical seal in:
 - Ceramic/Carbon/NBR (standard)
 - special versions: see p. 22

ACCESSORIES (On request)

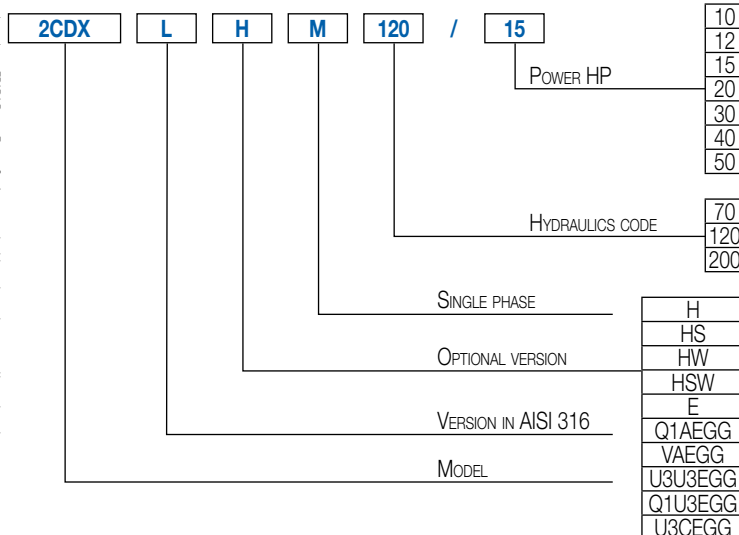
- Insulation casing for 2CDX (L) pump casing for applications with refrigerant liquids or liquids with high thermal difference that may generate condensate
- Electric panels
- Vessels
- Floats
- Pressure switches
- Presscomfort - Pressure regulator
- E-power - Variable speed control system
- E-drive - Variable speed control system



PERFORMANCE RANGE (according to ISO 9906 Attachment A)



IDENTIFICATION CODE



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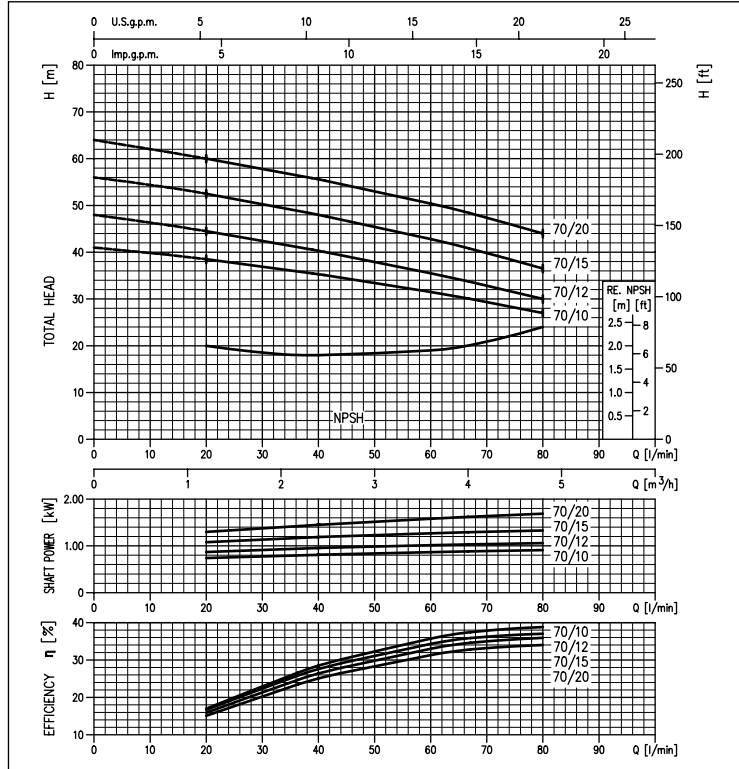
2CDX(L)

DUAL IMPELLER CENTRIFUGAL ELECTRIC PUMPS

in AISI 304 and AISI 316

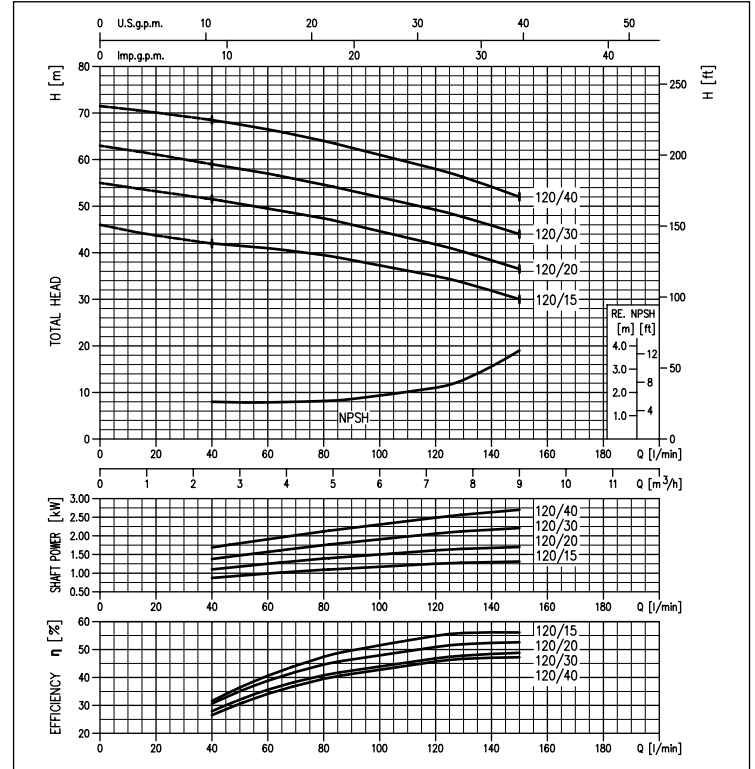
PERFORMANCE CURVES 2CDX 70 series

(according to ISO 9906 Attachment A)



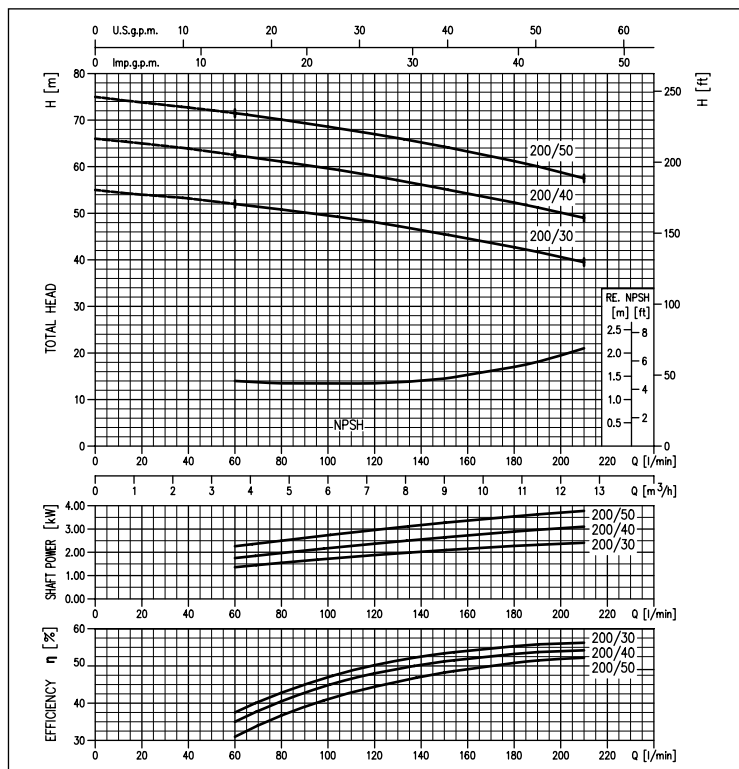
PERFORMANCE CURVES 2CDX 120 series

(according to ISO 9906 Attachment A)



PERFORMANCE CURVES 2CDX 200 series

(according to ISO 9906 Attachment A)



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2CDX(L)

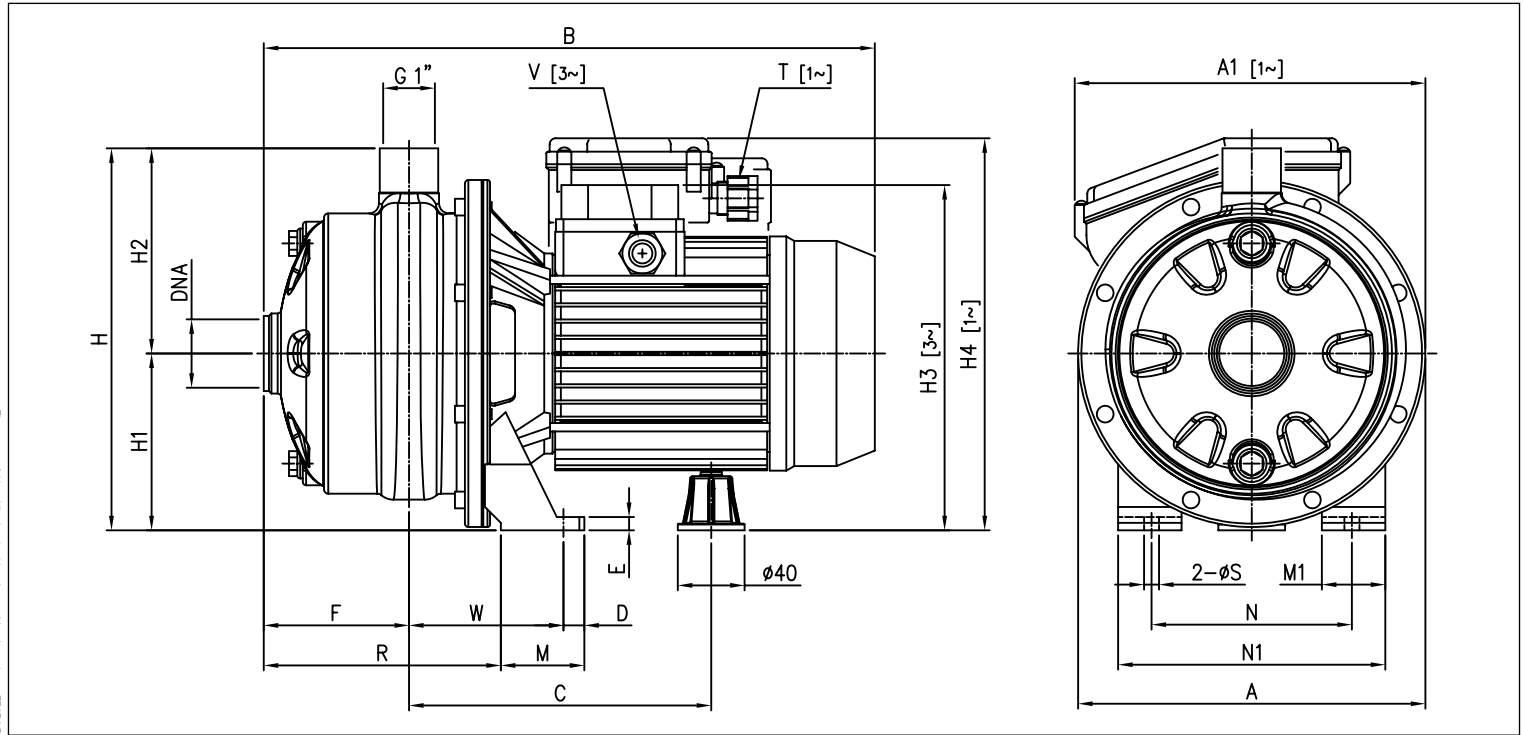
DUAL IMPELLER CENTRIFUGAL ELECTRIC PUMPS

in AISI 304 and AISI 316

PERFORMANCE CHART

Single phase 230V	Model Three phase 230/400V	P _e		Q = Flow Rate											
		[HP]	[kW]	l/min	20	40	60	80	120	150	180	210			
				m ³ /h	1.2	2.4	3.6	4.8	7.2	9	10.8	12.6			
				H=Head [m]											
2CDXM 70/10	2CDX 70/10	1	0.75	38.5	35.3	31.5	27.0	-	-	-	-	-	-	-	-
2CDXM 70/12	2CDX 70/12	1.2	0.9	44.5	40.3	35.5	30.0	-	-	-	-	-	-	-	-
2CDXM 70/15	2CDX 70/15	1.5	1.1	52.5	48.0	42.8	36.5	-	-	-	-	-	-	-	-
2CDXM 70/20	2CDX 70/20	2	1.5	60.0	55.6	50.4	44.0	-	-	-	-	-	-	-	-
2CDXM 120/15	2CDX 120/15	1.5	1.1	-	42.0	41.0	39.5	35.0	30.0	-	-	-	-	-	-
2CDXM 120/20	2CDX 120/20	2	1.5	-	51.5	49.5	47.4	41.8	36.5	-	-	-	-	-	-
-	2CDX 120/30	3	2.2	-	59.0	57.0	54.6	49.2	44.0	-	-	-	-	-	-
-	2CDX 120/40	4	3	-	68.5	66.5	64.0	58.0	52.0	-	-	-	-	-	-
-	2CDX 200/30	3	2.2	-	-	52.0	50.8	48.1	45.5	42.7	39.5	-	-	-	-
-	2CDX 200/40	4	3	-	-	62.5	61.1	58.0	55.2	52.3	49.0	-	-	-	-
-	2CDX 200/50	5	3.7	-	-	71.5	70.1	67.0	64.3	61.2	57.5	-	-	-	-

DIMENSIONS



DIMENSIONAL TABLE

Modello	A	A1 [2]**	B [2]	B [1]	C	D	E	F	H	Dimensioni [mm]				M	M1	N	N1	R	T [2]	V [1]	W	S	DNA	Peso [kg]	
										H1	H2	H3 [1]	H4 [2]											[2]	[1]
2CDX(M) 70/10	208	-	355	354	181	12,5	8	87	229	106	123	207	216	50	38	120	160	142	PG 11	M16x1,5	92,5	9	G1¼	12,7	12,6
2CDX(M) 70/12	208	210	355	366	181	12,5	8	87	229	106	123	207	235	50	38	120	160	142	PG 13,5	M16x1,5	92,5	9	G1¼	13,3	13,7
2CDX(M) 70/15	232	-	395,5	407	198,5	12,5	8	89	250	118	132	237	248,5	55	40	140	180	141,5	PG 13,5	M20x1,5	95	9	G1¼	17,5	17,0
2CDX(M) 70/20	232	-	382,5	407,5	198,5	12,5	8	89	250	118	132	237	248,5	55	40	140	180	141,5	PG 13,5	M20x1,5	95	9	G1¼	18,5	20,1
2CDX(M) 120/15	208	210	395,5	407	198,5	12,5	8	89	229	106	123	225	236,5	55	40	140	180	141,5	PG 13,5	M20x1,5	95	9	G1¼	16,3	15,6
2CDX(M) 120/20	208	210	382,5	407,5	198,5	12,5	8	89	229	106	123	225	236,5	55	40	140	180	141,5	PG 13,5	M20x1,5	95	9	G1¼	17,0	18,3
2CDX 120/30	232	-	-	405	223,5÷234,5	12,5	10	87	250	118	132	237	-	65	40	140	180	143,5	-	M20x1,5	109	9	G1¼	-	26,1
2CDX 120/40	232	-	-	458	223,5÷234,5	12,5	10	87	250	118	132	242	-	65	40	140	180	143,5	-	M20x1,5	109	9	G1¼	-	27,8
2CDX 200/30	208	-	-	458	223,5÷234,5	12,5	10	87	229	106	123	230	-	65	40	140	180	143,5	-	M20x1,5	109	9	G1½	-	26,6
2CDX 200/40	232	-	-	458	223,5÷234,5	12,5	10	87	250	118	132	242	-	65	40	140	180	143,5	-	M20x1,5	109	9	G1½	-	27,6
2CDX 200/50	232	-	-	481	232,5	16	12	87	250	118	132	259	-	68	50	160	210	143,5	-	M20x1,5	108,5	12	G1½	-	35,6

** Value specified only if greater than "A"

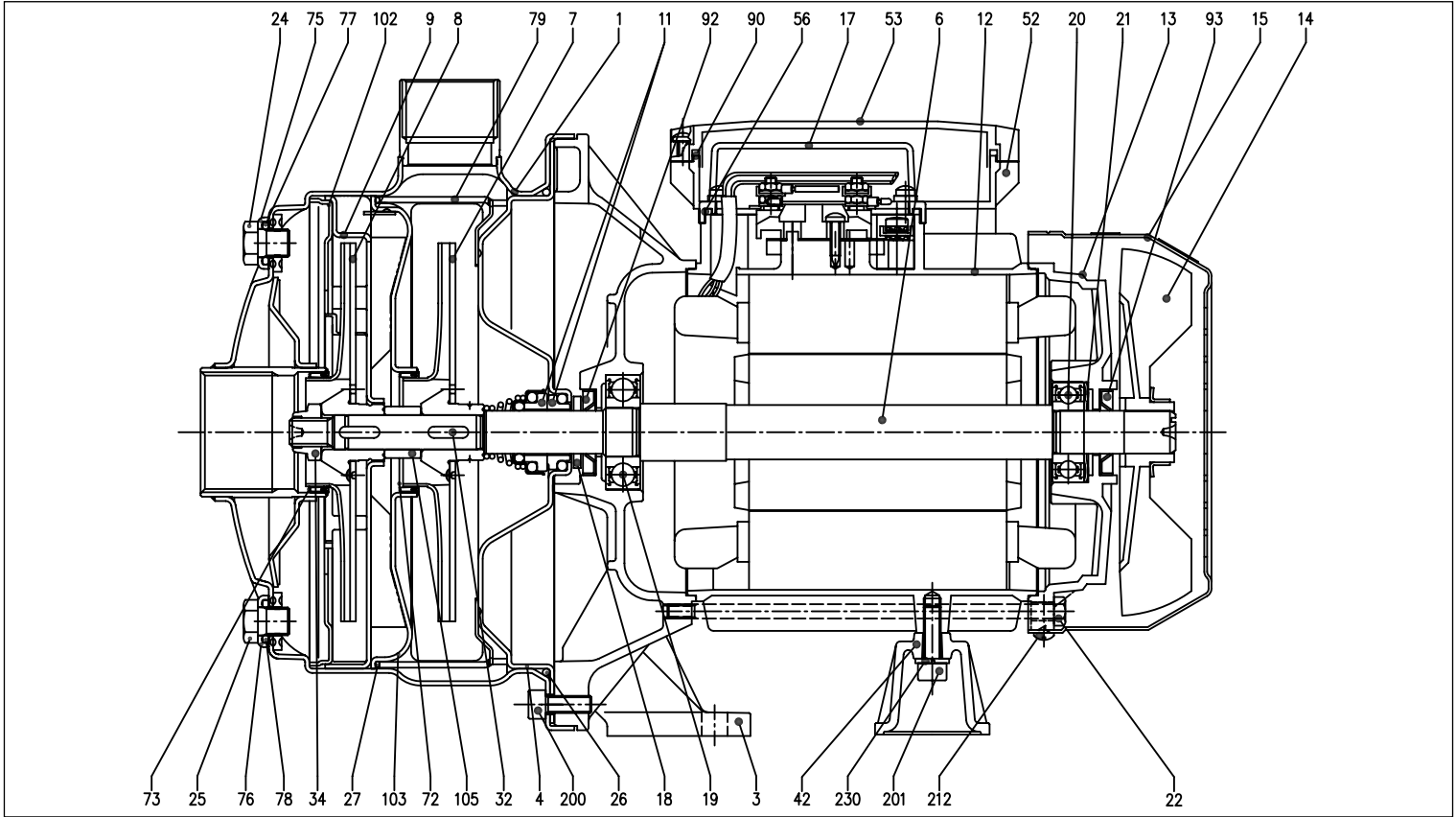
[1]= Three phase only [2]= Single phase only

2CDX(L)

DUAL IMPELLER CENTRIFUGAL ELECTRIC PUMPS

in AISI 304 and AISI 316

SECTIONAL VIEW



MATERIALS TABLE

Ref.	Name	Materials	Ref.	Name	Materials
1	Pump casing	EN 1.4301 (AISI 304) / AISI 316	32	Key	AISI 316
3	Motor bracket	Aluminium (up to 1.5 kW included) Cast iron (from 2.2 kW and above)	34	Impeller nut	Stainless Steel A2-70 / AISI 316
4	Casing cover	EN 1.4301 (AISI 304) / AISI 316	42	Motor support	Aluminium
6	Shaft	EN 1.4301 (AISI 304) / AISI 316 Part in contact with the liquid	52	Terminal Box [2]	ABS
7	Impeller	EN 1.4301 (AISI 304)	53	Terminal Box cover [2]	ABS
8	Impeller	EN 1.4301 (AISI 304)	56	Terminal box cover gasket	NBR
9	Diffuser	EN 1.4301 (AISI 304)	72	Casing ring [4]	NBR
11	Mechanical seal	Ceramic/Carbon/NBR	73	Casing ring [4]	NBR
12	Motor frame	-	75	Washer	EN 1.4301 (AISI 304) / AISI 316
13	Motor cover	Aluminium	76	Washer	EN 1.4301 (AISI 304) / AISI 316
14	Fan	PA	77	O-Ring [3]	NBR
15	Fan cover	Galvanised Fe P04	78	O-Ring [3]	NBR
17	Terminal Box cover [1]	Aluminium	79	Diffuser spacer	EN 1.4301 (AISI 304)
18	Splash ring	NBR	90	Gasket [2]	NBR
19	Bearing (pump side)	-	92	Seal ring	NBR
20	Bearing (motor side)	-	93	Seal ring	NBR
21	Adjustment ring	Steel C70	102	Diffuser cover	EN 1.4301 (AISI 304)
22	Tie-rod	Galvanised Fe 42	103	Conveyor cover	EN 1.4301 (AISI 304)
24	Plug	EN 1.4301 (AISI 304) / AISI 316	105	Impeller spacer	EN 1.4301 (AISI 304)
25	Plug	EN 1.4301 (AISI 304) / AISI 316	200	Screw (pump body)	Stainless Steel A2-70
26	O-Ring [3]	NBR	201	Screw	Zn. steel cl.8.8
27	O-Ring [3]	NBR	212	Screw	Stainless Steel A2
			230	Washer	Steel C70

[1]= Three-phase only

[2]= Single phase only

[3]= FKM for 2CDX(L)H, 2CDX(L)HS, 2CDX(L)HW, 2CDX(L)HSW

EPDM for 2CDX(L)E, 2CDX(L)Q1AEGG, 2CDX(L)VAEGG, 2CDX(L)U3U3EGG, 2CDX(L)Q1U3EGG, 2CDX(L)U3CEGG

[4]= FKM for 2CDX(L)H, 2CDX(L)HS, 2CDX(L)HW, 2CDX(L)HSW

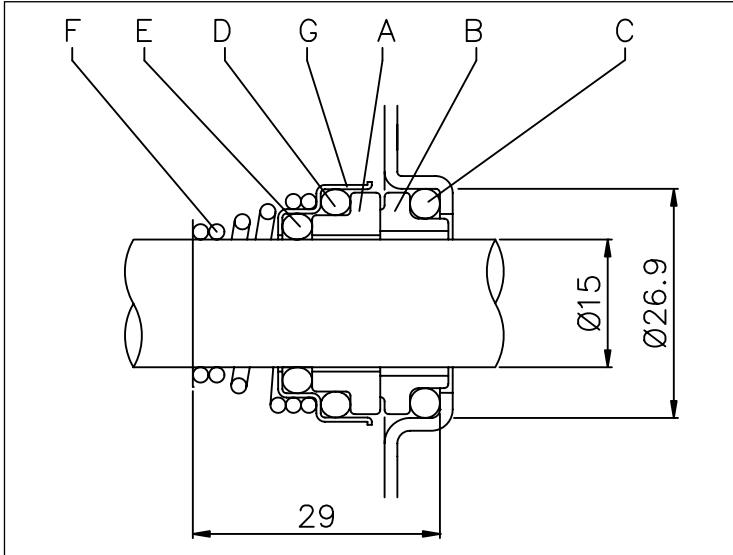
NBR for 2CDX(L)E, 2CDX(L)Q1AEGG, 2CDX(L)VAEGG, 2CDX(L)U3U3EGG, 2CDX(L)Q1U3EGG, 2CDX(L)U3CEGG

2CDX(L)

DUAL IMPELLER CENTRIFUGAL ELECTRIC PUMPS

in AISI 304 and AISI 316

MECHANICAL SEAL 2CDX(L) standard



MATERIALS TABLE

Ref.	Name	Materials
A	Rotating part	Ceramic
B	Fixed part	Carbon
C	O-Ring	NBR
D	O-Ring	NBR
E	O-Ring	NBR
F	Spring	AISI 316
G	Structure/frame	AISI 304

SPECIAL MECHANICAL SEALS (on request)

Ref.	Name	Materials				
		H Version	HS Version	HW Version	HSW Version	E Version
A	Rotating part	Ceramic	Silicon Carbide	Tungsten Carbide	Silicon Carbide	Ceramic
B	Fixed part	Carbon	Silicon Carbide	Tungsten Carbide	Tungsten Carbide	Carbon
C	O-Ring	FKM	FKM	FKM	FKM	EPDM
D	O-Ring	FKM	FKM	FKM	FKM	EPDM
E	O-Ring	FKM	FKM	FKM	FKM	EPDM
F	Spring	AISI 316	AISI 316	AISI 316	AISI 316	AISI 316
G	Structure/frame	AISI 304	AISI 316	AISI 316	AISI 316	AISI 316

Ref.	Name	Materials				
		Q1AEGG Version	VAEGG Version	U3U3EGG Version	Q1U3EGG Version	U3CEGG Version
A	Rotating part	Silicon Carbide	Ceramic	Tungsten Carbide	Silicon Carbide	Tungsten Carbide
B	Fixed part	Metallised carbon	Metallised carbon	Tungsten Carbide	Tungsten Carbide	Special Carbon
C	O-Ring	EPDM	EPDM	EPDM	EPDM	EPDM
D	O-Ring	EPDM	EPDM	EPDM	EPDM	EPDM
E	O-Ring	EPDM	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

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2CDX(L)

DUAL IMPELLER CENTRIFUGAL ELECTRIC PUMPS

in AISI 304 and AISI 316

ELECTRIC DATA TABLE

Model		P ₂		Efficiency		Capacitor		Efficiency (%)			P ₁		Absorbed Current [A]		
Single phase 230V	Three phase 230/400V	[HP]	[kW]	Single phase	Three phase	Single phase μF	V.	Three phase η %			Single phase [kW]	Three phase [kW]	Single phase 230V	Three phase [A]	
								50%	75%	100%			230V	230V	400V
2CDXM 70/10	2CDX 70/10	1	0,75	-	IE3	20	450	80,9	82,3	82,1	1,30	1,11	6,0	3,4	2,0
2CDXM 70/12	2CDX 70/12	1,2	0,9	-	IE3	31,5	450	81,7	83,1	82,4	1,55	1,34	7,0	4,3	2,5
2CDXM 70/15	2CDX 70/15	1,5	1,1	-	IE3	40	450	83,5	84,3	84,6	1,80	1,77	8,1	5,8	3,3
2CDXM 70/20	2CDX 70/20	2	1,5	-	IE3	40	450	84,2	86,8	86,9	2,30	2,30	10,0	7,8	4,5
2CDXM 120/15	2CDX 120/15	1,5	1,1	-	IE3	40	450	83,5	84,3	84,6	1,80	1,77	8,3	5,8	3,3
2CDXM 120/20	2CDX 120/20	2	1,5	-	IE3	40	450	84,2	86,8	86,9	2,35	2,30	10,2	7,8	4,5
-	2CDX 120/30	3	2,2	-	IE3	-	-	86,2	87,0	86,0	-	2,55	-	8,2	4,7
-	2CDX 120/40	4	3	-	IE3	-	-	85,9	87,5	87,1	-	3,44	-	11,1	6,4
-	2CDX 200/30	3	2,2	-	IE3	-	-	85,9	87,5	87,1	-	3,44	-	11,1	6,4
-	2CDX 200/40	4	3	-	IE3	-	-	85,9	87,5	87,1	-	3,76	-	11,2	6,5
-	2CDX 200/50	5	3,7	-	IE3	-	-	85,8	88,3	88,4	-	4,52	-	15,1	8,7

NOISE DATA TABLE

Model		P ₂		L _{pa} - dB(A)*
Single phase 230V	Three phase 230/400V	[HP]	[kW]	
2CDXM 70/10	2CDX 70/10	1	0,75	62
2CDXM 70/12	2CDX 70/12	1,2	0,9	
2CDXM 70/15	2CDX 70/15	1,5	1,1	
2CDXM 70/20	2CDX 70/20	2	1,5	64
2CDXM 120/15	2CDX 120/15	1,5	1,1	64
2CDXM 120/20	2CDX 120/20	2	1,5	
-	2CDX 120/30	3	2,2	68
-	2CDX 120/40	4	3	
-	2CDX 200/30	3	2,2	68
-	2CDX 200/40	4	3	
-	2CDX 200/50	5	3,7	

* Mean value of several measurements at 1 m distance around the pump.
Tolerance ± 2.5 dB.

Insulation casing



For applications with refrigerant liquids or liquids with high thermal difference that may generate condensate

OPEN IMPELLER CENTRIFUGAL ELECTRIC PUMPS

in AISI 304

Open impeller centrifugal electric pumps in AISI 304 stainless steel.

APPLICATIONS

- Washing vegetables, meat, fish, molluscs
- Industrial washing plants at cycle end
- Washing and surface finishing of metal pieces, boxes, washing bottles, vases, glass containers, crates, baskets
- Dishwashers, glasswashers, cupwashers for communities
- Painting booths
- Pumping, evacuation, transfer of liquids

TECHNICAL DETAILS

- Sturdy structure
- Small dimensions
- Silent

PUMP TECHNICAL DATA

- Maximum working pressure: 8 bar
- Maximum temperature of the liquid:
 - 5°C ÷ +90°C
 - 5°C ÷ +110° for H-HS-HW-HSW versions
- Maximum solids size for passage: 19 mm
- G2½ suction connection for DWO 300-400, G2 for the rest of the range
- G2 discharge connection

MOTOR TECHNICAL DATA

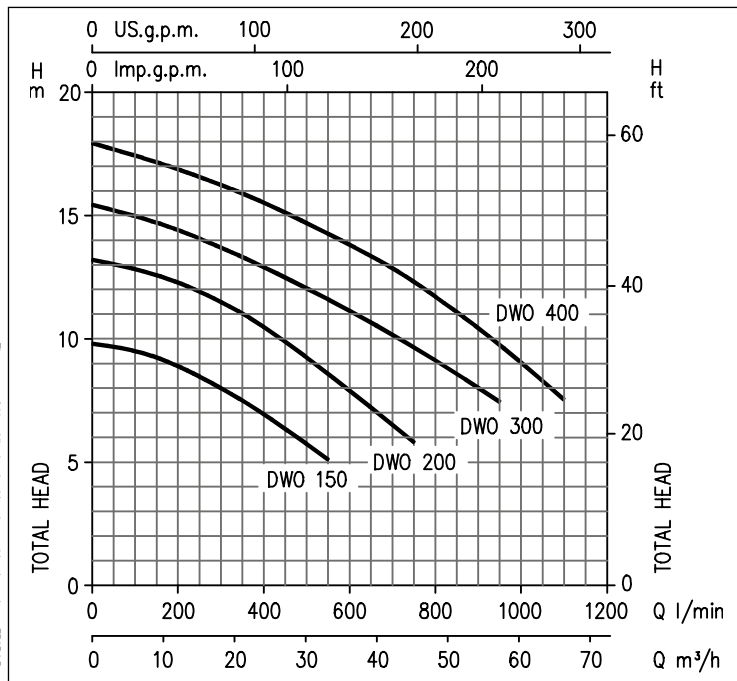
- IE3 high energy-efficiency motors starting from 0.75kW
- Self-ventilated 2 pole asynchronous motor
- Class of insulation F
- IP55 protection degree
- 230V ±10% 50Hz single phase voltage, 230/400V ±10% 50Hz three phase voltage
- Permanent capacitor inserted and thermo-amperometric protection with automatic rearm incorporated for the single phase motor
- Protection under user's responsibility for the three phase version

MATERIALS

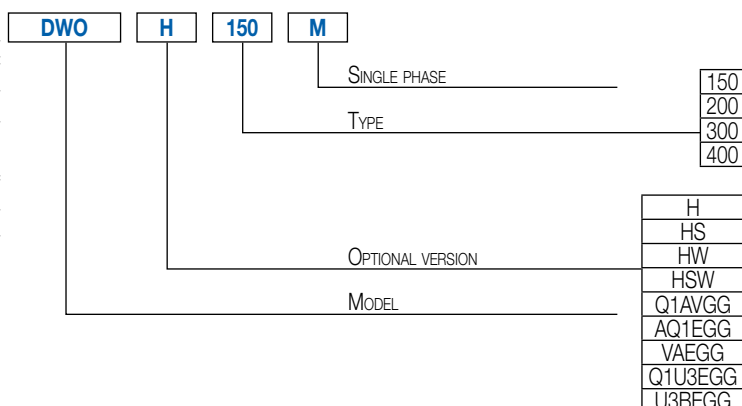
- Pump casing, casing cover, impeller and shaft (part in contact with the liquid) in AISI 304
- Bracket and motor frame in aluminium
- Mechanical seal in:
 - Ceramic/Carbon/NBR (standard)
 - special versions: see p. 27



PERFORMANCE CURVES (according to ISO 9906 Attachment A)



IDENTIFICATION CODE



DWO

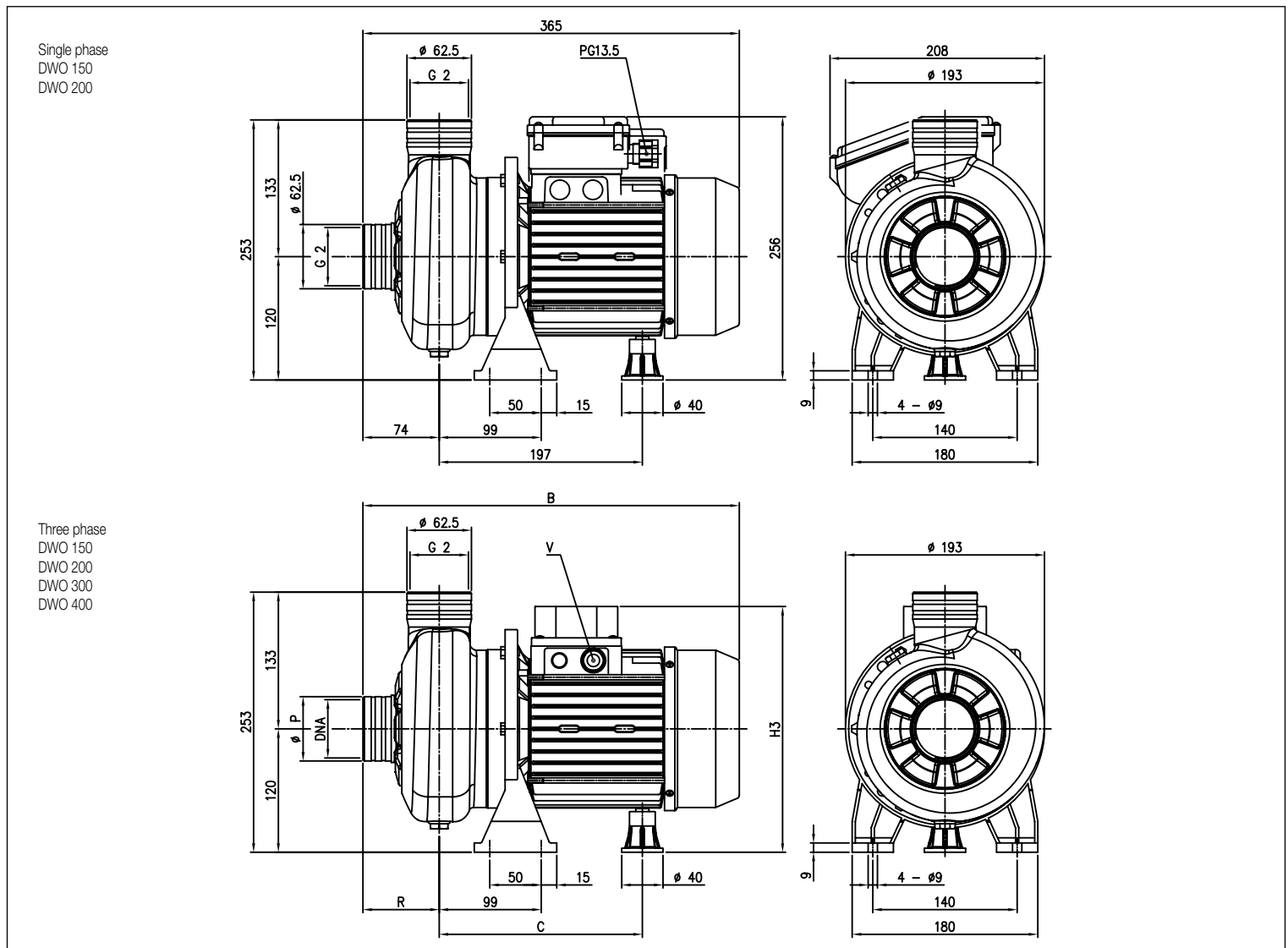
OPEN IMPELLER CENTRIFUGAL ELECTRIC PUMPS

in AISI 304

PERFORMANCE CHART

Model		P.		Q = Flow Rate								
Single phase 230V	Three phase 230/400V	[HP]	[kW]	l/min			m ³ /h			H=Head [m]		
				100	200	300	400	550	750	950	1100	
DWO 150 M	DWO 150	1.5	1.1	9.5	8.9	7.9	6.9	5.1	-	-	-	
DWO 200 M	DWO 200	2	1.5	12.7	12.3	11.5	10.5	8.6	5.8	-	-	
-	DWO 300	3	2.2	15.0	14.5	13.8	12.9	11.7	9.7	7.5	-	
-	DWO 400	4	3	17.5	16.9	16.3	15.6	14.3	12.4	9.8	7.6	

DIMENSIONS



DIMENSIONAL TABLE

Modello	Dimensioni [mm]					V [1]	DNA [1]	Peso [kg]	
	B [1]	C [1]	H3 [1]	R [1]	P [1]			[2]	[1]
DWO 150	390	197	239	74	62,5	M20x1.5	G 2	14,4	15,4
DWO 200	390,5	197	239	74	62,5	M20x1.5	G 2	15,7	17,1
DWO 300	394,5	197	239	78	80	M20x1.5	G 2½	-	19,4
DWO 400	455	230/241	244	78	80	M20x1.5	G 2½	-	22,4

[1]= Three-phase only

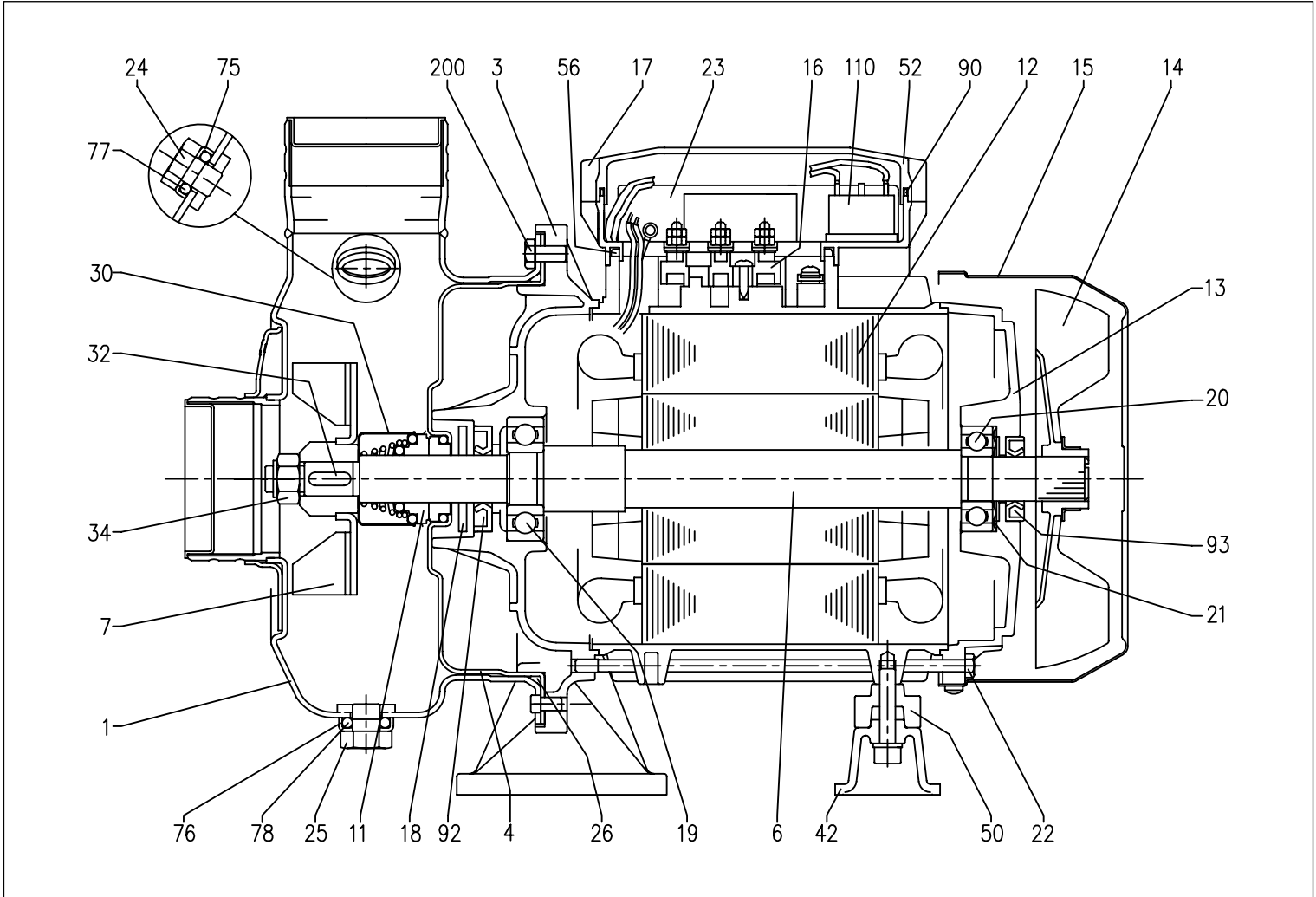
[2]= Single phase only

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OPEN IMPELLER CENTRIFUGAL ELECTRIC PUMPS

in AISI 304

SECTIONAL VIEW



MATERIALS TABLE

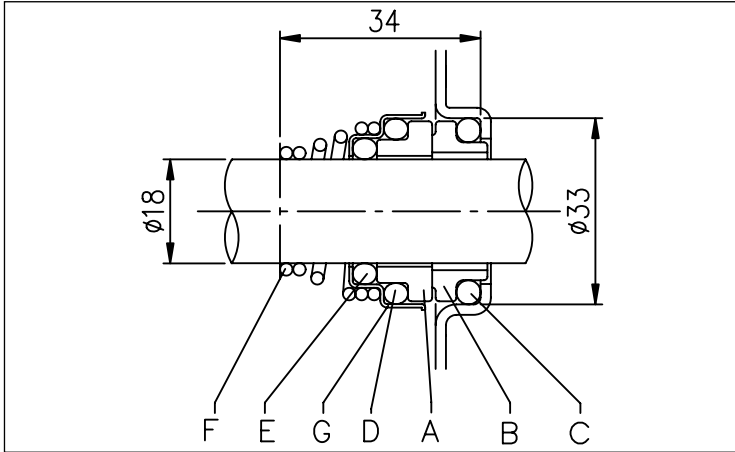
Ref.	Name	Materials	Ref.	Name	Materials
1	Pump casing	EN 1.4301 (AISI 304)	25	Plug	AISI 303
3	Motor bracket	Aluminium	26	O-Ring [3]	NBR
4	Casing cover	EN 1.4301 (AISI 304)	30	Splash washer	EN 1.4301 (AISI 304)
6	Shaft	EN 1.4301 (AISI 304) Part in contact with the liquid	32	Key	AISI 316
7	Impeller	EN 1.4301 (AISI 304)	34	Impeller nut	EN 1.4301 (AISI 304)
11	Mechanical seal	Ceramic/Carbon/NBR	42	Motor support	Aluminium
12	Motor frame	-	50	Spacer	-
13	Motor cover	Aluminium	52	Terminal box [2]	PP
14	Fan	PP	56	Terminal box cover gasket	NBR
15	Fan cover	Galvanised Fe P04	75	Washer	EN 1.4301 (AISI 304)
16	Terminal Box	-	76	Washer	EN 1.4301 (AISI 304)
17	Terminal Box cover [1]	Aluminium	77	O-Ring	NBR
18	Splash ring	NBR	78	O-Ring	NBR
19	Bearing (pump side)	-	90	Terminal box cover gasket [2]	NBR
20	Bearing (motor side)	-	92	Seal ring	-
21	Adjustment ring	Steel C70	93	Seal ring	-
22	Tie-rod	Galvanised Fe 42	110	Motor protector [2]	-
23	Capacitor [2]	-	200	Screw (pump body)	Stainless Steel A2 UNI7323
24	Plug	AISI 303			

[1]= Three-phase only [2]= Single phase only
[3]= FKM for H-HS-HW-HSW versions

OPEN IMPELLER CENTRIFUGAL ELECTRIC PUMPS

in AISI 304

MECHANICAL SEAL standard



MATERIALS TABLE

Ref.	Name	Materials
A	Rotating part	Ceramic
B	Fixed part	Carbon
C	O-Ring	NBR
D	O-Ring	NBR
E	O-Ring	NBR
F	Spring	AISI 316 L
G	Structure/frame	AISI 304

SPECIAL MECHANICAL SEALS (on request)

Ref.	Name	Materials			
		H Version	HS Version	HW Version	HSW Version
A	Rotating part	Ceramic	Silicon Carbide	Tungsten Carbide	Silicon Carbide
B	Fixed part	Carbon	Silicon Carbide	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 L	AISI 316 L	AISI 316 L	AISI 316 L
G	Structure/frame	AISI 304	AISI 316	AISI 316	AISI 316

Ref.	Name	Materials				
		Q1AVGG Version	AQ1EGG Version	VAEGG Version	Q1U3EGG Version	U3BEGG Version
A	Rotating part	Silicon Carbide	Metallised carbon	Ceramic	Silicon Carbide	Tungsten Carbide
B	Fixed part	Metallised carbon	Silicon Carbide	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

ELECTRIC DATA TABLE

Model	P ₂	Efficiency		Capacitor		Efficiency (%)			P ₁		Absorbed Current				
		Single phase	Three phase	Single phase	V _c	Three phase			Single phase	Three phase	Single phase	Three phase			
						50%	75%	100%				230V	230V	400V	
DWO 150 M	DWO 150	1,5	1,1	-	IE3	35	450	83,0	85,8	85,6	1,36	1,77	6,8	5,8	3,3
DWO 200 M	DWO 200	2	1,5	-	IE3	40	450	82,7	86,1	87,0	2,05	1,72	9,0	6,6	3,8
-	DWO 300	3	2,2	-	IE3	-	-	86,2	87,0	86,0	-	2,55	-	8,2	4,7
-	DWO 400	4	3	-	IE3	-	-	85,9	87,5	87,1	-	3,44	-	11,1	6,4

NOISE DATA TABLE

Model	P ₂	L _{pa} - dB(A)*	
		Single phase	Three phase
DWO 150 M	DWO 150	1,5	1,1
DWO 200 M	DWO 200	2	1,5
-	DWO 300	3	2,2
-	DWO 400	4	3

* Mean value of several measurements made at 1 m distance around the pump.
Tolerance ± 2.5 dB.

3 - 3L SERIES

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

Standardised centrifugal electric pumps built in stainless steel AISI 304 (3 SERIES) and AISI 316 (3L SERIES).



APPLICATIONS

- Water supply to civil, agricultural and industrial plants
- Pressure boosting
- Fire-fighting, heating and air conditioning systems
- Pumping industrial liquids
- Irrigation
- Refrigeration towers
- Swimming pools
- Emptying
- Washing plants

TECHNICAL DETAILS

- Highly resistant structure
- Hydroforming process EBARA patent

PUMP TECHNICAL DATA

- Maximum working pressure: 10 bar
- Temperature of the liquid:
 - 10°C ÷ +90°C
 - 10°C ÷ +110°C (L-H-HS-HW-HSW versions)
 - 20°C ÷ +120°C (E-ES versions)
- MEI > 0.4

For further information please see our Data Book on the web site www.ebara-europe.com

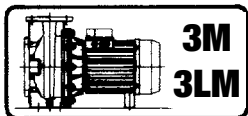
MOTOR TECHNICAL DATA

- IE3 high energy-efficiency motors starting from 0.75kW
- Self-ventilated 2 and 4 poles asynchronous motor
- Class of insulation F (B for high temperatures)
- IP 55 protection degree
- 230V ±10% 50Hz single phase voltage, 230/400V ±10% (up 4 kW included) three phase voltage, 50 Hz, 400/690V ±10% (from 5.5 kW and above) three phase voltage, 50 Hz
- Protection is user's responsibility

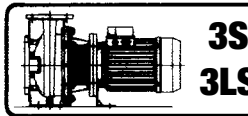
MATERIALS

- Pump casing and casing cover 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 microcasted for 3L SERIES 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 microcasted for 3 SERIES 65-125/160/200 3L SERIES 65-125/160/200 65-250 80-160/200/250

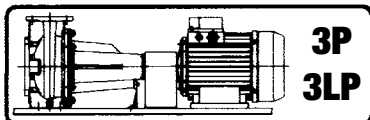
Available in 4 versions with 2 and 4 pole motors



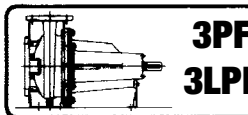
Monobloc with extended motor shaft



Monobloc with standard motor and rigid joint



On base, with standard motor and flexible coupling



Pump with bare shaft

SPECIAL VERSIONS

- 3Z SERIES: electropump inclusive of rotary bracket and body without supporting foot.

ACCESSORIES (On request)

- Counter-flanges available in the following materials:
 - galvanised
 - AISI 304
 - AISI 316

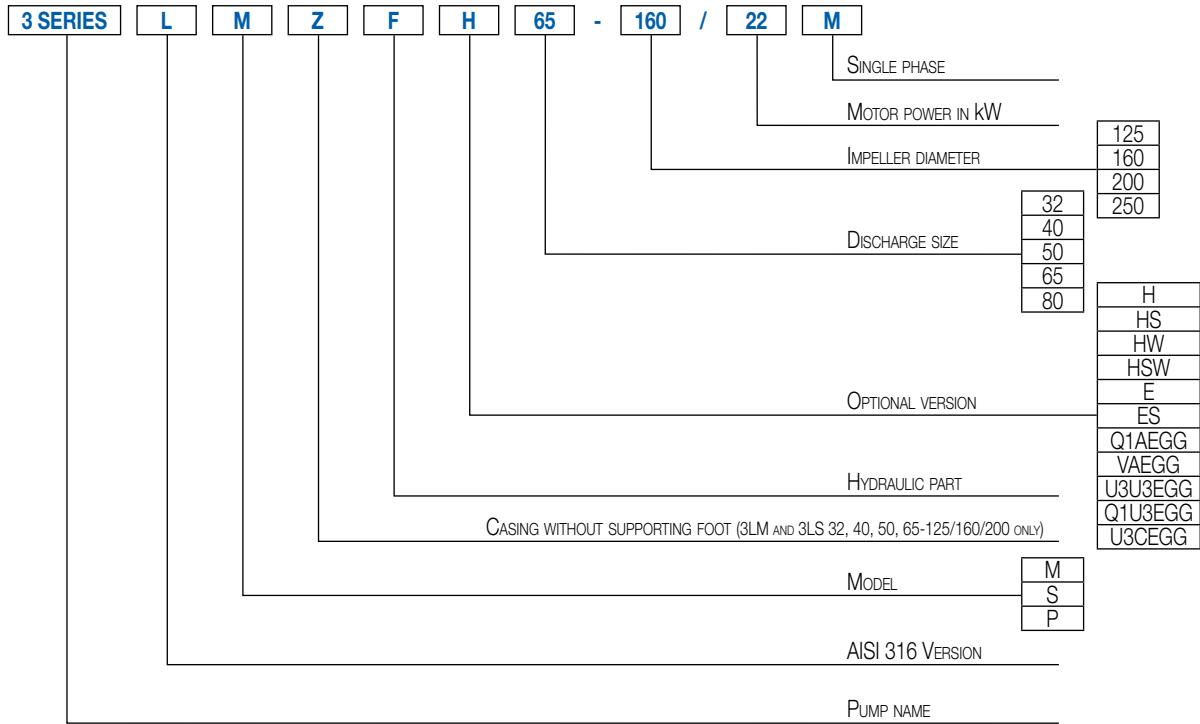
- Mechanical seal standard in:

- Carbon/Ceramic/NBR for 3 SERIES
- Silicon Carbide/Silicon Carbide/FKM for 3L SERIES
- special mechanical seals available on request, see p. 92 for 3-3L SERIES 2 poles, p.130 for 3-3L SERIES 4 poles

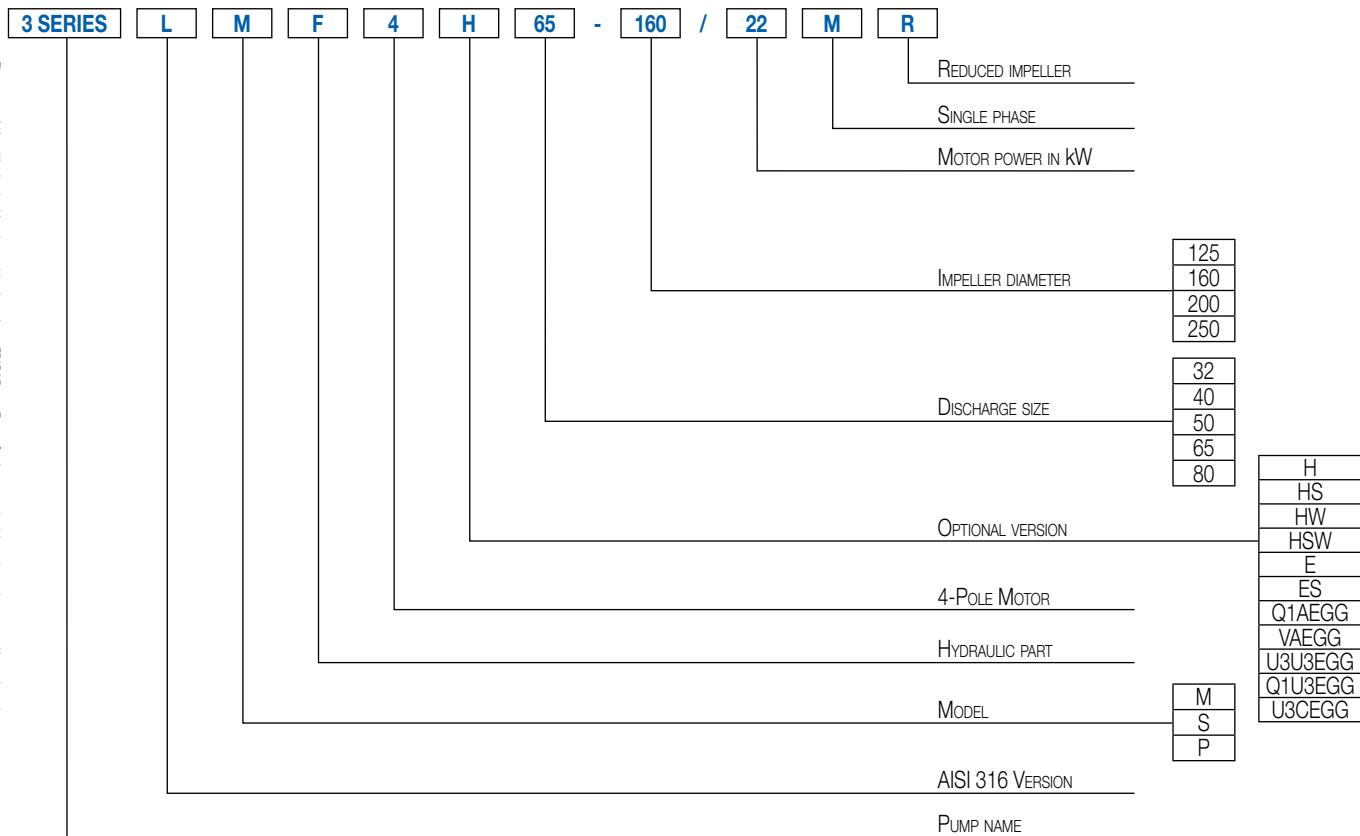
3 - 3L SERIES

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

IDENTIFICATION CODE - 2 Poles



IDENTIFICATION CODE - 4 Poles



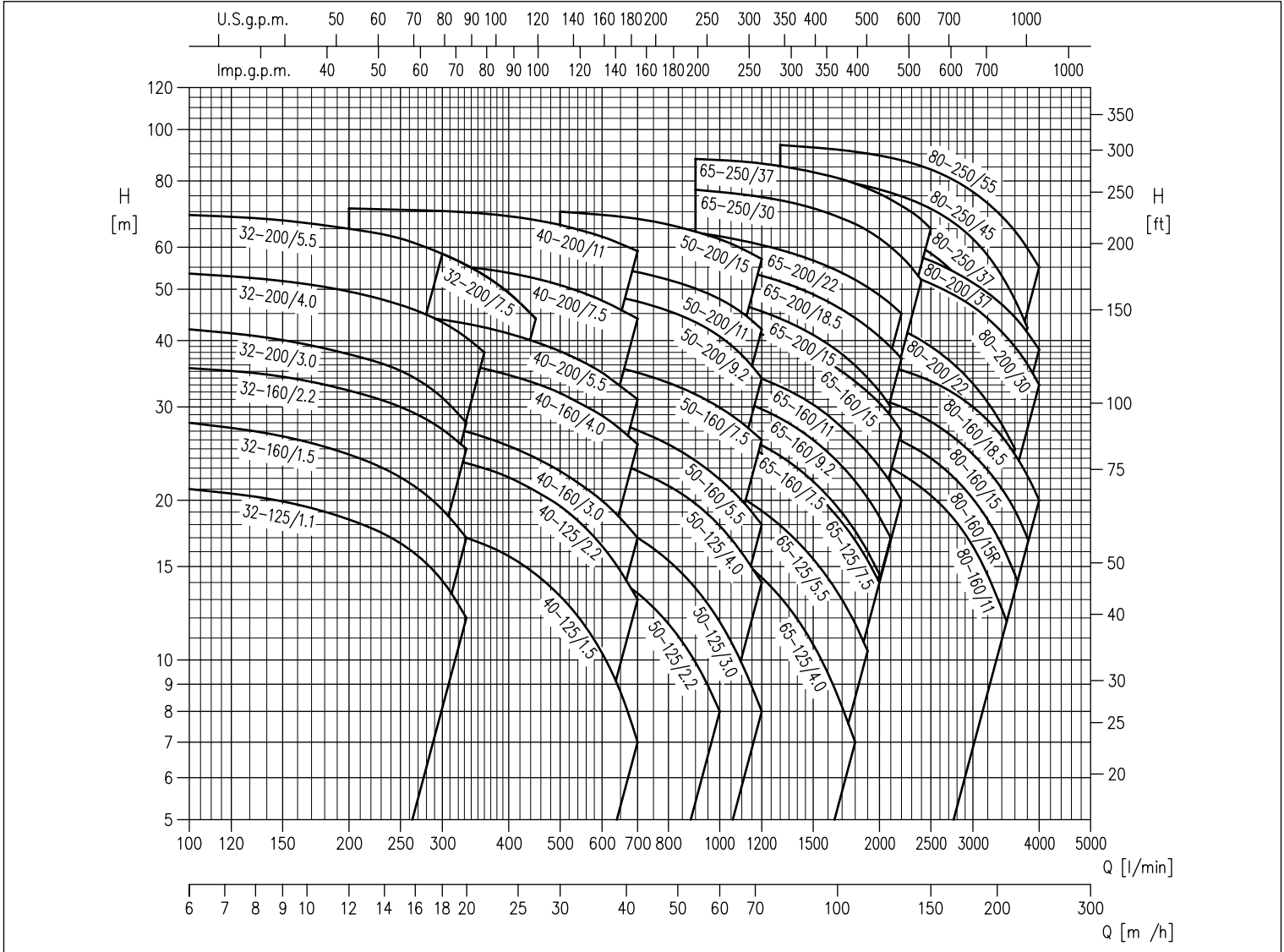
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3 - 3L SERIES

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

PERFORMANCE RANGE 3(L) SERIES at 2900 min⁻¹ (according to ISO 9906 Attachment A)

2 Poles



Versions	3M	3S	3P	3LM	3LMZ	3LS	3LSZ	3LP
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 H-HS-HW-HSW-E version
- = Models also available in H-HW-HSW-E version
- ▲ = Models also available in H-HW-HSW-ES version
- ◆ = Models available only in standard version

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3 - 3L SERIES

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

PERFORMANCE CHART 32-40-50

2 Poles

Model	P ₂		Q = Flow Rate														
	[HP]	[kW]	l/min m ³ /h	100 6	150 9	200 12	300 18	333 20	360 22	400 24	450 27	500 30	600 36	700 42	800 48	1000 60	1200 72
			H=Head [m]														
3(.) SERIES 32-125/1.1(M)	1.5	1.1	21.0	19.9	18.4	14.1	12.0	-	-	-	-	-	-	-	-	-	-
3(.) SERIES 32-160/1.5(M)	2	1.5	28.0	26.5	24.5	19.2	17.0	-	-	-	-	-	-	-	-	-	-
3(.) SERIES 32-160/2.2(M)	3	2.2	35.5	34.0	32.0	27.0	25.0	-	-	-	-	-	-	-	-	-	-
3(.) SERIES 32-200/3.0	4	3	42.0	40.0	37.5	31.0	28.0	-	-	-	-	-	-	-	-	-	-
3(.) SERIES 32-200/4.0	5.5	4	53.5	52.0	49.5	43.5	40.5	38.0	-	-	-	-	-	-	-	-	-
3(.) SERIES 32-200/5.5	7.5	5.5	69.0	67.5	65.0	58.5	-	-	-	-	-	-	-	-	-	-	-
3(.) SERIES 32-200/7.5	10	7.5	69.0	67.5	65.0	58.5	55.5	53.0	49.0	44.0	-	-	-	-	-	-	-
3(.) SERIES 40-125/1.5(M)	2	1.5	-	-	19.0	17.6	17.0	16.5	15.7	14.5	13.2	10.3	7.0	-	-	-	-
3(.) SERIES 40-125/2.2(M)	3	2.2	-	-	25.5	24.0	23.5	23.0	22.0	21.0	19.5	16.4	13.0	-	-	-	-
3(.) SERIES 40-160/3.0	4	3	-	-	29.5	27.5	27.0	26.5	25.5	24.0	22.5	20.0	17.0	-	-	-	-
3(.) SERIES 40-160/4.0	5.5	4	-	-	38.5	37.0	36.0	35.5	34.5	33.0	32.0	29.0	25.5	-	-	-	-
3(.) SERIES 40-200/5.5	7.5	5.5	-	-	45.5	44.0	43.0	42.5	41.0	39.5	38.0	35.0	31.0	-	-	-	-
3(.) SERIES 40-200/7.5	10	7.5	-	-	57.0	55.5	55.0	54.5	53.5	52.5	51.0	47.5	44.0	-	-	-	-
3(.) SERIES 40-200/11	15	11	-	-	71.0	70.0	70.0	69.5	68.5	67.5	66.0	63.0	59.0	-	-	-	-
3(.) SERIES 50-125/2.2(M)	3	2.2	-	-	-	-	-	-	17.5	17.0	16.3	14.9	13.4	11.7	8.0	-	-
3(.) SERIES 50-125/3.0	4	3	-	-	-	-	-	-	20.5	20.0	19.6	18.4	17.0	15.4	11.8	8.0	-
3(.) SERIES 50-125/4.0	5.5	4	-	-	-	-	-	-	26.0	25.5	25.0	24.0	22.5	21.5	17.9	14.0	-
3(.) SERIES 50-160/5.5	7.5	5.5	-	-	-	-	-	-	31.0	30.5	30.0	28.5	27.0	25.5	22.0	18.0	-
3(.) SERIES 50-160/7.5	10	7.5	-	-	-	-	-	-	38.5	38.0	37.5	36.0	35.0	33.5	30.0	26.0	-
3(.) SERIES 50-200/9.2	12.5	9.2	-	-	-	-	-	-	-	-	50.0	49.0	47.5	45.5	40.5	34.0	-
3(.) SERIES 50-200/11	15	11	-	-	-	-	-	-	-	-	56.0	55.0	54.0	52.0	48.0	42.0	-
3(.) SERIES 50-200/15	20	15	-	-	-	-	-	-	-	-	70.0	69.0	68.0	66.0	62.0	57.0	-

(M) Single phase version only for 3M SERIES

PERFORMANCE CHART 65-80

2 Poles

Model	P ₂		Q = Flow Rate																		
	[HP]	[kW]	l/min m ³ /h	600 36	700 42	900 54	1300 78	1500 90	1700 102	1900 114	2100 126	2200 132	2300 138	2400 144	2500 150	3000 180	3400 204	3600 216	3800 228	4000 240	
			H=Head [m]																		
3(.) SERIES 65-125/4.0	5.5	4	19.8	19.0	17.3	13.3	11.0	8.6	6.3	-	-	-	-	-	-	-	-	-	-	-	-
3(.) SERIES 65-125/5.5	7.5	5.5	-	24.0	22.2	18.0	15.7	13.3	10.8	8.0	-	-	-	-	-	-	-	-	-	-	-
3(.) SERIES 65-125/7.5	10	7.5	-	29.5	27.8	23.5	21.1	18.7	16.1	13.4	12.0	-	-	-	-	-	-	-	-	-	-
3(.) SERIES 65-160/7.5	10	7.5	-	30.0	28.6	24.8	22.5	19.9	17.1	14.2	-	-	-	-	-	-	-	-	-	-	-
3(.) SERIES 65-160/9.2	12.5	9.2	-	34.5	32.8	28.8	26.5	23.9	21.1	18.3	16.8	-	-	-	-	-	-	-	-	-	-
3(.) SERIES 65-160/11	15	11	-	38.5	37.1	33.1	30.9	28.4	25.8	23.0	21.5	20.0	-	-	-	-	-	-	-	-	-
3(.) SERIES 65-160/15	20	15	-	45.5	44.0	40.0	37.8	35.3	32.6	29.6	28.0	26.5	-	-	-	-	-	-	-	-	-
3(.) SERIES 65-200/15	20	15	-	51.0	49.0	44.0	41.5	38.4	35.3	31.8	30.0	-	-	-	-	-	-	-	-	-	-
3(.) SERIES 65-200/18.5	25	18.5	-	58.5	56.5	51.5	49.0	46.0	43.0	39.7	38.0	36.3	-	-	-	-	-	-	-	-	-
3(.) SERIES 65-200/22	30	22	-	65.5	64.0	59.5	57.0	54.0	51.0	48.0	46.5	45.0	-	-	-	-	-	-	-	-	-
3(.) SERIES 65-250/30	40	30	-	-	77.0	73.5	71.0	68.0	64.5	60.0	57.5	55.0	52.0	-	-	-	-	-	-	-	-
3(.) SERIES 65-250/37	50	37	-	-	88.0	85.5	83.0	80.5	77.5	74.0	72.0	70.0	67.5	65.0	-	-	-	-	-	-	-
3(.) SERIES 80-160/11	15	11	-	-	-	27.3	26.4	25.4	24.2	23.0	22.4	21.8	21.1	20.4	16.4	12.5	-	-	-	-	-
3(.) SERIES 80-160/15R	20	15	-	-	-	30.5	29.7	28.8	27.7	26.5	25.9	25.3	24.6	24.0	20.1	16.5	14.5	-	-	-	-
3(.) SERIES 80-160/15	20	15	-	-	-	34.0	33.3	32.5	31.5	30.5	30.0	29.4	28.8	28.1	24.4	21.0	19.1	17.0	-	-	-
3(.) SERIES 80-160/18.5	25	18.5	-	-	-	39.0	38.4	37.6	36.7	35.7	35.2	34.7	34.1	33.5	30.0	26.4	24.4	22.3	20.0	-	-
3(.) SERIES 80-200/22	30	22	-	-	-	48.0	47.0	45.5	44.5	43.0	42.0	41.0	40.0	39.0	33.2	27.8	25.0	-	-	-	-
3(.) SERIES 80-200/30	40	30	-	-	-	58.5	58.0	57.0	56.0	54.5	54.0	53.0	52.0	51.0	46.5	41.5	39.0	36.1	33.0	-	-
3(.) SERIES 80-200/37	50	37	-	-	-	64.0	63.0	62.0	61.0	59.5	59.0	58.0	57.5	56.5	51.5	47.0	44.5	41.5	38.5	-	-
3(.) SERIES 80-250/37	50	37	-	-	-	71.5	70.5	68.5	66.5	64.0	63.0	61.5	60.0	58.5	48.5	38.0	-	-	-	-	-
3(.) SERIES 80-250/45	60	45	-	-	-	82.5	81.5	80.0	78.0	76.0	75.0	73.5	72.5	71.0	62.0	53.0	48.0	42.5	-	-	-
3(.) SERIES 80-250/55	75	55	-	-	-	93.5	92.5	91.5	90.0	88.5	87.5	86.5	85.5	84.0	76.5	68.5	64.5	60.0	55.0	-	-

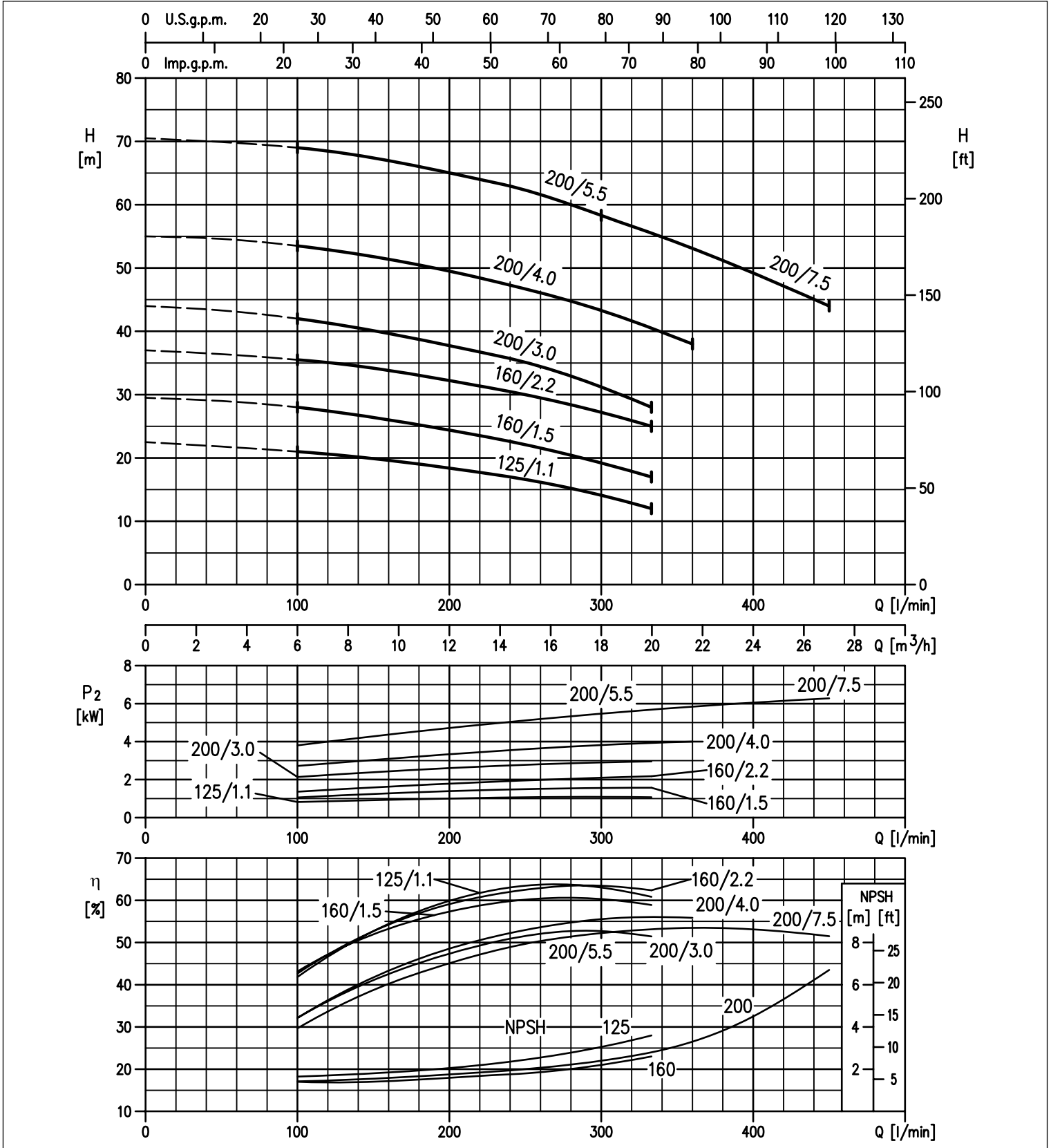


3 - 3L SERIES

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

PERFORMANCE CURVES 3(L)M-3(L)S-3(L)P 32 SERIES at 2900 min⁻¹ (according to ISO 9906 Attachment A)

2 Poles



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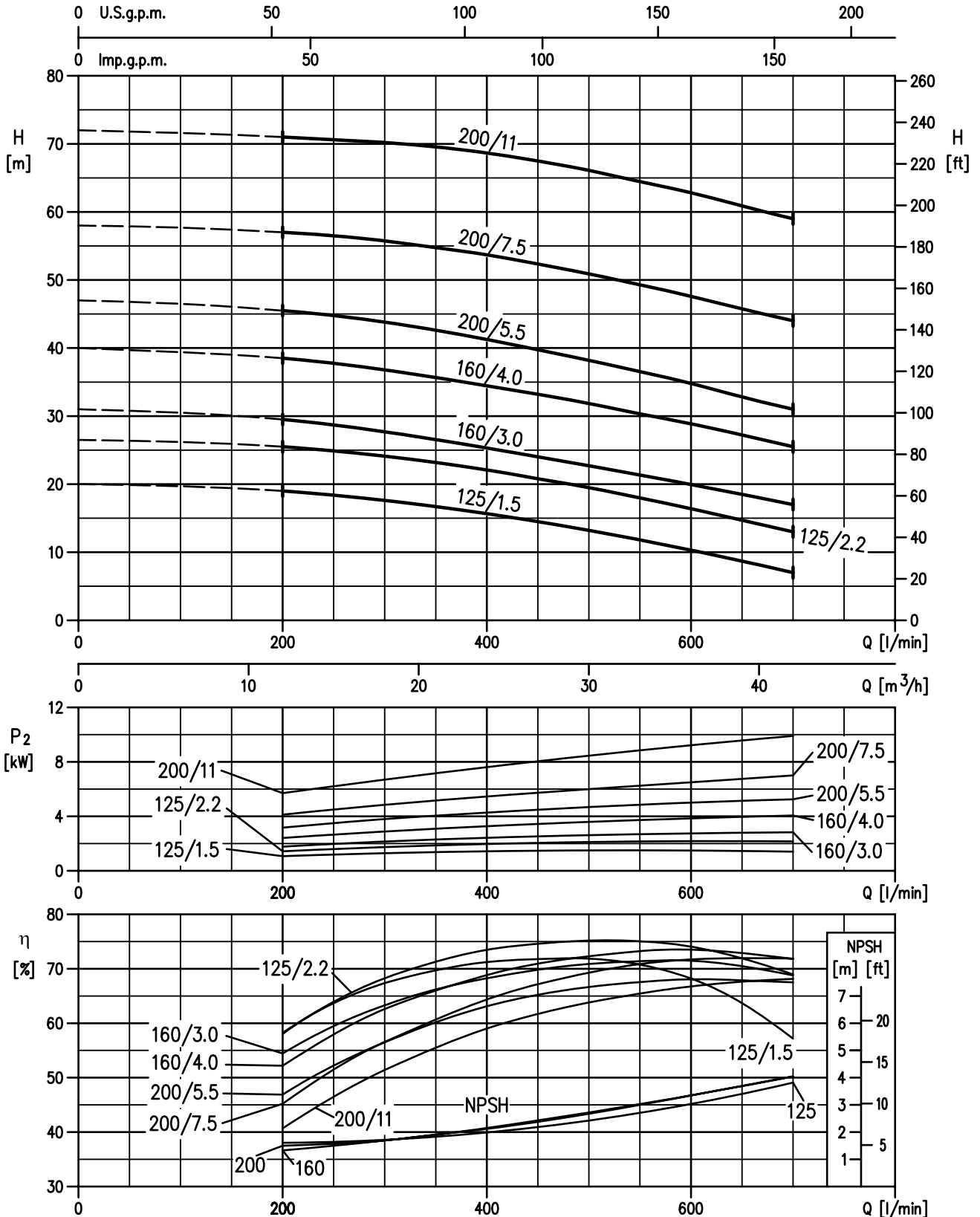


3 - 3L SERIES

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

PERFORMANCE CURVES 3(L)M-3(L)S-3(L)P 40 SERIES at 2900 min⁻¹ (according to ISO 9906 Attachment A)

2 Poles



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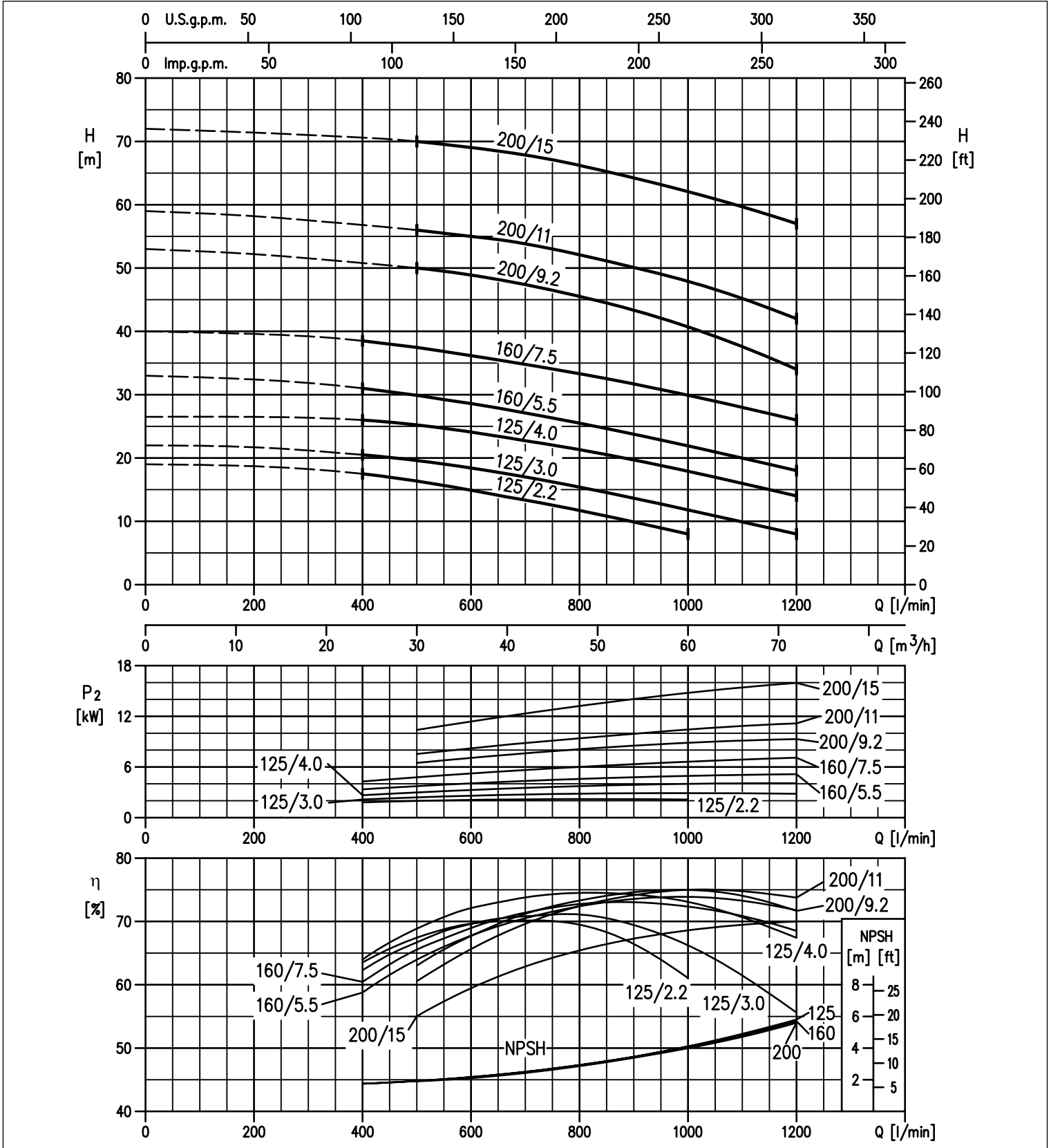


3 - 3L SERIES

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

PERFORMANCE CURVES 3(L)M-3(L)S-3(LP) 50 SERIES at 2900 min⁻¹ (according to ISO 9906 Attachment A)

2 Poles



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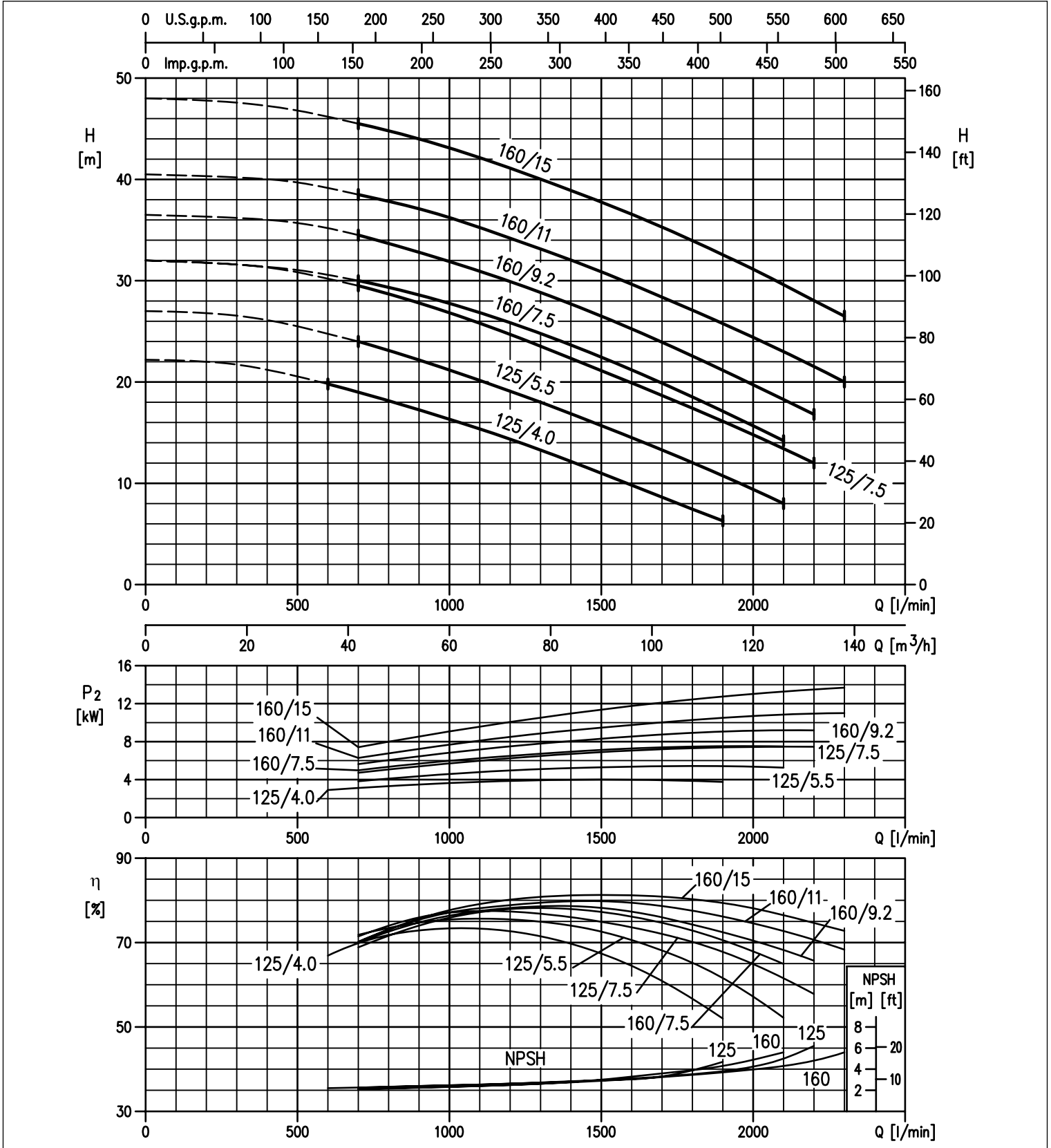


3 - 3L SERIES

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

PERFORMANCE CURVES 3(L)M-3(L)S-3(L)P 65 SERIES at 2900 min⁻¹ (according to ISO 9906 Attachment A)

2 Poles



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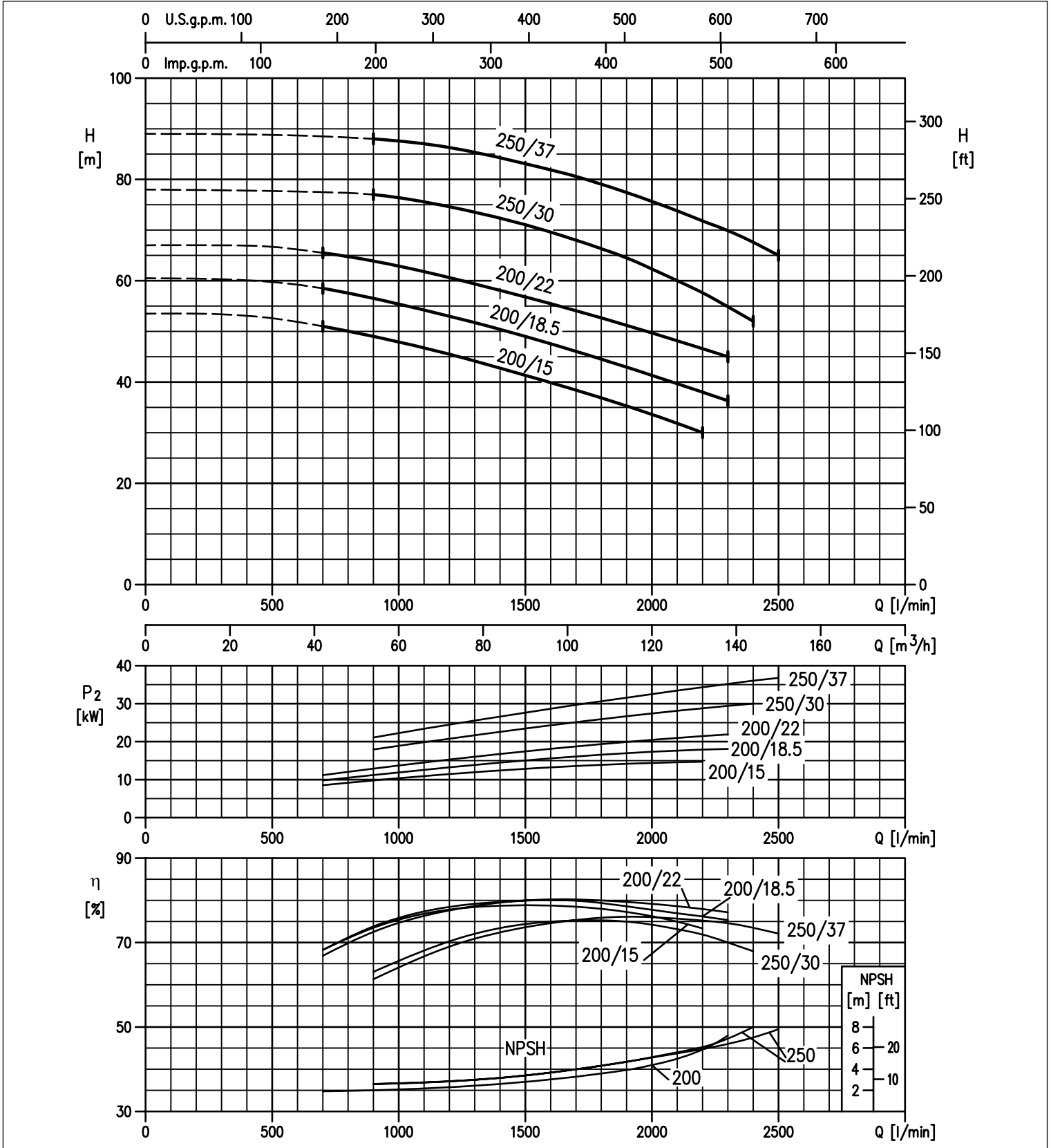


3 - 3L SERIES

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

PERFORMANCE CURVES 3L 65 SERIES at 2900 min⁻¹ (according to ISO 9906 Attachment A)

2 Poles



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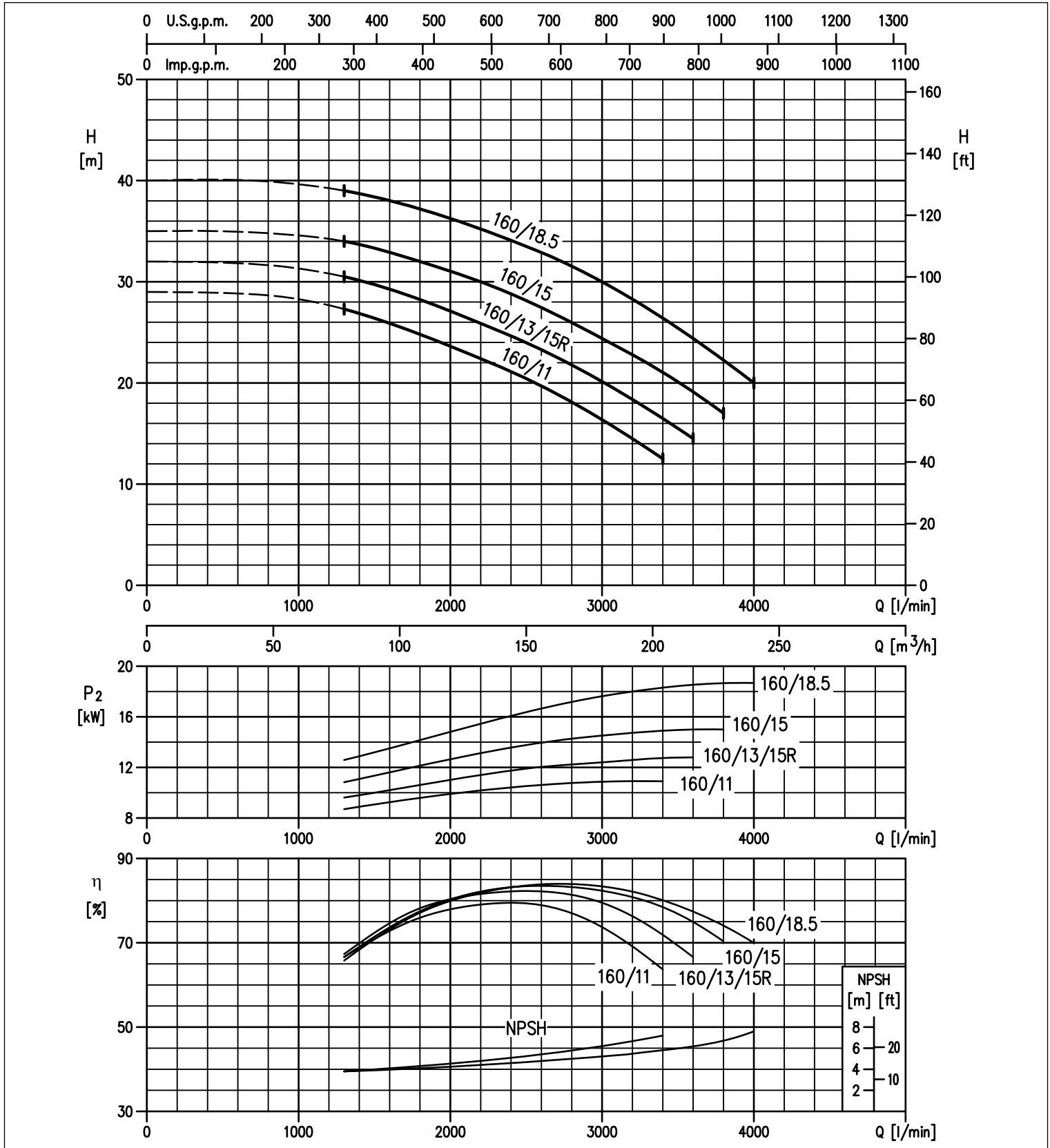


3 - 3L SERIES

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

PERFORMANCE CURVES 3L 80 SERIES at 2900 min⁻¹ (according to ISO 9906 Attachment A)

2 Poles



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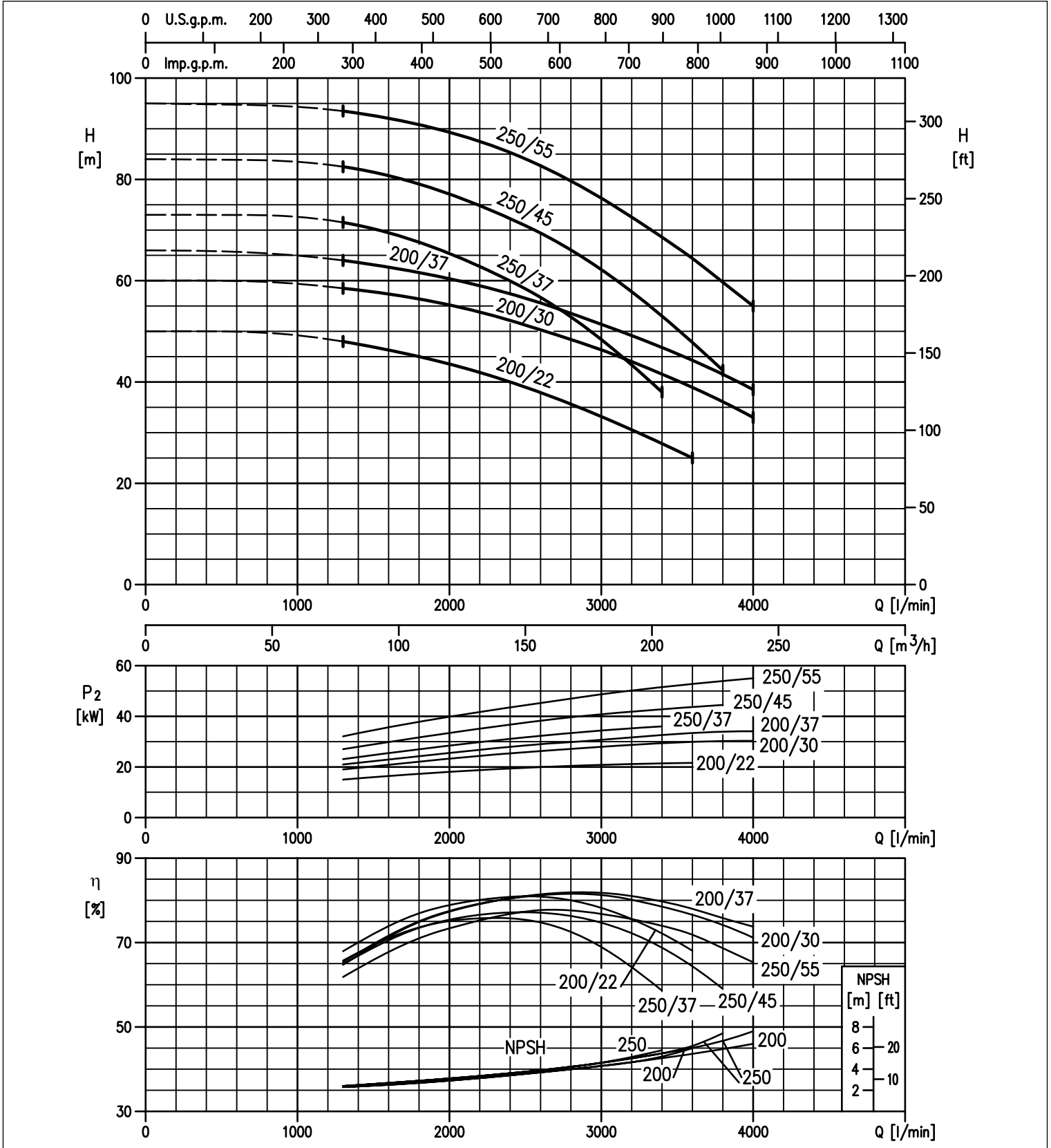


3 - 3L SERIES

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

PERFORMANCE CURVES 3L 80 SERIES at 2900 min⁻¹ (according to ISO 9906 Attachment A)

2 Poles



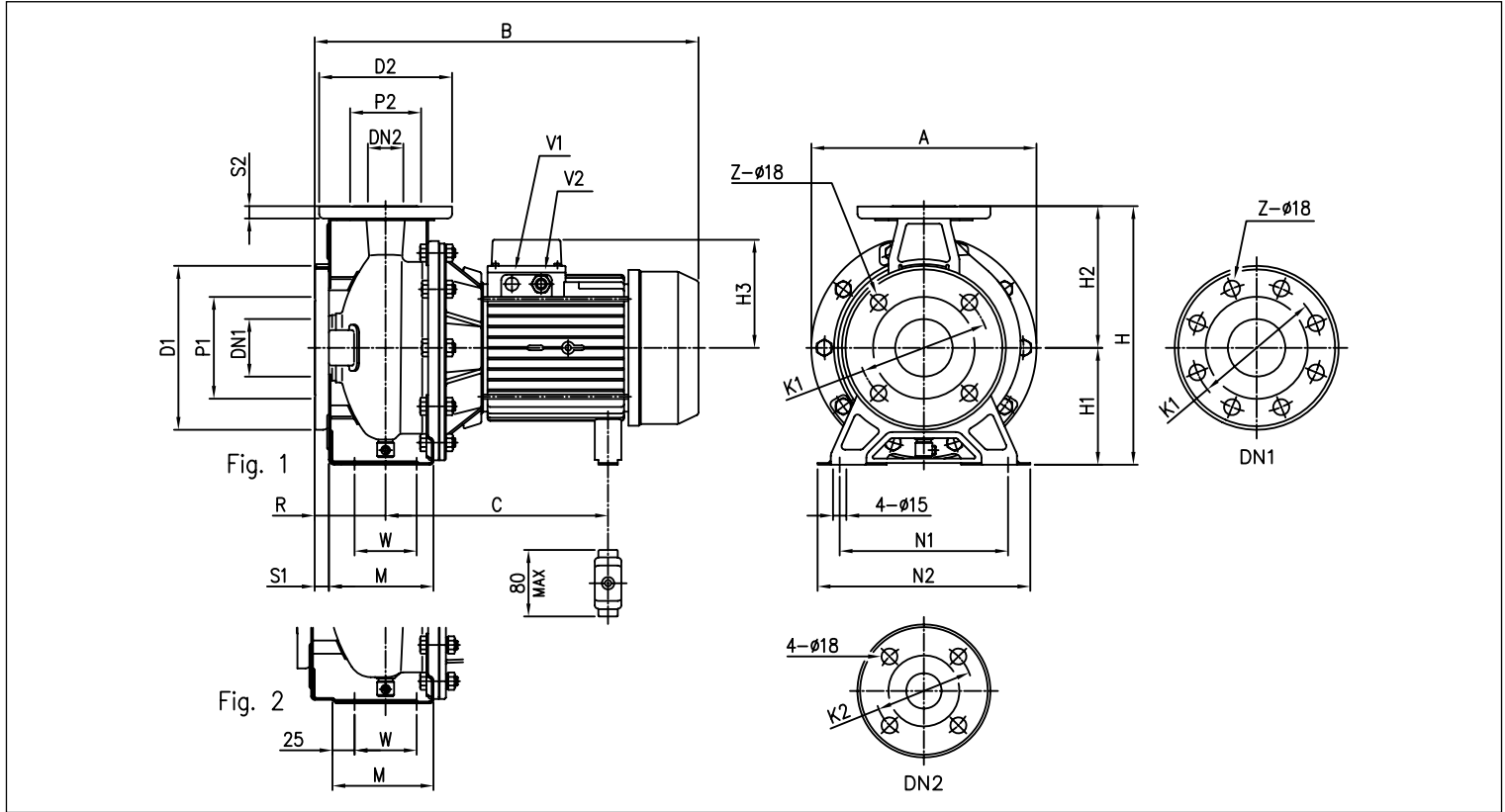
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3 - 3L SERIES

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

3(L)M 32, 40, 50, 65 - up to 11 kW

2 Poles



DIMENSIONAL TABLE

Modello	Dimensioni [mm]																			Peso [kg]													
	DN1 Ø	P1 Ø	K1 Ø	D1 Ø	S1	Z [1] [2]	DN2 Ø	P2 Ø	K2 Ø	D2 Ø	S2	Fig.	H	H1	H2	H3 [4] [3]	R	W	M	N1	N2	A	B [4] [3]	C [3]	V1 [3]	V2 [1]	[4]	[3]					
32-125/1.1 (M)	50	95	125	165	16	4	-	32	75	100	140	14	1	252	112	140	141	119	80	70	114	140	190	213	408	431	219÷230	232	-	PG 13.5	M20x1.5	19.6	24.1
32-160/1.5 (M)	50	95	125	165	16	4	-	32	75	100	140	14	1	292	132	160	141	119	80	70	118	190	240	254	408	431	219÷230	232	-	PG 13.5	M20x1.5	22.5	27.0
32-160/2.2 (M)	50	95	125	165	16	4	-	32	75	100	140	14	1	292	132	160	141	119	80	70	118	190	240	254	408	431	219÷230	232	-	PG 13.5	M20x1.5	27.7	28.0
32-200/3.0	50	95	125	165	16	4	-	32	75	100	140	14	1	340	160	180	-	124	80	70	119	190	240	296	-	471	-	244÷255	-	PG 13.5	-	-	35.1
32-200/4.0	50	95	125	165	16	4	-	32	75	100	140	14	1	340	160	180	-	141	80	70	119	190	240	296	-	494	-	253	-	PG 16	-	-	38.2
32-200/5.5	50	95	125	165	16	4	-	32	75	100	140	14	1	340	160	180	-	150	80	70	119	190	240	296	-	519	-	275	M20x1.5	PG 16	-	-	52.2
32-200/7.5	50	95	125	165	16	4	-	32	75	100	140	14	1	340	160	180	-	150	80	70	119	190	240	296	-	539	-	275	PG 13.5	PG 16	-	-	60.1
40-125/1.5 (M)	65	115	145	185	16	4	-	40	80	110	150	14	1	252	112	140	141	119	80	70	114	160	210	213	408	431	219÷230	232	-	PG 13.5	M20x1.5	20.1	24.6
40-125/2.2 (M)	65	115	145	185	16	4	-	40	80	110	150	14	1	252	112	140	141	119	80	70	114	160	210	213	408	431	219÷230	232	-	PG 13.5	M20x1.5	25.8	26.1
40-160/3.0	65	115	145	185	16	4	-	40	80	110	150	14	1	292	132	160	-	124	80	70	118	190	240	254	-	471	-	244÷255	-	PG 13.5	-	-	26.6
40-160/4.0	65	115	145	185	16	4	-	40	80	110	150	14	1	292	132	160	-	141	80	70	118	190	240	254	-	494	-	253	-	PG 16	-	-	40.8
40-200/5.5	65	115	145	185	16	4	-	40	80	110	150	14	2	340	160	180	-	150	100	70	115	212	265	296	-	539	-	275	M20x1.5	PG 16	-	-	52.5
40-200/7.5	65	115	145	185	16	4	-	40	80	110	150	14	2	340	160	180	-	150	100	70	115	212	265	296	-	559	-	275	PG 13.5	PG 16	-	-	59.3
40-200/11	65	115	145	185	16	4	-	40	80	110	150	14	2	340	160	180	-	178	100	70	115	212	265	296	-	595	-	359	PG 13.5	PG 21	-	-	69.6
50-125/2.2 (M)	65	115	145	185	16	4	-	50	95	125	165	16	2	292	132	160	141	119	100	70	114	190	240	254	428	451	219÷230	232	-	PG 13.5	M20x1.5	29.4	32.0
50-125/3.0	65	115	145	185	16	4	-	50	95	125	165	16	2	292	132	160	-	124	100	70	114	190	240	254	-	491	-	244÷255	-	PG 13.5	-	-	30.9
50-125/4.0	65	115	145	185	16	4	-	50	95	125	165	16	2	292	132	160	-	141	100	70	114	190	240	254	-	514	-	253	-	PG 16	-	-	40.9
50-160/5.5	65	115	145	185	16	4	-	50	95	125	165	16	2	340	160	180	-	150	100	70	115	212	265	296	-	539	-	275	M20x1.5	PG 16	-	-	46.5
50-160/7.5	65	115	145	185	16	4	-	50	95	125	165	16	2	340	160	180	-	150	100	70	115	212	265	296	-	559	-	275	PG 13.5	PG 16	-	-	58.6
50-200/9.2	65	115	145	185	16	4	-	50	95	125	165	16	2	360	160	200	-	178	100	70	115	212	265	296	-	595	-	359	PG 13.5	PG 21	-	-	63.9
50-200/11	65	115	145	185	16	4	-	50	95	125	165	16	2	360	160	200	-	178	100	70	115	212	265	296	-	595	-	359	PG 13.5	PG 21	-	-	69.6
65-125/4	80	134	160	200	18	8	4	65	115	145	185	16	2	340	160	180	-	141	100	95	140	212	280	254	-	514	-	253	-	PG 16	-	-	37.7
65-125/5.5	80	134	160	200	18	8	4	65	115	145	185	16	2	340	160	180	-	150	100	95	140	212	280	254	-	539	-	275	M20x1.5	PG 16	-	-	48.7
65-125/7.5	80	134	160	200	18	8	4	65	115	145	185	16	2	340	160	180	-	150	100	95	140	212	280	254	-	559	-	275	PG 13.5	PG 16	-	-	52.1
65-160/7.5	80	134	160	200	18	8	4	65	115	145	185	16	2	360	160	200	-	150	100	95	140	212	280	296	-	559	-	275	PG 13.5	PG 16	-	-	55.3
65-160/9.2	80	134	160	200	18	8	4	65	115	145	185	16	2	360	160	200	-	178	100	95	140	212	280	296	-	595	-	359	PG 13.5	PG 21	-	-	61.0
65-160/11	80	134	160	200	18	8	4	65	115	145	185	16	2	360	160	200	-	178	100	95	140	212	280	296	-	595	-	359	PG 13.5	PG 21	-	-	67.4

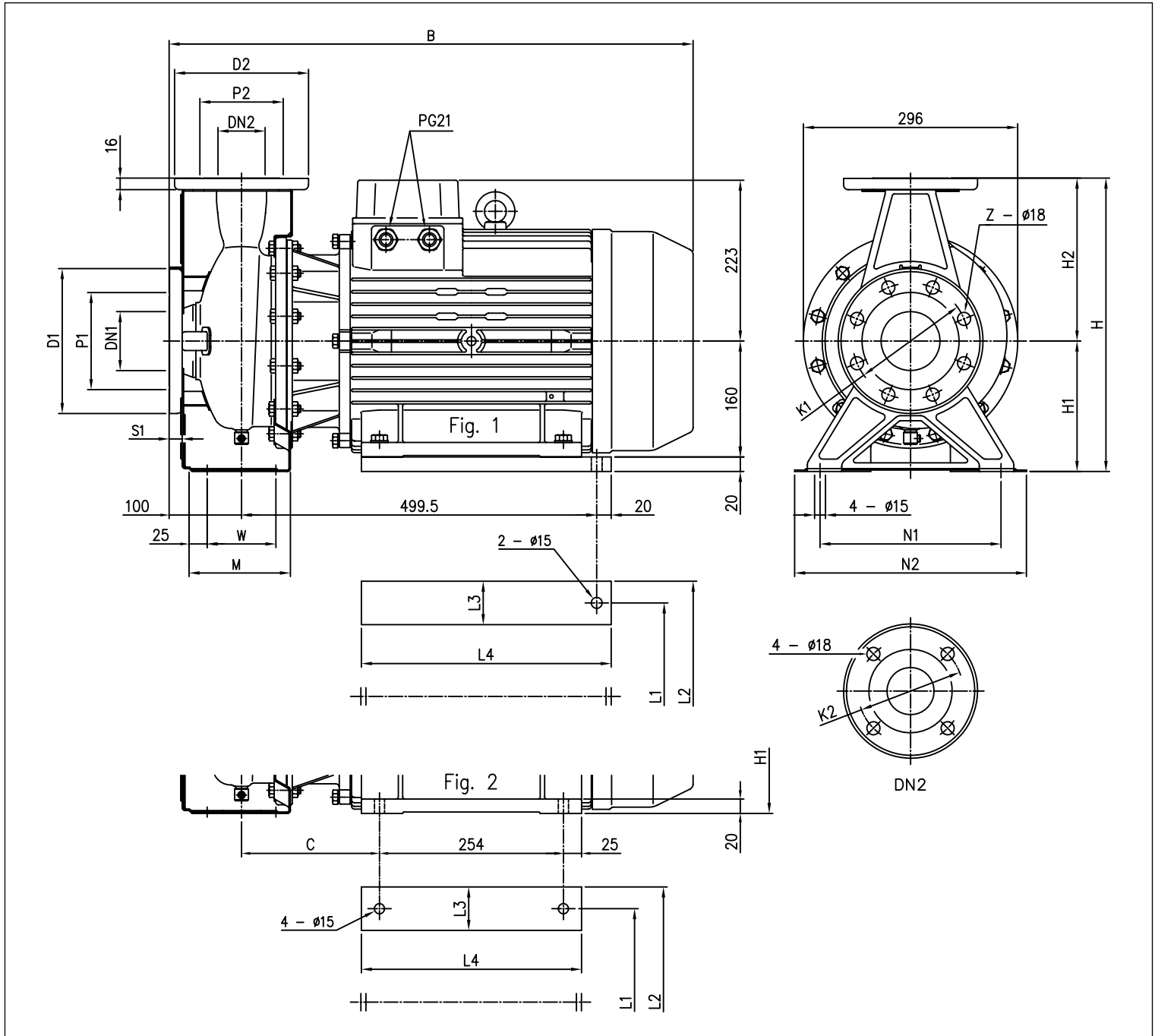
[1] Standard [2] On request
[3] Three-phase only [4] Single phase only

3 - 3L SERIES

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

3(L)M 50, 65 - 15 ÷ 22 kW

2 Poles



DIMENSIONAL TABLE

Modello	Dimensioni [mm]																				Peso [kg]					
	DN1 Ø	P1 Ø	K1 Ø	D1 Ø	S1	Z [1]	Z [2]	DN2 Ø	P2 Ø	K2 Ø	D2 Ø	Fig.	H	H1	H2	W	M	N1	N2	B		C	L1	L2	L3	L4
50-200/15	65	115	145	185	16	4	-	50	95	125	165	2	360	160	200	70	115	212	265	723	190,5	254	318	65	304	105,1
65-160/15	80	134	160	200	18	8	4	65	115	145	185	2	360	160	200	95	140	212	280	732	199,5	254	318	65	304	107,1
65-200/15	80	134	160	200	18	8	4	65	115	145	185	1	405	180	225	95	140	250	320	732	-	254	314	60	345	110,1
65-200/18,5	80	134	160	200	18	8	4	65	115	145	185	1	405	180	225	95	140	250	320	732	-	254	314	60	345	125,3
65-200/22	80	134	160	200	18	8	4	65	115	145	185	1	405	180	225	95	140	250	320	732	-	254	314	60	345	136,1

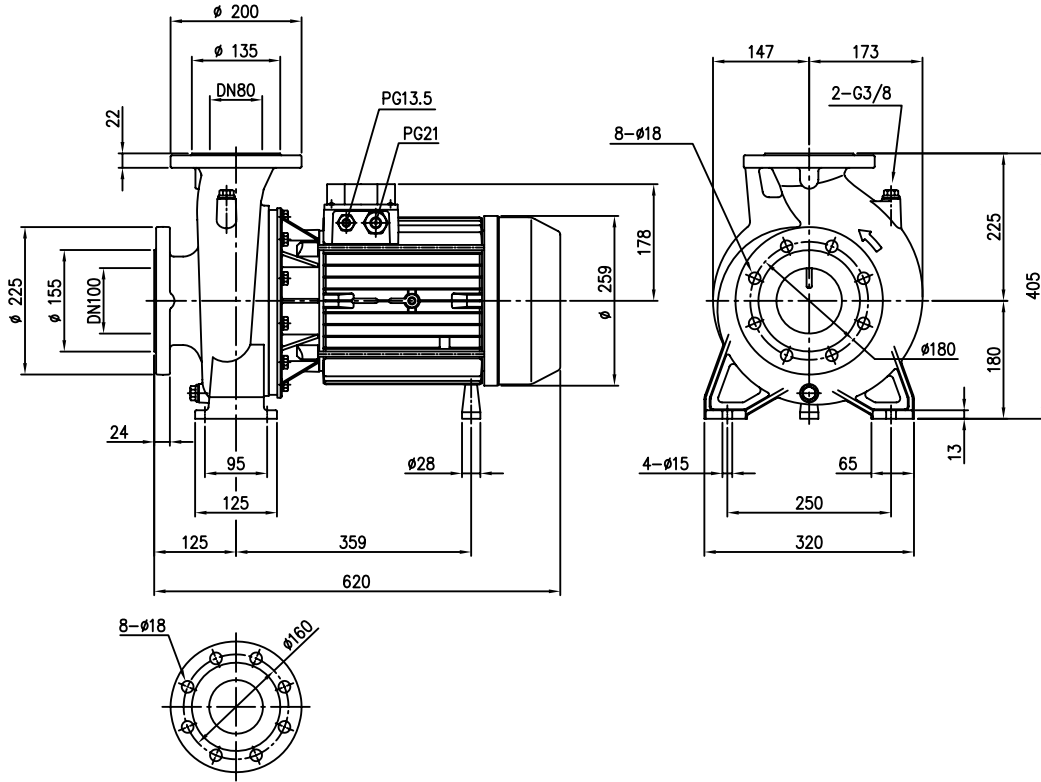
[1] Standard [2] On request

3 - 3L SERIES

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

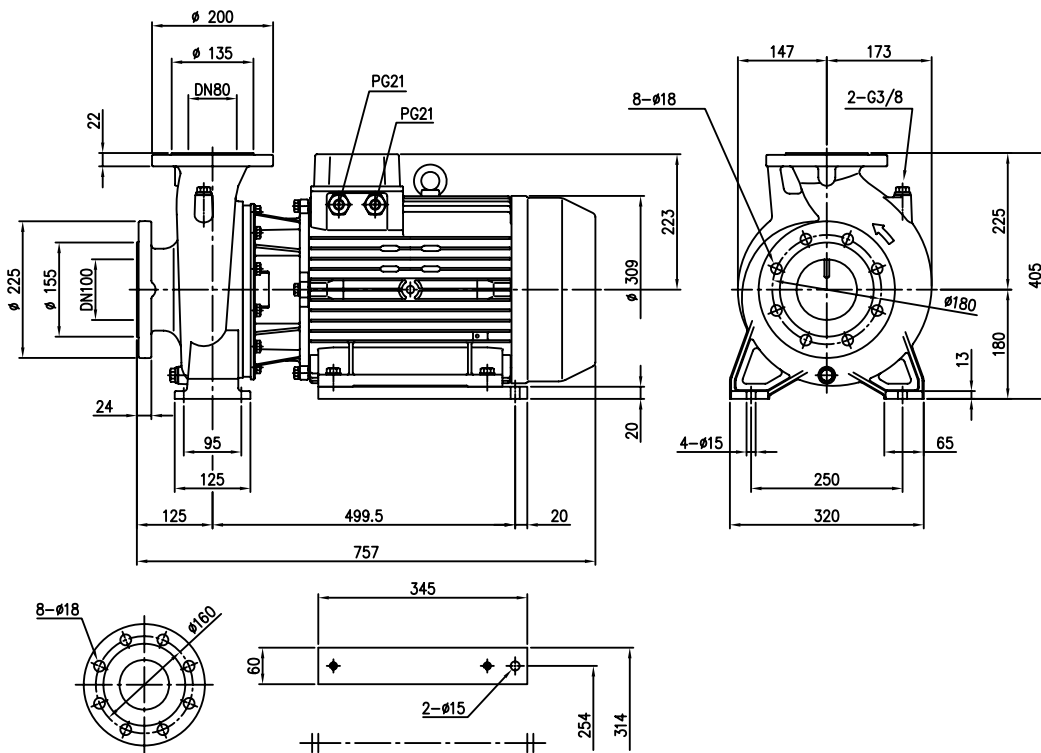
3LM 80-160 - 11 kW

2 Poles



3LM 80-160 / 15R / 15 / 18.5 kW

2 Poles



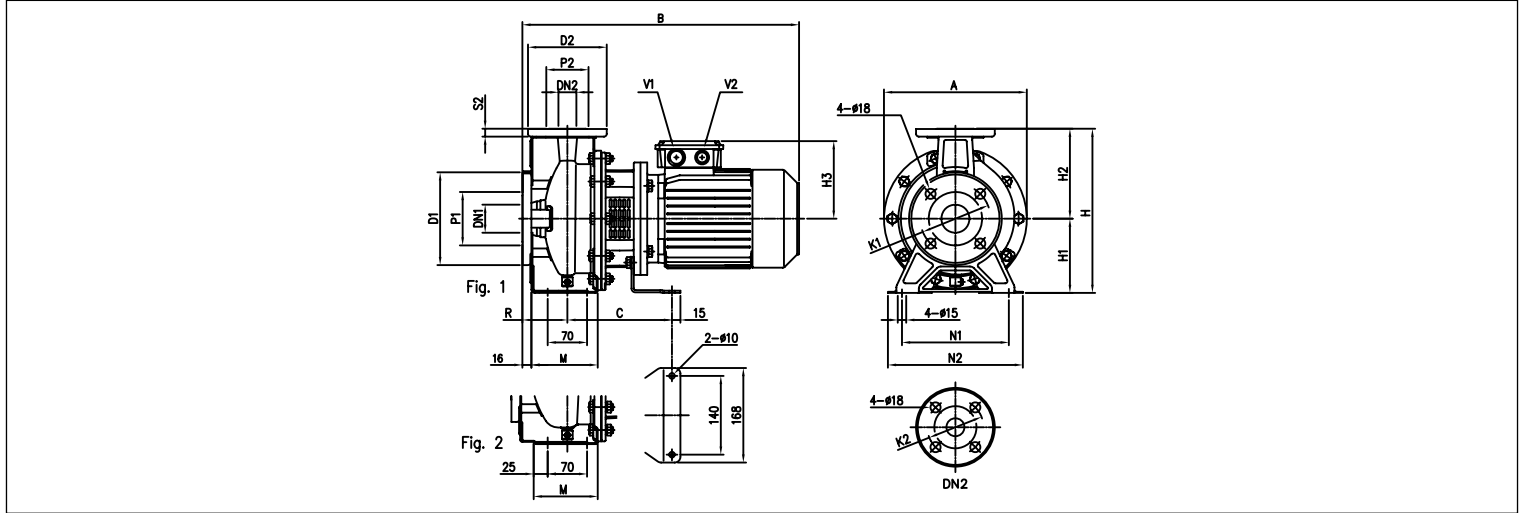
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3 - 3L SERIES

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

3(L)S 32, 40, 50 - up to 2.2 kW

2 Poles

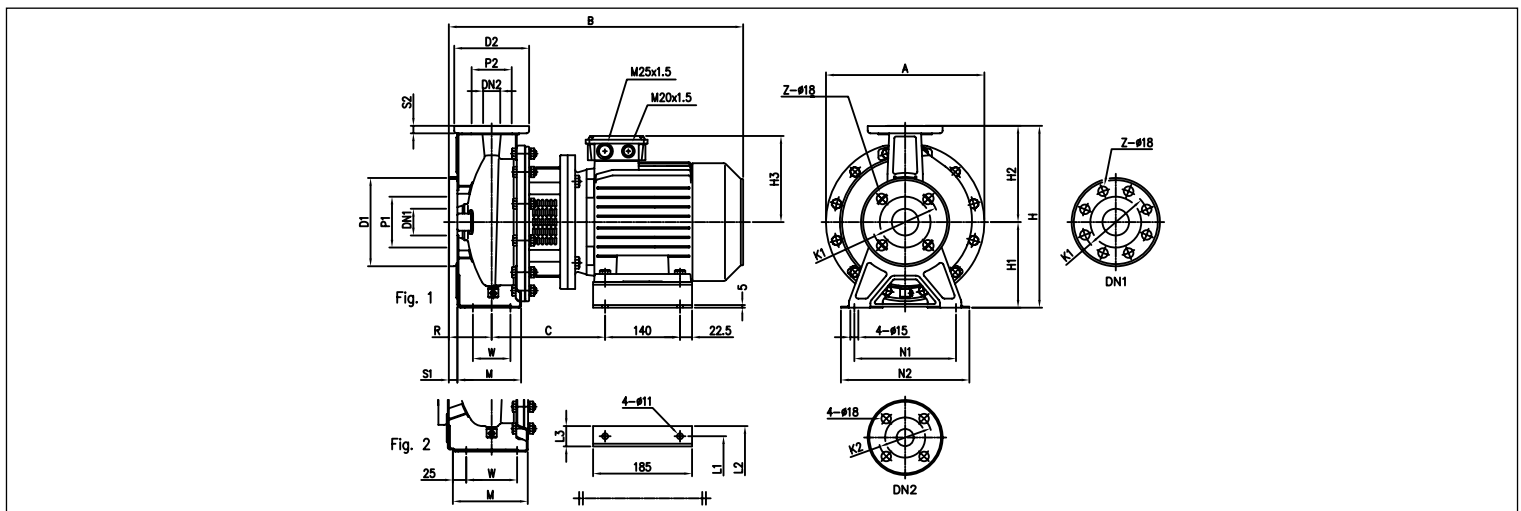


DIMENSIONAL TABLE

Modello	DN1 Ø	P1 Ø	K1 Ø	D1 Ø	DN2 Ø	P2 Ø	K2 Ø	D2 Ø	S2	Fig.	Dimensioni [mm]										Peso [kg]			
											H	H1	H2	H3	R	M	N1	N2	A	B		C	V1	V2
32-125/1.1	50	95	125	165	32	75	100	140	14	1	252	112	140	139	80	114	140	190	213	430	174	M25x1.5	M20x1.5	24.7
32-160/1.5	50	95	125	165	32	75	100	140	14	1	292	132	160	148	80	118	190	240	254	477	186	M25x1.5	M20x1.5	29.8
32-160/2.2	50	95	125	165	32	75	100	140	14	1	292	132	160	148	80	118	190	240	254	477	186	M25x1.5	M20x1.5	32.4
40-125/1.5	65	115	145	185	40	80	110	150	14	1	252	112	140	148	80	114	160	210	213	477	186	M25x1.5	M20x1.5	26.5
40-125/2.2	65	115	145	185	40	80	110	150	14	1	252	112	140	148	80	114	160	210	213	477	186	M25x1.5	M20x1.5	29.6
50-125/2.2	65	115	145	185	50	95	125	165	16	2	292	132	160	148	100	114	190	240	254	497	186	M25x1.5	M20x1.5	32.9

3(L)S 32, 65 - 3 ÷ 4 kW

2 Poles



DIMENSIONAL TABLE

Modello	DN1 Ø	P1 Ø	K1 Ø	D1 Ø	S1	Z		DN2 Ø	P2 Ø	K2 Ø	D2 Ø	S2	Fig.	Dimensioni [mm]										Peso [kg]					
						[1]	[2]							H	H1	H2	H3	R	W	M	N1	N2	A		B	C	L1	L2	L3
32-200/3.0	50	95	125	165	16	4	-	32	75	100	140	14	1	340	160	180	155	80	70	119	190	240	296	528	205	160	202	42	46.9
32-200/4.0	50	95	125	165	16	4	-	32	75	100	140	14	1	340	160	180	171	80	70	119	190	240	296	550	212	190	228	38	49
65-125/4.0	80	134	160	200	18	8	4	65	115	145	185	16	2	340	160	180	171	100	95	140	212	280	254	570	212	190	228	38	50.1

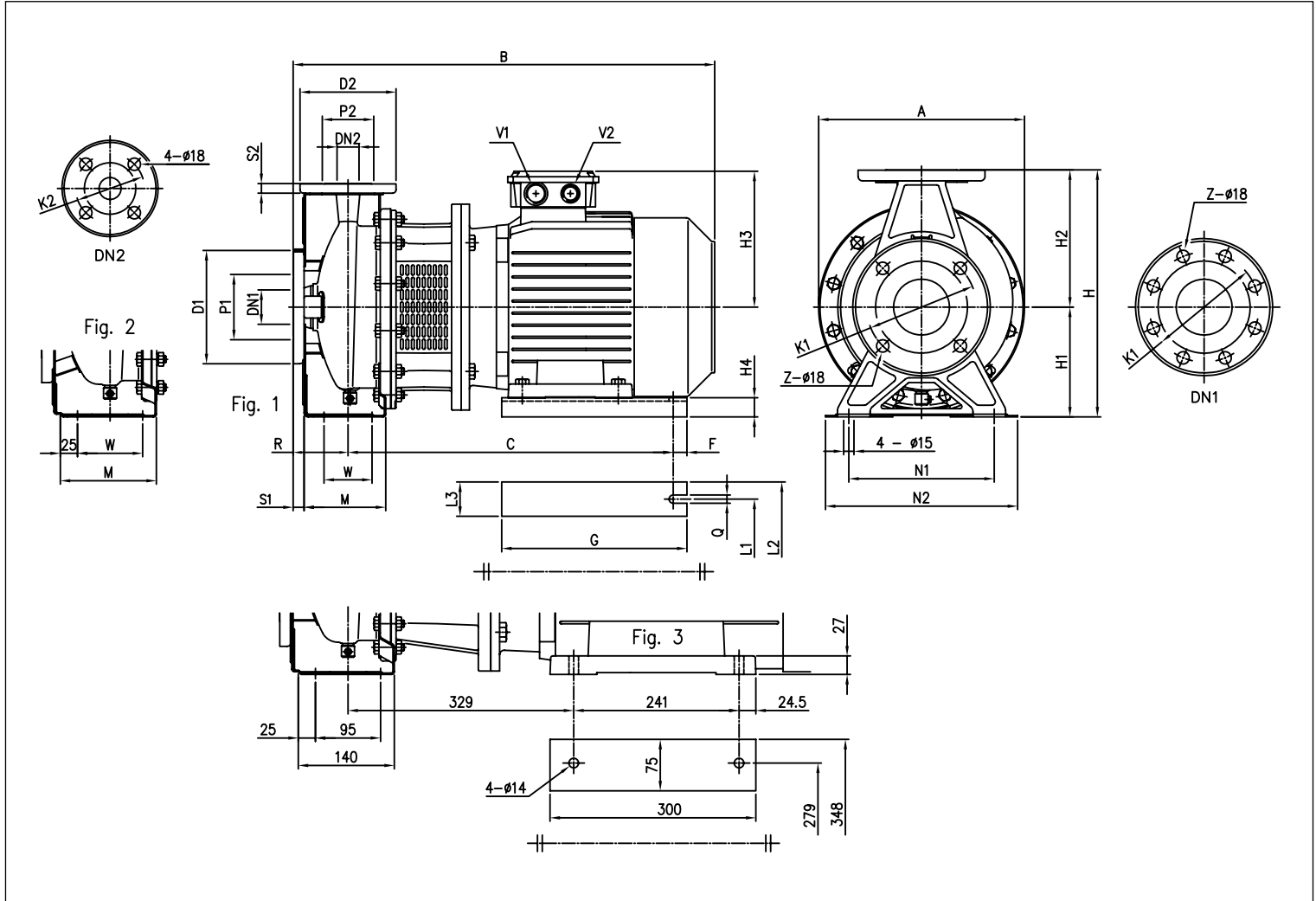
[1] Standard [2] On request

3 - 3L SERIES

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

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

2 Poles



DIMENSIONAL TABLE

Modello	Dimensioni [mm]																								Peso [kg]													
	DN1	P1	K1	D1	S1	Z	DN2	P2	K2	D2	S2	Fig.	H	H1	H2	H3	H4	R	W	M	N1	N2	A	B		C	F	G	Q	L1	L2	L3	V1	V2				
32-200/5.5	50	95	125	165	16	4	-	32	75	100	140	14	1	340	160	180	198	28	80	70	119	190	240	300	607	479	15	270	12	216	266	50	M32x1.5	M32x1.5	71.8			
32-200/7.5	50	95	125	165	16	4	-	32	75	100	140	14	1	340	160	180	198	28	80	70	119	190	240	300	607	479	15	270	12	216	266	50	M32x1.5	M32x1.5	87.0			
40-160/3.0	65	115	145	185	16	4	-	40	80	110	150	14	1	292	132	160	155	32	80	70	118	190	240	254	528	388	15	220	12	160	200	40	M25x1.5	M20x1.5	42.5			
40-160/4.0	65	115	145	185	16	4	-	40	80	110	150	14	1	292	132	160	171	20	80	70	118	190	240	254	550	395	15	220	12	190	240	50	M25x1.5	M20x1.5	44.6			
40-200/5.5	65	115	145	185	16	4	-	40	80	110	150	14	2	340	160	180	198	28	100	70	115	212	265	300	627	479	15	270	12	216	266	50	M32x1.5	M32x1.5	72.2			
40-200/7.5	65	115	145	185	16	4	-	40	80	110	150	14	2	340	160	180	198	28	100	70	115	212	265	300	627	479	15	270	12	216	266	50	M32x1.5	M32x1.5	82.0			
50-125/3.0	65	115	145	185	16	4	-	50	95	125	165	16	2	292	132	160	155	32	100	70	114	190	240	254	548	388	15	220	12	160	200	40	M25x1.5	M20x1.5	35.5			
50-125/4.0	65	115	145	185	16	4	-	50	95	125	165	16	2	292	132	160	171	20	100	70	114	190	240	254	570	395	15	220	12	190	240	50	M25x1.5	M20x1.5	45.6			
50-160/5.5	65	115	145	185	16	4	-	50	95	125	165	16	2	340	160	180	198	28	100	70	115	212	265	300	627	479	15	270	12	216	266	50	M32x1.5	M32x1.5	63.8			
50-160/7.5	65	115	145	185	16	4	-	50	95	125	165	16	2	340	160	180	198	28	100	70	115	212	265	300	627	479	15	270	12	216	266	50	M32x1.5	M32x1.5	91.0			
50-200/9.2	65	115	145	185	16	4	-	50	95	125	165	16	2	360	160	200	198	28	100	70	115	212	265	300	667	479	15	270	12	216	266	50	M32x1.5	M32x1.5	90.7			
65-125/5.5	80	134	160	200	18	8	4	65	115	145	185	16	2	340	160	180	198	28	100	95	140	212	280	300	627	479	15	270	12	216	266	50	M32x1.5	M32x1.5	60.0			
65-125/7.5	80	134	160	200	18	8	4	65	115	145	185	16	2	340	160	180	198	28	100	95	140	212	280	300	627	479	15	270	12	216	266	50	M32x1.5	M32x1.5	79.4			
65-160/7.5	80	134	160	200	18	8	4	65	115	145	185	16	2	360	160	200	198	28	100	95	140	212	280	300	627	479	15	270	12	216	266	50	M32x1.5	M32x1.5	82.4			
65-160/9.2	80	134	160	200	18	8	4	65	115	145	185	16	2	360	160	200	198	28	100	95	140	212	280	300	667	479	15	270	12	216	266	50	M32x1.5	M32x1.5	88.0			
65-200/15	80	134	160	200	18	8	4	65	115	145	185	16	2	405	180	225	238	20	100	95	140	250	320	350	806	621	20	350	14	254	314	60	M40x1.5	M40x1.5	138.0			
65-200/18.5	80	134	160	200	18	8	4	65	115	145	185	16	2	405	180	225	238	20	100	95	140	250	320	350	850	621	20	350	14	254	314	60	M40x1.5	M40x1.5	137.2			
65-200/22	80	134	160	200	18	8	4	65	115	145	185	16	3	405	180	225	268	-	100	-	-	250	320	350	885	-	-	-	-	-	-	-	-	-	-	M32x1.5	M32x1.5	175.0

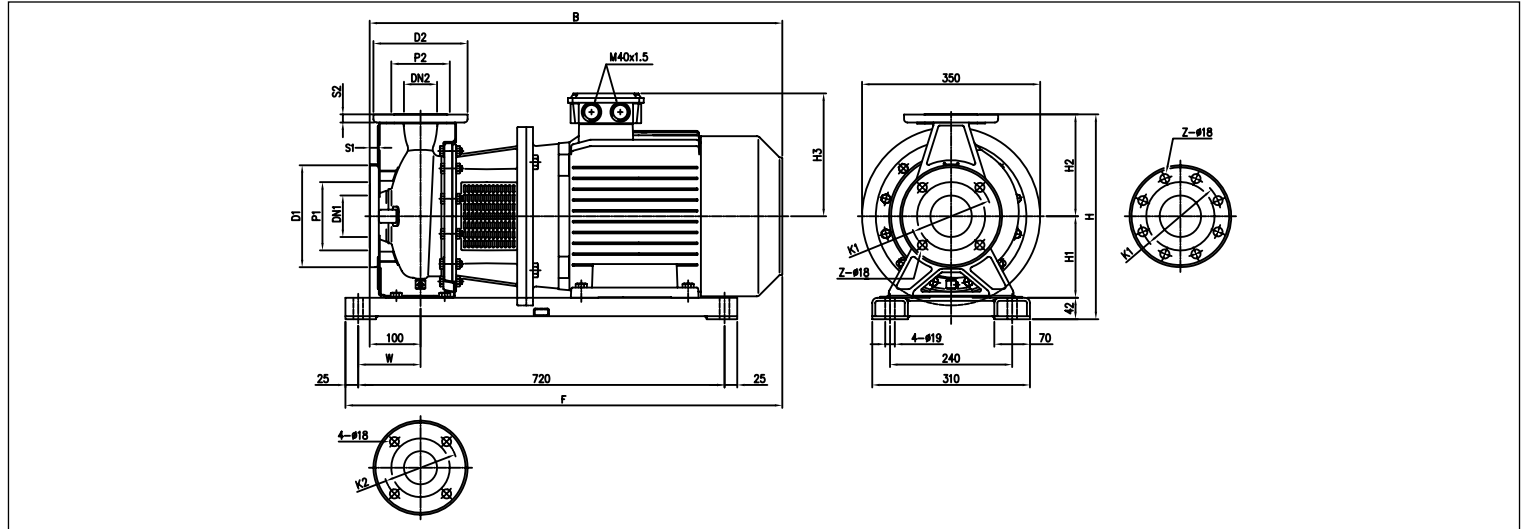
[1] Standard [2] On request

3 - 3L SERIES

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

3(L)S 40, 50, 65 - 11 ÷ 15 kW

2 Poles



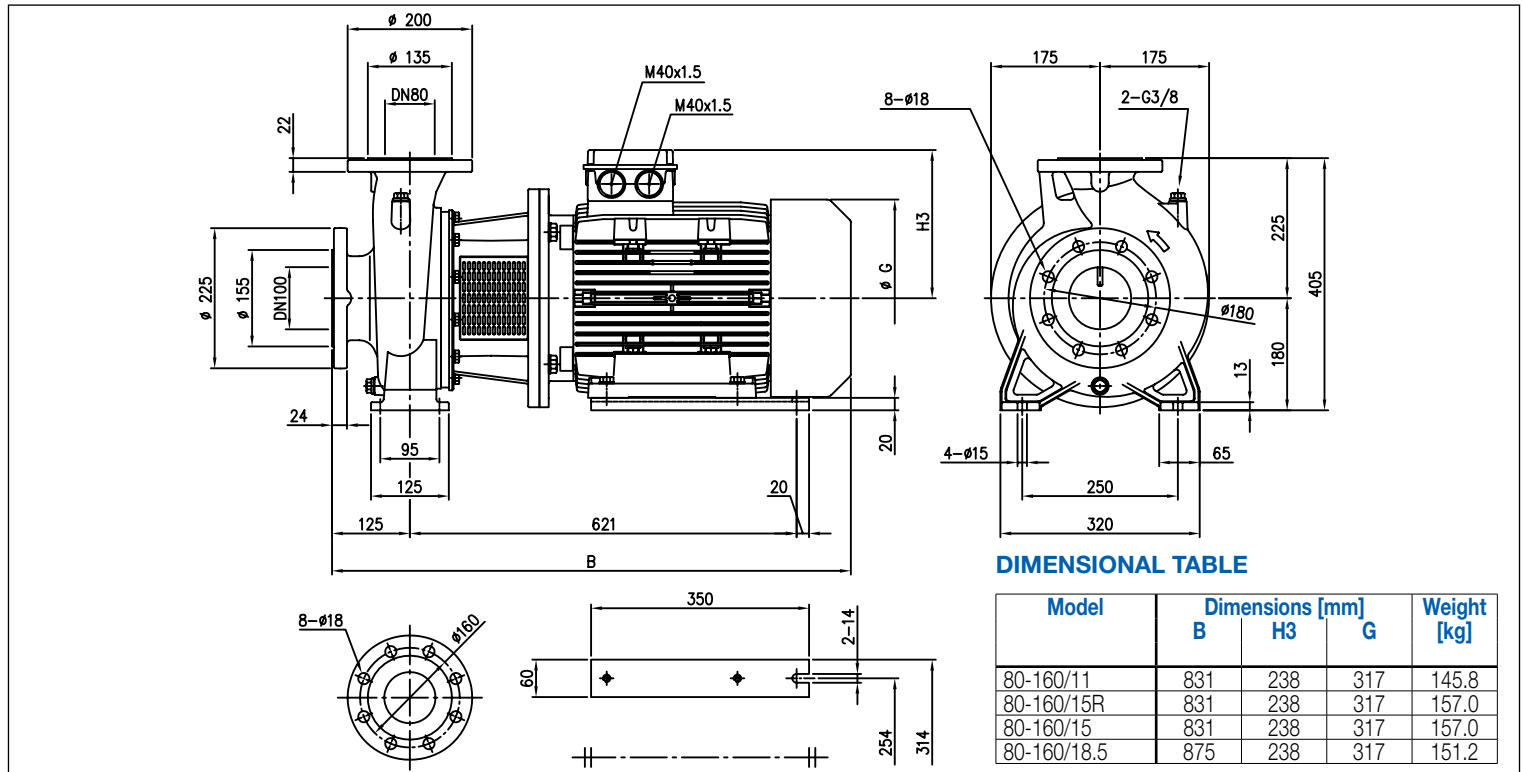
DIMENSIONAL TABLE

Modello	Dimensioni [mm]											S2	H	H1	H2	H3	W	B	F	Peso [kg]
	DN1 Ø	P1 Ø	K1 Ø	D1 Ø	S1	[1]	[2]	DN2 Ø	P2 Ø	K2 Ø	D2 Ø									
40-200/11	65	115	145	185	16	4	-	40	80	110	150	14	382	160	180	238	110	796	831	117,8
50-200/11	65	115	145	185	16	4	-	50	95	125	165	16	402	160	200	238	110	796	831	117,8
50-200/15	65	115	145	185	16	4	-	50	95	125	165	16	402	160	200	238	110	796	831	147,9
65-160/11	80	134	160	200	18	8	4	65	115	145	185	16	402	160	200	238	122,5	796	844	86,8
65-160/15	80	134	160	200	18	8	4	65	115	145	185	16	402	160	200	238	122,5	806	854	120,9

[1] Standard [2] On request

3LS 80-160

2 Poles



DIMENSIONAL TABLE

Model	Dimensions [mm]			Weight [kg]
	B	H3	G	
80-160/11	831	238	317	145,8
80-160/15R	831	238	317	157,0
80-160/15	831	238	317	157,0
80-160/18,5	875	238	317	151,2

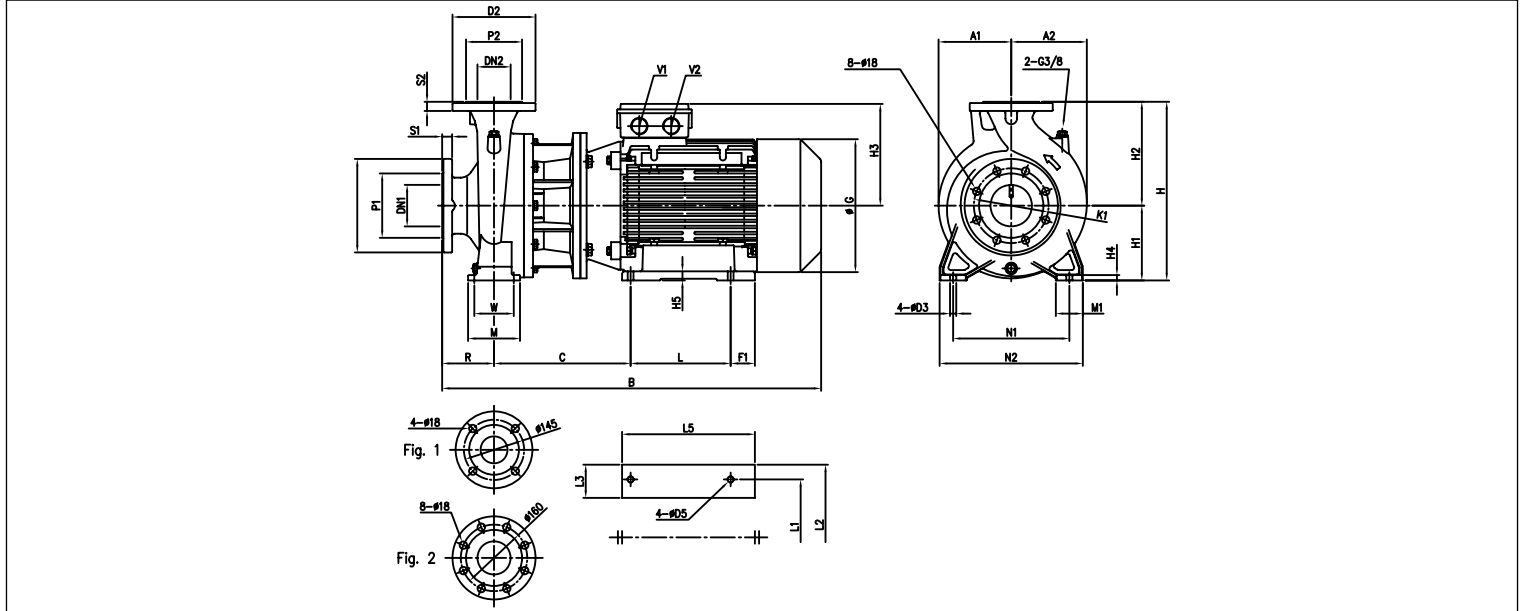
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3 - 3L SERIES

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

3LS 65-250, 80

2 Poles

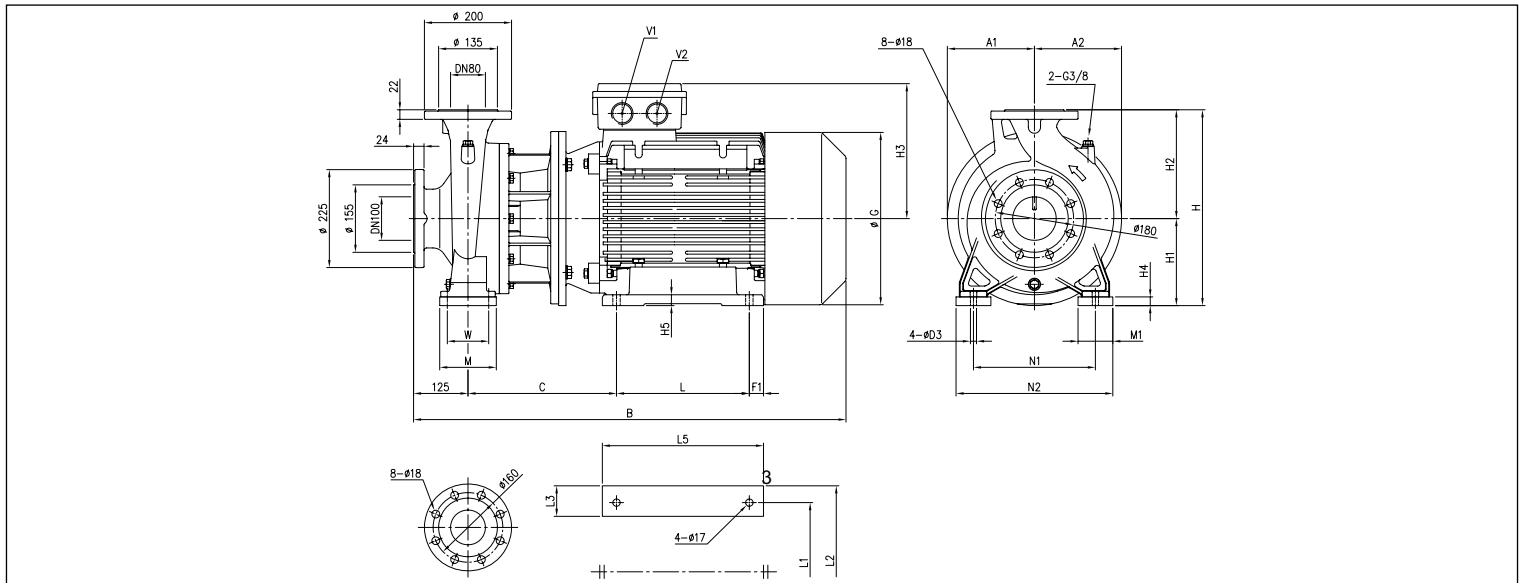


DIMENSIONAL TABLE

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	L3	L5	A1	A2	B	C	F1	G	D3	D5	V1	V2	
65-250/30	80	135	160	200	22	65	Fig.1	120	185	20	450	200	250	300	15	25	100	120	280	360	160	80	305	318	388	80	358	200	200	966	341	21.5	399	19	17	M40x1.5	M40x1.5	303.0
65-250/37	80	135	160	200	22	65	Fig.1	120	185	20	450	200	250	300	15	25	100	120	280	360	160	80	305	318	388	80	358	200	200	966	341	21.5	399	19	17	M40x1.5	M40x1.5	320.0
80-200/22	100	155	180	225	24	80	Fig.2	135	200	22	430	180	250	268	13	27	125	95	280	345	125	65	241	279	348	75	300	175	182	910	329	24.5	360	15	14	M32x1.5	M32x1.5	207.0
80-250/37	100	155	180	225	24	80	Fig.2	135	200	22	480	200	280	300	15	25	125	120	315	400	160	80	305	318	388	80	358	200	200	1019	369	21.5	399	19	17	M40x1.5	M40x1.5	335.0

3LS 80

2 Poles



DIMENSIONAL TABLE

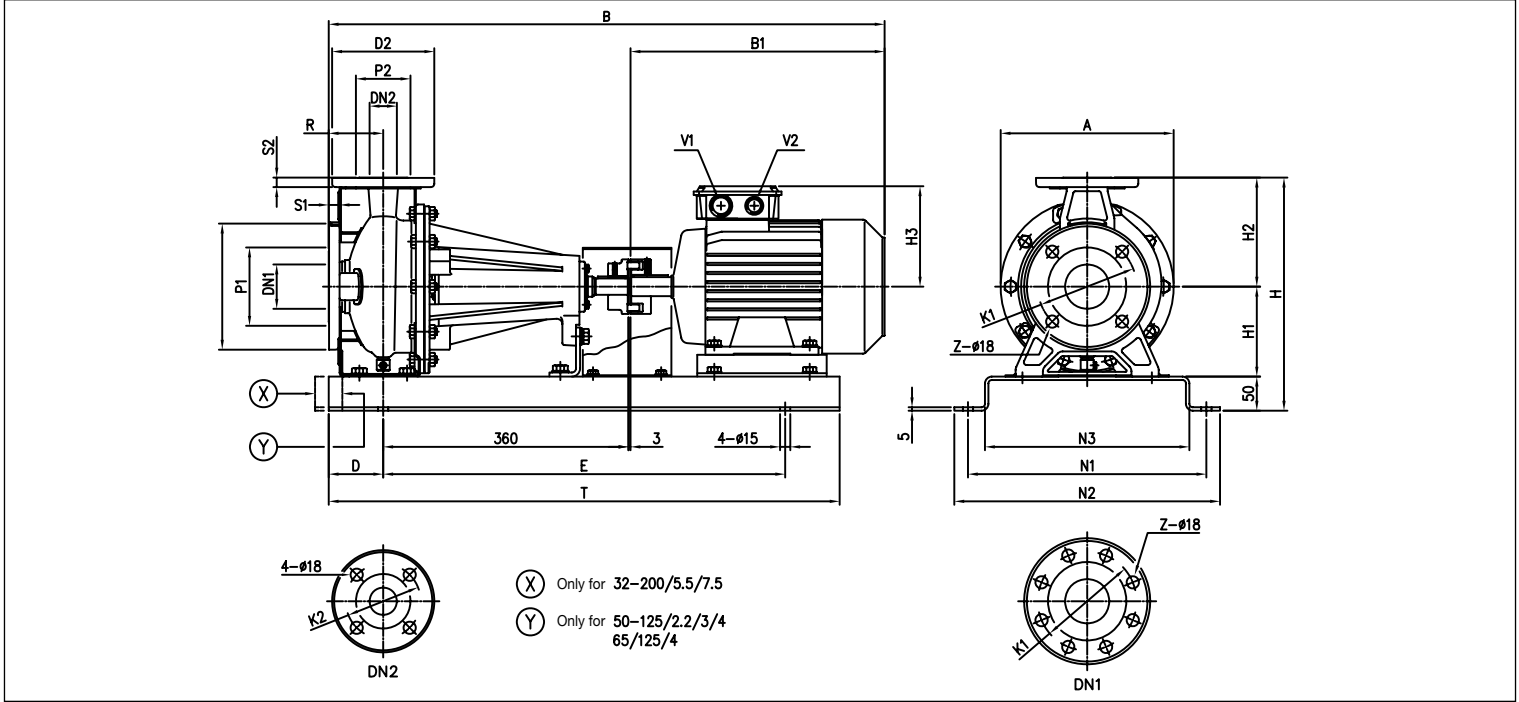
Model	Dimensions [mm]																							Weight [kg]		
	H	H1	H2	H3	H4	H5	W	N1	N2	M	M1	L	L1	L2	L3	L5	A1	A2	B	C	F1	G	D3		V1	V2
80-200/30	450	200	250	300	20	25	95	280	360	130	80	305	318	388	80	358	200	200	991	341	21.5	399	14	M40x1.5	M40x1.5	306.0
80-200/37	450	200	250	300	20	25	95	280	360	130	80	305	318	388	80	358	200	200	991	341	21.5	399	14	M40x1.5	M40x1.5	325.0
80-250/45	505	225	280	335	25	28	120	315	415	165	100	311	356	436	80	386	225	225	1060	385	37.5	465	18	M50x1.5	M50x1.5	401.0

3 - 3L SERIES

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

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

2 Poles



DIMENSIONAL TABLE

Modello	Dimensioni [mm]																				Peso [kg]								
	DN1 Ø	P1 Ø	K1 Ø	D1 Ø	S1	Z [1] [2]	DN2 Ø	P2 Ø	K2 Ø	D2 Ø	S2	H	H1	H2	H3	R	A	B	B1	D		E	N1	N2	N3	T	V1	V2	
32-125/1.1	50	95	125	165	16	4	-	32	75	100	140	14	302	112	140	139	80	213	715	272	80	550	300	340	250	710	M25x1.5	M20x1.5	46.7
32-160/1.5	50	95	125	165	16	4	-	32	75	100	140	14	342	132	160	148	80	254	760	317	80	590	350	390	300	750	M25x1.5	M20x1.5	52.3
32-160/2.2	50	95	125	165	16	4	-	32	75	100	140	14	342	132	160	148	80	254	760	317	80	590	350	390	300	750	M25x1.5	M20x1.5	53.5
32-200/3	50	95	125	165	16	4	-	32	75	100	140	14	390	160	180	155	80	296	809	366	80	590	350	390	300	750	M25x1.5	M20x1.5	71.5
32-200/4	50	95	125	165	16	4	-	32	75	100	140	14	390	160	180	171	80	296	831	388	80	590	350	390	300	750	M25x1.5	M20x1.5	75.1
32-200/5.5	50	95	125	165	16	4	-	32	75	100	140	14	390	160	180	198	80	296	885	442	100	650	350	390	300	850	M32x1.5	M32x1.5	97.0
32-200/7.5	50	95	125	165	16	4	-	32	75	100	140	14	390	160	180	198	80	296	885	442	100	650	350	390	300	850	M32x1.5	M32x1.5	112.2
40-125/1.5	65	115	145	185	16	4	-	40	80	110	150	14	302	112	140	148	80	213	760	317	80	550	300	340	250	710	M25x1.5	M20x1.5	49.8
40-125/2.2	65	115	145	185	16	4	-	40	80	110	150	14	302	112	140	148	80	213	760	317	80	550	300	340	250	710	M25x1.5	M20x1.5	51.0
40-160/3	65	115	145	185	16	4	-	40	80	110	150	14	342	132	160	155	80	254	809	366	80	590	350	390	300	750	M25x1.5	M20x1.5	81.0
40-160/4	65	115	145	185	16	4	-	40	80	110	150	14	342	132	160	171	80	254	831	388	80	590	350	390	300	750	M25x1.5	M20x1.5	67.6
40-200/5.5	65	115	145	185	16	4	-	40	80	110	150	14	390	160	180	198	100	296	905	442	100	650	350	390	300	850	M32x1.5	M32x1.5	98.0
40-200/7.5	65	115	145	185	16	4	-	40	80	110	150	14	390	160	180	198	100	296	905	442	100	650	350	390	300	850	M32x1.5	M32x1.5	106.9
40-200/11	65	115	145	185	16	4	-	40	80	110	150	14	390	160	180	238	100	296	1071	608	100	800	380	420	330	1000	M40x1.5	M40x1.5	127.8
50-125/2.2	65	115	145	185	16	4	-	50	95	125	165	16	342	132	160	148	100	254	780	317	80	550	350	390	300	710	M25x1.5	M20x1.5	75.0
50-125/3	65	115	145	185	16	4	-	50	95	125	165	16	342	132	160	155	100	254	829	366	80	590	350	390	300	750	M25x1.5	M20x1.5	82.5
50-125/4	65	115	145	185	16	4	-	50	95	125	165	16	342	132	160	171	100	254	851	388	80	590	350	390	300	750	M25x1.5	M20x1.5	84.6
50-160/5.5	65	115	145	185	16	4	-	50	95	125	165	16	390	160	180	198	100	296	905	442	100	650	350	390	300	850	M32x1.5	M32x1.5	98.0
50-160/7.5	65	115	145	185	16	4	-	50	95	125	165	16	390	160	180	198	100	296	905	442	100	650	350	390	300	850	M32x1.5	M32x1.5	106.9
50-200/9.2	65	115	145	185	16	4	-	50	95	125	165	16	410	160	200	198	100	296	945	482	100	650	350	390	300	850	M32x1.5	M32x1.5	111.0
50-200/11	65	115	145	185	16	4	-	50	95	125	165	16	410	160	200	238	100	296	1071	608	100	800	380	420	330	1000	M40x1.5	M40x1.5	128.3
50-200/15	65	115	145	185	16	4	-	50	95	125	165	16	410	160	200	238	100	296	1071	608	100	800	380	420	330	1000	M40x1.5	M40x1.5	135.4
65-125/4	80	134	160	200	18	8	4	65	115	145	185	16	390	160	180	171	100	254	851	388	80	590	350	390	300	750	M25x1.5	M20x1.5	85.1
65-125/5.5	80	134	160	200	18	8	4	65	115	145	185	16	390	160	180	198	100	254	905	442	100	650	350	390	300	850	M32x1.5	M32x1.5	99.0
65-125/7.5	80	134	160	200	18	8	4	65	115	145	185	16	390	160	180	198	100	254	905	442	100	650	350	390	300	850	M32x1.5	M32x1.5	109.4
65-160/7.5	80	134	160	200	18	8	4	65	115	145	185	16	410	160	200	198	100	296	905	442	100	650	350	390	300	850	M32x1.5	M32x1.5	115.4
65-160/9.2	80	134	160	200	18	8	4	65	115	145	185	16	410	160	200	198	100	296	945	482	100	650	350	390	300	850	M32x1.5	M32x1.5	118.0
65-160/11	80	134	160	200	18	8	4	65	115	145	185	16	410	160	200	238	100	296	1071	608	100	800	380	420	330	1000	M40x1.5	M40x1.5	124.8
65-160/15	80	134	160	200	18	8	4	65	115	145	185	16	410	160	200	238	100	296	1071	608	100	800	380	420	330	1000	M40x1.5	M40x1.5	129.0
65-200/15	80	134	160	200	18	8	4	65	115	145	185	16	455	180	225	238	100	296	1071	608	100	800	380	420	330	1000	M40x1.5	M40x1.5	137.0
65-200/18.5	80	134	160	200	18	8	4	65	115	145	185	16	455	180	225	238	100	296	1115	652	100	800	380	420	330	1000	M40x1.5	M40x1.5	135.2
65-200/22	80	134	160	200	18	8	4	65	115	145	185	16	455	180	225	268	100	296	1150	687	100	800	410	450	360	1000	M32x1.5	M32x1.5	189.0

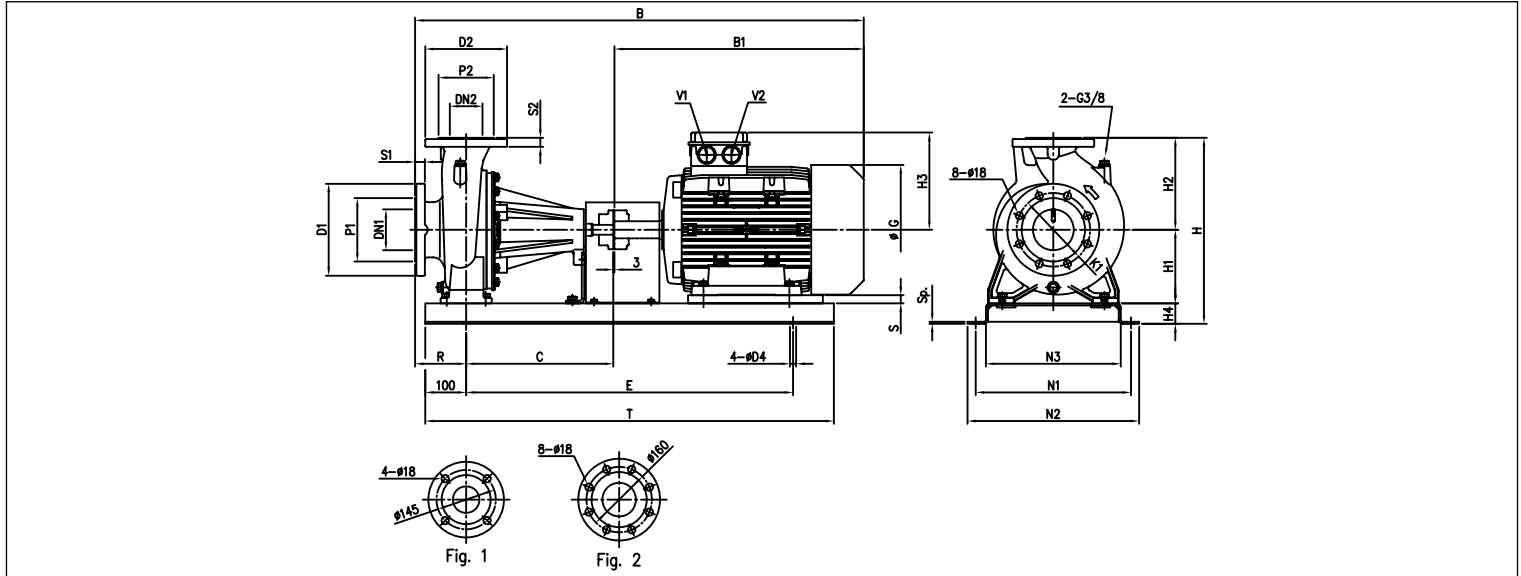
[1] Standard [2] On request

3 - 3L SERIES

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

3LP 65-250, 80

2 Poles

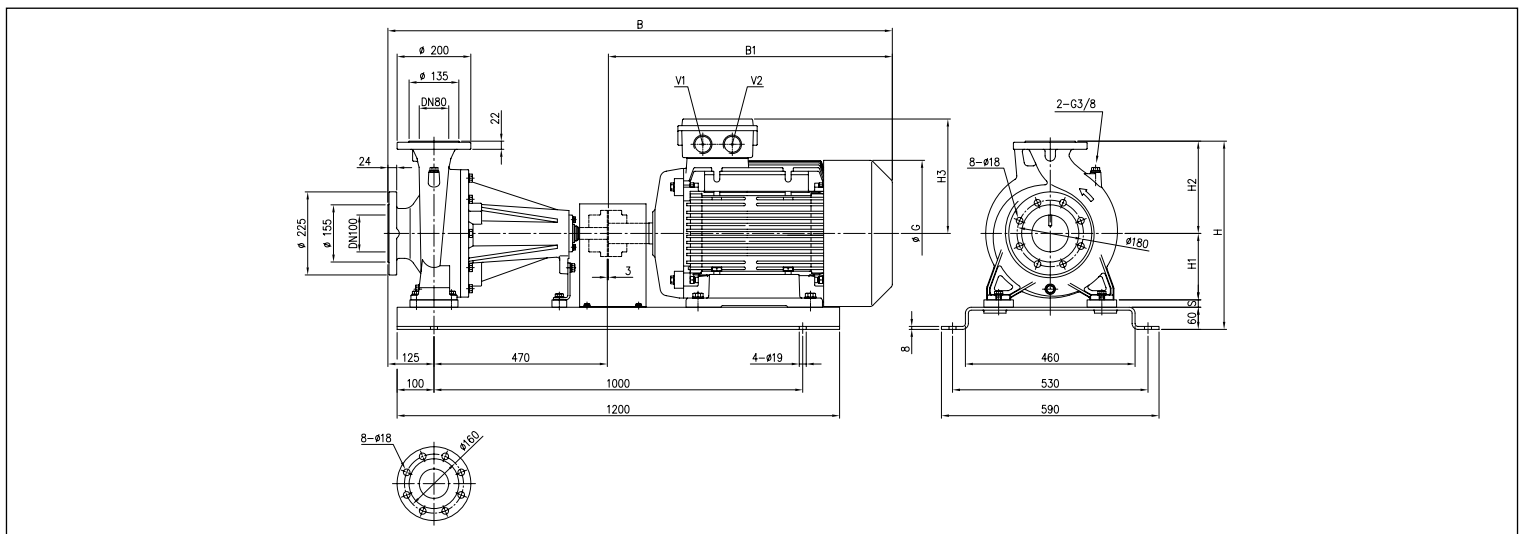


DIMENSIONAL TABLE

Modello	Dimensioni [mm]																										Peso [kg]			
	DN1	P1	K1	D1	S1	DN2	P2	D2	S2	H	H1	H2	H3	H4	R	N1	N2	N3	B	B1	C	G	E	T	S	D4		Sp.	V1	V2
65-250/30	80	135	160	200	22	65 Fig. 1	120	185	20	510	200	250	300	60	100	530	590	460	1341	768	470	399	1000	1200	-	19	8	M40x1.5	M40x1.5	354.0
65-250/37	80	135	160	200	22	65 Fig. 1	120	185	20	510	200	250	300	60	100	530	590	460	1341	768	470	399	1000	1200	-	19	8	M40x1.5	M40x1.5	373.0
80-160/11	100	155	180	225	24	80 Fig. 2	135	200	22	455	180	225	238	50	125	380	420	330	1096	608	360	317	800	1000	20	15	5	M40x1.5	M40x1.5	174.8
80-160/15R	100	155	180	225	24	80 Fig. 2	135	200	22	455	180	225	238	50	125	380	420	330	1096	608	360	317	800	1000	20	15	5	M40x1.5	M40x1.5	186.0
80-160/15	100	155	180	225	24	80 Fig. 2	135	200	22	455	180	225	238	50	125	380	420	330	1096	608	360	317	800	1000	20	15	5	M40x1.5	M40x1.5	186.0
80-160/18.5	100	155	180	225	24	80 Fig. 2	135	200	22	455	180	225	238	50	125	380	420	330	1140	652	360	317	800	1000	20	15	5	M40x1.5	M40x1.5	181.2
80-200/22	100	155	180	225	24	80 Fig. 2	135	200	22	490	180	250	268	60	125	530	590	460	1285	687	470	360	1000	1200	-	19	8	M32x1.5	M32x1.5	259.0
80-250/37	100	155	180	225	24	80 Fig. 2	135	200	22	540	200	280	300	60	125	530	590	460	1366	768	470	399	1000	1200	-	19	8	M40x1.5	M40x1.5	377.0

3LP 80 - 30 ÷ 45 kW

2 Poles



DIMENSIONAL TABLE

Modello	Dimensioni [mm]											Peso [kg]
	H	H1	H2	H3	B	B1	G	S	V1	V2		
80-200/30	510	180	250	300	1366	768	399	20	M40x1.5	M40x1.5	356.0	
80-200/37	510	180	250	300	1366	768	399	20	M40x1.5	M40x1.5	365.0	
80-250/45	565	200	280	335	1407	809	465	25	M50x1.5	M50x1.5	440.0	

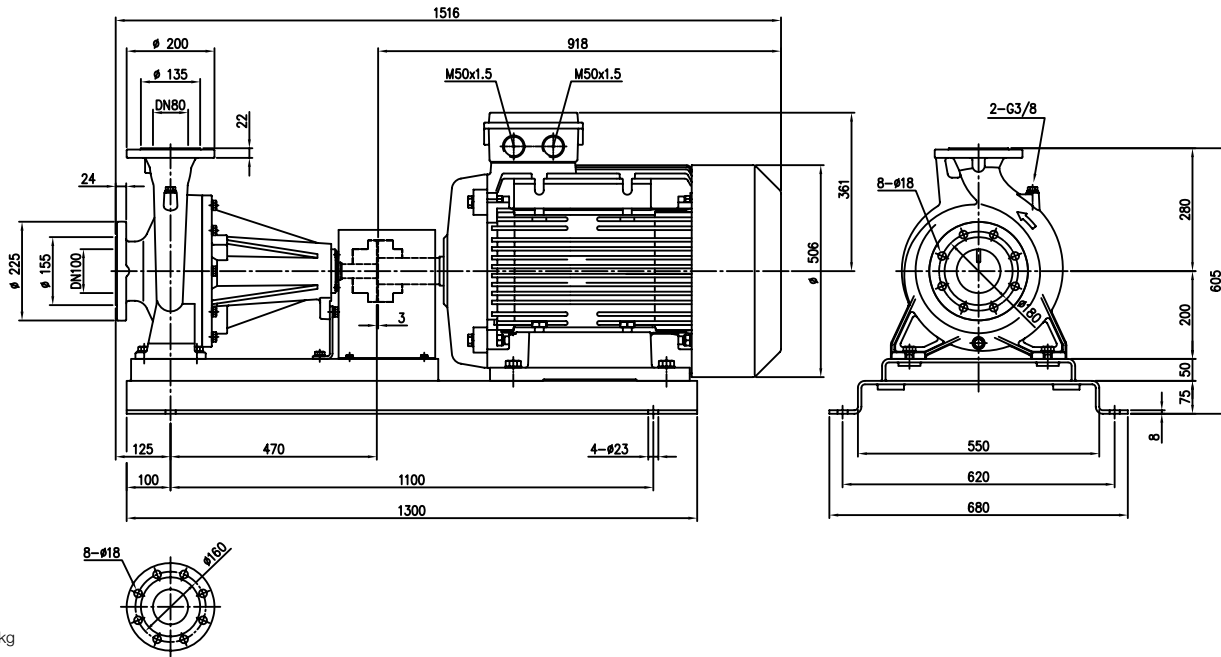


3 - 3L SERIES

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

3LP 80-250/55

2 Poles



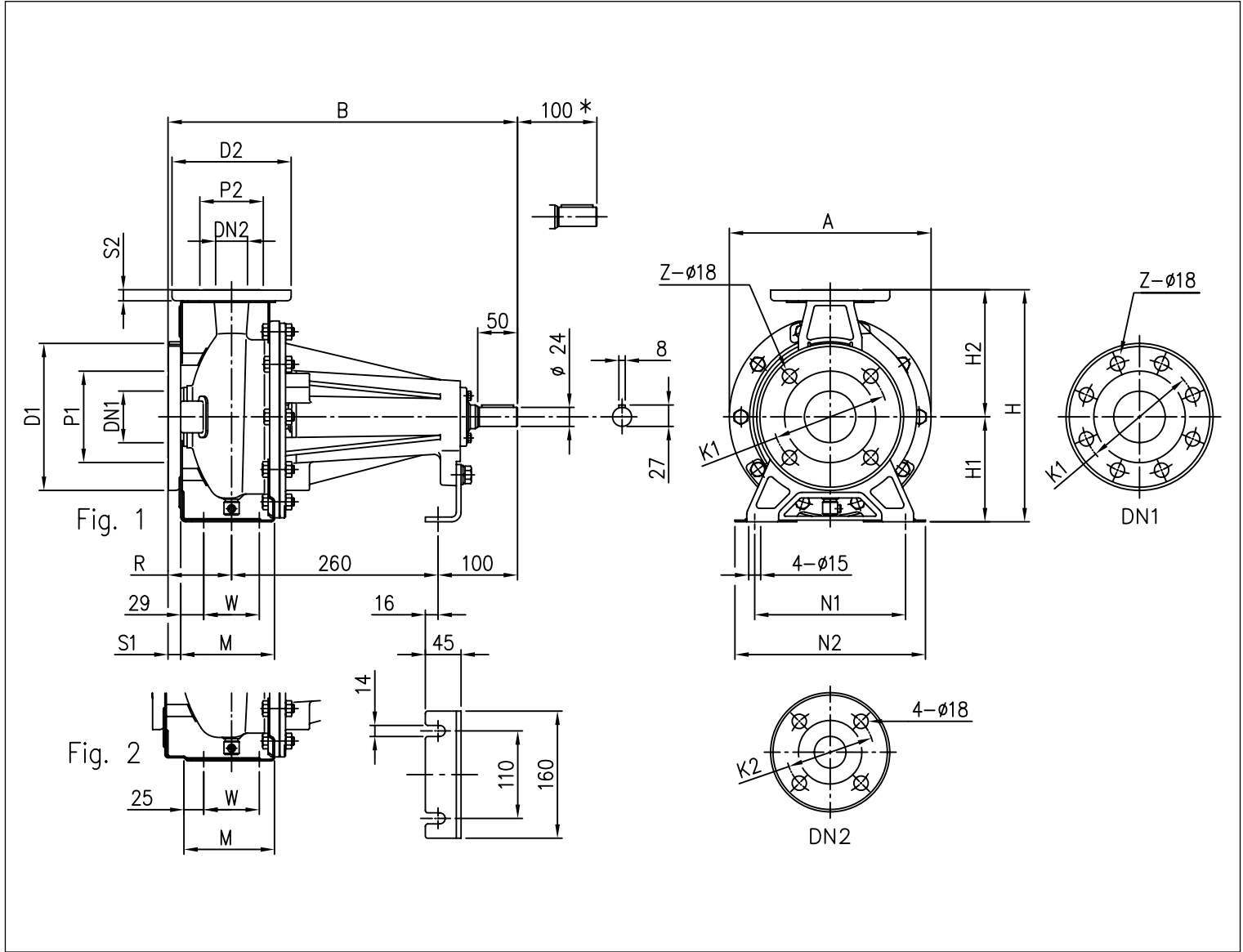
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3 - 3L SERIES

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

3(L)PF 32, 40, 50, 65

2 Poles



DIMENSIONAL TABLE

Model	Fig.	DN1	P1	K1	D1	S1	Z		DN2	P2	Dimensions [mm]				H	H1	H2	M	N1	N2	R	W	A	B	Weight [kg]
							[1]	[2]			K2	D2	S2												
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	

[1] Standard [2] On request

* Space where it is possible to disassemble the pump with spacer joint without disassembling the motor.

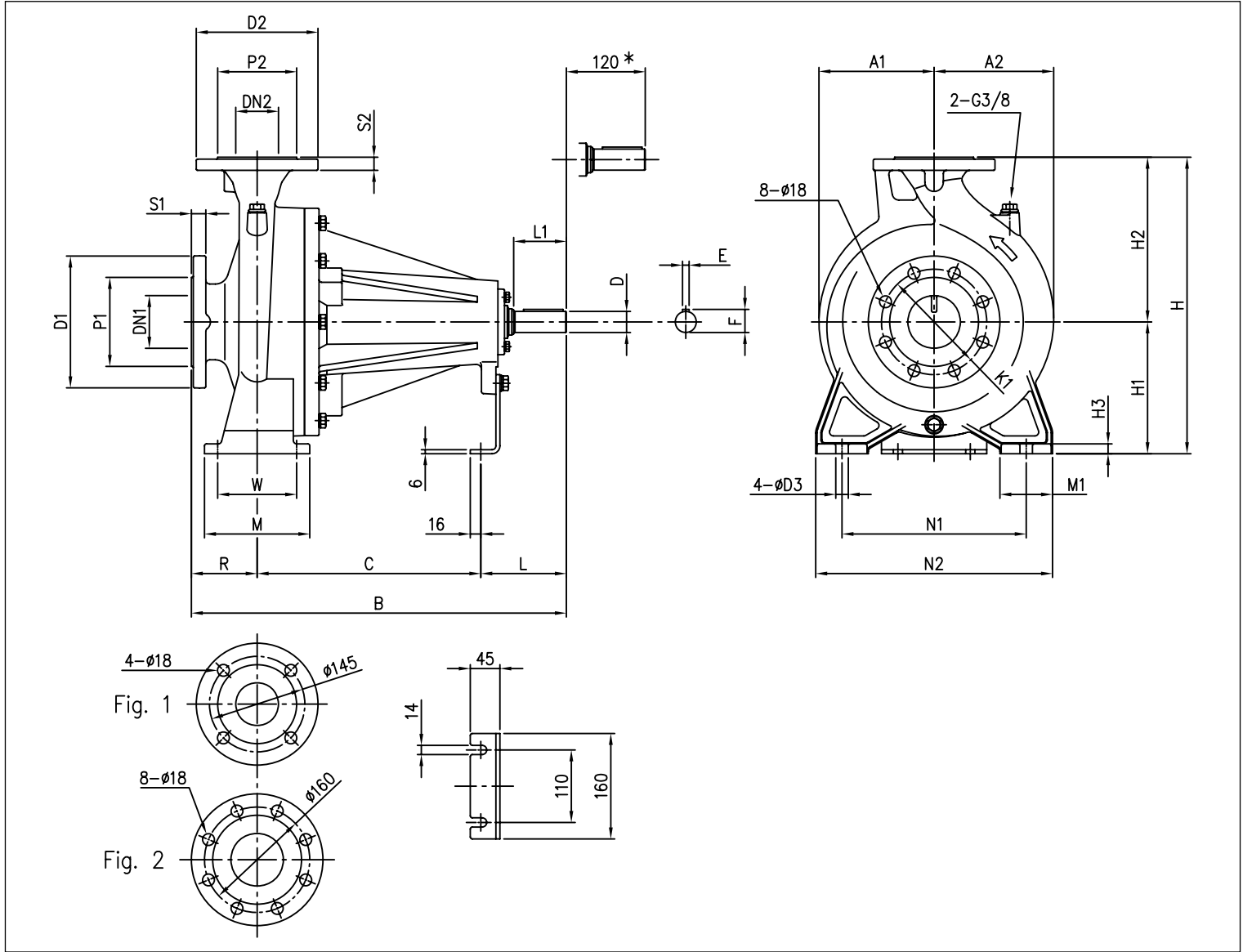
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3 - 3L SERIES

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

3(L)PF 65-250, 80

2 Poles



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DIMENSIONAL TABLE

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	60.0
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	88.0

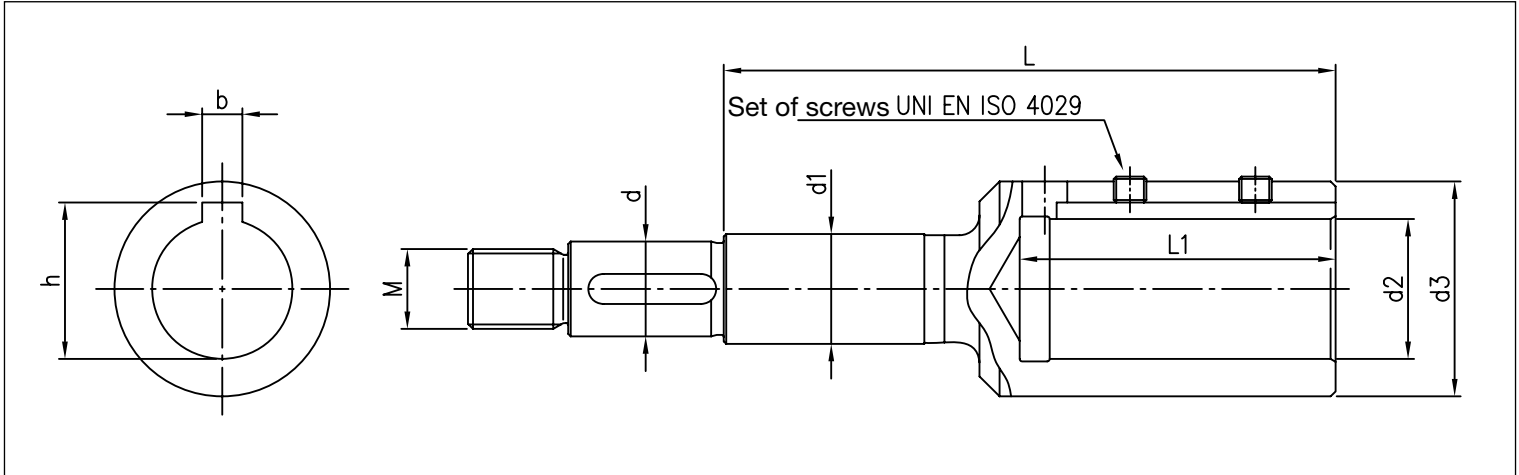
* Space where it is possible to disassemble the pump with spacer joint without disassembling the motor.

3 - 3L SERIES

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

JOINT FOR 3(L)S SERIES

2 Poles



DIMENSIONAL TABLE

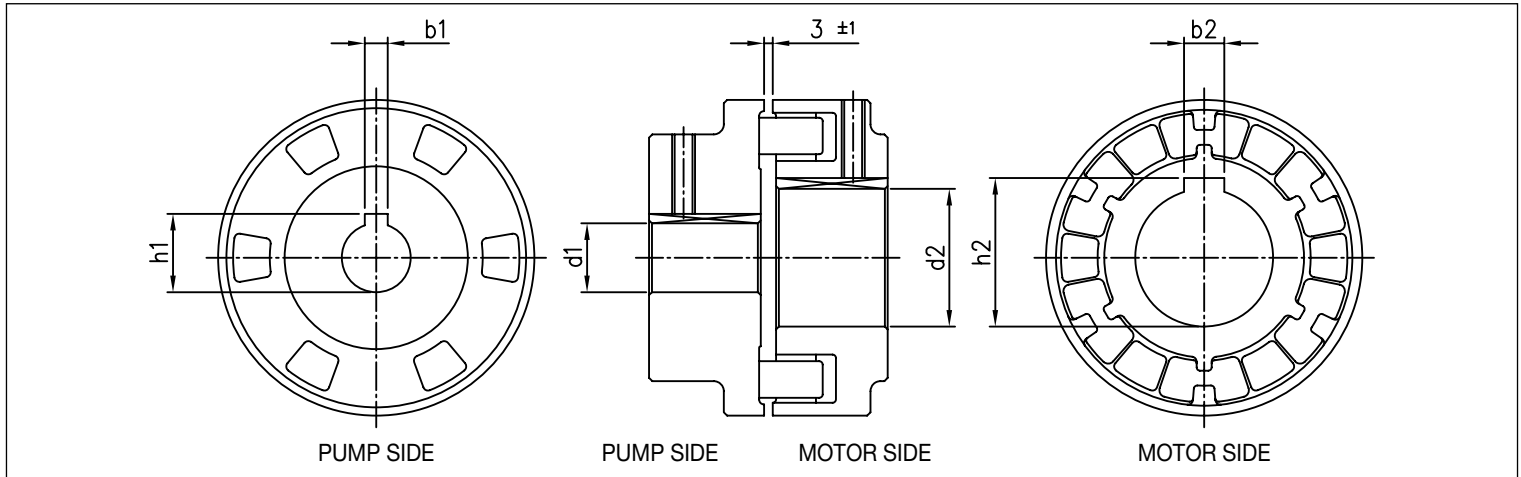
Model	[HP]	[kW]	Motor size	Dimensions [mm]									
				d	d1	d2	d3	M	L	L1	b	h	Screws
32-125/1.1	1.5	1.1	80	19	22	19	33	M16x1.5	98	43	6	21.8	M6x6
32-160/1.5	2	1.5	90	19	22	24	39	M16x1.5	110	53	8	27.3	M8x8
32-160/2.2	3	2.2	90	19	22	24	39	M16x1.5	110	53	8	27.3	M8x8
32-200/3.0	4	3	100	19	22	28	43	M16x1.5	122	63	8	31.3	M8x8
32-200/4.0	5.5	4	112	19	22	28	43	M16x1.5	122	63	8	31.3	M8x8
32-200/5.5	7.5	5.5	132	19	22	38	58	M16x1.5	145	84	10	41.3	M8x8
32-200/7.5	10	7.5	132	19	22	38	58	M16x1.5	145	84	10	41.3	M8x8
40-125/1.5	2	1.5	90	19	22	24	39	M16x1.5	110	53	8	27.3	M8x8
40-125/2.2	3	2.2	90	19	22	24	39	M16x1.5	110	53	8	27.3	M8x8
40-160/3.0	4	3	100	19	22	28	43	M16x1.5	122	63	8	31.3	M8x8
40-160/4.0	5.5	4	112	19	22	28	43	M16x1.5	122	63	8	31.3	M8x8
40-200/5.5	7.5	5.5	132	19	22	38	58	M16x1.5	145	84	10	41.3	M8x8
40-200/7.5	10	7.5	132	19	22	38	58	M16x1.5	145	84	10	41.3	M8x8
40-200/11	15	11	160	19	22	42	63	M16x1.5	178	114	12	45.3	M8x8
50-125/2.2	3	2.2	90	19	22	24	39	M16x1.5	110	53	8	27.3	M8x8
50-125/3.0	4	3	100	19	22	28	43	M16x1.5	122	63	8	31.3	M8x8
50-125/4.0	5.5	4	112	19	22	28	43	M16x1.5	122	63	8	31.3	M8x8
50-160/5.5	7.5	5.5	132	19	22	38	58	M16x1.5	145	84	10	41.3	M8x8
50-160/7.5	10	7.5	132	19	22	38	58	M16x1.5	145	84	10	41.3	M8x8
50-200/9.2	12.5	9.2	132	19	22	38	58	M16x1.5	145	84	10	41.3	M8x8
50-200/11	15	11	160	19	22	42	63	M16x1.5	178	114	12	45.3	M8x8
50-200/15	20	15	160	22	22	42	63	M18x1.5	209	114	12	45.3	M8x8
65-125/4.0	5.5	4	112	19	22	28	43	M16x1.5	122	63	8	31.3	M8x8
65-125/5.5	7.5	5.5	132	19	22	38	58	M16x1.5	145	84	10	41.3	M8x8
65-125/7.5	10	7.5	132	19	22	38	58	M16x1.5	145	84	10	41.3	M8x8
65-160/7.5	10	7.5	132	19	22	38	58	M16x1.5	145	84	10	41.3	M8x8
65-160/9.2	12.5	9.2	132	19	22	38	58	M16x1.5	145	84	10	41.3	M8x8
65-160/11	15	11	160	19	22	42	63	M16x1.5	178	114	12	45.3	M8x8
65-160/15	20	15	160	24	30	42	63	M20x1.5	184	114	12	45.3	M8x8
65-200/15	20	15	160	24	30	42	63	M20x1.5	184	114	12	45.3	M8x8
65-200/18.5	25	18.5	160	24	30	42	63	M20x1.5	184	114	12	45.3	M8x8
65-200/22	30	22	180	24	30	48	72	M20x1.5	184	114	14	51.8	M10x10
65-250/30	40	30	200	24	30	55	85	M20x1.5	184	114	16	59.3	M12x12
65-250/37	50	37	200	24	30	55	85	M20x1.5	184	114	16	59.3	M12x12
80-160/11	15	11	160	24	30	42	63	M20x1.5	184	114	12	45.3	M8x8
80-160/15R	20	15	160	24	30	42	63	M20x1.5	184	114	12	45.3	M8x8
80-160/15	20	15	160	24	30	42	63	M20x1.5	184	114	12	45.3	M8x8
80-160/18.5	25	18.5	160	24	30	42	63	M20x1.5	184	114	12	45.3	M8x8
80-200/22	30	22	180	24	30	48	72	M20x1.5	184	114	14	51.8	M10x10
80-200/30	40	30	200	24	30	55	85	M20x1.5	184	114	16	59.3	M12x12
80-200/37	50	37	200	24	30	55	85	M20x1.5	184	114	16	59.3	M12x12
80-250/37	50	37	200	29	35	55	85	M24x2	206	114	16	59.3	M12x12
80-250/45	60	45	225	29	35	55	85	M24x2	206	114	16	59.3	M12x12
80-250/55	75	55	250	29	35	60	89	M24x2	218	144	18	64.4	M12x12

3 - 3L SERIES

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

JOINT FOR 3(L)P SERIES

2 Poles



DIMENSIONAL TABLE

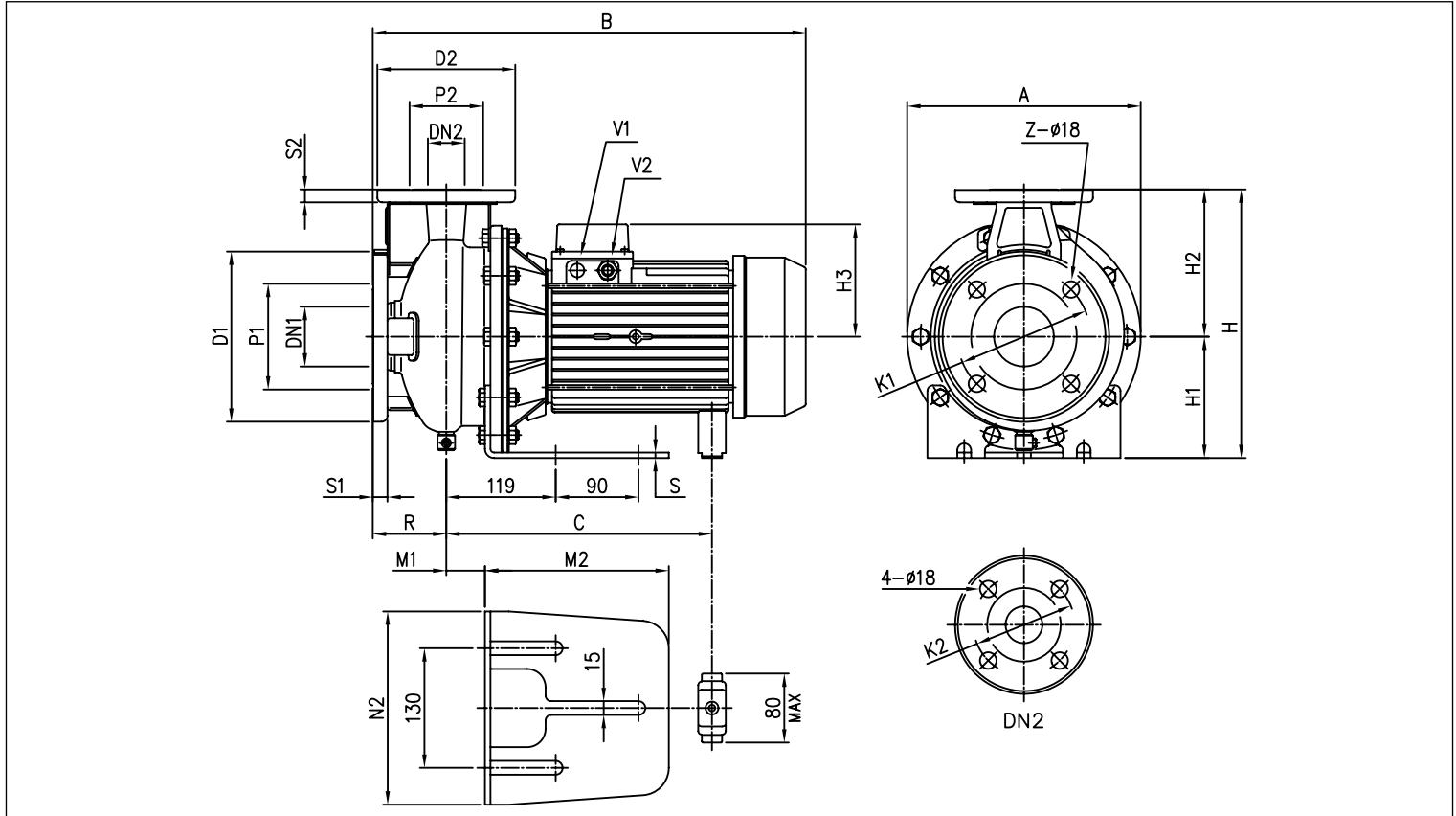
Model	[HP]	[kW]	Motor	Dimensions [mm]					
				d1	b1	h1	d2	b2	h2
32-125/1.1	1.5	1.1	80	24	8	27.3	19	6	21.8
32-160/1.5	2	1.5	90	24	8	27.3	24	8	27.3
32-160/2.2	3	2.2	90	24	8	27.3	24	8	27.3
32-200/3.0	4	3	100	24	8	27.3	28	8	31.3
32-200/4.0	5.5	4	112	24	8	27.3	28	8	31.3
32-200/5.5	7.5	5.5	132	24	8	27.3	38	10	41.3
32-200/7.5	10	7.5	132	24	8	27.3	38	10	41.3
40-125/1.5	2	1.5	90	24	8	27.3	24	8	27.3
40-125/2.2	3	2.2	90	24	8	27.3	24	8	27.3
40-160/3.0	4	3	100	24	8	27.3	28	8	31.3
40-160/4.0	5.5	4	112	24	8	27.3	28	8	31.3
40-200/5.5	7.5	5.5	132	24	8	27.3	38	10	41.3
40-200/7.5	10	7.5	132	24	8	27.3	38	10	41.3
40-200/11	15	11	160	24	8	27.3	42	12	45.3
50-125/2.2	3	2.2	90	24	8	27.3	24	8	27.3
50-125/3.0	4	3	100	24	8	27.3	28	8	31.3
50-125/4.0	5.5	4	112	24	8	27.3	28	8	31.3
50-160/5.5	7.5	5.5	132	24	8	27.3	38	10	41.3
50-160/7.5	10	7.5	132	24	8	27.3	38	10	41.3
50-200/9.2	12.5	9.2	132	24	8	27.3	38	10	41.3
50-200/11	15	11	160	24	8	27.3	42	12	45.3
50-200/15	20	15	160	24	8	27.3	42	12	45.3
65-125/4.0	5.5	4	112	24	8	27.3	28	8	31.3
65-125/5.5	7.5	5.5	132	24	8	27.3	38	10	41.3
65-125/7.5	10	7.5	132	24	8	27.3	38	10	41.3
65-160/7.5	10	7.5	132	24	8	27.3	38	10	41.3
65-160/9.2	12.5	9.2	132	24	8	27.3	38	10	41.3
65-160/11	15	11	160	24	8	27.3	42	12	45.3
65-160/15	20	15	160	24	8	27.3	42	12	45.3
65-200/15	20	15	160	24	8	27.3	42	12	45.3
65-200/18.5	25	18.5	160	24	8	27.3	42	12	45.3
65-200/22	30	22	180	24	8	27.3	48	14	51.8
65-250/30	40	30	200	32	10	35.3	55	16	59.3
65-250/37	50	37	200	32	10	35.3	55	16	59.3
80-160/11	15	11	160	24	8	27.3	42	12	45.3
80-160/15R	20	15	160	24	8	27.3	42	12	45.3
80-160/15	20	15	160	24	8	27.3	42	12	45.3
80-160/18.5	25	18.5	160	24	8	27.3	42	12	45.3
80-200/22	30	22	180	32	10	35.3	48	14	51.8
80-200/30	40	30	200	32	10	35.3	55	16	59.3
80-200/37	50	37	200	32	10	35.3	55	16	59.3
80-250/37	50	37	200	32	10	35.3	55	16	59.3
80-250/45	60	45	225	32	10	35.3	55	16	59.3
80-250/55	75	55	250	32	10	35.3	60	18	64.4

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3Z SERIES

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

3LMZ 32, 40, 50-125, 50-160, 50-200/9.2/11 - 65-125, 65-160/7.5/9.2/11



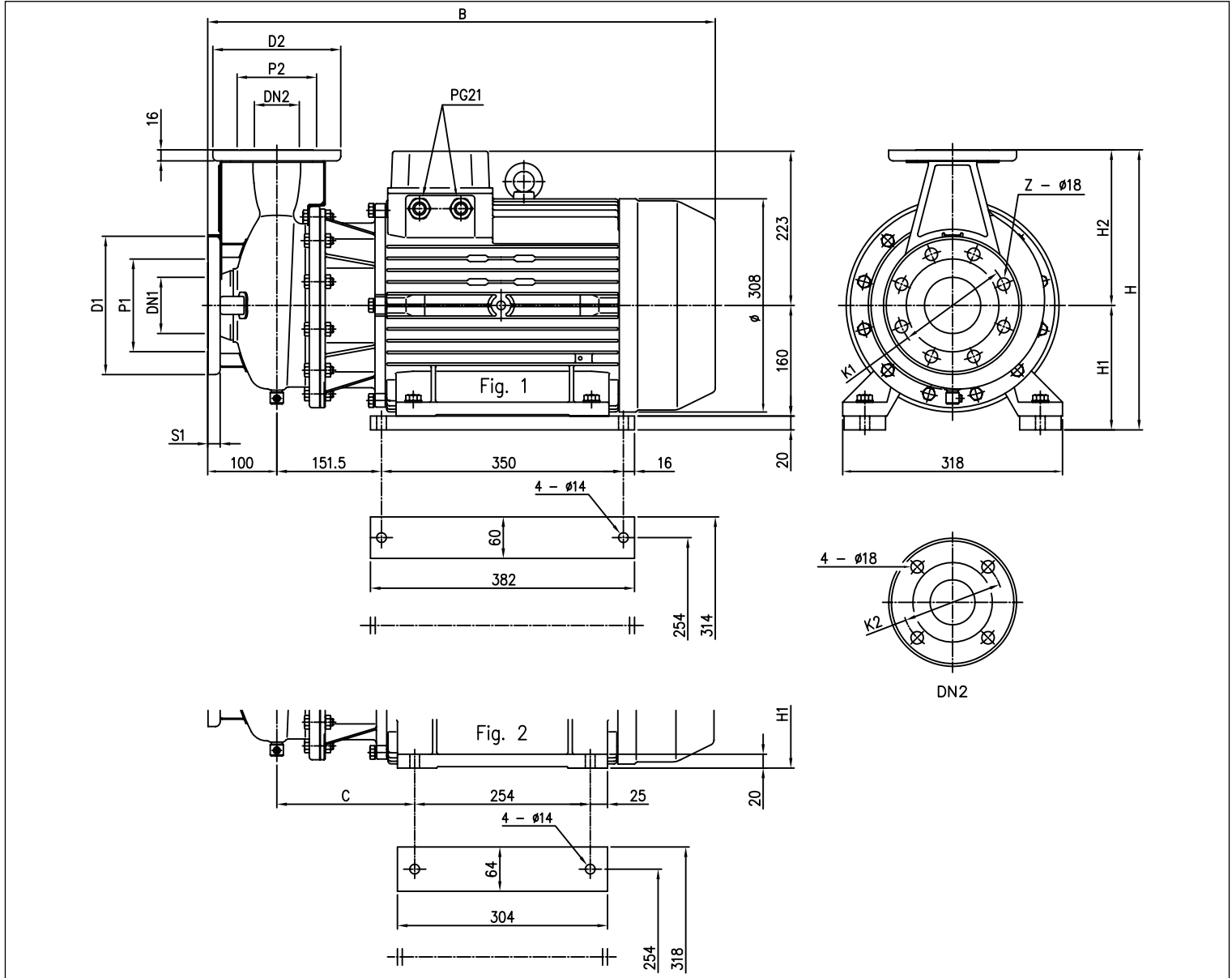
DIMENSIONAL TABLE

Modello	Dimensioni [mm]																				Peso [kg]					
	DN1 Ø	P1 Ø	K1 Ø	D1 Ø	S1	Z	DN2 Ø	P2 Ø	K2 Ø	D2 Ø	S2	H	H1	H2	H3	R	M1	M2	S	N2		A	B	C	V1	V2
32-125/1.1	50	95	125	165	16	4	32	75	100	140	14	252	112	140	119	80	32,5	212	6	190	213	431	-	-	M20x1.5	24,1
32-160/1.5	50	95	125	165	16	4	32	75	100	140	14	292	132	160	119	80	42	200	6	210	254	431	-	-	M20x1.5	27,0
32-160/2.2	50	95	125	165	16	4	32	75	100	140	14	292	132	160	119	80	42	200	6	210	254	431	-	-	M20x1.5	28,0
32-200/3.0	50	95	125	165	16	4	32	75	100	140	14	340	160	180	124	80	39	205	8	220	296	471	-	-	M20x1.5	35,1
32-200/4.0	50	95	125	165	16	4	32	75	100	140	14	340	160	180	141	80	39	205	8	220	296	494	-	-	M20x1.5	38,2
32-200/5.5	50	95	125	165	16	4	32	75	100	140	14	340	160	180	150	80	39	205	8	220	296	519	-	M20x1.5	M25x1.5	52,2
32-200/7.5	50	95	125	165	16	4	32	75	100	140	14	340	160	180	150	80	39	205	8	220	296	539	275	PG 13.5	PG 16	60,1
40-125/1.5	65	115	145	185	16	4	40	80	110	150	14	252	112	140	119	80	32,5	212	6	190	213	431	-	-	M20x1.5	24,6
40-125/2.2	65	115	145	185	16	4	40	80	110	150	14	252	112	140	119	80	32,5	212	6	190	213	431	-	-	M20x1.5	26,1
40-160/3.0	65	115	145	185	16	4	40	80	110	150	14	292	132	160	124	80	42	200	6	210	254	471	-	-	M20x1.5	26,6
40-160/4.0	65	115	145	185	16	4	40	80	110	150	14	292	132	160	141	80	42	200	6	210	254	491	-	-	M20x1.5	40,8
40-200/5.5	65	115	145	185	16	4	40	80	110	150	14	340	160	180	150	100	39	205	8	220	296	539	-	M20x1.5	M25x1.5	52,5
40-200/7.5	65	115	145	185	16	4	40	80	110	150	14	340	160	180	150	100	39	205	8	220	296	559	275	PG 13.5	PG 16	59,3
40-200/11	65	115	145	185	16	4	40	80	110	150	14	340	160	180	178	100	39	205	8	220	296	595	359	PG 13.5	PG 21	69,6
50-125/2.2	65	115	145	185	16	4	50	95	125	165	16	292	132	160	119	100	42	200	6	210	254	451	-	-	M20x1.5	32,0
50-125/3.0	65	115	145	185	16	4	50	95	125	165	16	292	132	160	124	100	42	200	6	210	254	491	-	-	M20x1.5	30,9
50-125/4.0	65	115	145	185	16	4	50	95	125	165	16	292	132	160	141	100	42	200	6	210	254	514	-	-	M20x1.5	40,9
50-160/5.5	65	115	145	185	16	4	50	95	125	165	16	340	160	180	150	100	39	205	8	220	296	539	-	M20x1.5	M25x1.5	46,5
50-160/7.5	65	115	145	185	16	4	50	95	125	165	16	340	160	180	150	100	39	205	8	220	296	559	275	PG 13.5	PG 16	58,6
50-200/9.2	65	115	145	185	16	4	50	95	125	165	16	360	160	200	178	100	39	205	8	220	296	595	359	PG 13.5	PG 21	63,9
50-200/11	65	115	145	185	16	4	50	95	125	165	16	360	160	200	178	100	39	205	8	220	296	595	359	PG 13.5	PG 21	69,6
65-125/4	80	134	160	200	18	8	65	115	145	185	16	340	160	180	141	100	42	200	6	210	254	514	-	-	M20x1.5	37,7
65-125/5.5	80	134	160	200	18	8	65	115	145	185	16	340	160	180	150	100	42	200	6	210	254	539	-	M20x1.5	M25x1.5	48,7
65-125/7.5	80	134	160	200	18	8	65	115	145	185	16	340	160	180	150	100	42	200	6	210	254	559	275	PG 13.5	PG 16	52,1
65-160/7.5	80	134	160	200	18	8	65	115	145	185	16	360	160	200	150	100	39	205	8	220	296	559	275	PG 13.5	PG 16	55,3
65-160/9.2	80	134	160	200	18	8	65	115	145	185	16	360	160	200	178	100	39	205	8	220	296	595	359	PG 13.5	PG 21	61,0
65-160/11	80	134	160	200	18	8	65	115	145	185	16	360	160	200	178	100	39	205	8	220	296	595	359	PG 13.5	PG 21	67,4

3Z SERIES

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

3LMZ 50-200/15, 65-160/15, 65-200



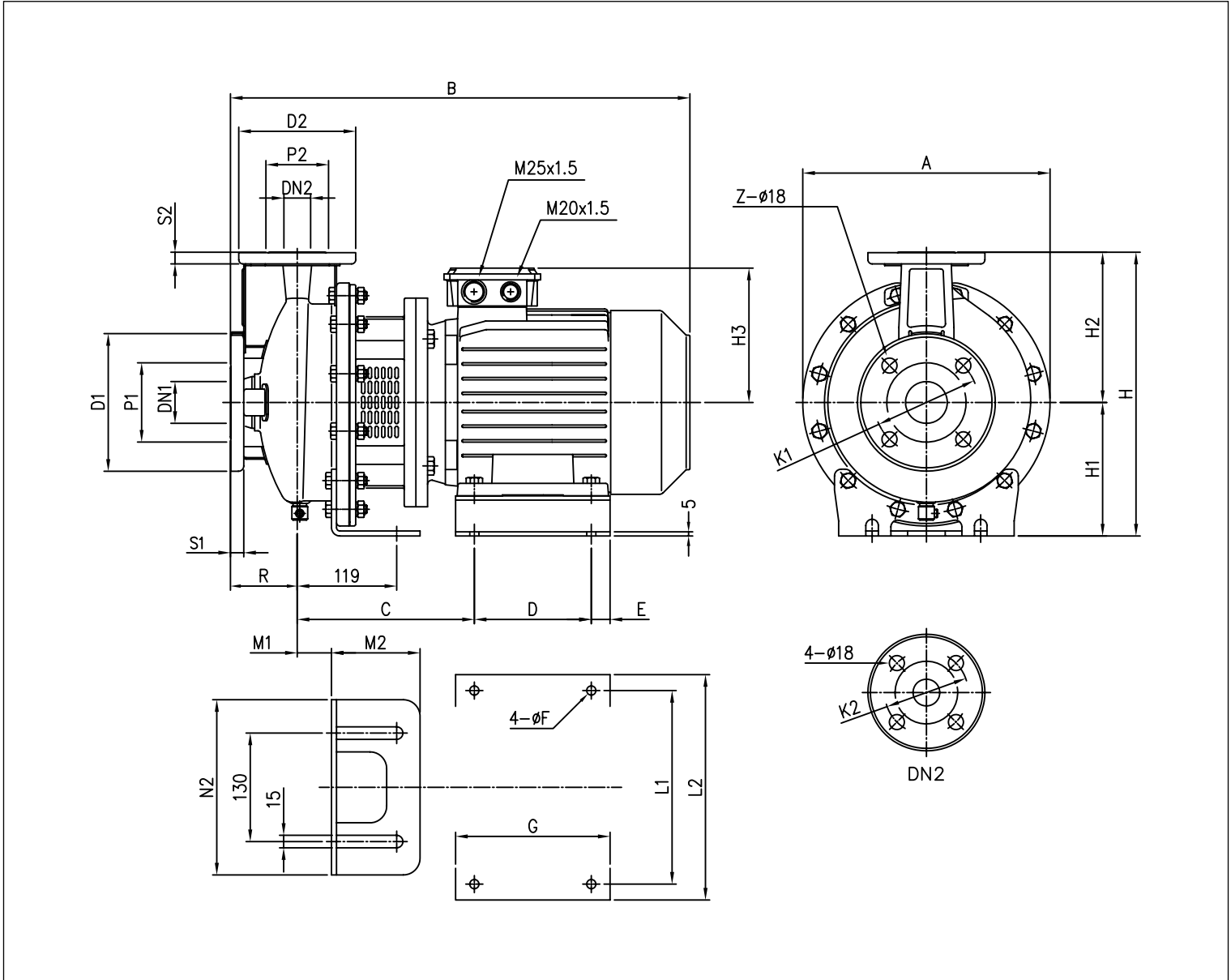
DIMENSIONAL TABLE

Modello	Dimensioni [mm]																Peso [kg]
	DN1 Ø	P1 Ø	K1 Ø	D1 Ø	S1	Z	DN2 Ø	P2 Ø	K2 Ø	D2 Ø	Fig.	H	H1	H2	B	C	
50-200/15	65	115	145	185	16	4	50	95	125	165	2	360	160	200	723	190,5	105,1
65-160/15	80	134	160	200	18	8	65	115	145	185	2	360	160	200	732	199,5	107,1
65-200/15	80	134	160	200	18	8	65	115	145	185	1	405	180	225	732	-	110,1
65-200/18,5	80	134	160	200	18	8	65	115	145	185	1	405	180	225	732	-	125,3
65-200/22	80	134	160	200	18	8	65	115	145	185	1	405	180	225	732	-	136,1

3Z SERIES

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

3LSZ 32-125/160, 32-200/3/4, 50-125/2.2, 65-125/4



DIMENSIONAL TABLE

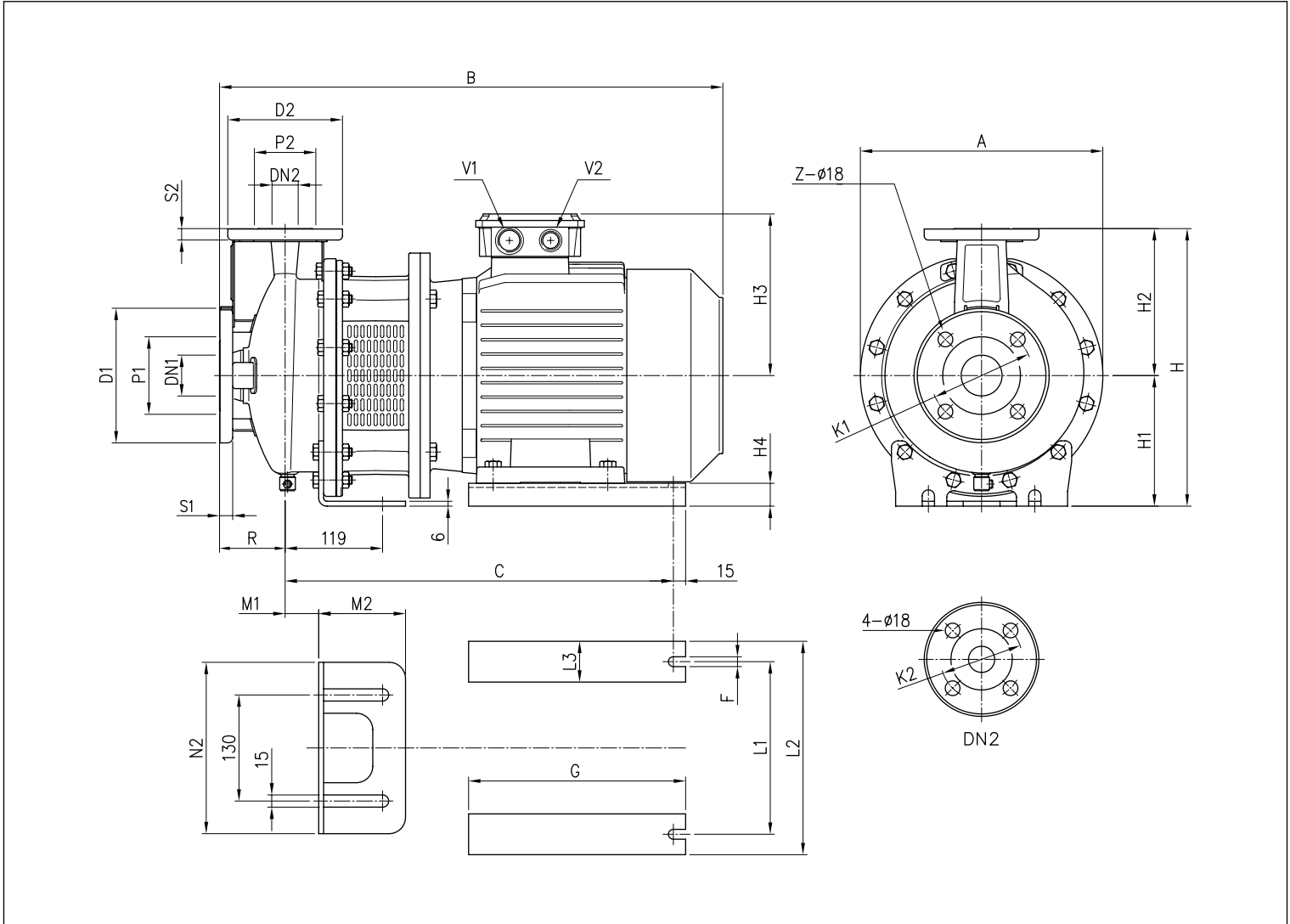
Modello	Dimensioni [mm]																										Peso [kg]		
	DN1 Ø	P1 Ø	K1 Ø	D1 Ø	S1	Z	DN2 Ø	P2 Ø	K2 Ø	D2 Ø	S2	H	H1	H2	H3	R	A	B	C	D	E	F Ø	G	L1	L2	M1		M2	N2
32-125/1.1	50	95	125	165	16	4	32	75	100	140	14	252	112	140	139	80	213	430	168	100	15	9	130	205	225	32,5	117	190	24,7
32-160/1.5	50	95	125	165	16	4	32	75	100	140	14	292	132	160	148	80	254	477	186	125	25	9	170	210	230	42	105	210	29,8
32-160/2.2	50	95	125	165	16	4	32	75	100	140	14	292	132	160	148	80	254	477	186	125	25	9	170	210	230	42	105	210	32,4
32-200/3.0	50	95	125	165	16	4	32	75	100	140	14	340	160	180	155	80	296	528	205	140	22,5	11	185	160	202	41	106	210	46,9
32-200/4.0	50	95	125	165	16	4	32	75	100	140	14	340	160	180	171	80	296	550	212	140	22,5	11	185	190	228	41	106	210	49,0
50-125/2.2	65	115	145	185	16	4	50	95	125	165	16	292	132	160	148	100	254	497	186	125	25	9	170	210	230	42	105	210	32,9
65-125/4.0	80	134	160	200	18	8	65	115	145	185	16	340	160	180	171	100	254	570	212	140	22,5	11	185	190	228	42	105	210	50,1

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3Z SERIES

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

3LSZ 32-200/5.5/7.5, 40-125/160, 40-200/5.5/7.5, 50-125/3/4, 50-160, 50-200/9.2, 65-125/5.5/7.5, 65-160/7.5/9.2



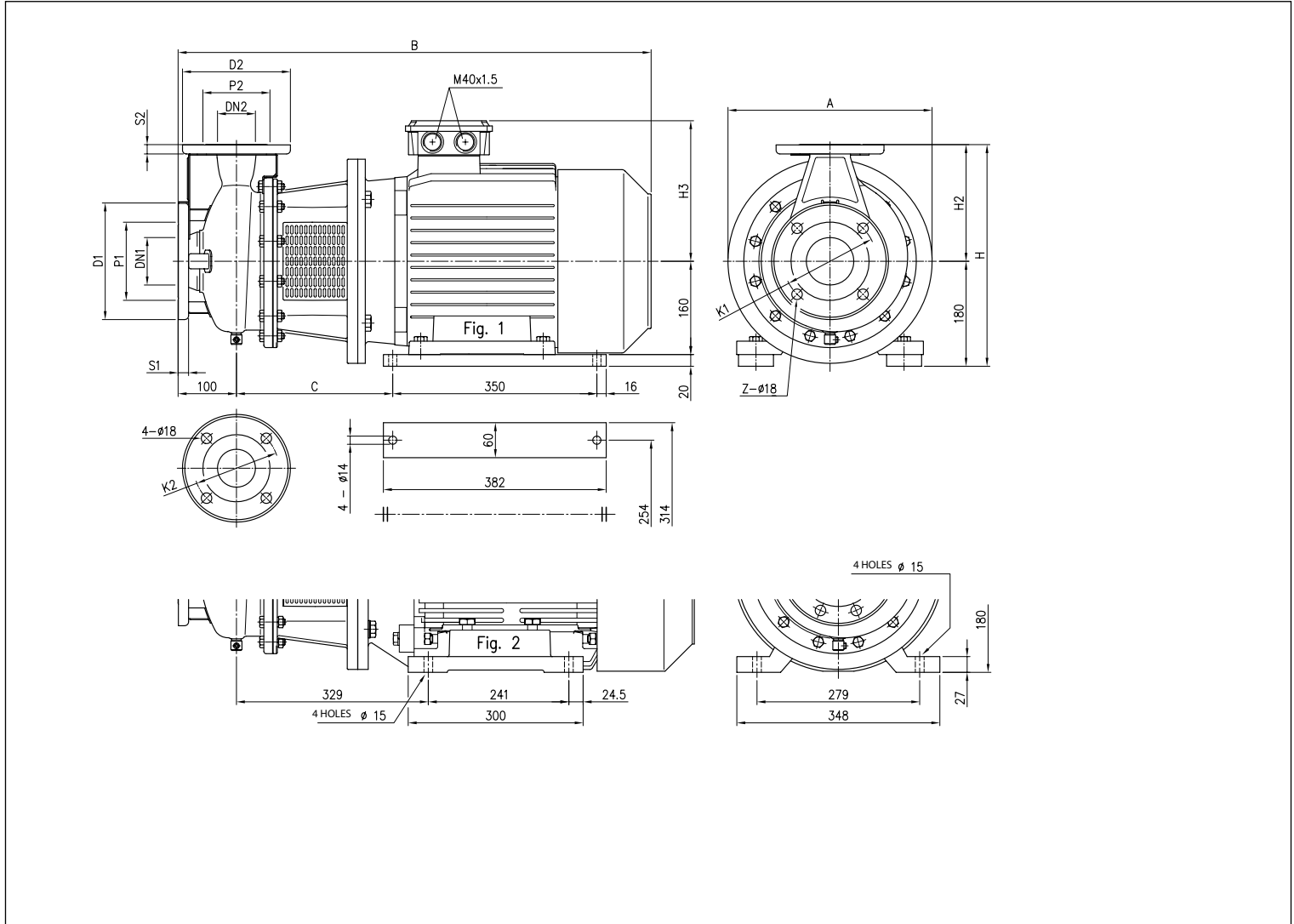
DIMENSIONAL TABLE

Modello	Dimensioni [mm]																				Peso [kg]								
	DN1 Ø	P1 Ø	K1 Ø	D1 Ø	S1	Z	DN2 Ø	P2 Ø	K2 Ø	D2 Ø	S2	H	H1	H2	H3	H4	R	A	B	C		F	G Ø	L1	L2	L3	M1	M2	N2
32-200/5.5	50	95	125	165	16	4	32	75	100	140	14	340	160	180	198	28	80	300	607	479	12	270	216	266	50	41	106	210	71,8
32-200/7.5	50	95	125	165	16	4	32	75	100	140	14	340	160	180	198	28	80	300	607	479	12	270	216	266	50	41	106	210	87,0
40-125/1.5	65	115	145	185	16	4	40	80	110	150	14	252	112	140	148	22	80	213	477	342	10	186	140	185	45	32,5	117	190	26,5
40-125/2.2	65	115	145	185	16	4	40	80	110	150	14	252	112	140	148	22	80	213	477	342	10	186	140	185	40	32,5	117	190	29,5
40-160/3.0	65	115	145	185	16	4	40	80	110	150	14	292	132	160	155	32	80	254	528	387,5	12	220	160	200	50	42	105	210	42,5
40-160/4.0	65	115	145	185	16	4	40	80	110	150	14	292	132	160	171	20	80	254	550	394,5	12	220	190	240	50	42	105	210	44,6
40-200/5.5	65	115	145	185	16	4	40	80	110	150	14	340	160	180	198	28	100	300	627	479	12	270	216	266	50	41	106	210	72,2
40-200/7.5	65	115	145	185	16	4	40	80	110	150	14	340	160	180	198	28	100	300	627	479	12	270	216	266	40	41	106	210	82,0
50-125/3.0	65	115	145	185	16	4	50	95	125	165	16	292	132	160	155	32	100	254	548	387,5	12	220	160	200	50	42	105	210	35,5
50-125/4.0	65	115	145	185	16	4	50	95	125	165	16	292	132	160	171	20	100	254	570	394,5	12	220	190	240	50	42	105	210	45,6
50-160/5.5	65	115	145	185	16	4	50	95	125	165	16	340	160	180	198	28	100	300	627	479	12	270	216	266	50	41	106	210	63,8
50-160/7.5	65	115	145	185	16	4	50	95	125	165	16	340	160	180	198	28	100	300	627	479	12	270	216	266	50	41	106	210	91,0
50-200/9.2	65	115	145	185	16	4	50	95	125	165	16	360	160	200	198	28	100	300	667	479	12	270	216	266	50	41	106	210	90,7
65-125/5.5	80	134	160	200	18	8	65	115	145	185	16	340	160	180	198	28	100	300	627	479	12	270	216	266	50	42	105	210	60,0
65-125/7.5	80	134	160	200	18	8	65	115	145	185	16	340	160	180	198	28	100	300	627	479	12	270	216	266	50	42	105	210	79,4
65-160/7.5	80	134	160	200	18	8	65	115	145	185	16	360	160	200	198	28	100	300	627	479	12	270	216	266	50	41	106	210	82,4
65-160/9.2	80	134	160	200	18	8	65	115	145	185	16	360	160	200	198	28	100	300	667	479	12	270	216	266	50	41	106	210	88,0

3Z SERIES

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

3LSZ 40-200/11, 50-200/11/15, 65-160/11/15, 62-200



DIMENSIONAL TABLE

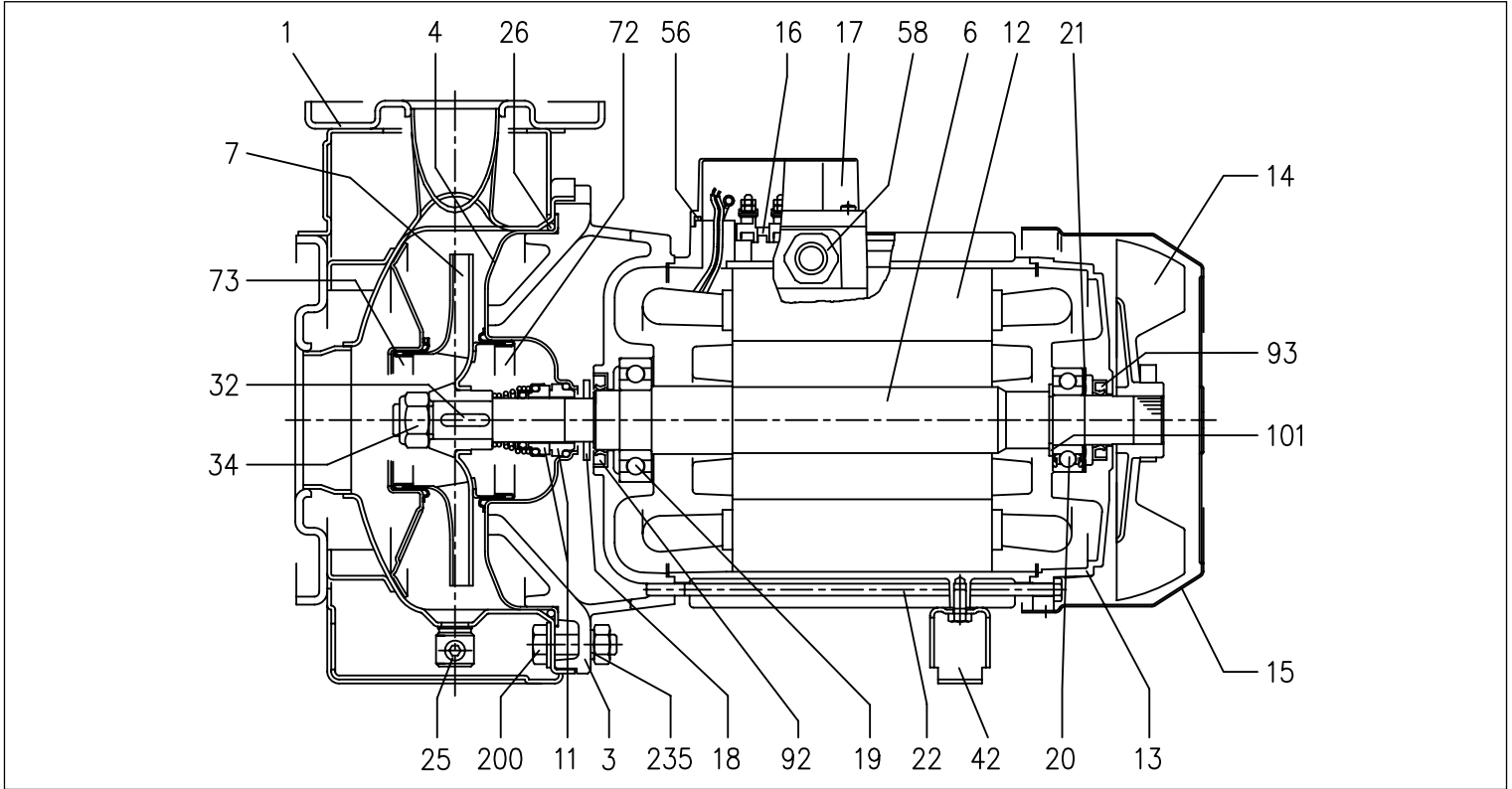
Modello	Dimensioni [mm]																	Peso [kg]	
	DN1 Ø	P1 Ø	K1 Ø	D1 Ø	S1	Z	DN2 Ø	P2 Ø	K2 Ø	D2 Ø	S2	Fig.	H	H2	H3	A	B		C
40-200/11	65	115	145	185	16	4	40	80	110	150	14	1	360	180	238	350	796	258	117,8
50-200/11	65	115	145	185	16	4	50	95	125	165	16	1	380	200	238	350	796	258	117,8
50-200/15	65	115	145	185	16	4	50	95	125	165	16	1	380	200	238	350	796	258	147,9
65-160/11	80	134	160	200	18	8	65	115	145	185	16	1	380	200	238	350	796	258	86,8
65-160/15	80	134	160	200	18	8	65	115	145	185	16	1	380	200	238	350	806	268	120,9
65-200/15	80	134	160	200	18	8	65	115	145	185	16	1	405	225	238	350	806	268	138,0
65-200/18.5	80	134	160	200	18	8	65	115	145	185	16	1	405	225	238	350	850	268	137,2
65-200/22	80	134	160	200	18	8	65	115	145	185	16	2	405	225	268	360	885	-	175,0

3 - 3L SERIES

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

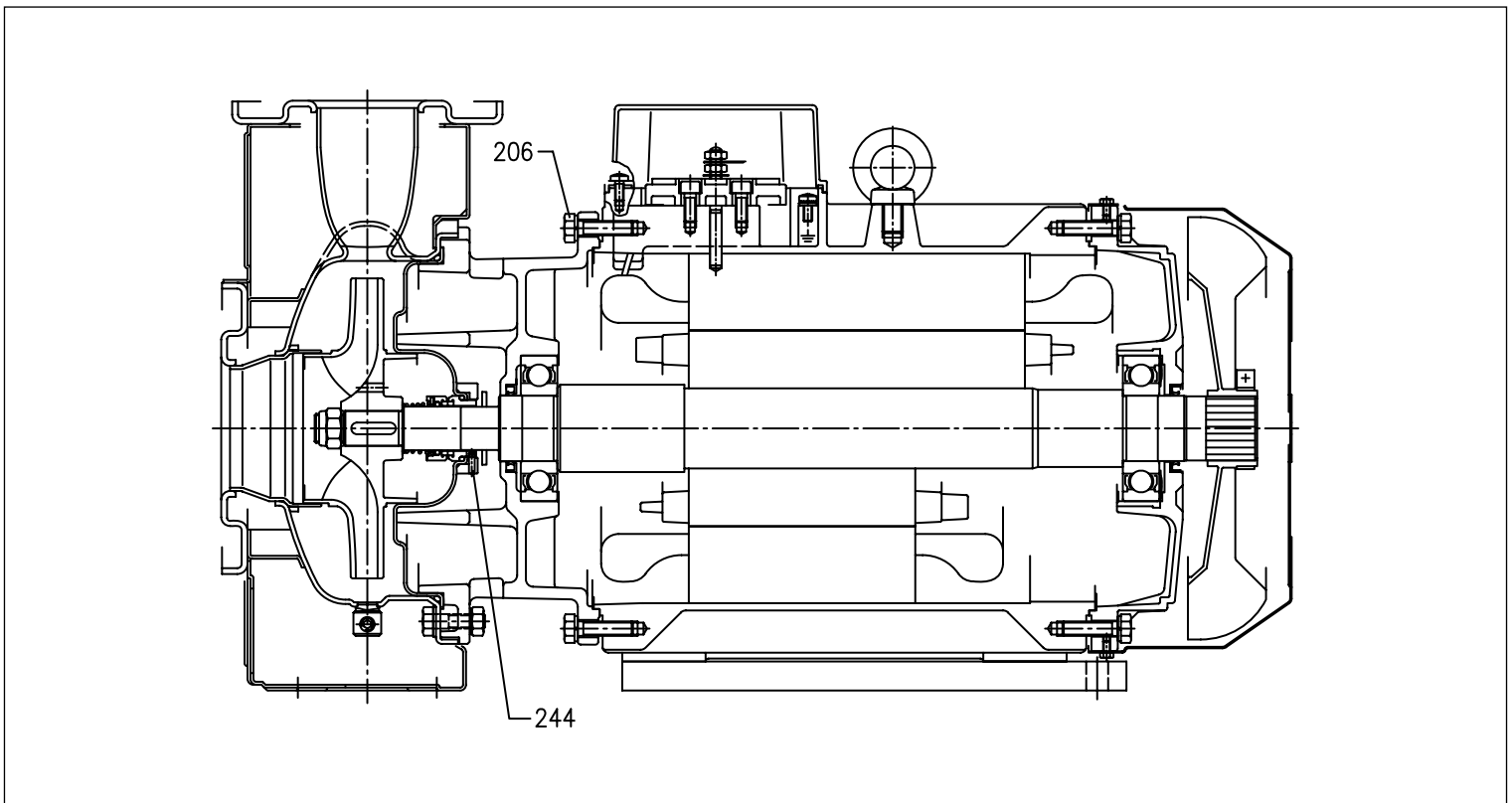
SECTIONAL VIEW 3(L)M 32, 40, 50, 65 SERIES - up to 11 kW

2 Poles



SECTIONAL VIEW 3(L)M 32, 40, 50, 65 SERIES - of 15 kW and over

2 Poles



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3 - 3L SERIES

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

MATERIALS TABLE

Ref.	Name	Materials	
		3M	3LM
001	Pump casing	EN 1.4301 (AISI 304)	EN 1.4404 (AISI 316L)
003	Motor bracket		[4]
004	Casing cover	EN 1.4301 (AISI 304)	EN 1.4404 (AISI 316L)
006	Shaft	EN 1.4301 (AISI 304)	EN 1.4404 (AISI 316L)
007	Impeller	EN 1.4301 (AISI 304)	EN 1.4404 (AISI 316L)
011	Mechanical seal std	Carbon/Ceramic/NBR	Silicon Carbide/Silicon Carbide/FKM
012	Motor frame		-
013	Motor cover		Aluminium
014	Fan		PA
015	Fan cover		Galvanised steel Fe P04
016	Terminal Box		-
017	Terminal Box cover		Aluminium (three phase version)
018	Splash washer	NBR	-
019	Bearing (pump side)		-
020	Bearing (motor side)		-
021	Adjustment ring		Steel C70
022	Tie-rod		Galvanised steel Fe 42
	Screw		Galvanised steel
025	Plug		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	Motor support		Aluminium / Galvanised steel
056	Terminal box gasket		NBR
058	Cable gland		-
072	Casing ring [1]	EN 1.4301 (AISI 304)	EN 1.4404 (AISI 316L)
073	Casing ring	EN 1.4301 (AISI 304)	EN 1.4404 (AISI 316L)
092	Seal ring	-	-
093	Seal ring	-	-
101	Seeger ring		Carbon steel TC 80
200	Screw (pump body)		Stainless steel A2 70 class ISO 3506/1
206	Support screw [2]		Galvanised steel
244	Plug [3]		EN 1.4301 (AISI 304)

[1]= For 32-200/3, 32-200/4, 32-200/5.5, 40-200/5.5, 40-200/7.5, 40-200/11, 50-160/5.5, 50-160/7.5, 50-200/9.2, 50-200/11, 50-200/15

[2]= For 15 kW and over

[3]= Only for 65-160/15 and 65-200

[4]= Cast iron EN-GJL-200-EN 1561 for 32-200/3 and for models with 15, 18,5 and 22 kW motors

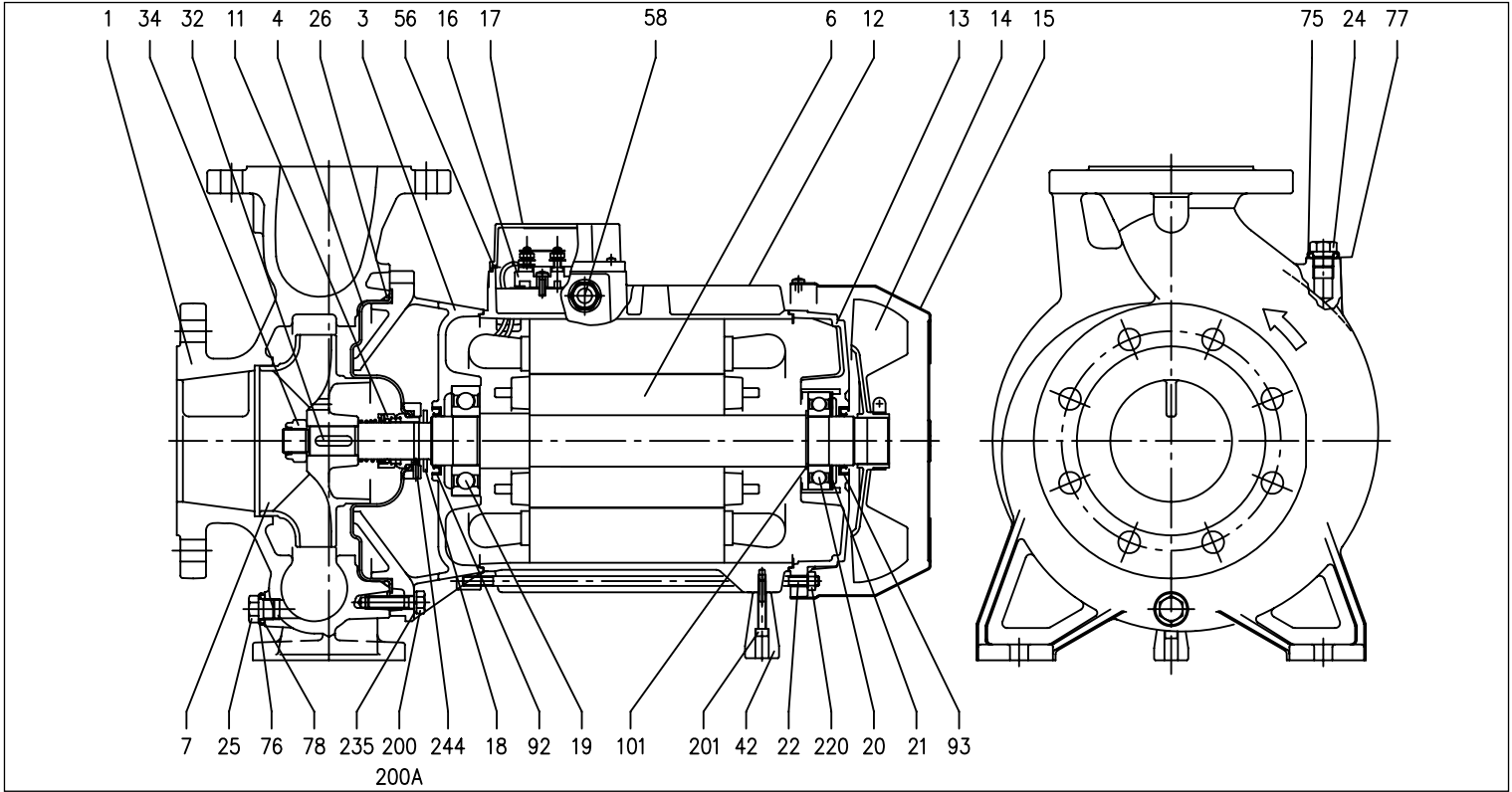
Aluminium AL-EN-1706-AC-46000-D for the other models

3 - 3L SERIES

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

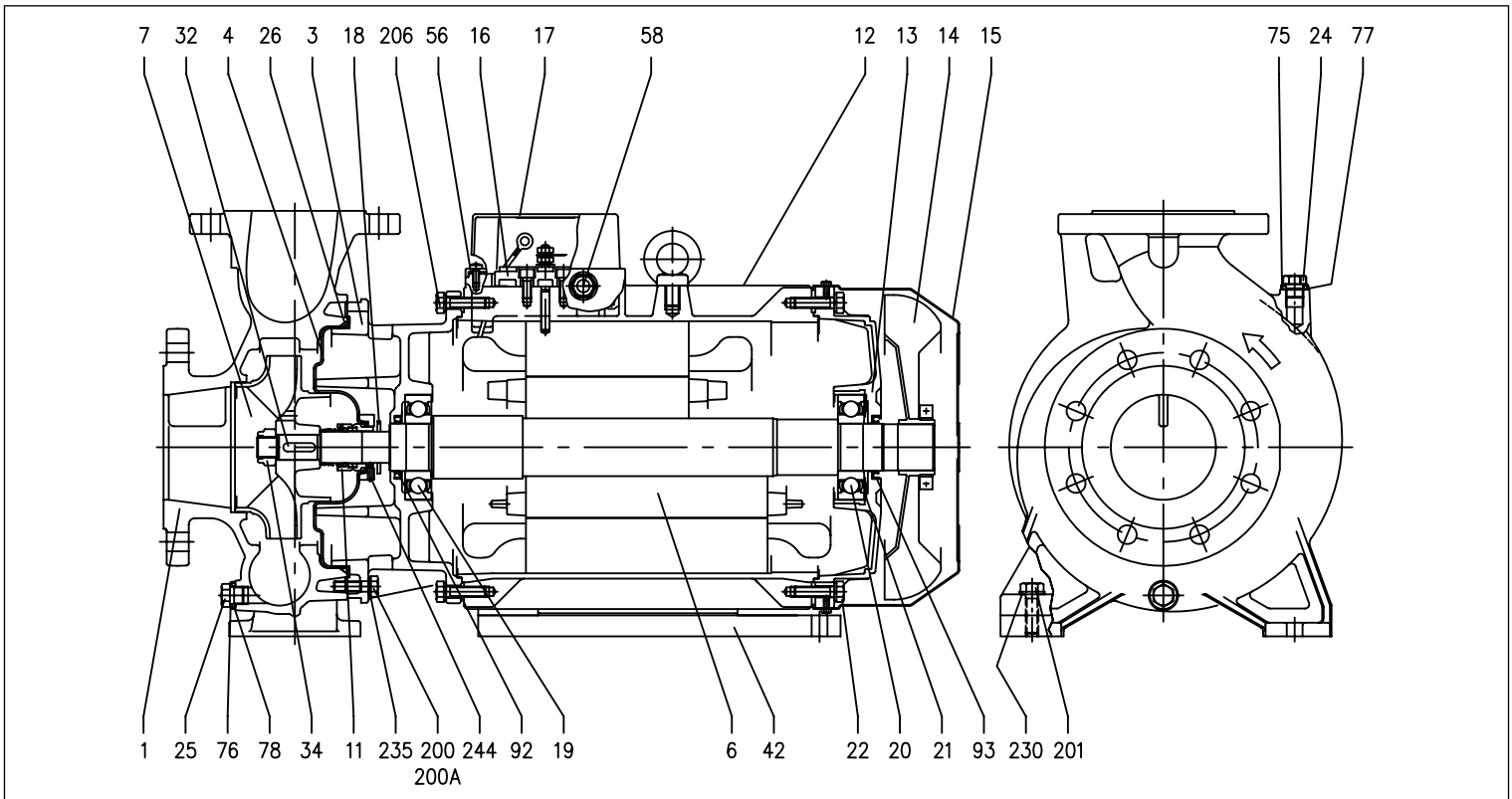
SECTIONAL VIEW 3LM 80-160/11 SERIES

2 Poles



SECTIONAL VIEW 3LM 80-160/15R SERIES

2 Poles



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3 - 3L SERIES

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

MATERIALS TABLE

Ref.	Name	Materials	Ref.	Name	Materials
001	Pump casing	EN 1.4401 (AISI 316)	032	Key	EN 1.4404 (AISI 316L)
003	Motor bracket	Cast iron EN-GJL-200-EN 1561	034	Impeller nut	Aluminium
004	Casing cover	EN 1.4404 (AISI 316L)	042	Motor support	Aluminium
006	Shaft	EN 1.4404 (AISI 316L) Part in contact with the liquid	056	Terminal box gasket	NBR
007	Impeller	EN 1.4401 (AISI 316)	058	Cable gland	-
011	Mechanical seal	Silicon Carbide/Silicon Carbide/FKM	075	Washer	EN 1.4404 (AISI 316L)
012	Motor frame	-	076	Washer	EN 1.4404 (AISI 316L)
013	Motor cover	Aluminium	077	O-Ring	FKM
014	Fan	PA	078	O-Ring	
015	Fan cover	Galvanised steel Fe P04	092	Seal ring (11 kW, 15-18.5 kW)	-
016	Terminal Box	-	093	Seal ring (11 kW, 15-18.5 kW)	-
017	Terminal Box cover	Aluminium	101	Seeger ring (only for 11 kW)	Carbon steel TC 80
018	Splash washer	NBR	200	Screw (pump body)	Stainless steel A2-70/1 class ISO 3506/1
019	Bearing (pump side)	-	201	Screw (11 kW, 15-18.5 kW)	Stainless steel A2-70/1 class ISO 3506/1
020	Bearing (motor side)	-	206	Motor bracket screw (only for 15-18.5 kW)	Galvanised steel
021	Adjustment ring	Steel C70	220	Tie-rod nut (only for 11 kW)	Galvanised steel
022	Tie-rod	Galvanised steel	230	Washer (15-18.5 kW)	Galvanised steel
024	Plug	EN 1.4404 (AISI 316L)	235	Washer	EN 1.4301(AISI 304)
025	Plug	EN 1.4404 (AISI 316L)	244	Plug [1]	EN 1.4301(AISI 304)
026	O-Ring	FKM			

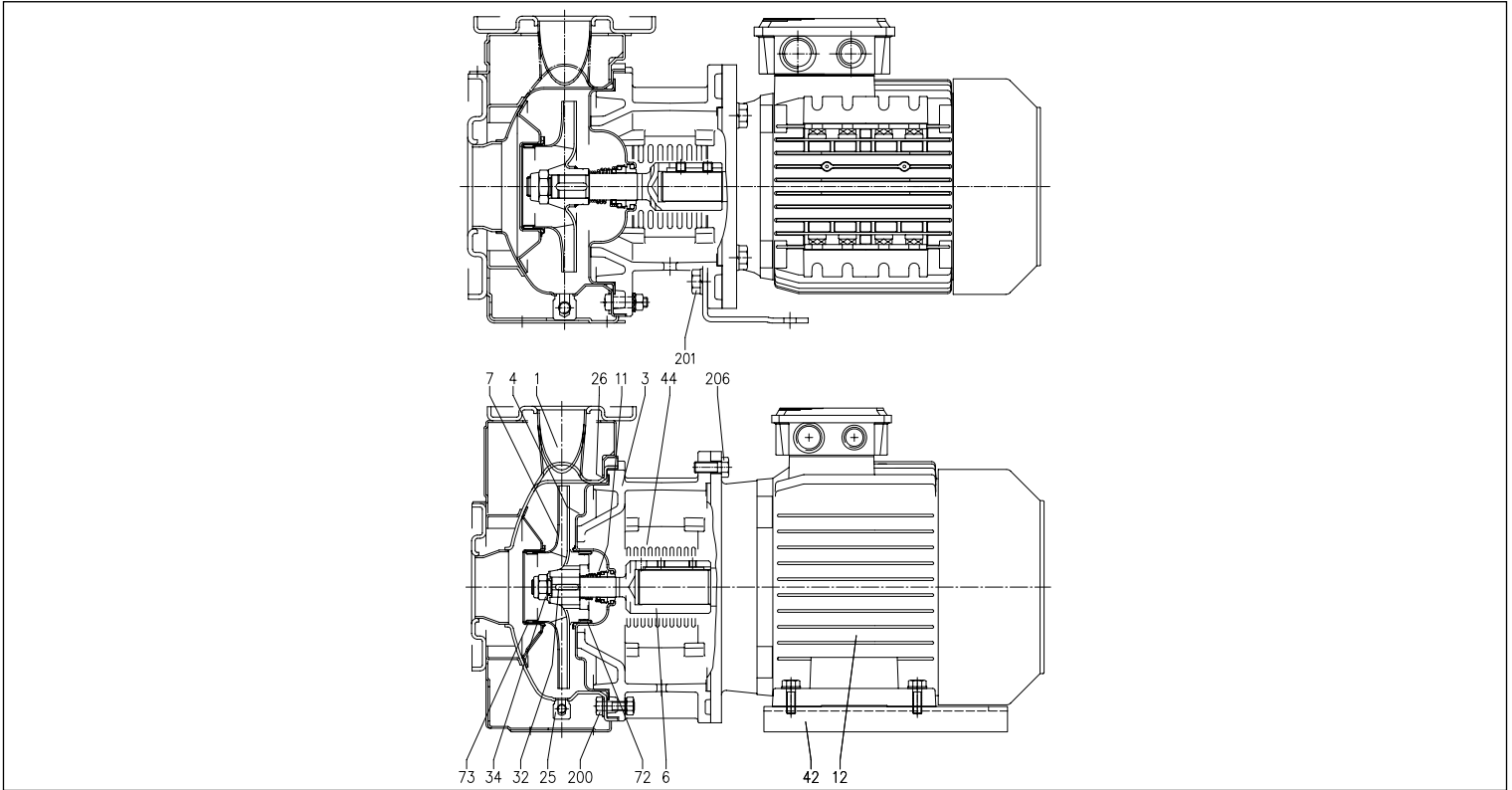
[1]= Not for H and E versions

3 - 3L SERIES

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

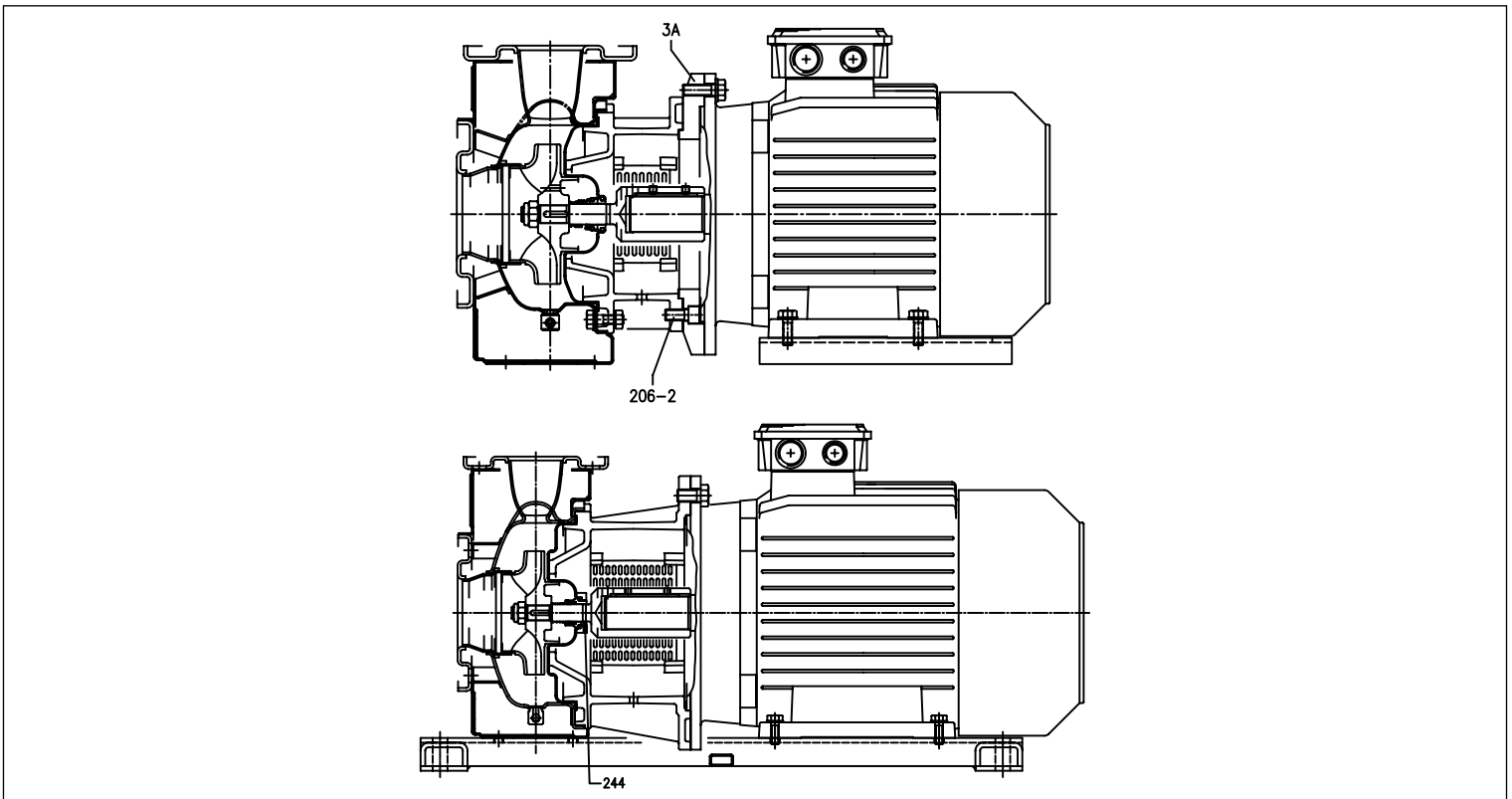
SECTIONAL VIEW 3(L)S 32, 40, 50 SERIES

2 Poles



SECTIONAL VIEW 3(L)S 65 SERIES

2 Poles



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3 - 3L SERIES

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

MATERIALS TABLE

Ref.	Name	Materials	
		3S	3LS
001	Pump casing	EN 1.4301 (AISI 304)	EN 1.4404 (AISI 316L)
003	Motor bracket	Cast iron EN-GJL-200-EN 1561	
003A	Adapter ring [1]	Cast iron EN-GJL-200-EN 1561	
004	Casing cover	EN 1.4301 (AISI 304)	EN 1.4404 (AISI 316L)
006	Joint - Part in contact with the liquid	EN 1.4301 (AISI 304)	EN 1.4404 (AISI 316L)
007	Impeller	EN 1.4301 (AISI 304)	EN 1.4404 (AISI 316L)
011	Mechanical seal	Carbon/Ceramic/NBR	Silicon Carbide/Silicon Carbide/FKM
012	Motor	-	
025	Plug	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	Motor support	Aluminium / Galvanised steel	
044	Support protection	EN 1.4301 (AISI 304)	
072	Casing ring [2]	EN 1.4301 (AISI 304)	EN 1.4404 (AISI 316L)
073	Casing ring (not for 65)	EN 1.4301 (AISI 304)	EN 1.4404 (AISI 316L)
200	Screw (pump body)	Stainless steel A2 70 class ISO 3506/1	
201	Screw	Galvanised steel	
206	Support screw	Galvanised steel	
206-2	Adapter ring screw	Galvanised steel	
244	Plug [3]	-	EN 1.4301 (AISI 304)

[1]= For 65-125/5.5 and 65-125/7.5 versions only

[2]= For 32-200, 40-200, 50-160, 50-200 versions only

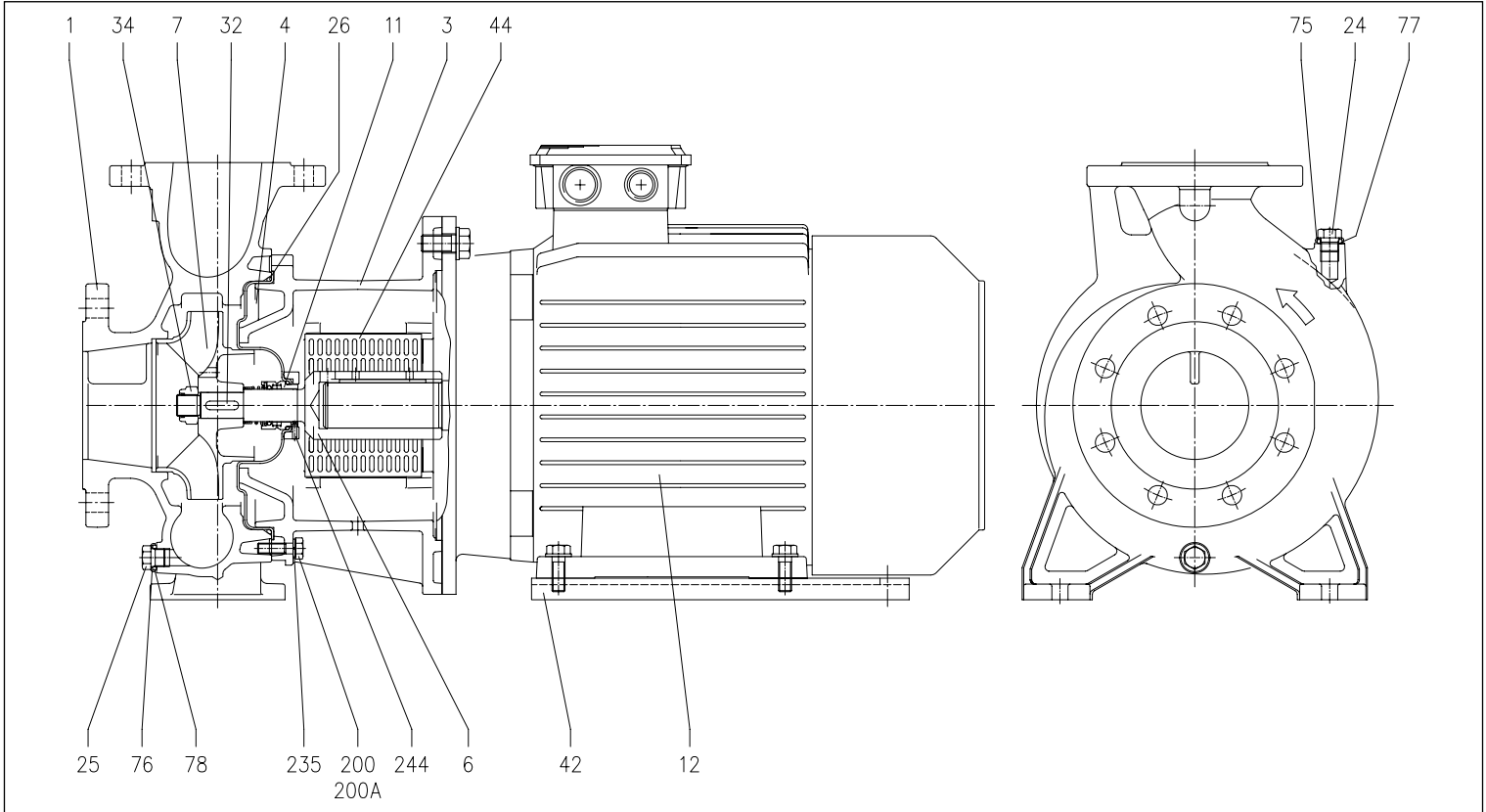
[3]= For 65-160/15, 65-200 versions only

3 - 3L SERIES

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

SECTIONAL VIEW 3LS 80-160 SERIES

2 Poles



MATERIALS TABLE

Ref.	Name	Materials	Ref.	Name	Materials
001	Pump casing	EN 1.4401 (AISI 316)	034	Impeller nut	EN 1.4404 (AISI 316L)
003	Motor bracket	Cast iron EN-GJL-200-EN 1561	042	Motor support	Aluminium
004	Casing cover	EN 1.4404 (AISI 316L)	044	Support protection	EN 1.4301 (AISI 304)
006	Joint	EN 1.4404 (AISI 316L)	075	Washer	EN 1.4404 (AISI 316L)
007	Impeller	EN 1.4401 (AISI 316)	076	Washer	
011	Mechanical seal	Silicon Carbide/Silicon Carbide/FKM	077	O-Ring	FKM
012	Motor	-	078	O-Ring	
024	Plug	EN 1.4404 (AISI 316L)	200	Screw (pump body)	Stainless steel A2-70/1 class ISO 3506/1
025	Plug	EN 1.4404 (AISI 316L)	235	Washer	EN 1.4301(AISI 304)
026	O-Ring	FKM	244	Plug [1]	EN 1.4301(AISI 304)
032	Key	EN 1.4401 (AISI 316)			

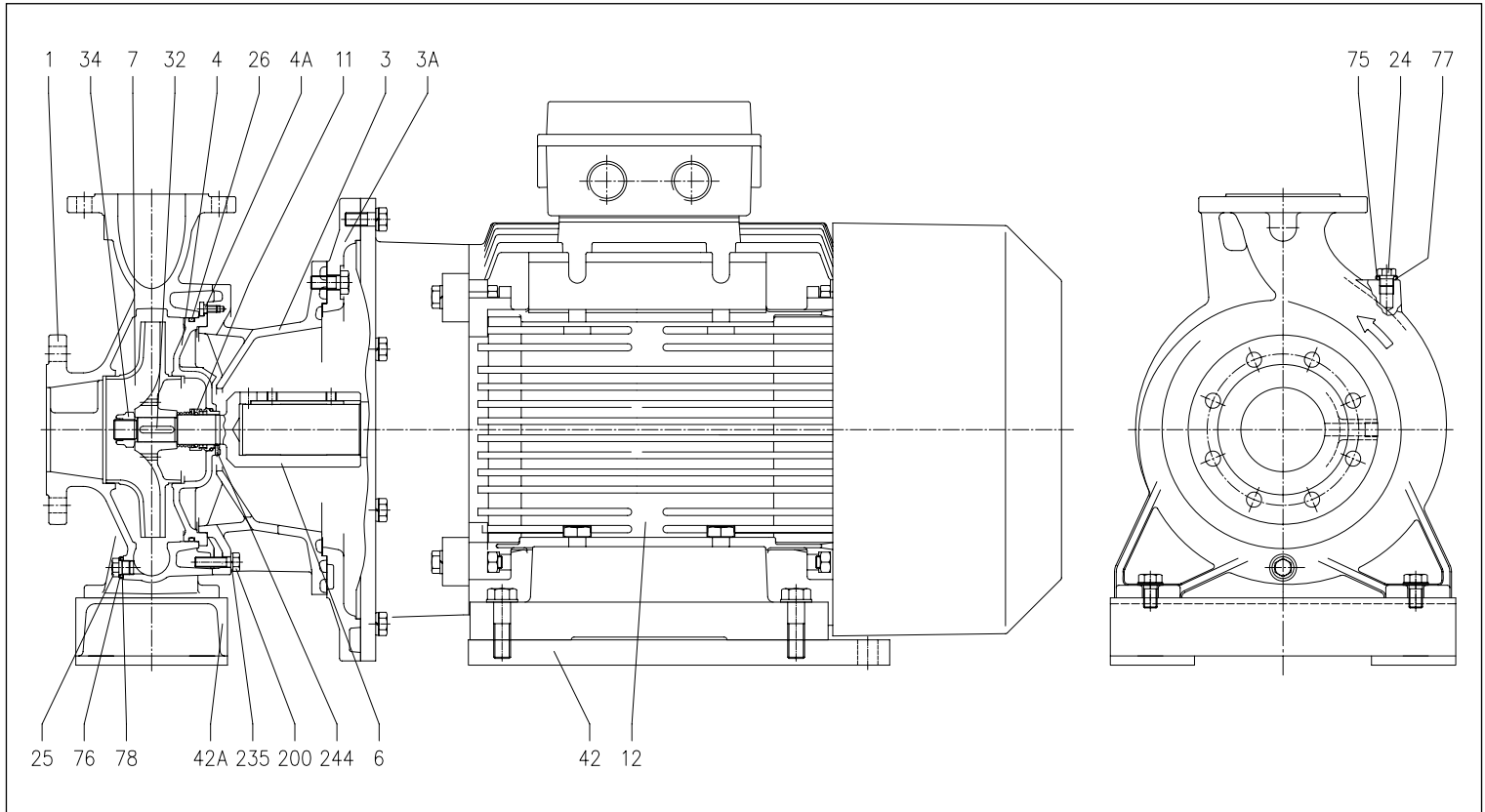
[1]= Not for H and E versions

3 - 3L SERIES

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

SECTIONAL VIEW 3LS 65-250, 80-200/250 SERIES

2 Poles



MATERIALS TABLE

Ref.	Name	Materials	Ref.	Name	Materials
001	Pump casing	EN 1.4401 (AISI 316)			
003	Motor bracket	Cast iron EN-GJL-200-EN 1561	032	Key	65-250 d=24 mm 65-250 d=24 mm 80-250 d=29 mm EN 1.4401 (AISI 316)
003A	Adapter ring	Cast iron EN-GJL-200-EN 1561			
004	Casing cover	EN 1.4401 (AISI 316)			
004A	Casing cover screw disc	EN 1.4301(AISI 304)	034	Impeller nut	65-250 d=24 mm 65-250 d=24 mm 80-250 d=29 mm EN 1.4404 (AISI 316L)
006	Joint	65-250 d=24 mm EN 1.4404 (AISI 316L) per 22 kW EN 1.4462 (duplex steel) per 30-37 kW	042	Motor bracket	Aluminium
		65-250 d=24 mm EN 1.4404 (AISI 316L) per 22 kW EN 1.4462 (duplex steel) per 30-37 kW	042A	Pump bracket	Galvanised aluminium/steel (only for 80-250/55)
		80-250 d=29 mm EN 1.4462 (duplex steel)	076	Washer	EN 1.4404 (AISI 316L)
007	Impeller	EN 1.4401 (AISI 316)	075	Washer	
011	Mechanical seal	Silicon Carbide/Silicon Carbide/FKM	077	O-Ring	FKM
012	Motor	-	078	O-Ring	
024	Plug	EN 1.4404 (AISI 316L)	200	Screw (pump body)	Stainless steel A2-70/1 class ISO 3506/1
025	Plug	EN 1.4404 (AISI 316L)	235	Washer	Steel C70
026	O-Ring	FKM	244	Plug [1]	EN 1.4301(AISI 304)

[1]= Not for H and E versions

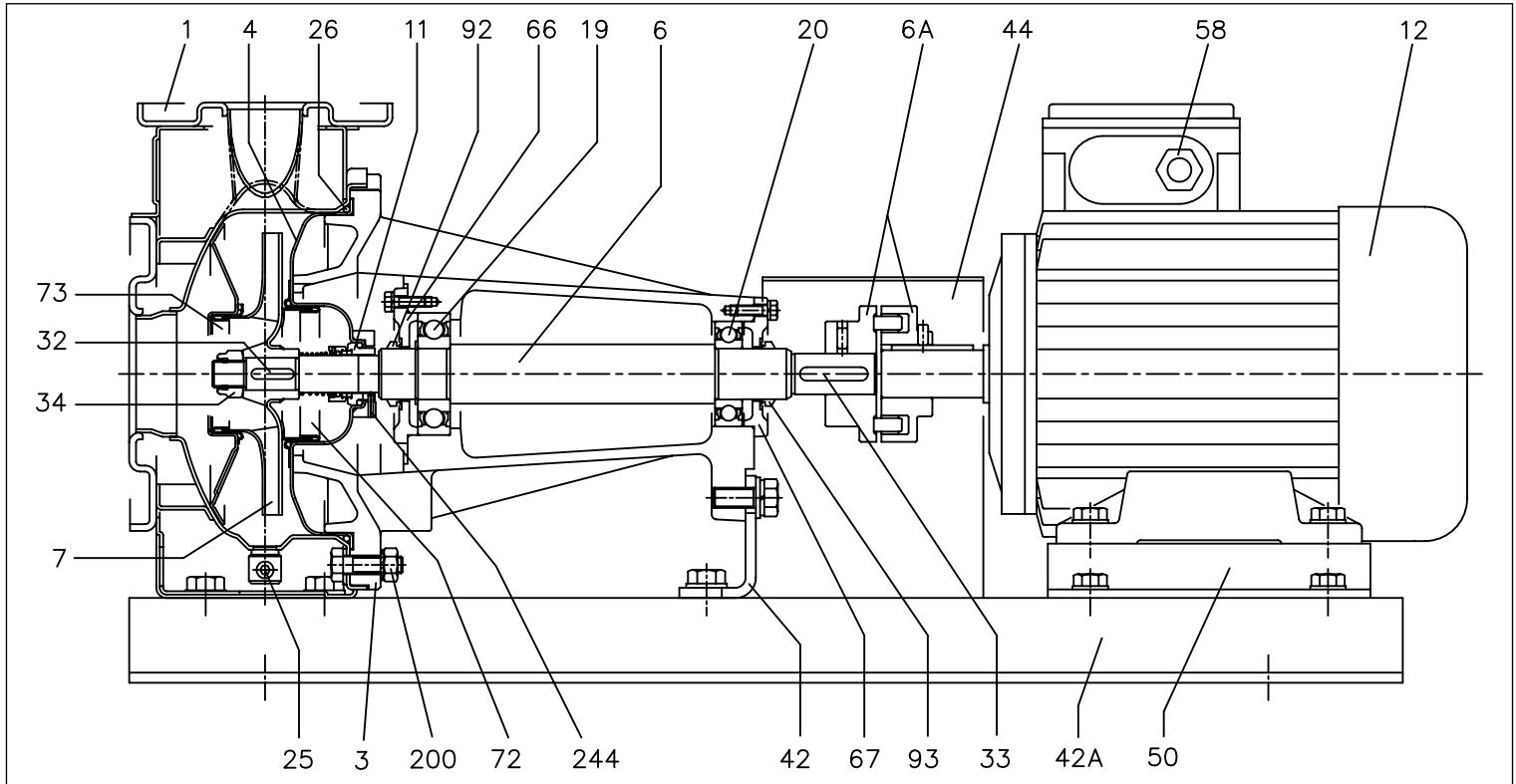
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3 - 3L SERIES

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

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

2 Poles



MATERIALS TABLE

Ref.	Name	Materials	
		3P	3LP
001	Pump casing	EN 1.4301 (AISI 304)	EN 1.4404 (AISI 316L)
003	Motor bracket	Cast iron EN-GJL-200-EN 1561	
004	Casing cover	EN 1.4301 (AISI 304)	EN 1.4404 (AISI 316L)
006	Shaft - Part in contact with the liquid	EN 1.4301 (AISI 304)	EN 1.4404 (AISI 316L)
006A	Joint	Cast iron EN-GJL-250-EN 1561	
007	Impeller	EN 1.4301 (AISI 304)	EN 1.4404 (AISI 316L)
011	Mechanical seal	Carbon/Ceramic/NBR	Silicon Carbide/Silicon Carbide/FKM
012	Motor	-	
019	Bearing (pump side)	-	
020	Bearing (motor side)	-	
025	Plug	EN 1.4401 (AISI 316) / PTFE	
026	O-Ring	NBR	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	Motor support	Galvanised steel Fe 37	
42A	Base	Galvanised steel Fe 37	
044	Joint cover	Galvanised steel Fe 37	
050	Motor support	Aluminium / Galvanised steel	
058	Cable gland	-	
066	Bracket cover	Cast iron EN-GJL-250-EN 1561	
067	Bracket cover	Cast iron EN-GJL-250-EN 1561	
072	Casing ring [1]	EN 1.4301 (AISI 304)	EN 1.4404 (AISI 316L)
073	Casing ring	EN 1.4301 (AISI 304)	EN 1.4404 (AISI 316L)
092	V Ring	-	
093	V Ring	-	
200	Screw (pump body)	Stainless steel A2 70 class ISO 3506/1	
244	Plug [2]	-	EN 1.4301 (AISI 304)

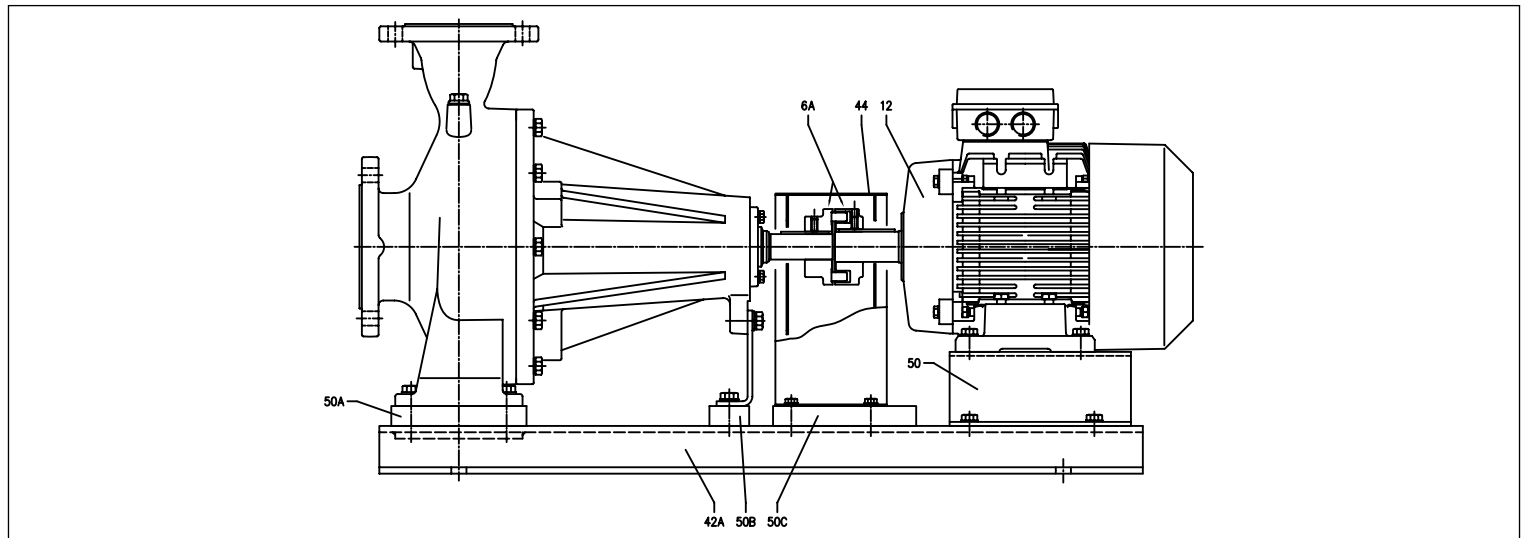
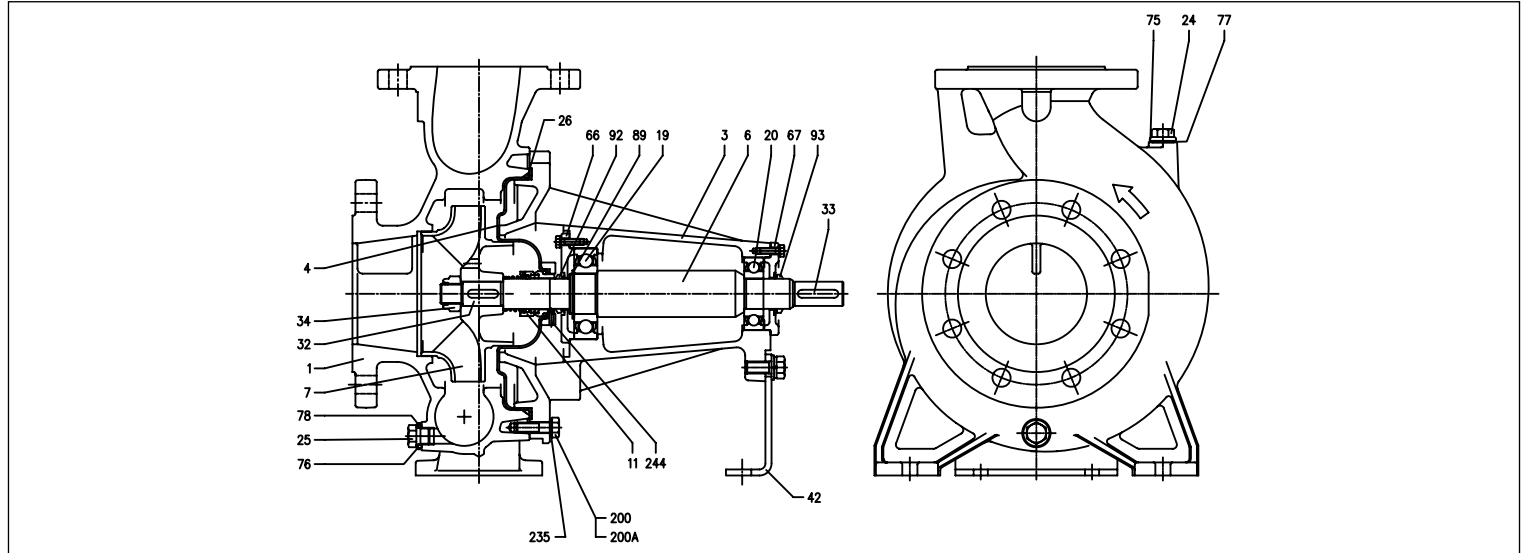
[1]= For 32-200/3, 32-200/4, 32-200/5.5, 40-200/5.5, 40-200/7.5, 40-200/11, 50-160/5.5, 50-160/7.5, 50-200/9.2, 50-200/11, 50-200/15 versions
[2]= Only for 65-160/15 and 65-200

3 - 3L SERIES

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

SECTIONAL VIEW 3LP 80-160 SERIES

2 Poles



MATERIALS TABLE

Ref.	Name	Materials	Ref.	Name	Materials
001	Pump casing	EN 1.4401 (AISI 316)	042A	Base	Galvanised steel
003	Motor bracket	Cast iron EN-GJL-200-EN 1561	044	Joint cover	Galvanised steel
004	Casing cover	EN 1.4404 (AISI 316L)	050	Rest	Aluminium
006	Shaft	EN 1.4404 (AISI316L) Part in contact with the liquid	050A	Pump spacer	-
006A	Joint	Cast iron EN-GJL-200-EN 1561	050B	Pump spacer	-
007	Impeller	EN 1.4401 (AISI 316)	050C	Joint cover spacer	-
011	Mechanical seal	Silicon Carbide/Silicon Carbide/FKM	066	Bracket cover	Cast iron EN-GJL-200-EN 1561
012	Motor	-	067	Bracket cover	Cast iron EN-GJL-200-EN 1561
019	Bearing (pump side)	-	075	Washer	EN 1.4404 (AISI 316L)
020	Bearing (motor side)	-	076	Washer	EN 1.4404 (AISI 316L)
024	Plug	EN 1.4404 (AISI 316L)	077	O-Ring	FKM
025	Plug	EN 1.4404 (AISI 316L)	078	O-Ring	FKM
026	O-Ring	FKM	089	Seeger ring	Carbon steel TC 80
032	Key	EN 1.4401 (AISI 316)	092	V Ring	-
033	Key	C 40	093	V Ring	-
034	Impeller nut	EN 1.4404 (AISI 316L)	200	Screw (pump body)	Stainless steel A2 70 class ISO 3506/1
042	Motor support	Galvanised steel	235	Washer	EN 1.4301(AISI 304)
			244	Plug [1]	EN 1.4301(AISI 304)

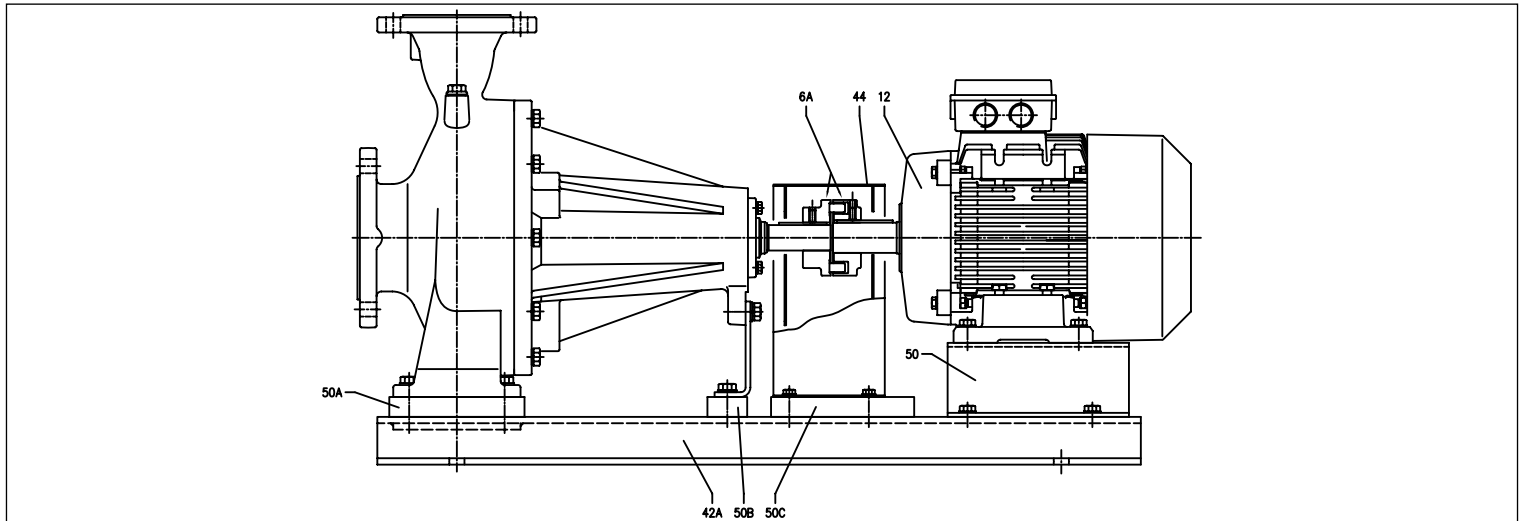
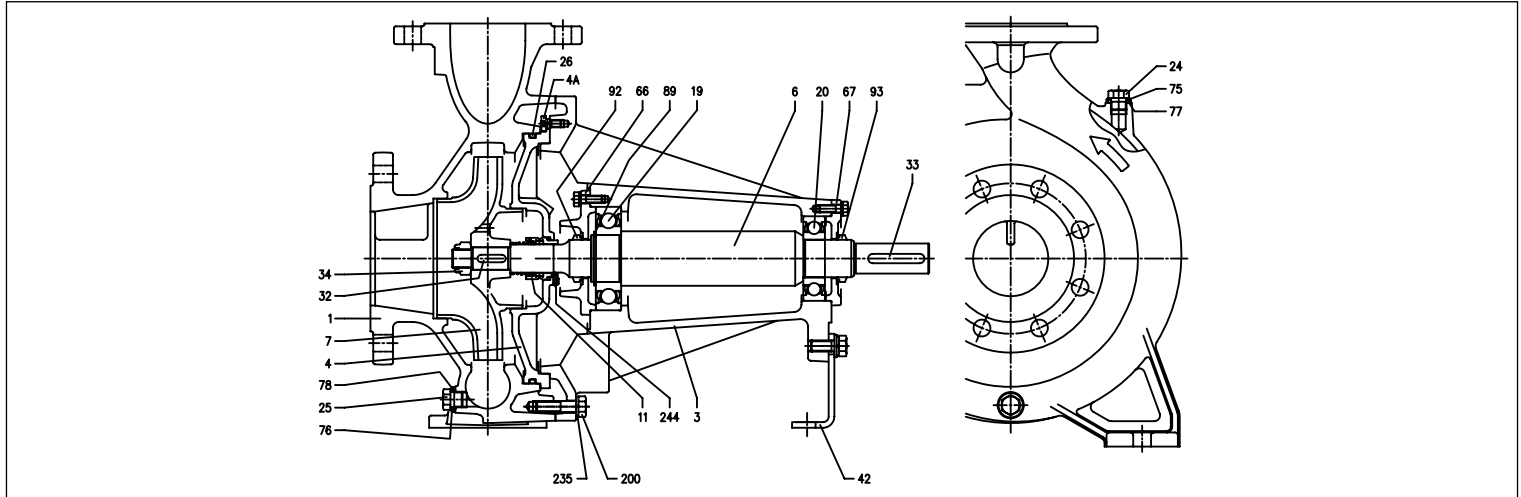
[1]= Not for H and E versions

3 - 3L SERIES

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

SECTIONAL VIEW 3LPF 65-250, 80-200/250 SERIES

2 Poles



MATERIALS TABLE

Ref.	Name	Materials	Ref.	Name	Materials
001	Pump casing	EN 1.4401 (AISI 316)	042	Motor support	Galvanised steel
003	Motor bracket	Cast iron EN-GJL-200-EN 1561	042A	Base	Galvanised steel
004	Casing cover	EN 1.4401 (AISI 316)	044	Joint cover	Galvanised steel
004A	Casing cover screw disc	EN 1.4301(AISI 304)	050	Motor support (only for 65-250/22 kW)	Aluminium
006	Shaft	EN 1.4462 (Duplex steel) for 30-37 kW	050A	Pump spacer	Aluminium
006A	Joint	Cast iron EN-GJL-200-EN 1561	050B	Pump spacer	Aluminium
007	Impeller	EN 1.4401 (AISI316)	050C	Joint cover spacer	Aluminium
011	Mechanical seal	Silicon Carbide/Silicon Carbide/FKM	066	Bracket cover	Cast iron EN-GJL-200-EN 1561
012	Motor	-	067	Bracket cover	Cast iron EN-GJL-200-EN 1561
019	Bearing (pump side)	-	075	Washer	EN 1.4404 (AISI 316L)
020	Bearing (motor side)	-	076	Washer	
024	Plug	EN 1.4404 (AISI 316L)	077	O-Ring	FKM
025	Plug	EN 1.4404 (AISI 316L)	078	O-Ring	
026	O-Ring	FKM	089	Seeger ring	Carbon steel TC 80
032	Key	EN 1.4401 (AISI 316)	092	V Ring	-
			093	V Ring	-
			200	Screw (pump body)	Stainless steel A2 70 class ISO 3506/1
033	Key	C 40	235	Washer	EN 1.4301 (AISI 304)
			244	Plug [1]	EN 1.4301 (AISI 304)
034	Impeller nut	EN 1.4404 (AISI 316L)			

[1]= Not for H and E versions

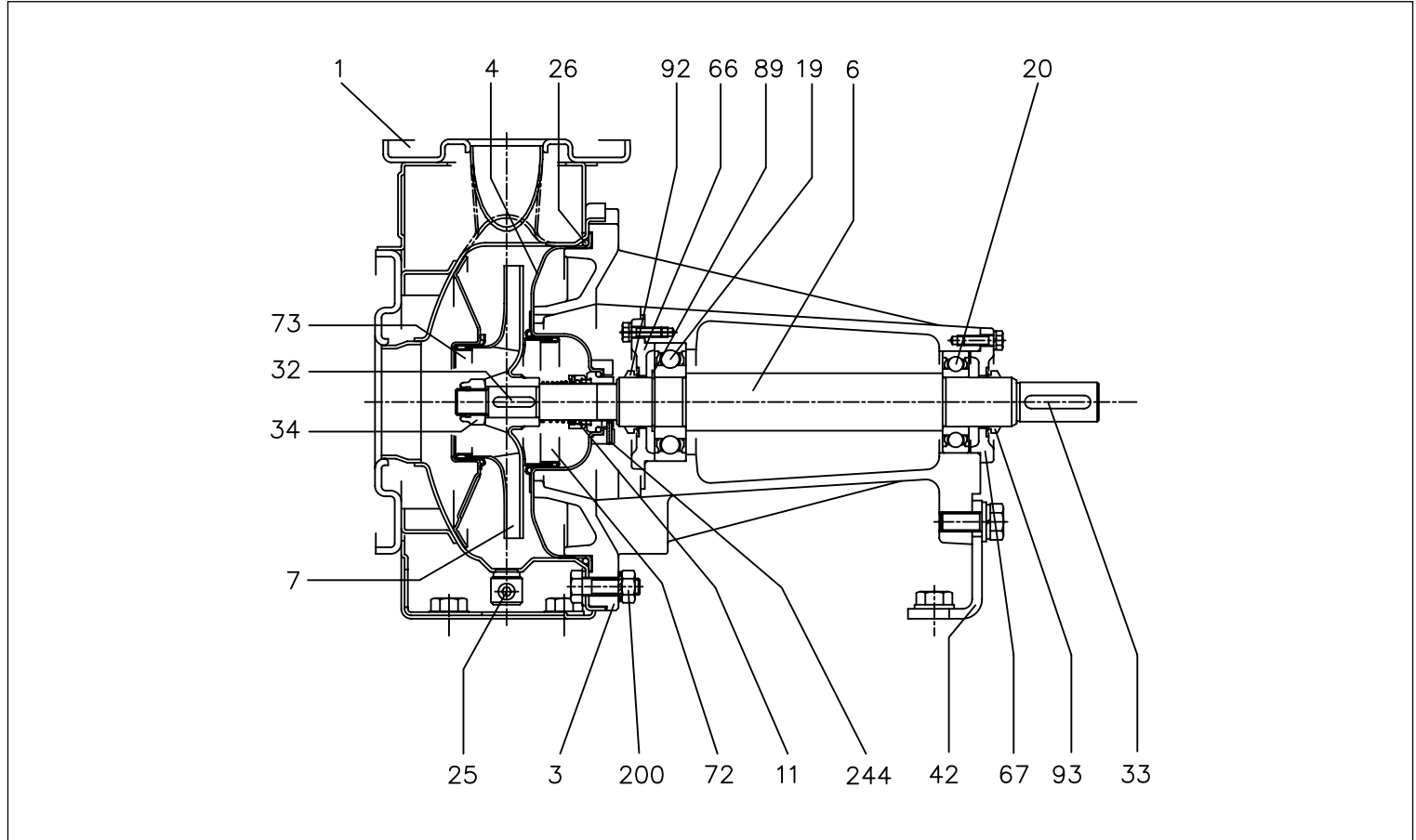
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3 - 3L SERIES

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

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

2 Poles



MATERIALS TABLE

Ref.	Name	Materials	
		3PF	3LPF
001	Pump casing	EN 1.4301 (AISI 304)	EN 1.4404 (AISI 316L)
003	Motor bracket	Cast iron EN-GJL-200-EN 1561	
004	Casing cover	EN 1.4301 (AISI 304)	EN 1.4404 (AISI 316L)
006	Shaft - Part in contact with the liquid	EN 1.4301 (AISI 304)	EN 1.4404 (AISI 316L)
007	Impeller	EN 1.4301 (AISI 304)	EN 1.4404 (AISI 316L)
	32, 40, 50 65-125/160/200		EN 1.4401 (AISI 316)
011	Mechanical seal	Carbon/Ceramic/NBR	Silicon Carbide/Silicon Carbide/FKM
019	Bearing (pump side)	-	-
020	Bearing (motor side)	-	-
025	Plug	EN 1.4401 (AISI 316) / PTFE	
026	O-Ring	NBR	FKM
032	Key	EN 1.4301 (AISI 304)	EN 1.4401 (AISI 316)
033	Key	C 40	
034	Impeller nut	EN 1.4301 (AISI 304)	EN 1.4404 (AISI 316L)
042	Motor support	Galvanised steel Fe 37	
066	Bracket cover	Cast iron EN-GJL-250-EN 1561	
067	Bracket cover	Cast iron EN-GJL-250-EN 1561	
072	Casing ring [1]	EN 1.4301 (AISI 304)	EN 1.4404 (AISI 316L)
073	Casing ring	EN 1.4301 (AISI 304)	EN 1.4404 (AISI 316L)
089	Seeger ring	Carbon steel TC 80	
092	Seal ring	-	-
093	Seal ring	-	-
200	Screw (pump body)	Stainless steel A2 70 class ISO 3506/1	
244	Plug [2]	-	EN 1.4301 (AISI 304)

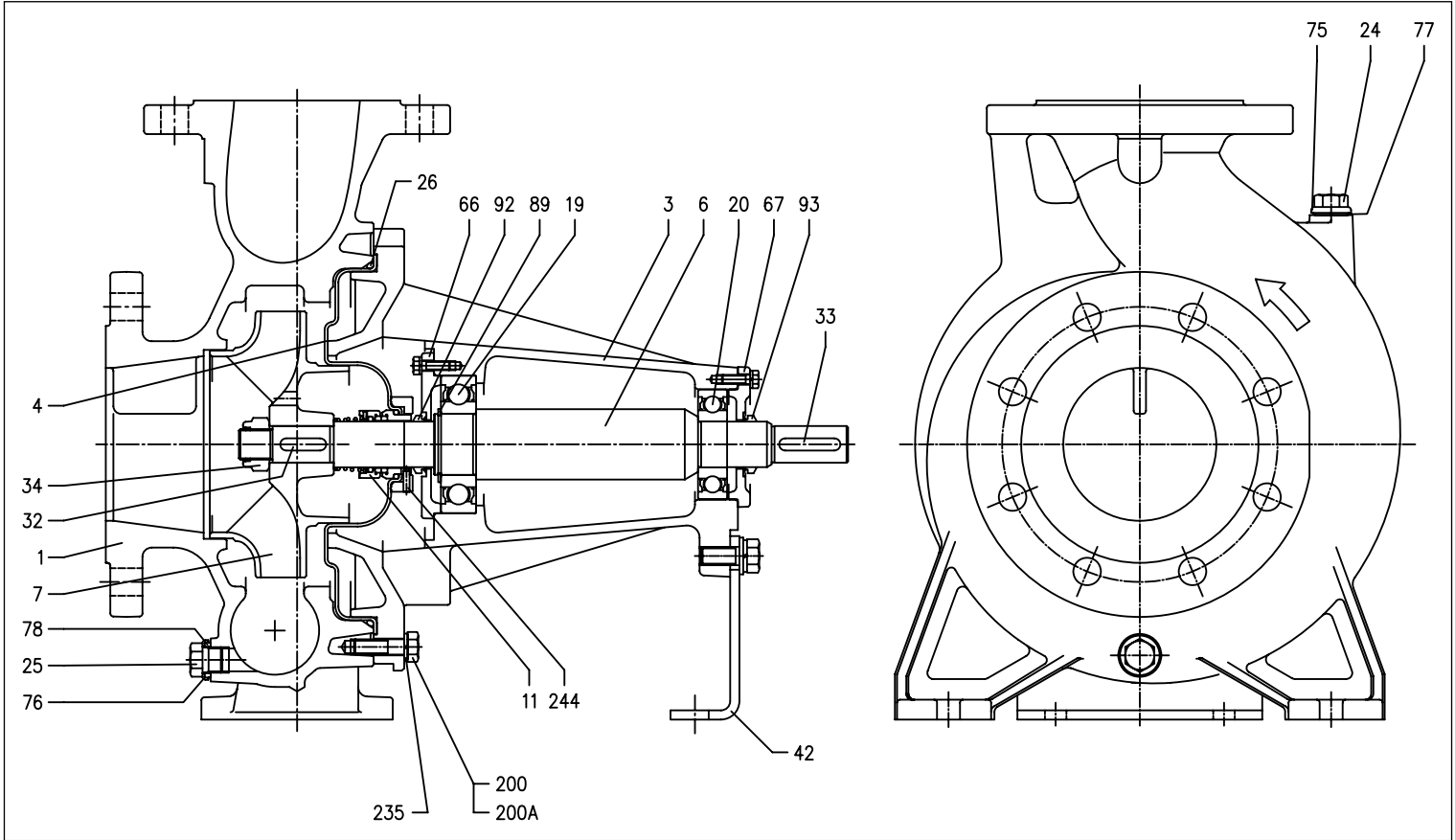
[1]= For 32-200, 40-200, 50-160, 50-200 versions
[2]= Only for 65-160/15 and 65-200

3 - 3L SERIES

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

SECTIONAL VIEW 3LPF 80-160 SERIES

2 Poles



MATERIALS TABLE

Ref.	Name	Materials	Ref.	Name	Materials
001	Pump casing	EN 1.4401 (AISI 316)	042	Motor support	Galvanised steel
003	Motor bracket	Cast iron EN-GJL-200-EN 1561	066	Bracket cover	Cast iron EN-GJL-200-EN 1561
004	Casing cover	EN 1.4404 (AISI 316L)	067	Bracket cover	Cast iron EN-GJL-200-EN 1561
006	Shaft	EN 1.4404 (AISI316L) Part in contact with the liquid	075	Washer	EN 1.4404 (AISI 316L)
007	Impeller	EN 1.4401 (AISI 316)	076	Washer	EN 1.4404 (AISI 316L)
011	Mechanical seal	Silicon Carbide/Silicon Carbide/FKM	077	O-Ring	FKM
019	Bearing (pump side)	-	078	O-Ring	FKM
020	Bearing (motor side)	-	089	Seeger ring	Carbon steel TC 80
024	Plug	EN 1.4404 (AISI 316L)	092	V Ring	-
025	Plug	EN 1.4404 (AISI 316L)	093	V Ring	-
026	O-Ring	FKM	200	Body screw	Stainless steel A2 70 class ISO 3506/1
032	Key	EN 1.4401 (AISI 316)	235	Washer	EN 1.4301(AISI 304)
033	Key	C 40	244	Plug [1]	EN 1.4301(AISI 304)
034	Impeller nut	EN 1.4404 (AISI 316L)			

[1]= Not for H and E versions

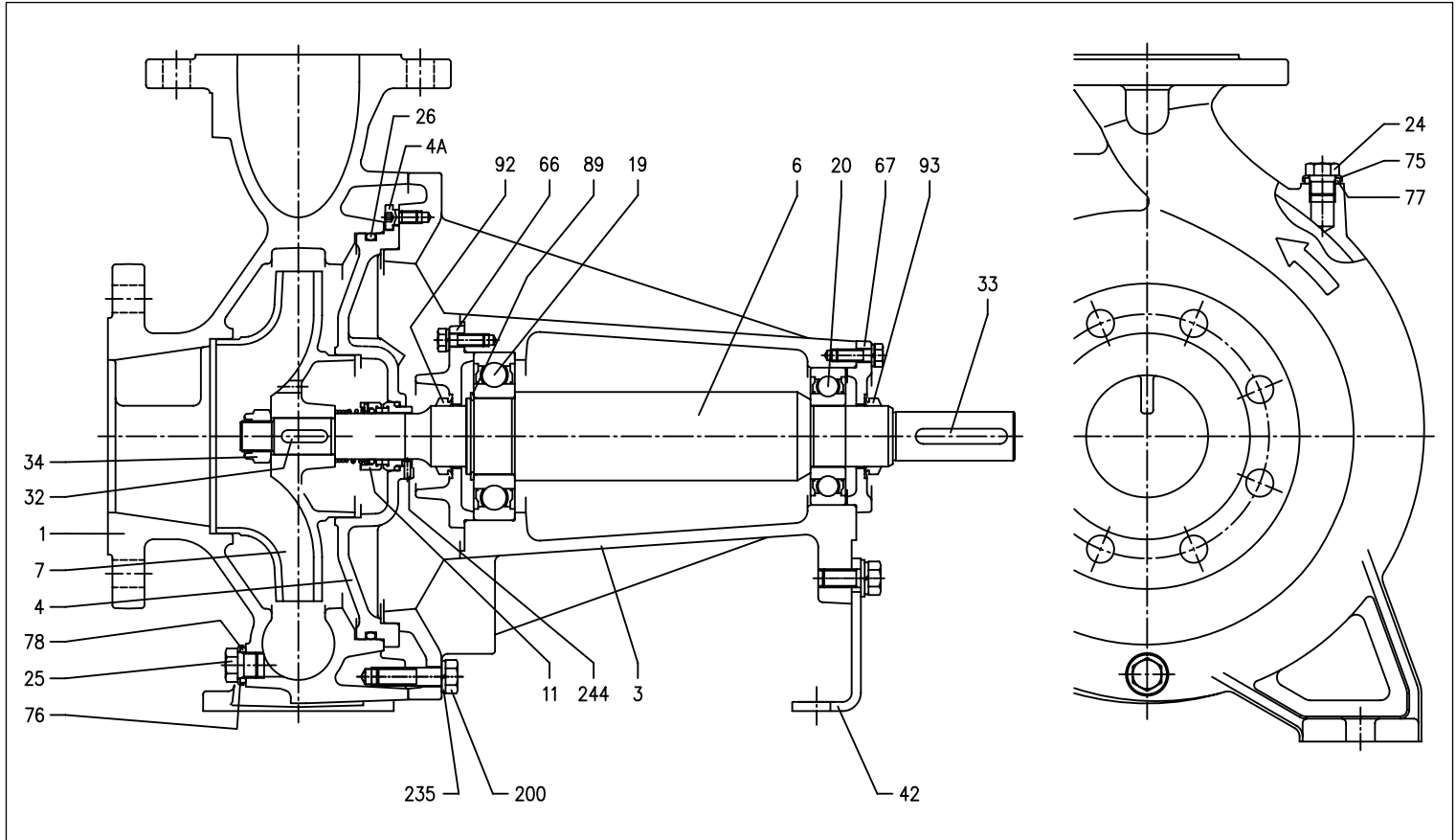
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3 - 3L SERIES

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

SECTIONAL VIEW 3LPF 65-250, 80 SERIES

2 Poles



MATERIALS TABLE

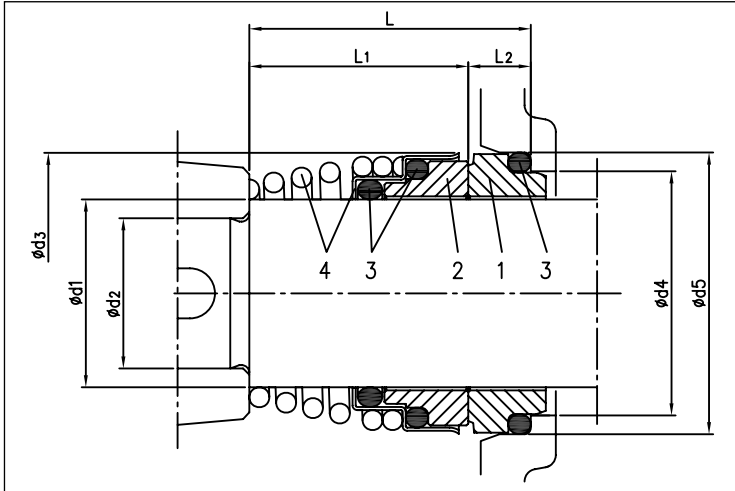
Ref.	Name	Materials	Ref.	Name	Materials
001	Pump casing	EN 1.4401 (AISI 316)	033	Key	C 40
003	Motor bracket	Cast iron EN-GJL-200-EN 1561	034	Impeller nut	65-250 d=24 mm
004	Casing cover	EN 1.4401 (AISI 316)			65-250 d=24 mm
004A	Casing cover screw disc	EN 1.4301 (AISI 304)			80-250 d=29 mm
006	Shaft	EN 1.4462 (Duplex steel) for 30-37 kW	042	Motor support	Galvanised steel
007	Impeller	EN 1.4401 (AISI316)	066	Bracket cover	Cast iron EN-GJL-200-EN 1561
011	Mechanical seal	Silicon Carbide/Silicon Carbide/FKM	067	Bracket cover	Cast iron EN-GJL-200-EN 1561
			075	Washer	EN 1.4404 (AISI 316L)
019	Bearing (pump side)	-	076	Washer	
			077	O-Ring	FKM
020	Bearing (motor side)	-	078	O-Ring	
024	Plug	EN 1.4404 (AISI 316L)	089	Seeger ring	Carbon steel TC 80
025	Plug	EN 1.4404 (AISI 316L)	092	Seal ring	-
026	O-Ring	FKM	093	Seal ring	-
			200	Screw (pump body)	Stainless steel A2 70 class ISO 3506/1
032	Key	EN 1.4401 (AISI 316)	235	Washer	EN 1.4301 (AISI 304)
			244	Plug [1]	EN 1.4301 (AISI 304)

[1]= Not for H and E versions

3 - 3L SERIES

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 part	Carbon	Silicon Carbide
2	Rotating part	Ceramic	Silicon Carbide
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				
	H Version	HS Version	HW Version	HSW Version	E Version
Fixed part	Carbon	Silicon Carbide	Tungsten Carbide	Tungsten Carbide	Carbon
Rotating Part	Ceramic	Silicon Carbide	Tungsten Carbide	Silicon Carbide	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				
	H Version	HW Version	HSW Version	E* Version	ES** Version
Fixed part	Carbon	Tungsten Carbide	Tungsten Carbide	Carbon	Carbon
Rotating Part	Ceramic	Tungsten Carbide	Silicon Carbide	Ceramic	Silicon Carbide
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 3 I 80-250 SERIES 2 poles
 ** Available only for 3 I 80-250 SERIES 2 poles

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

Name	Materials				
	U3U3EGG Version	U3CEGG Version	Q1Q1EGG Version	Q1U3EGG Version	Q1AEGG Version
Fixed part	Tungsten Carbide	Tungsten Carbide	Silicon Carbide	Silicon Carbide	Silicon Carbide
Rotating Part	Tungsten Carbide	Special carbon	Silicon Carbide	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

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

ELECTRIC DATA TABLE 3(L)M SERIES

2 Poles

Model		P ₂		Efficiency		Capacitor		Efficiency(%)			P ₁		Absorbed Current [A]			
Single phase	Three phase	[HP]	[kW]	Single phase	Three phase	Single phase µF	V _c	Three phase			Single phase	Three phase	Three phase			
								50%	75%	100%	[kW]	[kW]	230V	230V	400V	690V
3(L)M 32-125/1.1 M	3(L)M(Z) 32-125/1.1	1,5	1,1	-	IE3	31,5	450	83,0	85,8	85,6	1,51	1,77	6,7	5,8	3,3	-
3(L)M 32-160/1.5 M	3(L)M(Z) 32-160/1.5	2	1,5	-	IE3	40	450	83,0	85,8	85,6	2,10	1,77	9,6	5,8	3,3	-
3(L)M 32-160/2.2 M	3(L)M(Z) 32-160/2.2	3	2,2	-	IE3	50	450	86,2	87,0	86,0	2,95	2,55	13,3	8,2	4,7	-
-	3(L)M(Z) 32-200/3.0	4	3	-	IE3	-	-	85,9	87,5	87,1	-	3,44	-	11,1	6,4	-
-	3(L)M(Z) 32-200/4.0	5,5	4	-	IE3	-	-	85,8	88,3	88,4	-	4,52	-	15,1	8,7	-
-	3(L)M(Z) 32-200/5.5	7,5	5,5	-	IE3	-	-	89,2	90,6	90,4	-	6,09	-	-	10,6	6,1
-	3(L)M(Z) 32-200/7.5	10	7,5	-	IE3	-	-	89,0	90,7	90,8	-	8,26	-	-	13,6	7,9
3(L)M 40-125/1.5 M	3(L)M(Z) 40-125/1.5	2	1,5	-	IE3	40	450	83,0	85,8	85,6	2,10	1,77	9,6	5,8	3,3	-
3(L)M 40-125/2.2 M	3(L)M(Z) 40-125/2.2	3	2,2	-	IE3	50	450	86,2	87,0	86,0	2,95	2,55	13,3	8,2	4,7	-
-	3(L)M(Z) 40-160/3.0	4	3	-	IE3	-	-	85,9	87,5	87,1	-	3,44	-	11,1	6,4	-
-	3(L)M(Z) 40-160/4.0	5,5	4	-	IE3	-	-	85,8	88,3	88,4	-	4,52	-	15,1	8,7	-
-	3(L)M(Z) 40-200/5.5	7,5	5,5	-	IE3	-	-	89,2	90,6	90,4	-	6,09	-	-	10,6	6,1
-	3(L)M(Z) 40-200/7.5	10	7,5	-	IE3	-	-	89,0	90,7	90,8	-	8,26	-	-	13,6	7,9
-	3(L)M(Z) 40-200/11	15	11	-	IE3	-	-	90,4	91,2	91,8	-	11,98	-	-	21,3	12,3
3(L)M 50-125/2.2 M	3(L)M(Z) 50-125/2.2	3	2,2	-	IE3	50	450	86,2	87,0	86,0	2,95	2,55	13,3	8,2	4,7	-
-	3(L)M(Z) 50-125/3.0	4	3	-	IE3	-	-	85,9	87,5	87,1	-	3,44	-	11,1	6,4	-
-	3(L)M(Z) 50-125/4.0	5,5	4	-	IE3	-	-	85,8	88,3	88,4	-	4,52	-	15,1	8,7	-
-	3(L)M(Z) 50-160/5.5	7,5	5,5	-	IE3	-	-	89,2	90,6	90,4	-	6,09	-	-	10,6	6,1
-	3(L)M(Z) 50-160/7.5	10	7,5	-	IE3	-	-	89,0	90,7	90,8	-	8,26	-	-	13,6	7,9
-	3(L)M(Z) 50-200/9.2	12,5	9,2	-	IE3	-	-	90,1	90,8	90,9	-	10,12	-	-	17,2	10,0
-	3(L)M(Z) 50-200/11	15	11	-	IE3	-	-	90,4	91,2	91,8	-	11,98	-	-	21,3	12,3
-	3(L)M(Z) 50-200/15	20	15	-	IE3	-	-	91,2	92,0	91,9	-	18,00	-	-	30,0	17,3
-	3(L)M(Z) 65-125/4	5,5	4	-	IE3	-	-	85,8	88,3	88,4	-	4,52	-	15,1	8,7	-
-	3(L)M(Z) 65-125/5.5	7,5	5,5	-	IE3	-	-	89,2	90,6	90,4	-	6,09	-	-	10,6	6,1
-	3(L)M(Z) 65-125/7.5	10	7,5	-	IE3	-	-	89,0	90,7	90,8	-	8,26	-	-	13,6	7,9
-	3(L)M(Z) 65-160/7.5	10	7,5	-	IE3	-	-	89,0	90,7	90,8	-	8,26	-	-	13,6	7,9
-	3(L)M(Z) 65-160/9.2	12,5	9,2	-	IE3	-	-	90,1	90,8	90,9	-	10,12	-	-	17,2	10,0
-	3(L)M(Z) 65-160/11	15	11	-	IE3	-	-	90,4	91,2	91,8	-	11,98	-	-	21,3	12,3
-	3(L)M(Z) 65-160/15	20	15	-	IE3	-	-	91,2	92,0	91,9	-	16,32	-	-	27,7	17,3
-	3(L)M(Z) 65-200/15	20	15	-	IE3	-	-	91,2	92,0	91,9	-	16,32	-	-	27,7	17,3
-	3(L)M(Z) 65-200/18.5	25	18,5	-	IE3	-	-	91,6	93,0	92,6	-	19,98	-	-	35,0	20,3
-	3(L)M(Z) 65-200/22	30	22	-	IE3	-	-	92,0	93,1	93,2	-	23,58	-	-	39,7	23,6
-	3LM 80-160/11	15	11	-	IE3	-	-	90,4	91,2	91,8	-	11,98	-	-	21,3	12,3
-	3LM 80-160/15R	20	15	-	IE3	-	-	91,2	92,0	91,9	-	16,32	-	-	27,7	17,3
-	3LM 80-160/15	20	15	-	IE3	-	-	91,2	92,0	91,9	-	16,32	-	-	27,7	17,3
-	3LM 80-160/18.5	25	18,5	-	IE3	-	-	91,6	93,0	92,6	-	19,98	-	-	35,0	20,3

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3 - 3L SERIES

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

ELECTRIC DATA TABLE 3(L)S - 3(L)P SERIES

2 Poles

Model		Motor			Efficiency	Efficiency (%) and power factor				Absorbed Current [A]		
		Motor	[HP]	P ₂ [kW]		50%	η % 75%	100%	cos φ	230V	400V	690V
3(L)S(Z) 32-125/1.1	3(L)P 32-125/1.1	80	1,5	1,1	IE3	78,7	81,7	82,7	0,76	4,2	2,4	-
3(L)S(Z) 32-160/1.5	3(L)P 32-160/1.5	90S	2	1,5	IE3	83,2	84,8	84,2	0,85	5,2	3,0	-
3(L)S(Z) 32-160/2.2	3(L)P 32-160/2.2	90L	3	2,2	IE3	85,0	86,2	86,5	0,82	8,0	4,6	-
3(L)S(Z) 32-200/3.0	3(L)P 32-200/3.0	100L	4	3	IE3	82,3	85,8	87,1	0,89	9,7	5,6	-
3(L)S(Z) 32-200/4.0	3(L)P 32-200/4.0	112M	5,5	4	IE3	86,8	87,8	88,1	0,93	12,1	7,0	-
3(L)S(Z) 32-200/5.5	3(L)P 32-200/5.5	132S	7,5	5,5	IE3	88,0	88,5	89,2	0,90	-	10,0	5,8
3(L)S(Z) 32-200/7.5	3(L)P 32-200/7.5	132S	10	7,5	IE3	88,6	89,2	90,1	0,92	-	13,1	7,6
3(L)S(Z) 40-125/1.5	3(L)P 40-125/1.5	90S	2	1,5	IE3	83,2	84,8	84,2	0,85	5,2	3,0	-
3(L)S(Z) 40-125/2.2	3(L)P 40-125/2.2	90L	3	2,2	IE3	85,0	86,2	86,5	0,82	8,0	4,6	-
3(L)S(Z) 40-160/3.0	3(L)P 40-160/3.0	100L	4	3	IE3	82,3	85,8	87,1	0,89	9,7	5,6	-
3(L)S(Z) 40-160/4.0	3(L)P 40-160/4.0	112M	5,5	4	IE3	86,8	87,8	88,1	0,93	12,1	7,0	-
3(L)S(Z) 40-200/5.5	3(L)P 40-200/5.5	132S	7,5	5,5	IE3	88,0	88,5	89,2	0,90	-	10,0	5,8
3(L)S(Z) 40-200/7.5	3(L)P 40-200/7.5	132S	10	7,5	IE3	88,6	89,2	90,1	0,92	-	13,1	7,6
3(L)S(Z) 40-200/11	3(L)P 40-200/11	160M	15	11	IE3	87,4	89,8	91,2	0,89	-	19,7	11,4
3(L)S(Z) 50-125/2.2	3(L)P 50-125/2.2	90L	3	2,2	IE3	85,0	86,2	86,5	0,82	8,0	4,6	-
3(L)S(Z) 50-125/3.0	3(L)P 50-125/3.0	100L	4	3	IE3	82,3	85,8	87,1	0,89	9,7	5,6	-
3(L)S(Z) 50-125/4.0	3(L)P 50-125/4.0	112M	5,5	4	IE3	86,8	87,8	88,1	0,93	12,1	7,0	-
3(L)S(Z) 50-160/5.5	3(L)P 50-160/5.5	132S	7,5	5,5	IE3	88,0	88,5	89,2	0,90	-	10,0	5,8
3(L)S(Z) 50-160/7.5	3(L)P 50-160/7.5	132S	10	7,5	IE3	88,6	89,2	90,1	0,92	-	13,1	7,6
3(L)S(Z) 50-200/9.2	3(L)P 50-200/9.2	132M	12,5	9,2	IE3	88,6	89,8	90,7	0,89	-	16,5	9,5
3(L)S(Z) 50-200/11	3(L)P 50-200/11	160M	15	11	IE3	87,4	89,8	91,2	0,89	-	19,7	11,4
3(L)S(Z) 50-200/15	3(L)P 50-200/15	160M	20	15	IE3	91,0	91,3	91,9	0,89	-	26,7	15,4
3(L)S(Z) 65-125/4	3(L)P 65-125/4	112M	5,5	4	IE3	86,8	87,8	88,1	0,93	12,1	7,0	-
3(L)S(Z) 65-125/5.5	3(L)P 65-125/5.5	132S	7,5	5,5	IE3	88,0	88,5	89,2	0,90	-	10,0	5,8
3(L)S(Z) 65-125/7.5	3(L)P 65-125/7.5	132S	10	7,5	IE3	88,6	89,2	90,1	0,92	-	13,1	7,6
3(L)S(Z) 65-160/7.5	3(L)P 65-160/7.5	132S	10	7,5	IE3	88,6	89,2	90,1	0,92	-	13,1	7,6
3(L)S(Z) 65-160/9.2	3(L)P 65-160/9.2	132M	12,5	9,2	IE3	88,6	89,8	90,7	0,89	-	16,5	9,5
3(L)S(Z) 65-160/11	3(L)P 65-160/11	160M	15	11	IE3	87,4	89,8	91,2	0,89	-	19,7	11,4
3(L)S(Z) 65-160/15	3(L)P 65-160/15	160M	20	15	IE3	91,0	91,3	91,9	0,89	-	26,7	15,4
3(L)S(Z) 65-200/15	3(L)P 65-200/15	160M	20	15	IE3	91,0	91,3	91,9	0,89	-	26,7	15,4
3(L)S(Z) 65-200/18.5	3(L)P 65-200/18.5	160L	25	18,5	IE3	91,6	92,8	92,4	0,88	-	33,0	19,1
3(L)S(Z) 65-200/22	3(L)P 65-200/22	180	30	22	IE3	92,3	92,9	92,9	0,90	-	38,0	22,0
3LS 65-250/30	3LP 65-250/30	200	40	30	IE3	92,8	93,9	94,0	0,89	-	51,8	30,0
3LS 65-250/37	3LP 65-250/37	200	50	37	IE3	93,0	93,9	93,8	0,90	-	62,5	36,0
3LS 80-160/11	3LP 80-160/11	160M	15	11	IE3	87,4	89,8	91,2	0,89	-	19,7	11,4
3LS 80-160/15R	3LP 80-160/15R	160M	20	15	IE3	91,0	91,3	91,9	0,89	-	26,7	15,4
3LS 80-160/15	3LP 80-160/15	160M	20	15	IE3	91,0	91,3	91,9	0,89	-	26,7	15,4
3LS 80-160/18.5	3LP 80-160/18.5	160L	25	18,5	IE3	91,6	92,8	92,4	0,88	-	33,0	19,1
3LS 80-200/22	3LP 80-200/22	180	30	22	IE3	92,3	92,9	92,9	0,90	-	38,0	22,0
3LS 80-200/30	3LP 80-200/30	200	40	30	IE3	92,8	93,9	94,0	0,89	-	51,8	30,0
3LS 80-200/37	3LP 80-200/37	200	50	37	IE3	93,0	93,9	93,8	0,90	-	62,5	36,0
3LS 80-250/37	3LP 80-250/37	200	50	37	IE3	93,0	93,9	93,8	0,90	-	62,5	36,0
3LS 80-250/45	3LP 80-250/45	225	60	45	IE3	93,2	94,6	94,8	0,92	-	74,5	43,0
3LS 80-250/55	3LP 80-250/55	250	75	55	IE3	93,6	94,5	94,4	0,90	-	93,5	54,0

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3 - 3L SERIES

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

NOISE DATA TABLE

Model		P ₂		L _{PA} - dB(A)*
Single phase 230V	Three phase 230/400/690V	[HP]	[kW]	
3(.)M 32-125/1.1 M	3(.)M(Z) 32-125/1.1	1.5	1.1	<70
3(.)M 32-160/1.5 M	3(.)M(Z) 32-160/1.5	2.0	1.5	
3(.)M 32-160/2.2 M	3(.)M(Z) 32-160/2.2	3.0	2.2	
-	3(.)M(Z) 32-200/3.0	4.0	3.0	71
-	3(.)M(Z) 32-200/4.0	5.5	4.0	75
-	3(.)M(Z) 32-200/5.5	7.5	5.5	
-	3(.)M(Z) 32-200/7.5	10.0	7.5	
3(.)M 40-125/1.5 M	3(.)M(Z) 40-125/1.5	2.0	1.5	<70
3(.)M 40-125/2.2 M	3(.)M(Z) 40-125/2.2	3.0	2.2	
-	3(.)M(Z) 40-160/3.0	4.0	3.0	71
-	3(.)M(Z) 40-160/4.0	5.5	4.0	75
-	3(.)M(Z) 40-200/5.5	7.5	5.5	
-	3(.)M(Z) 40-200/7.5	10.0	7.5	
-	3(.)M(Z) 40-200/11	15.0	11.0	80
3(.)M 50-125/2.2 M	3(.)M(Z) 50-125/2.2	3.0	2.2	<70
-	3(.)M(Z) 50-125/3.0	4.0	3.0	71
-	3(.)M(Z) 50-125/4.0	5.5	4.0	75
-	3(.)M(Z) 50-160/5.5	7.5	5.5	
-	3(.)M(Z) 50-160/7.5	10.0	7.5	
-	3(.)M(Z) 50-200/9.2	12.5	9.2	80
-	3(.)M(Z) 50-200/11	15.0	11.0	
-	3(.)M(Z) 50-200/15	20.0	15.0	71
-	3(.)M(Z) 65-125/4	5.5	4.0	75
-	3(.)M(Z) 65-125/5.5	7.5	5.5	
-	3(.)M(Z) 65-125/7.5	10.0	7.5	
-	3(.)M(Z) 65-160/7.5	10.0	7.5	80
-	3(.)M(Z) 65-160/9.2	12.5	9.2	
-	3(.)M(Z) 65-160/11	15.0	11.0	
-	3(.)M(Z) 65-160/15	20.0	15.0	83-82
-	3(.)M(Z) 65-200/15	20.0	15.0	
-	3(.)M(Z) 65-200/18.5	25.0	18.5	
-	3(.)M(Z) 65-200/22	30.0	22.0	80
-	3LM 80-160/11	15.0	11.0	
-	3LM 80-160/15R	17.5	13.0	
-	3LM 80-160/15	20.0	15.0	83-82
-	3LM 80-160/18.5	25.0	18.5	

* Mean value of several measurements at 1 m distance around the pump.
Tolerance ± 2.5 dB.

2 Poles

Model		P ₂		L _{PA} - dB(A)*
Single phase 230V	Three phase 230/400/690V	[HP]	[kW]	
3(.)S(Z) 32-125/1.1	3(.)P 32-125/1.1	1.5	1.1	<70
3(.)S(Z) 32-160/1.5	3(.)P 32-160/1.5	2	1.5	
3(.)S(Z) 32-160/2.2	3(.)P 32-160/2.2	3	2.2	
3(.)S(Z) 32-200/3.0	3(.)P 32-200/3.0	4	3	72
3(.)S(Z) 32-200/4.0	3(.)P 32-200/4.0	5.5	4	
3(.)S(Z) 32-200/5.5	3(.)P 32-200/5.5	7.5	5.5	
3(.)S(Z) 32-200/7.5	3(.)P 32-200/7.5	10	7.5	74
3(.)S(Z) 40-125/1.5	3(.)P 40-125/1.5	2	1.5	
3(.)S(Z) 40-125/2.2	3(.)P 40-125/2.2	3	2.2	<70
3(.)S(Z) 40-160/3.0	3(.)P 40-160/3.0	4	3	
3(.)S(Z) 40-160/4.0	3(.)P 40-160/4.0	5.5	4	
3(.)S(Z) 40-200/5.5	3(.)P 40-200/5.5	7.5	5.5	72
3(.)S(Z) 40-200/7.5	3(.)P 40-200/7.5	10	7.5	
3(.)S(Z) 40-200/11	3(.)P 40-200/11	15	11	74
3(.)S(Z) 50-125/2.2	3(.)P 50-125/2.2	3	2.2	<70
3(.)S(Z) 50-125/3.0	3(.)P 50-125/3.0	4	3	
3(.)S(Z) 50-125/4.0	3(.)P 50-125/4.0	5.5	4	
3(.)S(Z) 50-160/5.5	3(.)P 50-160/5.5	7.5	5.5	72
3(.)S(Z) 50-160/7.5	3(.)P 50-160/7.5	10	7.5	
3(.)S(Z) 50-200/9.2	3(.)P 50-200/9.2	12.5	9.2	
3(.)S(Z) 50-200/11	3(.)P 50-200/11	15	11	74
3(.)S(Z) 50-200/15	3(.)P 50-200/15	20	15	
3(.)S(Z) 65-125/4	3(.)P 65-125/4	5.5	4	<70
3(.)S(Z) 65-125/5.5	3(.)P 65-125/5.5	7.5	5.5	72
3(.)S(Z) 65-125/7.5	3(.)P 65-125/7.5	10	7.5	
3(.)S(Z) 65-160/7.5	3(.)P 65-160/7.5	10	7.5	
3(.)S(Z) 65-160/9.2	3(.)P 65-160/9.2	12.5	9.2	74
3(.)S(Z) 65-160/11	3(.)P 65-160/11	15	11	
3(.)S(Z) 65-160/15	3(.)P 65-160/15	20	15	
3(.)S(Z) 65-200/15	3(.)P 65-200/15	20	15	77
3(.)S(Z) 65-200/18.5	3(.)P 65-200/18.5	25	18.5	
3(.)S(Z) 65-200/22	3(.)P 65-200/22	30	22	
3LS 65-250/30	3LP 65-250/30	40	30	78
3LS 65-250/37	3LP 65-250/37	50	37	
3LS 80-160/11	3LP 80-160/11	15	11	74
3LS 80-160/15R	3LP 80-160/15R	20	15	
3LS 80-160/15	3LP 80-160/15	20	15	
3LS 80-160/18.5	3LP 80-160/18.5	25	18.5	77
3LS 80-200/22	3LP 80-200/22	30	22	
3LS 80-200/30	3LP 80-200/30	40	30	78
3LS 80-200/37	3LP 80-200/37	50	37	
3LS 80-250/37	3LP 80-250/37	50	37	
3LS 80-250/45	3LP 80-250/45	60	45	80
3LS 80-250/55	3LP 80-250/55	75	55	81

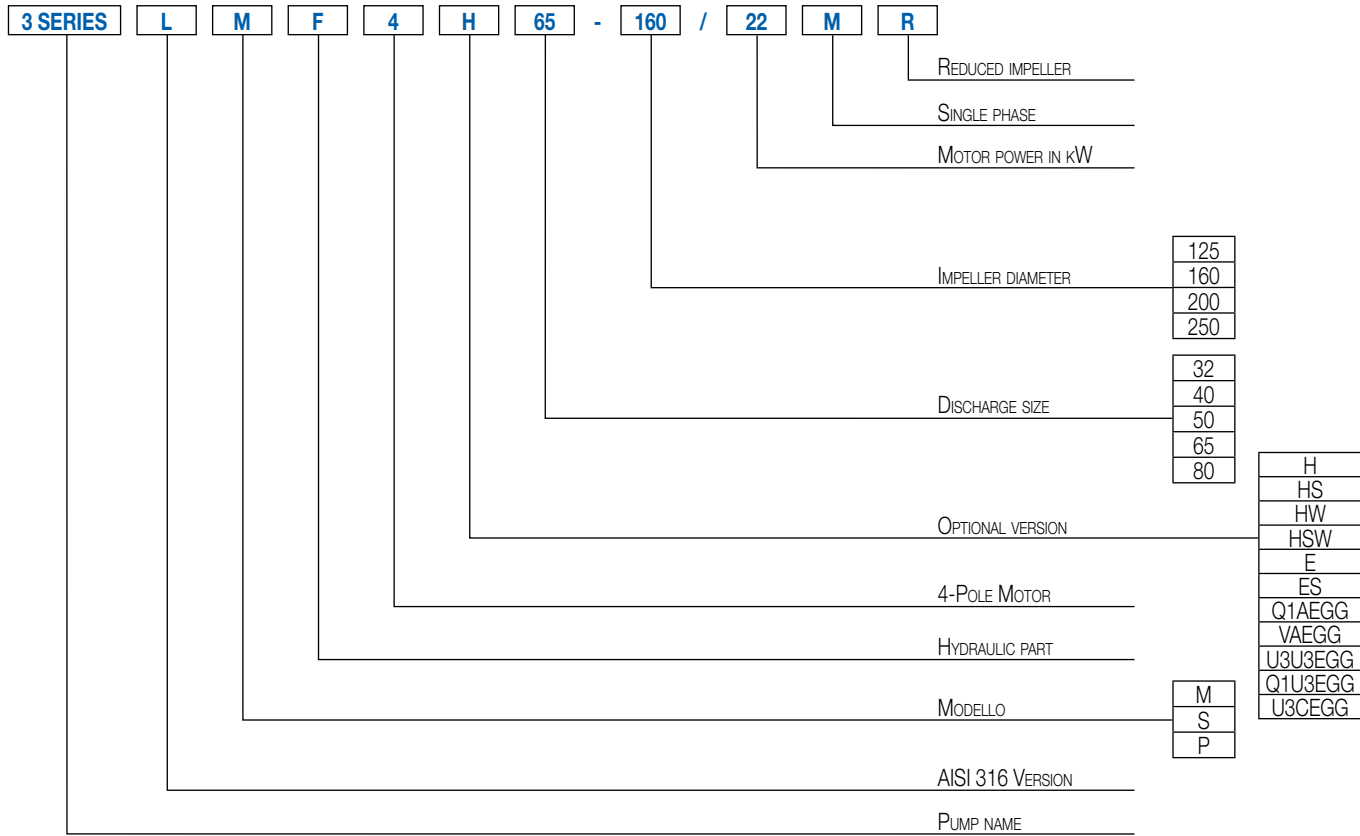
* Mean value of several measurements at 1 m distance around the pump.
Tolerance ± 2.5 dB.



3 - 3L SERIES

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

IDENTIFICATION CODE - 4 Poles



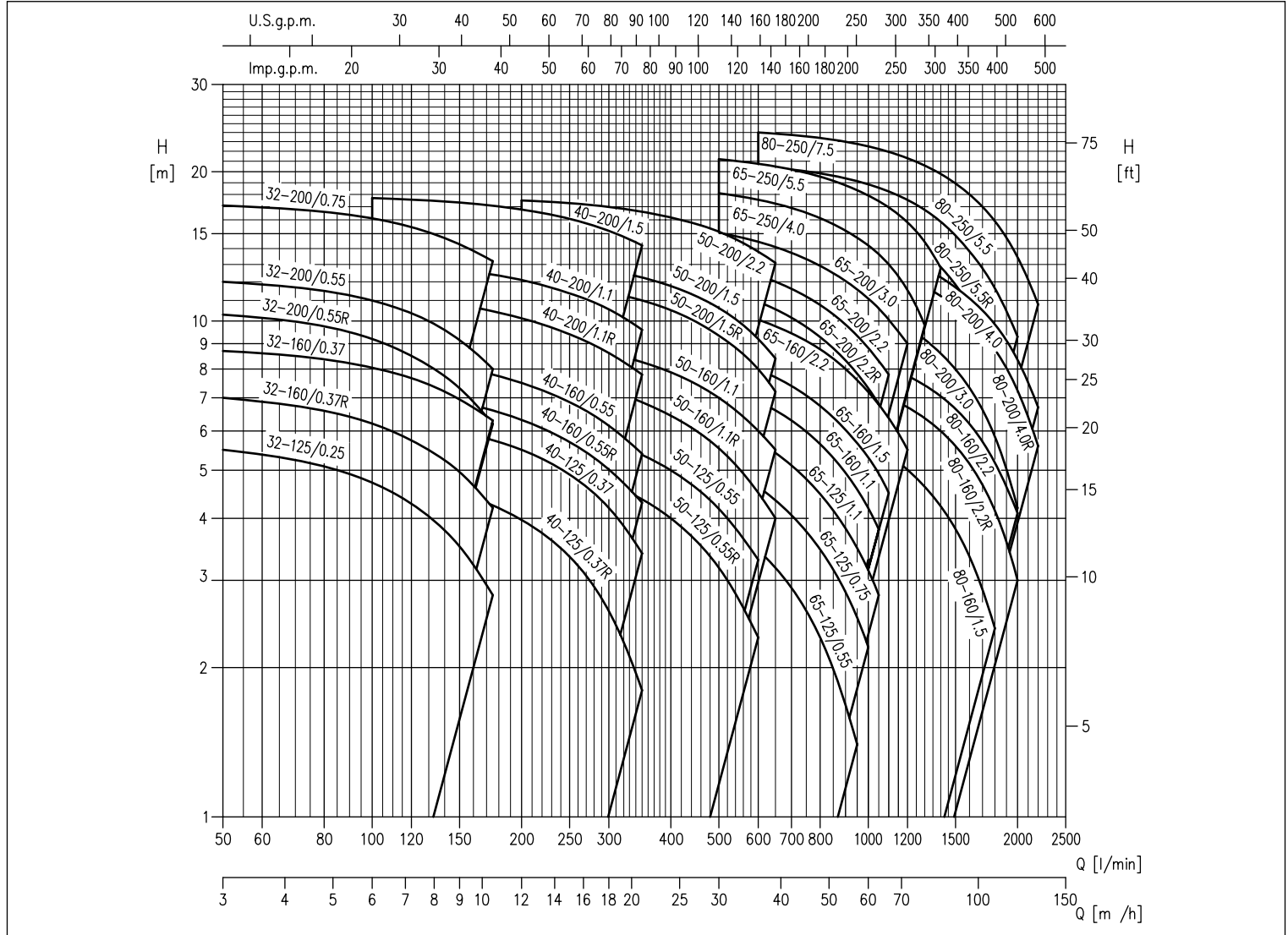
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3 - 3L SERIES

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

PERFORMANCE RANGE 3(L) SERIES at 1450 min⁻¹ (according to ISO 9906 Attachment 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 H-HS-HW-HSW-E version
 ● = Models also available in H-HW-HSW-E version

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3 - 3L SERIES

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

PERFORMANCE CHART 32-40-50

4 Poles

Model	P ₁		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 CHART 65-80

4 Poles

Model	P ₁		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
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	-

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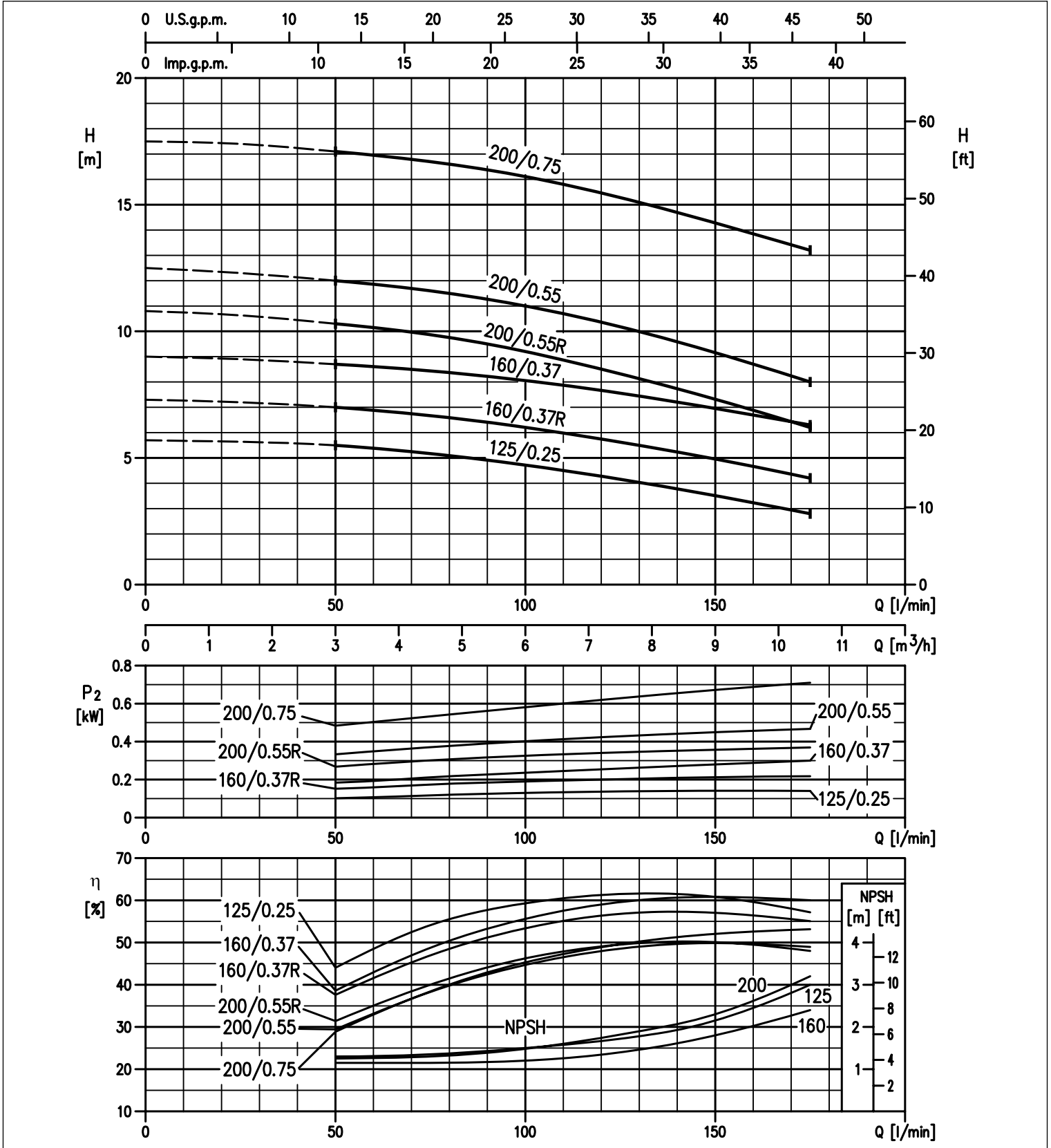


3 - 3L SERIES

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

PERFORMANCE CURVES 3(L)M-3(L)S-3(L)P 32 SERIES at 1450 min⁻¹ (according to ISO 9906 Attachment A)

4 Poles



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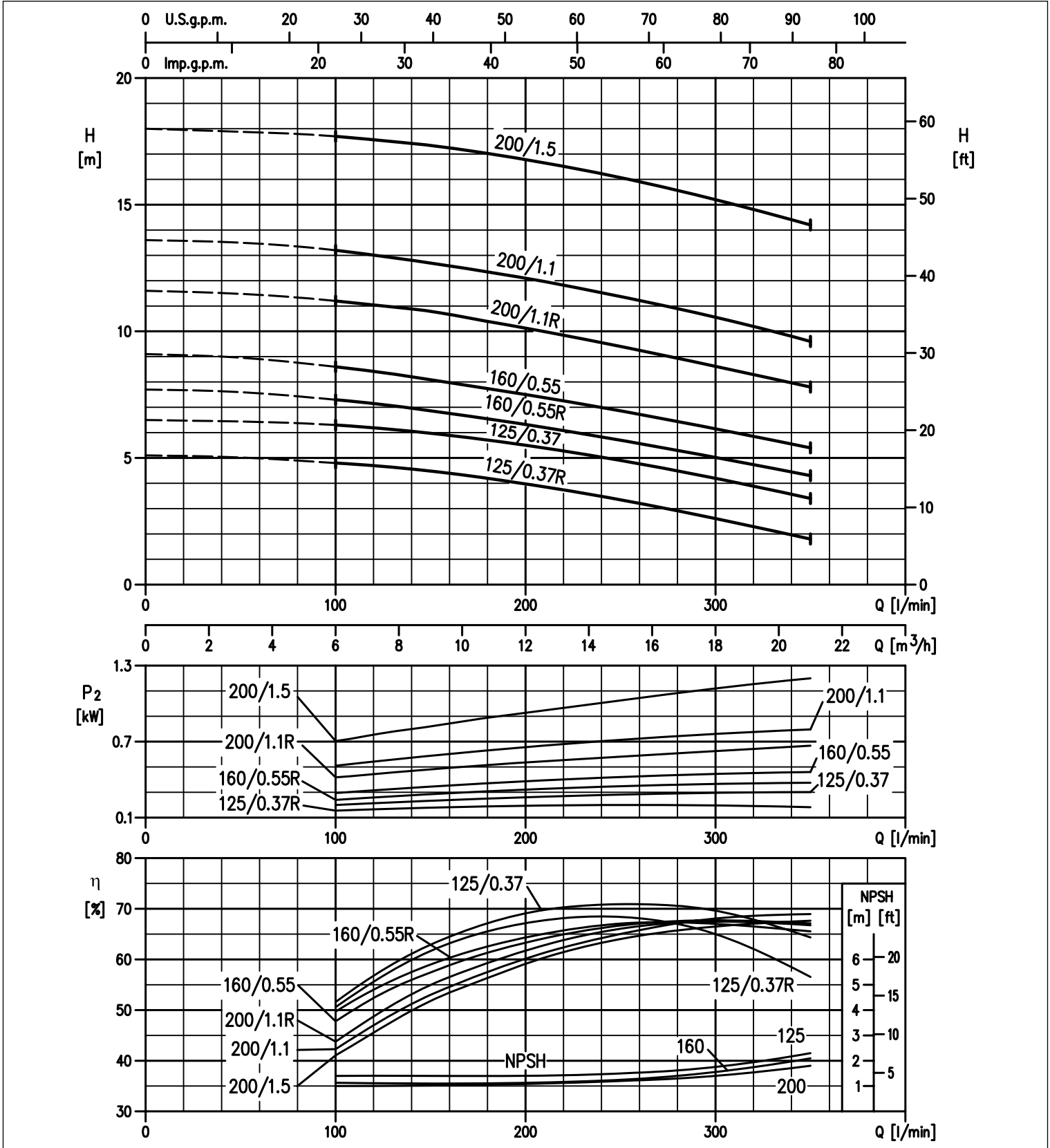


3 - 3L SERIES

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

PERFORMANCE CURVES 3(L)M-3(L)S-3(L)P 40 SERIES at 1450 min⁻¹ (according to ISO 9906 Attachment A)

4 Poles



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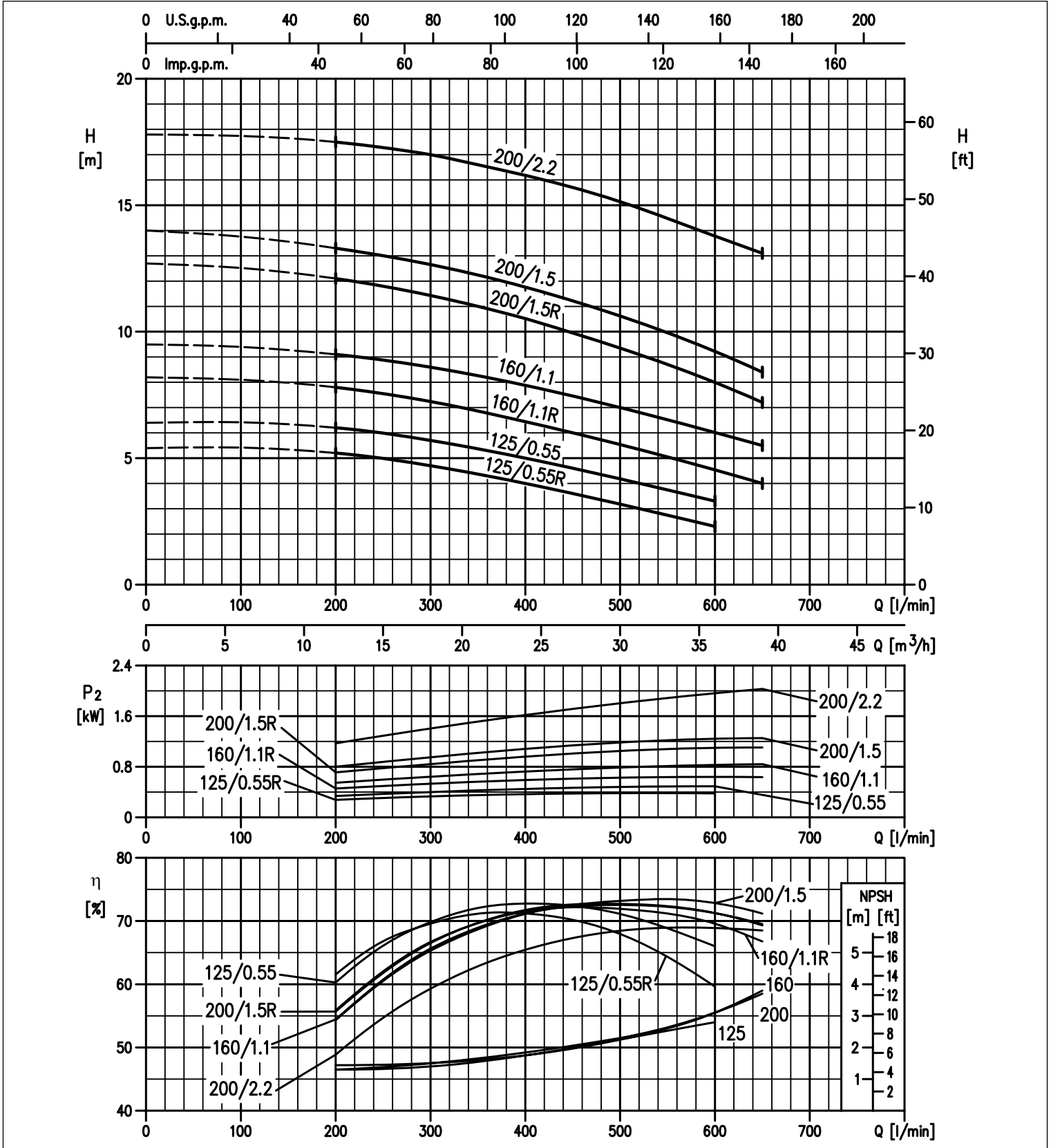


3 - 3L SERIES

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

PERFORMANCE CURVES 3(L)M-3(L)S-3(L)P 50 SERIES at 1450 min⁻¹ (according to ISO 9906 Attachment A)

4 Poles



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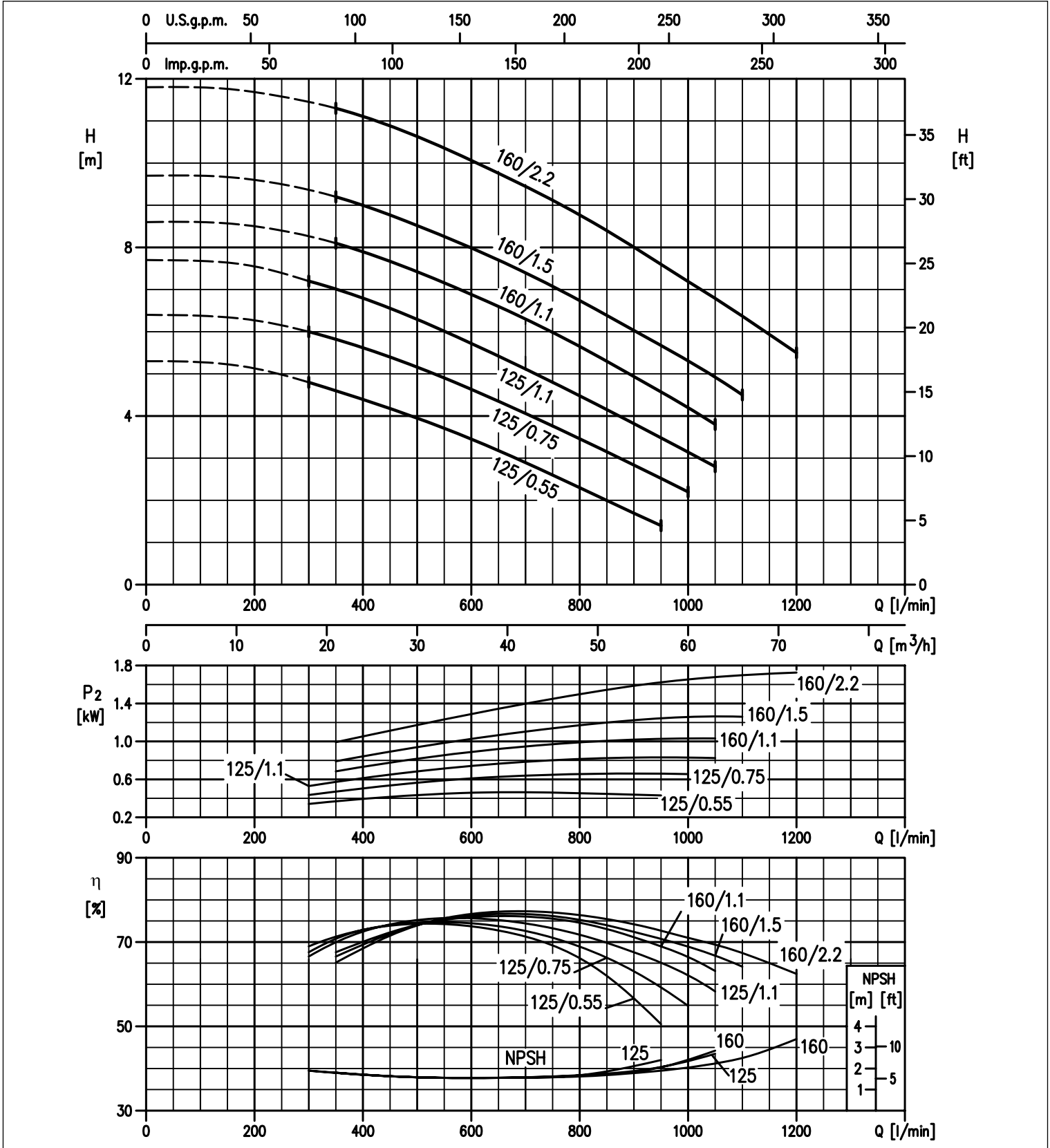


3 - 3L SERIES

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

PERFORMANCE CURVES 3(L)M-3(L)S-3(L)P 65 SERIES at 1450 min⁻¹ (according to ISO 9906 Attachment A)

4 Poles



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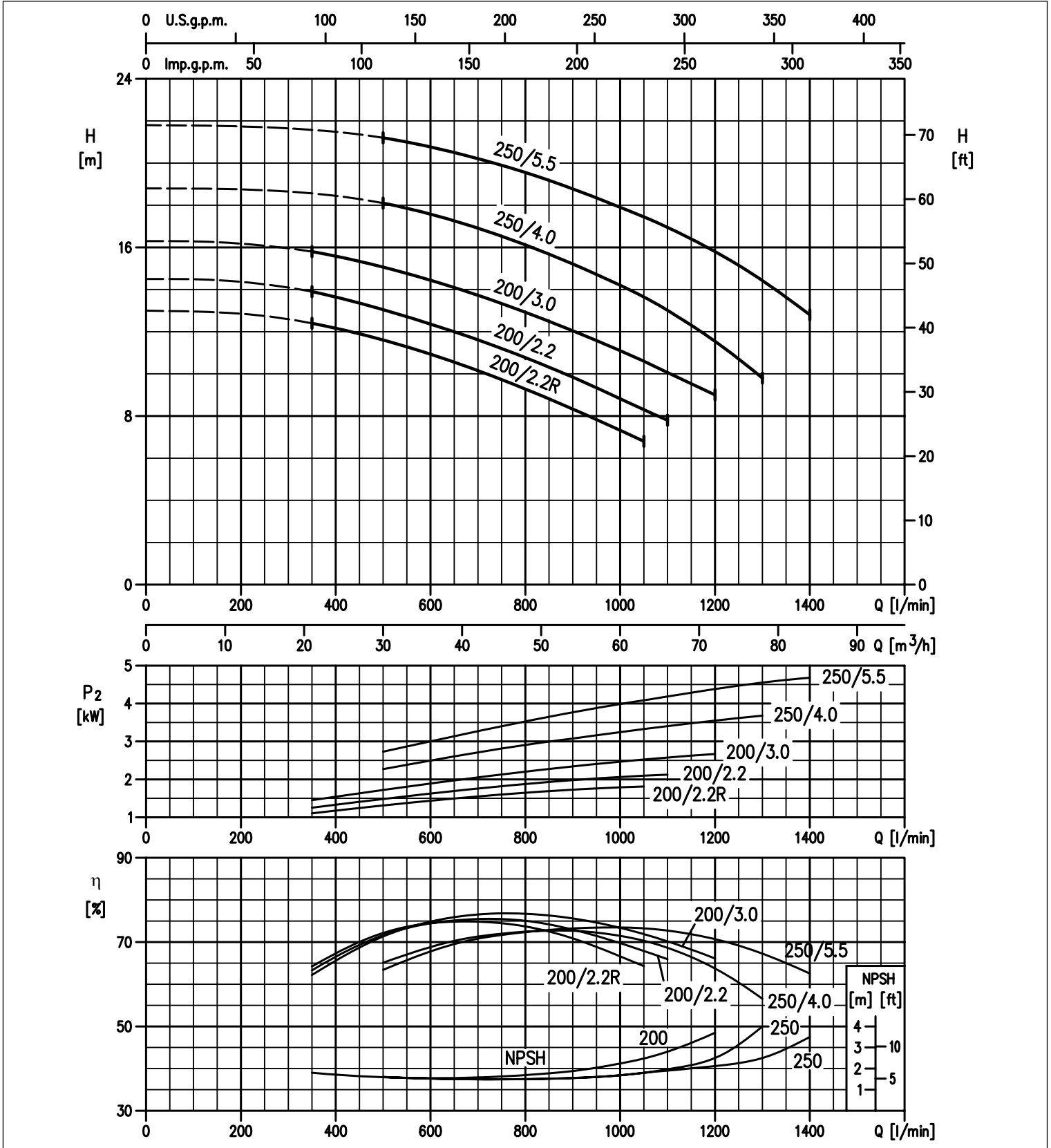


3 - 3L SERIES

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

PERFORMANCE CURVES 3L 65 SERIES at 1450 min⁻¹ (according to ISO 9906 Attachment A)

4 Poles



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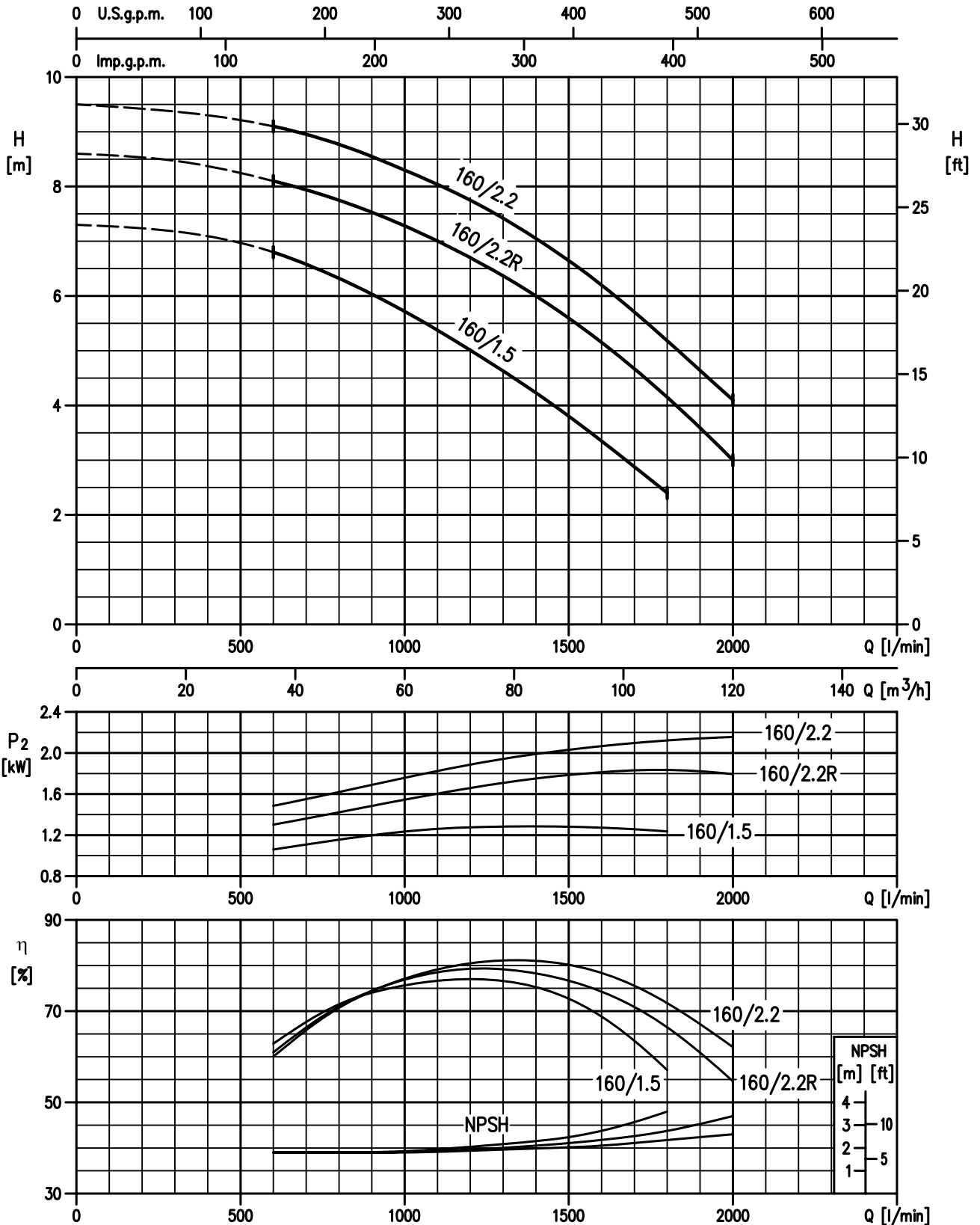


3 - 3L SERIES

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

PERFORMANCE CURVES 3L 80 SERIES at 1450 min⁻¹ (according to ISO 9906 Attachment A)

4 Poles



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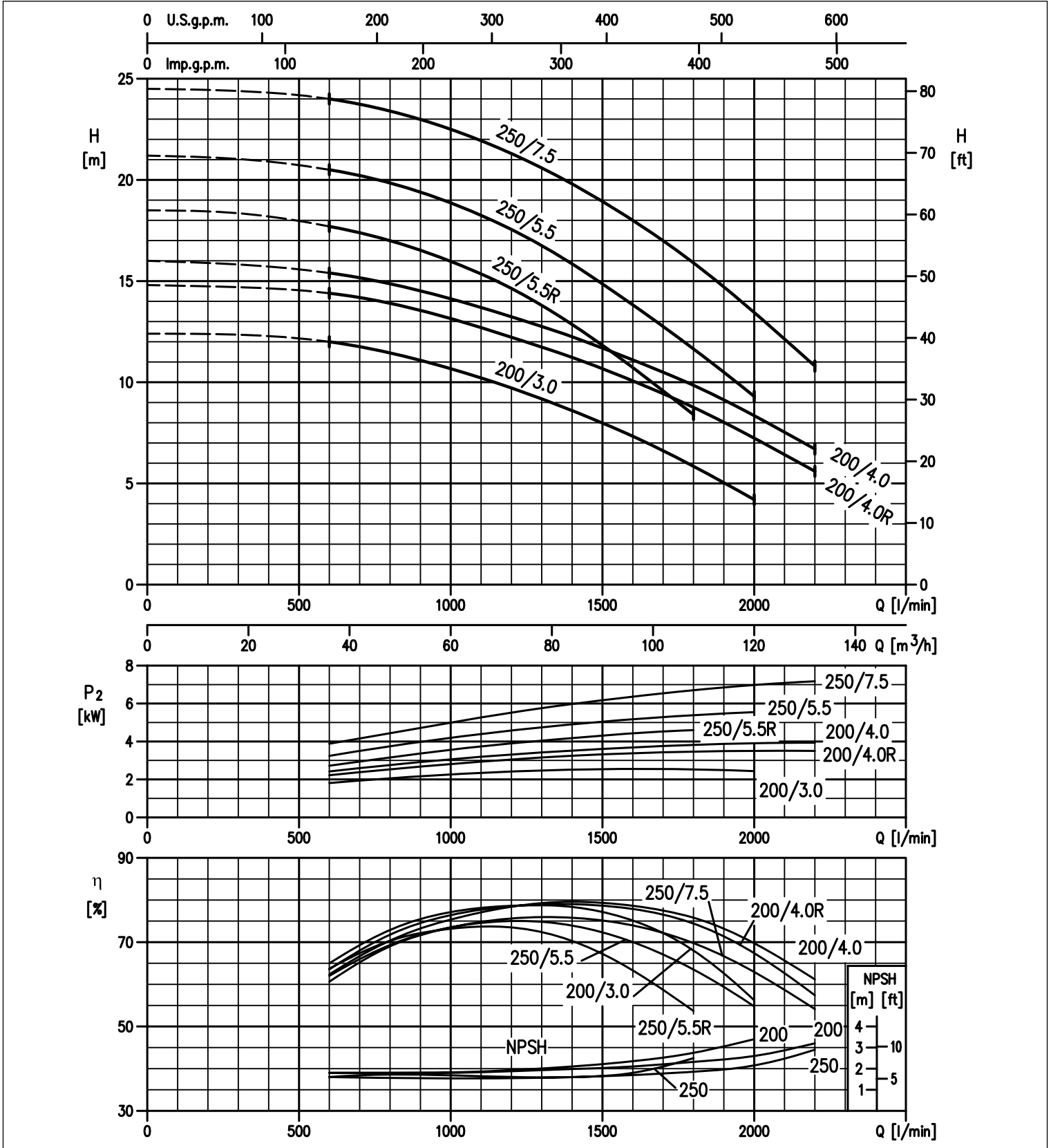


3 - 3L SERIES

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

PERFORMANCE CURVES 3L 80 SERIES at 1450 min⁻¹ (according to ISO 9906 Attachment A)

4 Poles



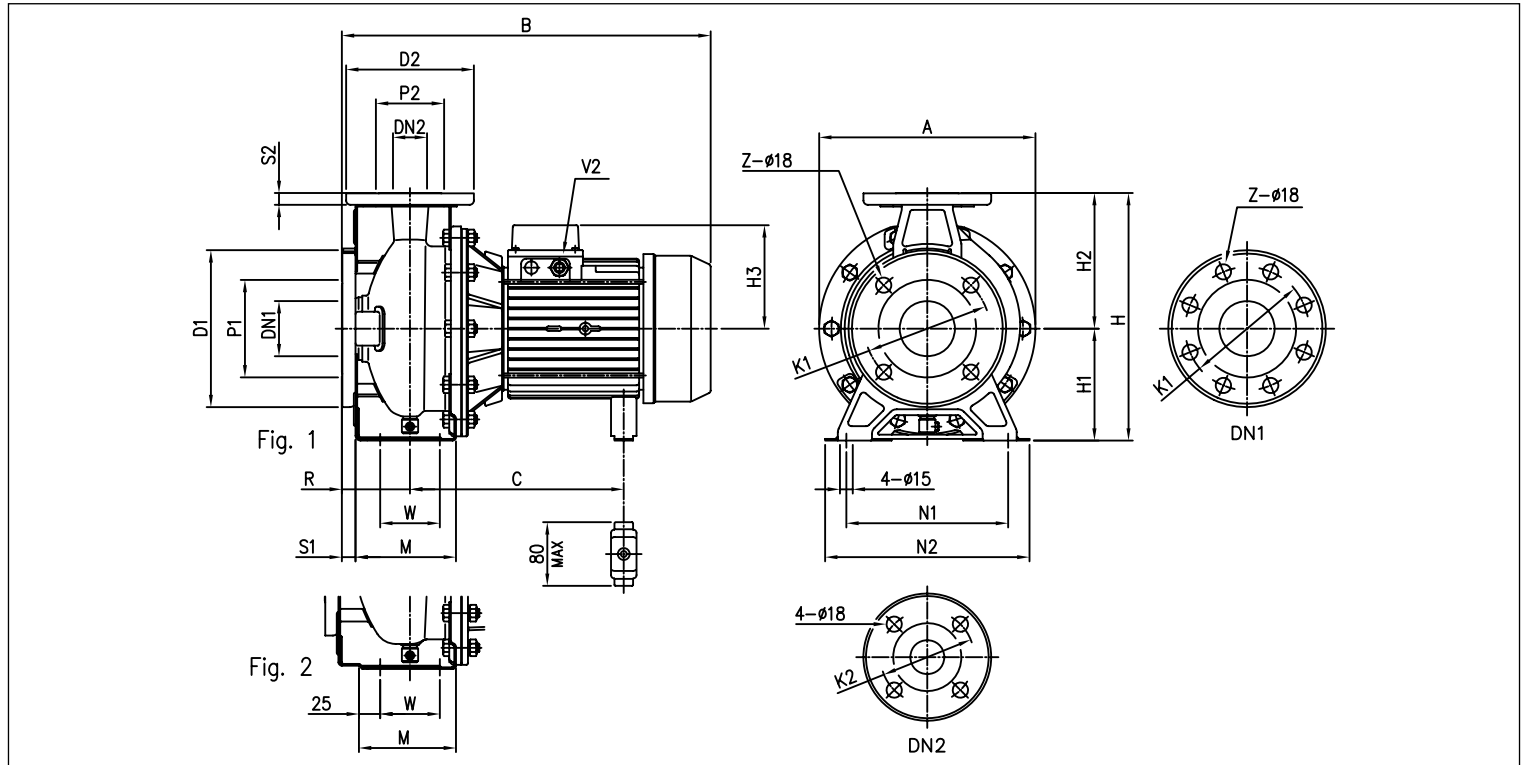
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3 - 3L SERIES

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

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

4 Poles



DIMENSIONAL TABLE

Model	Dimensions [mm]														V2	Weight [kg]											
	DN1 Ø	P1 Ø	K1	D1 Ø	S1	Z	DN2 Ø	P2 Ø	K2 Ø	D2 Ø	S2	Fig.	H	H1			H2	H3	R	W	M	N1	N2	A	B	C	
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

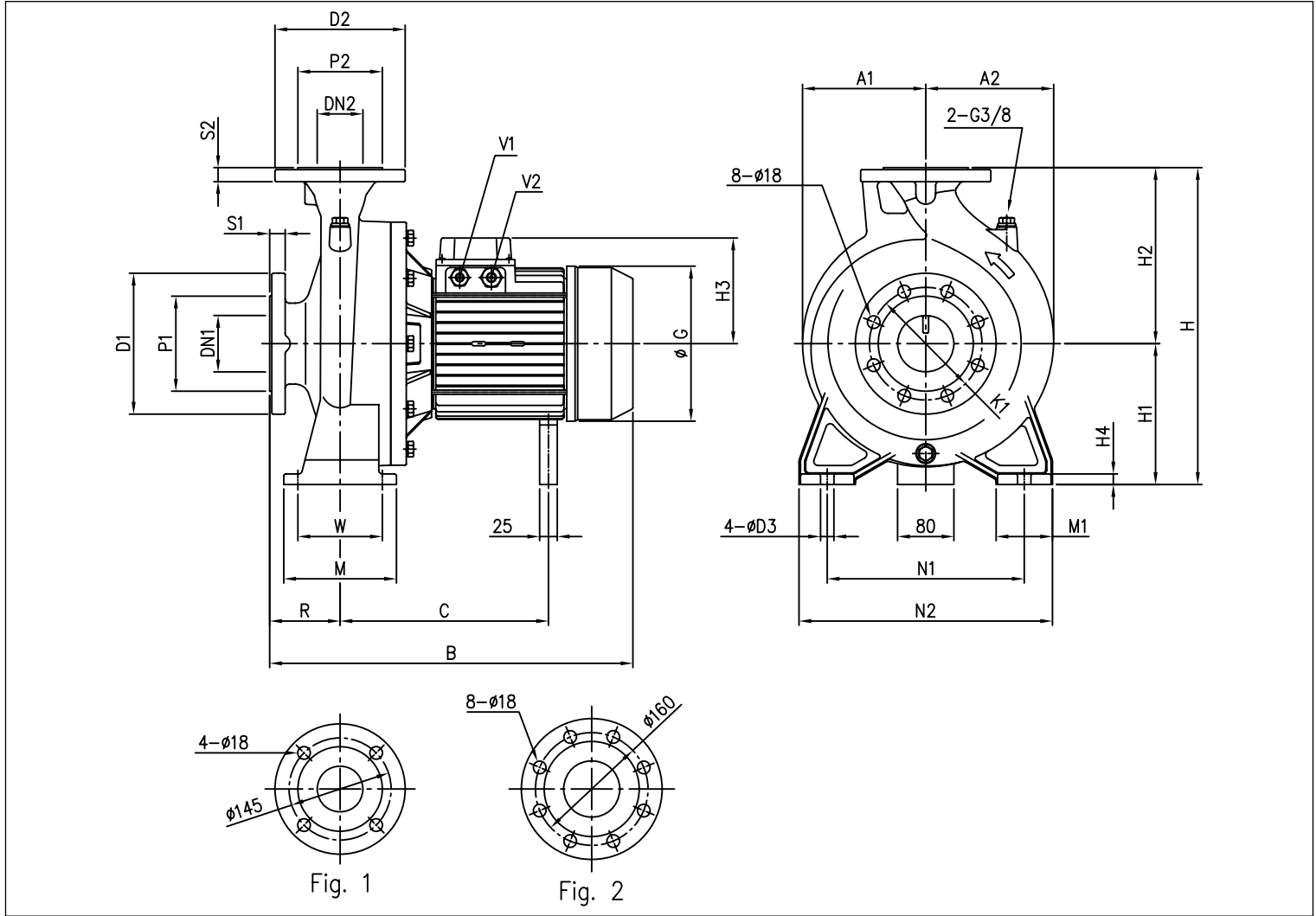
[1] Standard
[2] On request

3 - 3L SERIES

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



DIMENSIONAL TABLE

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

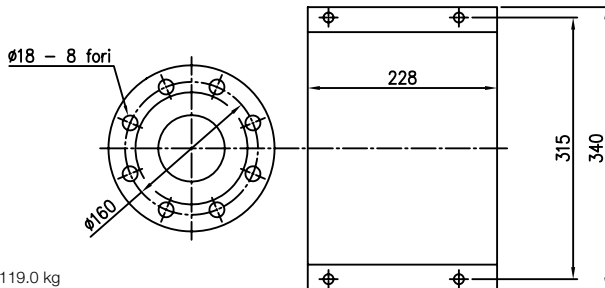
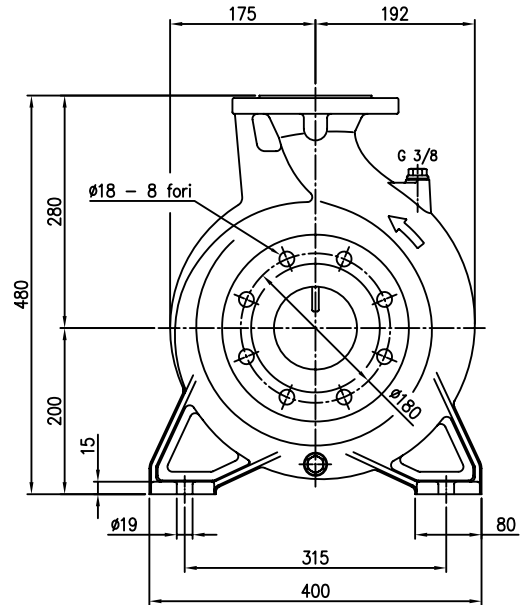
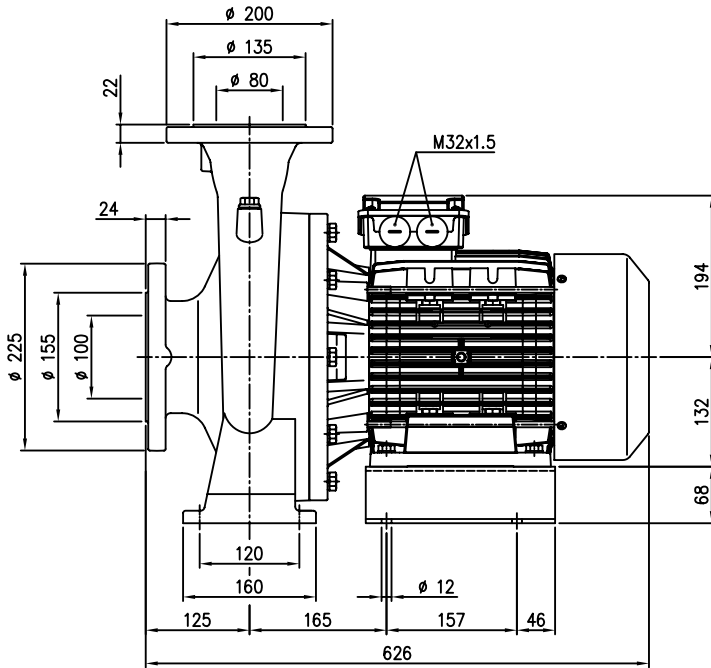
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3 - 3L SERIES

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

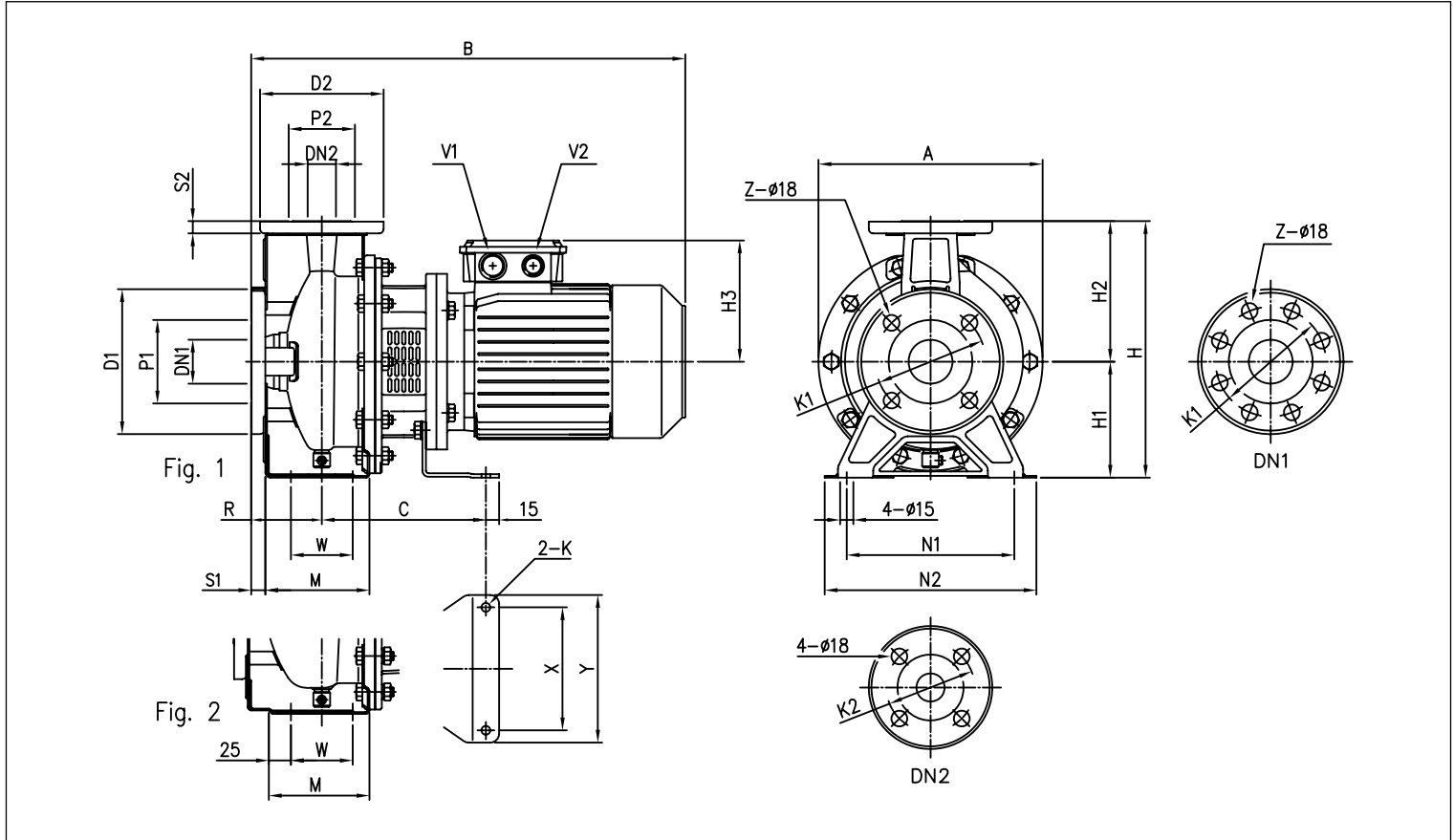
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3 - 3L SERIES

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



DIMENSIONAL TABLE

Modello	Dimensioni [mm]																								Peso [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
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	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	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	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	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	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	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	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
65-125/1.1	80	134	160	200	18	8	4	65	115	145	185	16	2	340	160	180	139	100	95	140	212	280	254	497	186	140	168	10	M25x1,5	M20x1,5	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	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	40,4

[1] Standard [2] On request

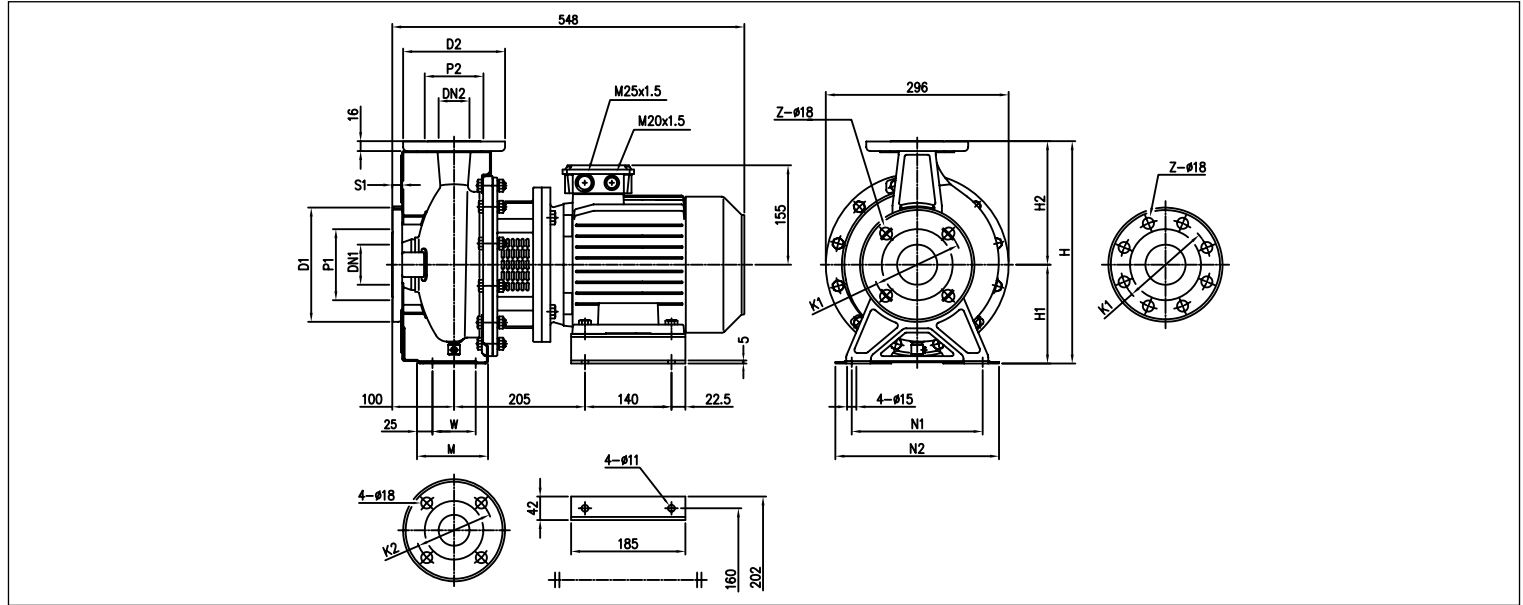
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3 - 3L SERIES

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

3(L)S4 50, 65 - 2.2 ÷ 3 kW

4 Poles



DIMENSIONAL TABLE

Modello	Dimensioni [mm]																			Peso [kg]
	DN1 Ø	P1 Ø	K1 Ø	D1 Ø	S1	Z	Z	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	43,4	
65-160/2.2	80	134	160	200	18	8	4	65	115	145	185	360	160	200	95	140	212	280	46,4	
65-200/2.2R	80	134	160	200	18	8	4	65	115	145	185	405	180	225	95	140	250	320	42,9	
65-200/2.2	80	134	160	200	18	8	4	65	115	145	185	405	180	225	95	140	250	320	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	

[1] Standard [2] On request

3 - 3L SERIES

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

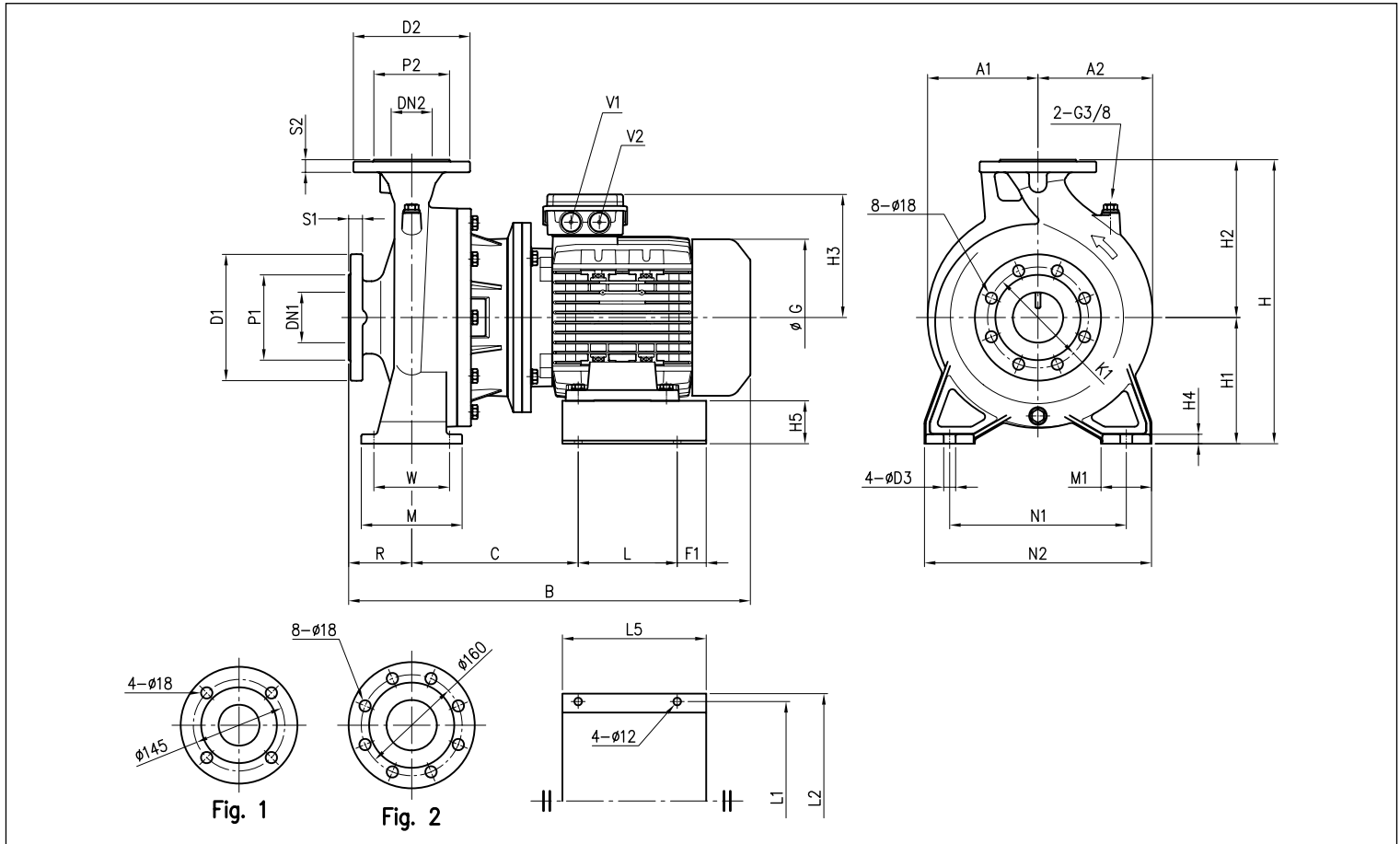


Fig. 1

Fig. 2

DIMENSIONAL TABLE

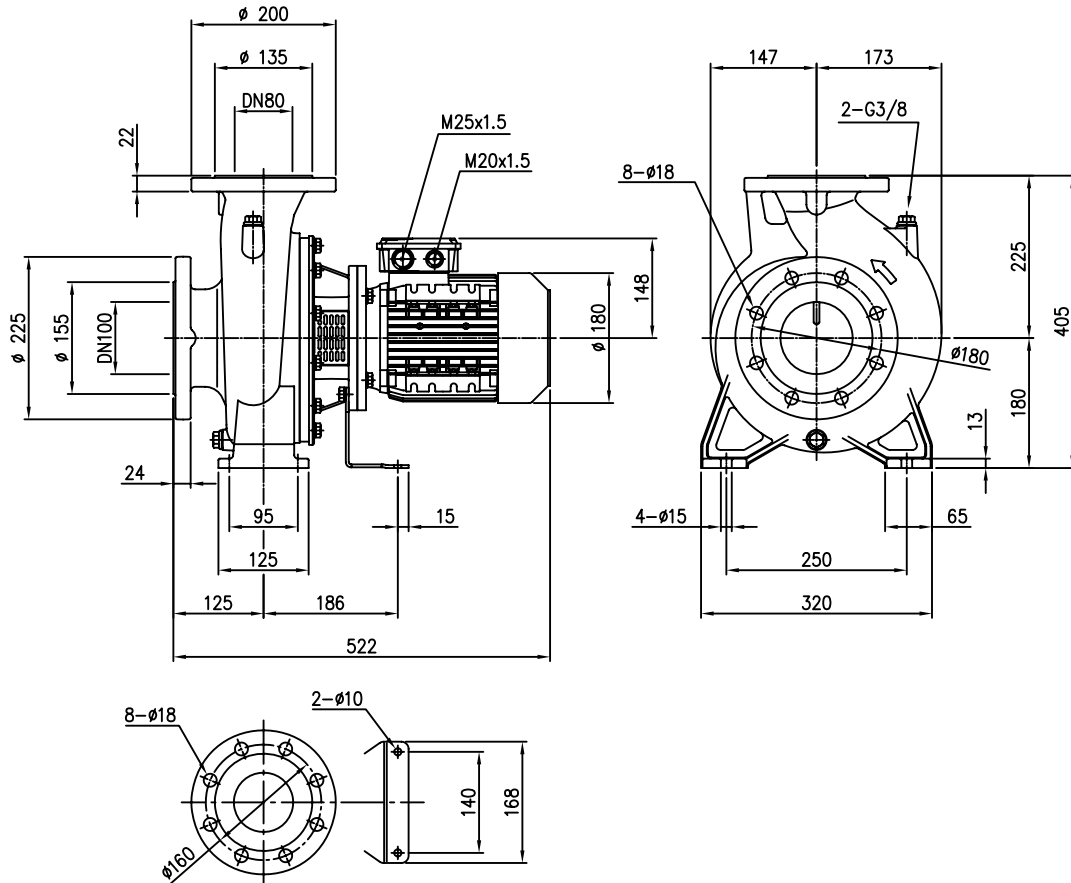
Modello	Dimensioni [mm]																							Peso [kg]											
	DN1	P1	K1	D1	S1	DN2	P2	D2	S2	H	H1	H2	H3	H4	H5	R	W	N1	N2	M	M1	L	L1		L2	L5	A1	A2	B	C	F1	G	D3	V1	V2
65-250/4	80	135	160	200	22	65 Fig. 1	120	185	20	450	200	250	171	15	88	100	120	280	360	160	80	147	265	290	187	175	182	580	215	20	225	19	M25x1,5	M20x1,5	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	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	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	70,4
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
80-200/4R	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	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	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	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	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

3 - 3L SERIES

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

3LS4 80-160/1.5

4 Poles



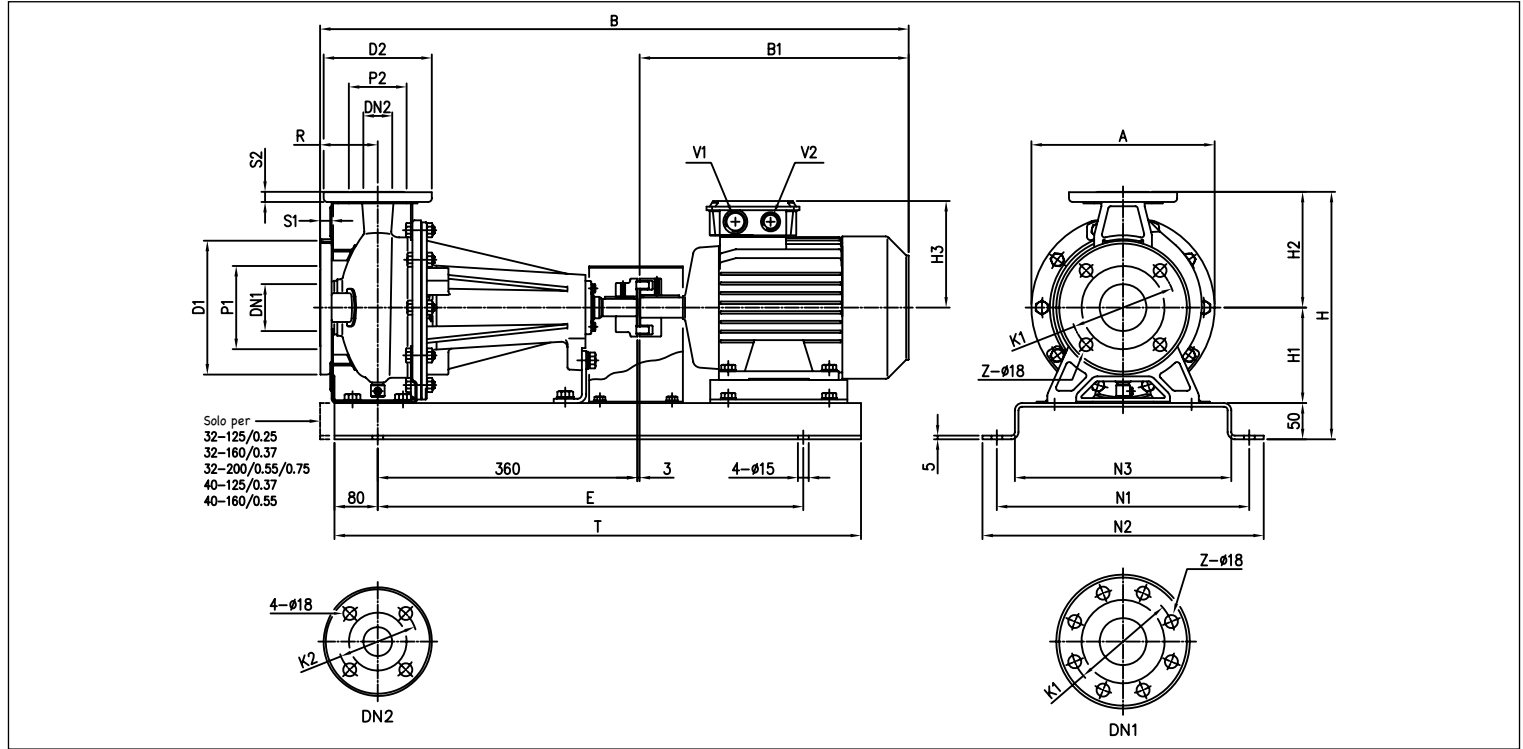
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3 - 3L SERIES

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



DIMENSIONAL TABLE

Modello	Dimensioni [mm]																				Peso [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
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	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	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	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	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	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	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	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	70,4
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
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	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	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	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	71,9
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	74,4
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	74,4
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

[1] Standard [2] On request

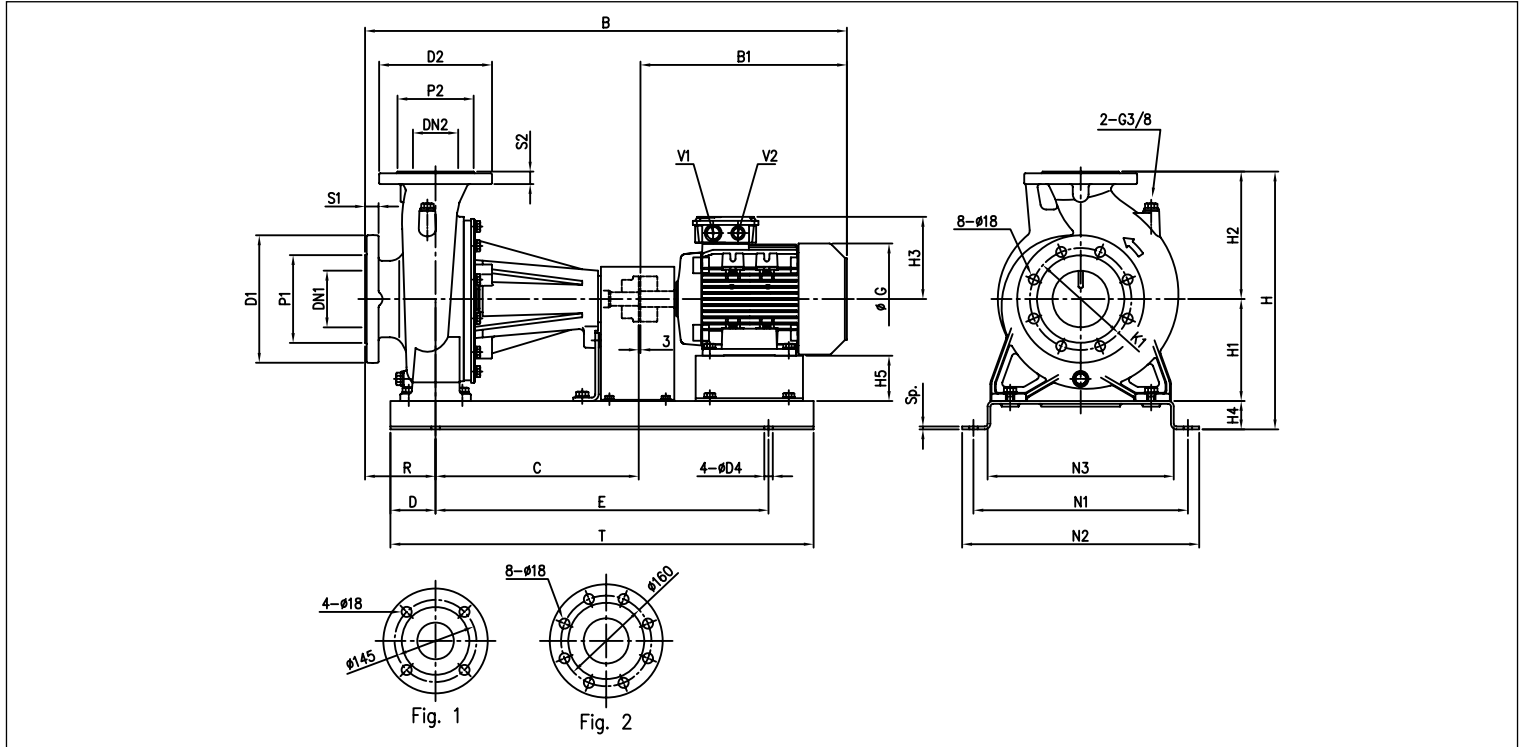
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3 - 3L SERIES

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

3LP4 65-250, 80

4 Poles



DIMENSIONAL TABLE

Modello	Dimensioni [mm]																										Peso [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	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	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	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	86,4
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	100,9
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
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	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	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	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	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

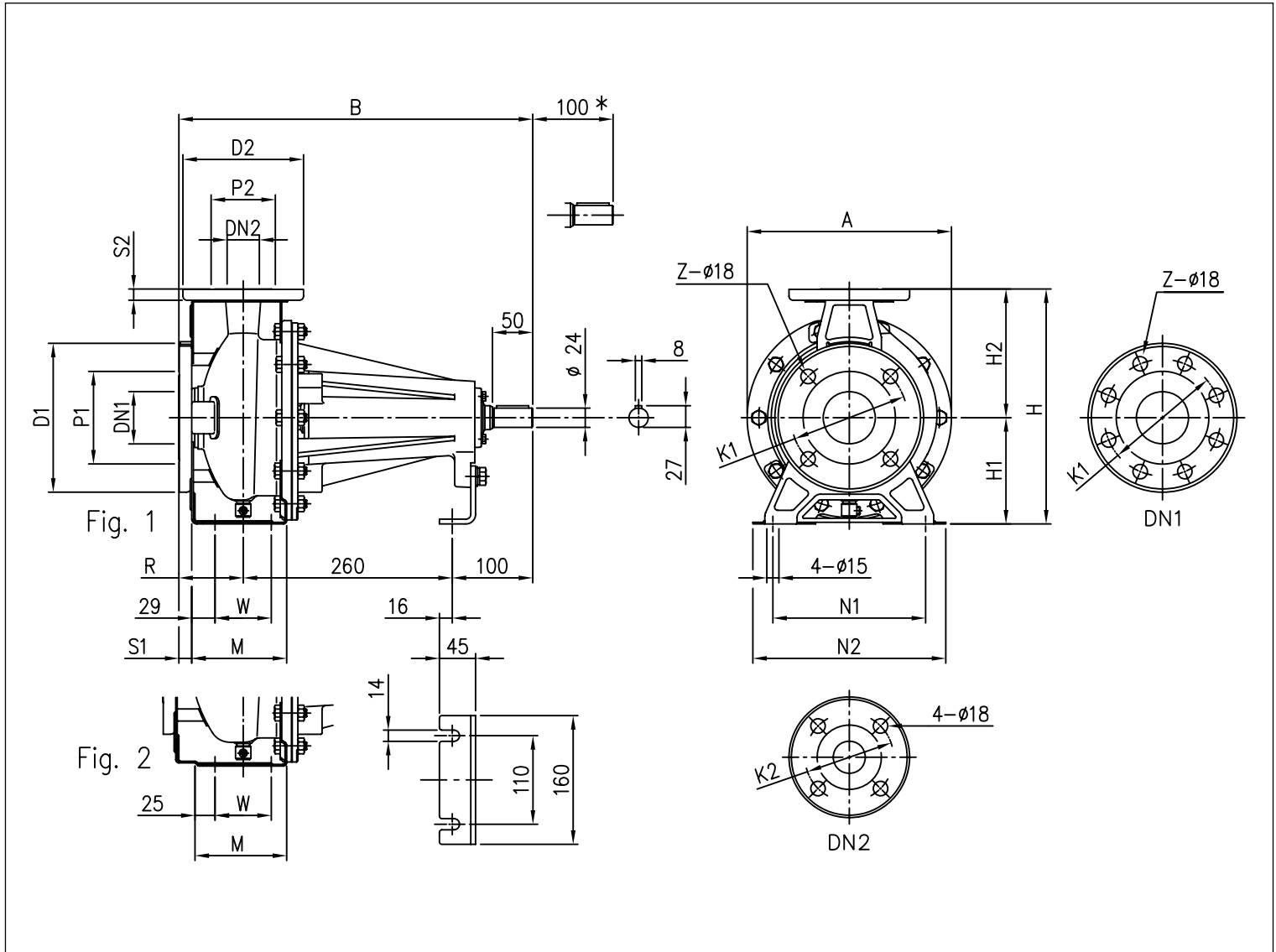
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3 - 3L SERIES

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

3(L)PF4 32, 40, 50, 65

4 Poles



DIMENSIONAL TABLE

Model	Fig.	Dimensions [mm]																			Weight [kg]			
		DN1	P1	K1	D1	S1	Z	[1]	[2]	DN2	P2	K2	D2	S2	H	H1	H2	M	N1	N2		R	W	A
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 where it is possible to disassemble the pump with spacer joint without disassembling the motor.

[1] Standard

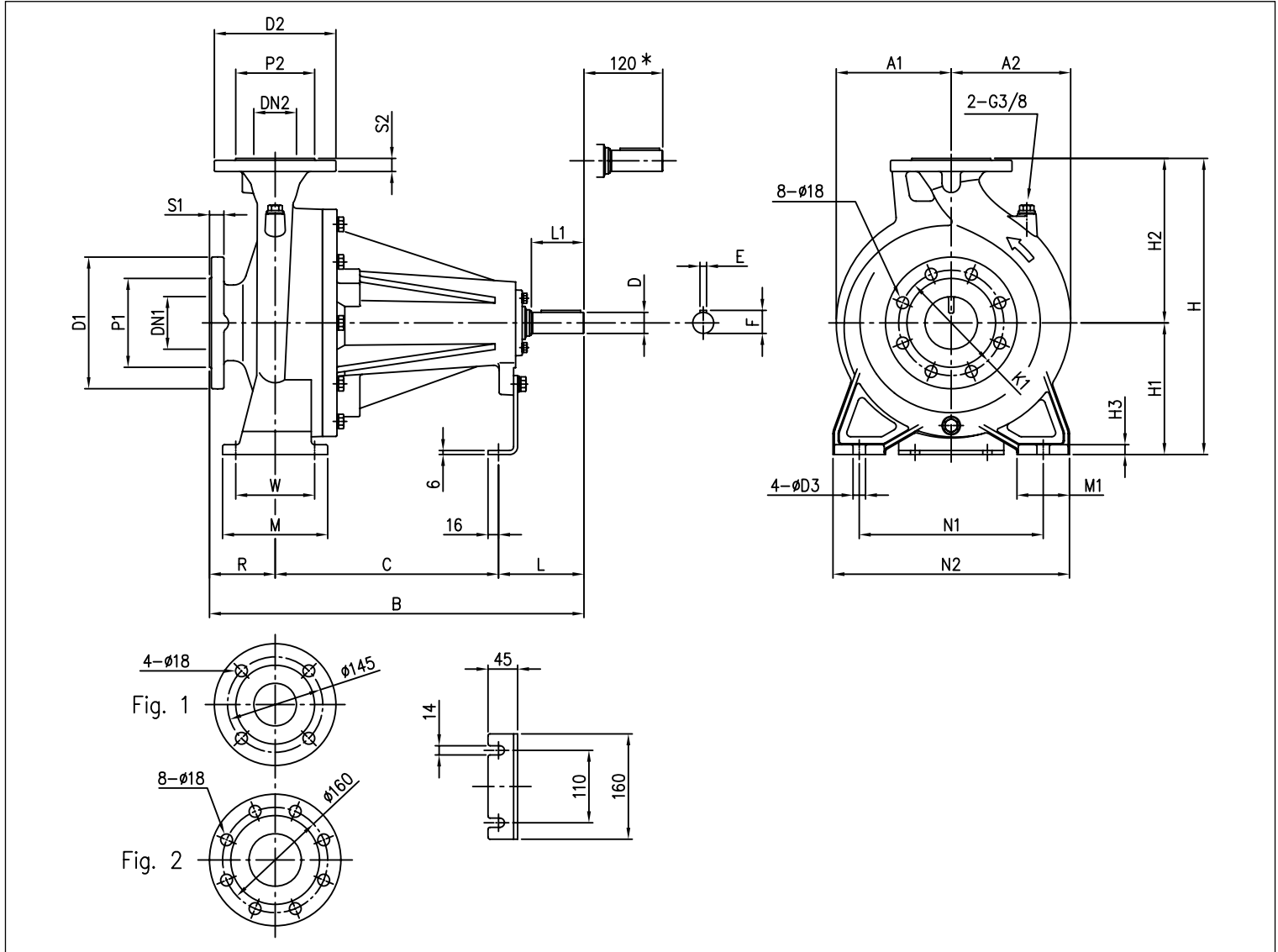
[2] On request

3 - 3L SERIES

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

3LPP4 65-250, 80

4 Poles



DIMENSIONAL TABLE

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

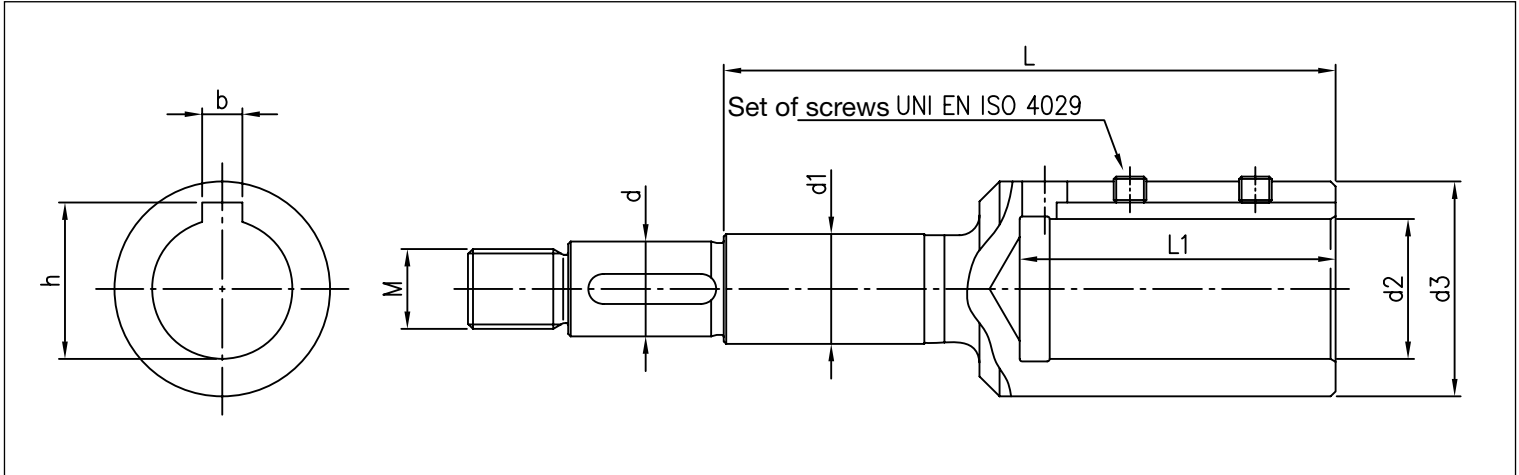
* Space where it is possible to disassemble the pump with spacer joint without disassembling the motor.

3 - 3L SERIES

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

JOINT FOR 3(L)S4 SERIES

4 Poles



DIMENSIONAL TABLE

Model	[HP]	[kW]	Motor size	Dimensions [mm]									
				d	d1	d2	d3	M	L	L1	b	h	Screws
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

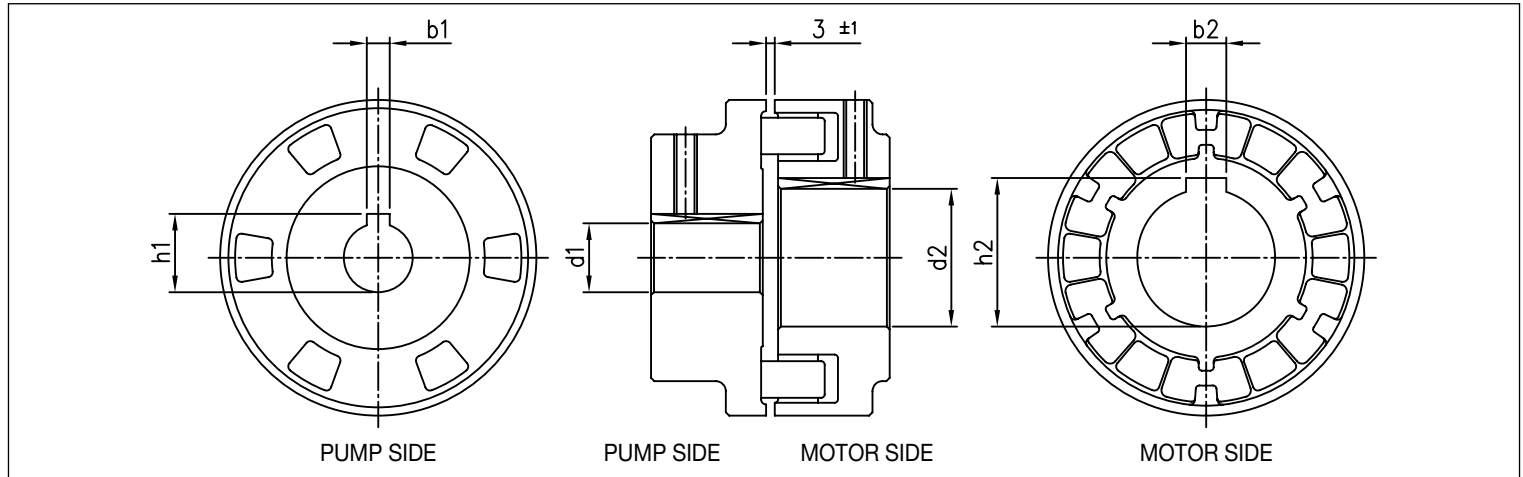
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3 - 3L SERIES

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

JOINT FOR 3(L)P4 SERIES

4 Poles



DIMENSIONAL TABLE

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

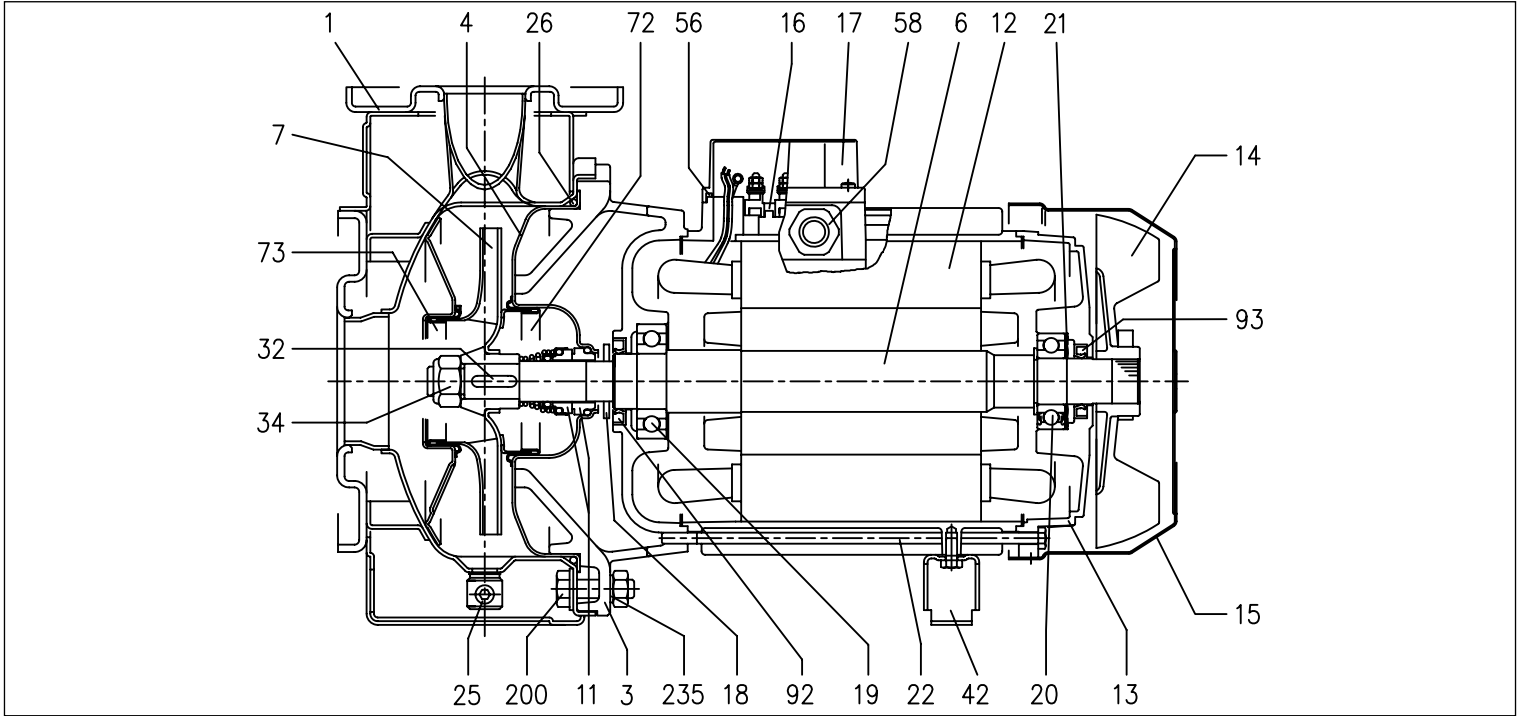
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3 - 3L SERIES

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

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

4 Poles



MATERIALS TABLE

Ref.	Name	Materials	
		3M4	3LM4
001	Pump casing	EN 1.4301 (AISI 304)	EN 1.4404 (AISI 316L)
003	Motor bracket		[2]
004	Casing cover	EN 1.4301 (AISI 304)	EN 1.4404 (AISI 316L)
006	Shaft (part in contact with the liquid)	EN 1.4301 (AISI 304)	EN 1.4404 (AISI 316L)
007	Impeller 32, 40, 50 65-125/160/200	EN 1.4301 (AISI 304)	EN 1.4404 (AISI 316L)
011	Mechanical seal	Carbon/Ceramic/NBR	Silicon Carbide/Silicon Carbide/FKM
012	Motor frame		Aluminium
013	Motor cover		PA
014	Fan		Galvanised steel Fe P04
015	Fan cover		-
016	Terminal Box		Aluminium (three phase version)
017	Terminal Box cover		-
018	Splash washer	NBR	-
019	Bearing (pump side)		-
020	Bearing (motor side)		-
021	Adjustment ring		Steel C70
022	Tie-rod		Galvanised steel Fe 42
025	Plug		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	Motor support		Aluminium / Galvanised steel
056	Terminal box cover gasket		NBR
058	Cable gland		-
072	Casing ring [1]	EN 1.4301 (AISI 304)	EN 1.4404 (AISI 316L)
073	Casing ring	EN 1.4301 (AISI 304)	EN 1.4404 (AISI 316L)
092	Seal ring	-	-
093	Seal ring	-	-
200	Screw (pump body)		Stainless steel A2 70 class ISO 3506/1
235	Washer		EN 1.4301 (AISI 304)

[1]= For 32-200, 40-200, 50-160, 50-200 versions

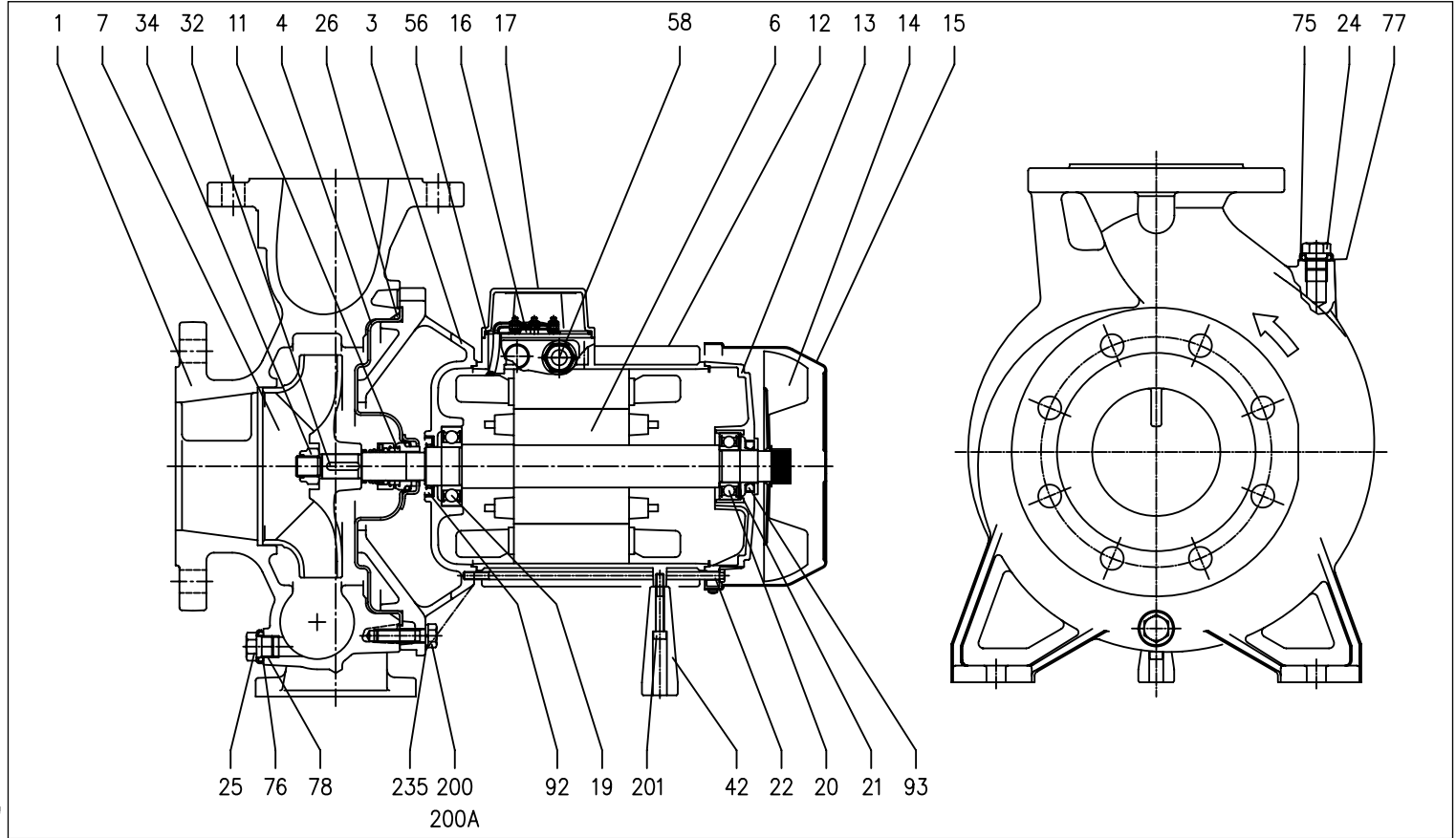
[2]= Cast iron EEN-GJL-200-EN 1561 per 32-200/3 and for models with 15, 18.5 and 22 kW motors
Aluminium AL-EN-1706-AC-46000-D for the other models

3 - 3L SERIES

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

SECTIONAL VIEW 3LM4 80-160 SERIES

4 Poles



MATERIALS TABLE

Ref.	Name	Materials	Ref.	Name	Materials
001	Pump casing	EN 1.4401 (AISI 316)	025	Plug	EN 1.4404 (AISI 316L)
003	Motor bracket	Cast iron EN-GJL-200-EN 1561	026	O-Ring	FKM
004	Casing cover	EN 1.4404 (AISI 316L)	032	Key	EN 1.4404 (AISI 316L)
006	Shaft	EN 1.4404 (AISI 316L) Part in contact with the liquid	034	Impeller nut	EN 1.4404 (AISI 316L)
007	Impeller	EN 1.4401 (AISI 316)	042	Motor support	Aluminium
011	Mechanical seal	Silicon Carbide/Silicon Carbide/FKM	056	Terminal box cover gasket	NBR
012	Motor frame	-	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	Galvanised steel Fe P04	077	O-Ring	FKM [1]
016	Terminal Box	-	078	O-Ring	
017	Terminal Box cover	Aluminium	092	Seal ring	-
019	Bearing (pump side)	-	093	Seal ring	-
020	Bearing (motor side)	-	200	Screw (pump body)	Stainless steel A2-70/1 class ISO 3506/1
021	Adjustment ring	Steel C70	201	Foot screw	Stainless steel A2-70/1 class ISO 3506/1
022	Tie-rod	Galvanised steel Fe 42	235	Washer	EN 1.4301 (AISI 304)
024	Plug	EN 1.4404 (AISI 316L)			

[1]= EPDM for E version

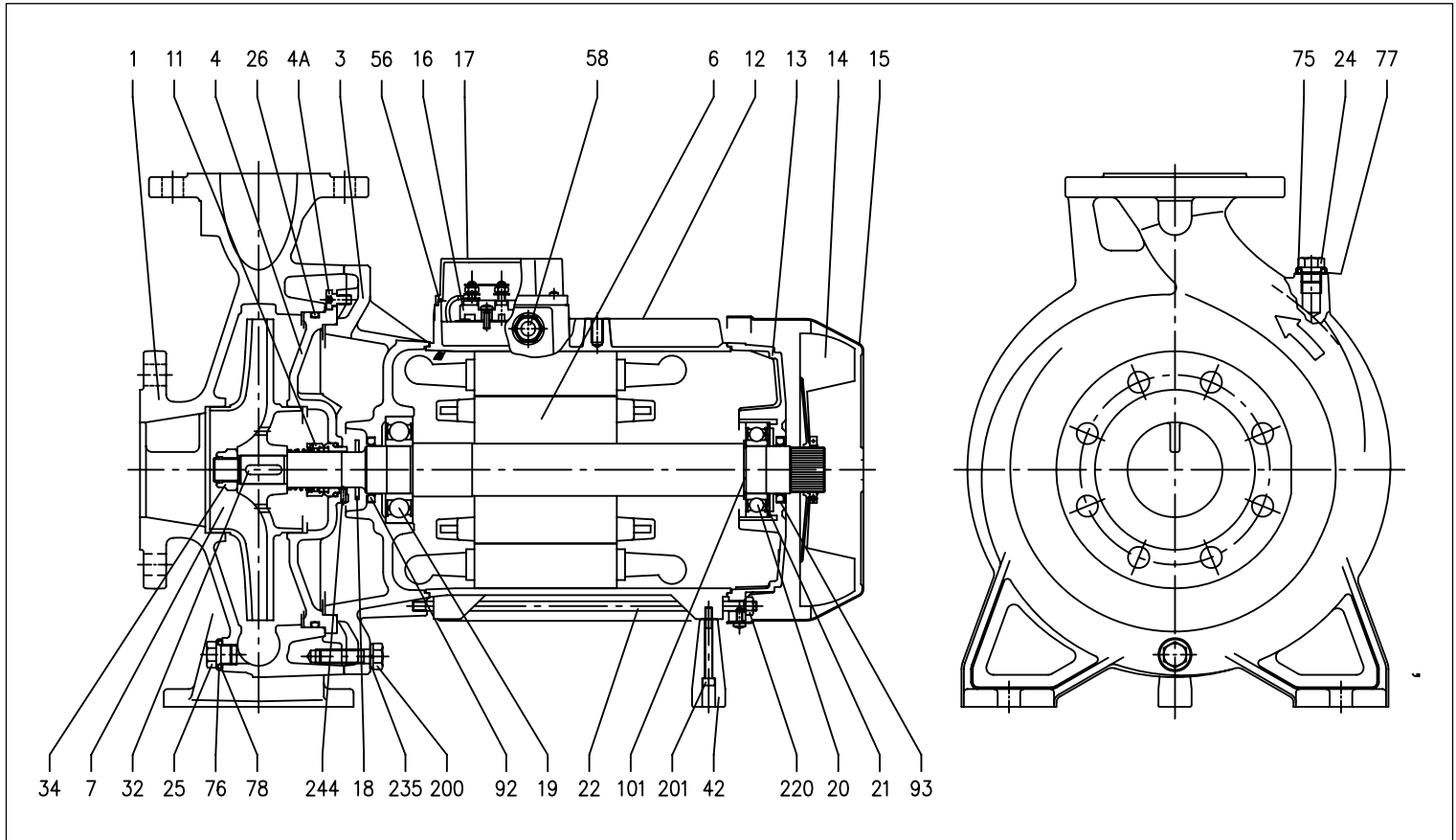
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3 - 3L SERIES

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

SECTIONAL VIEW 3LM4 65-250, 80 SERIES

4 Poles



MATERIALS TABLE

Ref.	Name	Materials	Ref.	Name	Materials
001	Pump casing	EN 1.4401 (AISI 316)	032	Key	EN 1.4404 (AISI 316L)
003	Motor bracket	Cast iron EN-GJL-200-EN 1561	034	Impeller nut	Aluminium
004	Casing cover	EN 1.4401 (AISI 316)	042	Motor support	Aluminium
004A	Casing cover screw	EN 1.4301 (AISI 304)	056	Terminal box cover gasket	NBR
006	Shaft	EN 1.4404 (AISI 316L) Part in contact with the liquid	058	Cable gland	-
007	Impeller	EN 1.4401 (AISI 316)	075	Washer	EN 1.4404 (AISI 316L)
011	Mechanical seal	Silicon Carbide/Silicon Carbide/FKM	076	Washer	
012	Motor frame	-	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	Galvanised steel Fe P04			
016	Terminal Box	-	093	Seal ring (3 kW, 4 kW, 5.5 kW)	-
017	Terminal Box cover	Aluminium			
018	Splash washer	NBR	101	Seeger ring (only for 5.5 kW)	Carbon steel TC 80
019	Bearing (pump side)	-	200	Screw (pump body)	Stainless steel A2-70/1 class ISO 3506/1
020	Bearing (motor side)	-	201	Foot screw	Stainless steel A2-70/1 class ISO 3506/1
021	Adjustment ring	Steel C70	220	Tie-rod nut	Galvanised steel
022	Tie-rod	Galvanised steel Fe 42	235	Washer	EN 1.4301(AISI 304)
024	Plug	EN 1.4404 (AISI 316L)	244	Plug [1]	EN 1.4301(AISI 304)
025	Plug	EN 1.4404 (AISI 316L)			
026	O-Ring	FKM			

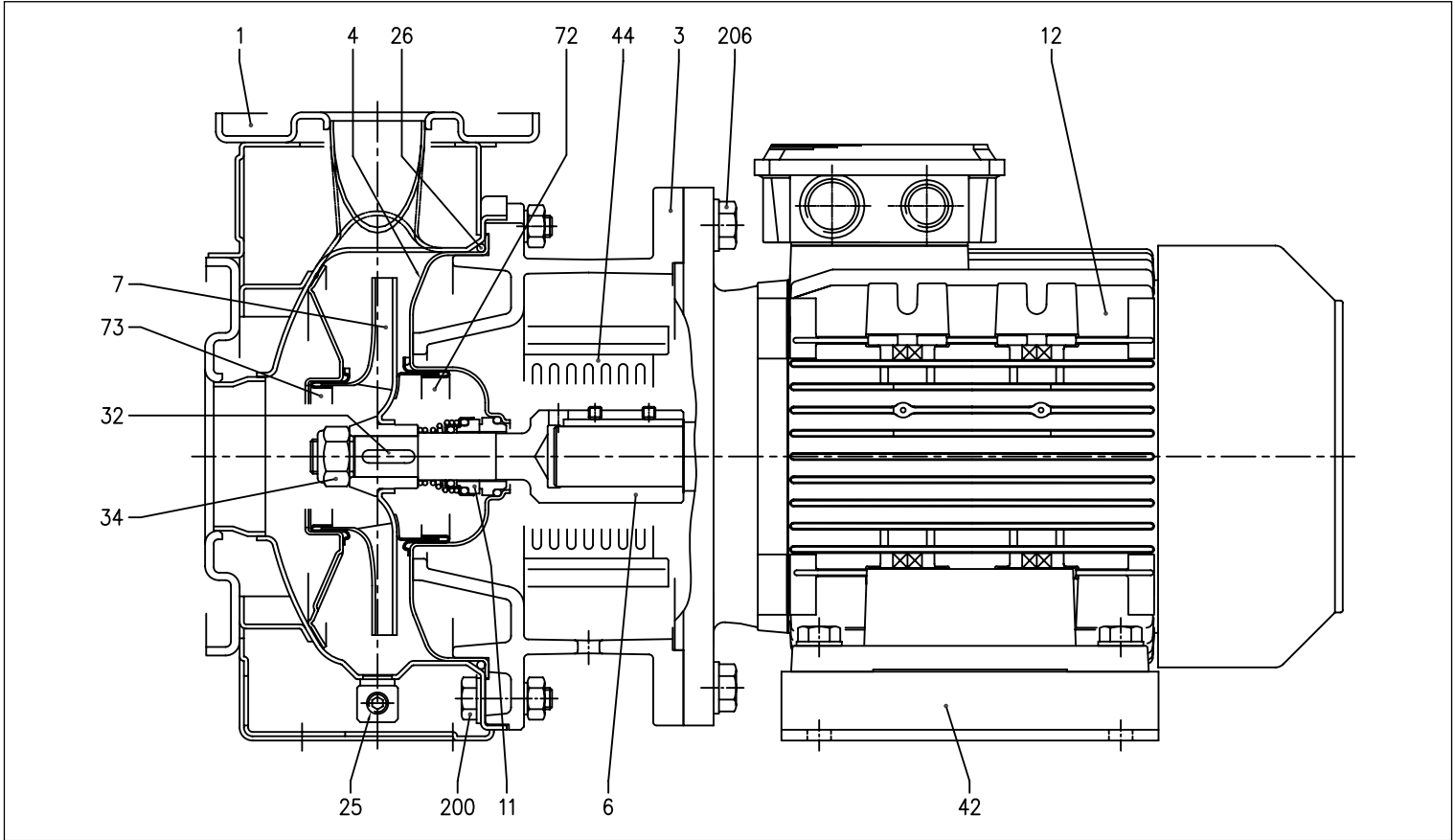
[1]= Not for H, HW, HSW and E versions
[2]= EPDM for E version

3 - 3L SERIES

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

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

4 Poles



MATERIALS TABLE

Ref.	Name	Materials	
		3S4	3LS4
001	Pump casing	EN 1.4301 (AISI 304)	EN 1.4404 (AISI 316L)
003	Motor bracket	Cast iron EN-GJL-200-EN 1561	
004	Casing cover	EN 1.4301 (AISI 304)	EN 1.4404 (AISI 316L)
006	Joint - Part in contact with the liquid	EN 1.4301 (AISI 304)	EN 1.4404 (AISI 316L)
007	Impeller	EN 1.4301 (AISI 304)	EN 1.4404 (AISI 316L)
		32, 40, 50	65-125/160/200
011	Mechanical seal	Carbon/Ceramic/NBR	Silicon Carbide/Silicon Carbide/FKM
012	Motor	-	
025	Plug	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	Motor support	Galvanised steel	
044	Support protection	EN 1.4301 (AISI 304)	
072	Casing ring [1]	EN 1.4301 (AISI 304)	EN 1.4404 (AISI 316L)
073	Casing ring	EN 1.4301 (AISI 304)	EN 1.4404 (AISI 316L)
200	Screw (pump body)	Stainless steel A2 70 class ISO 3506/1	
206	Screw	Galvanised steel	

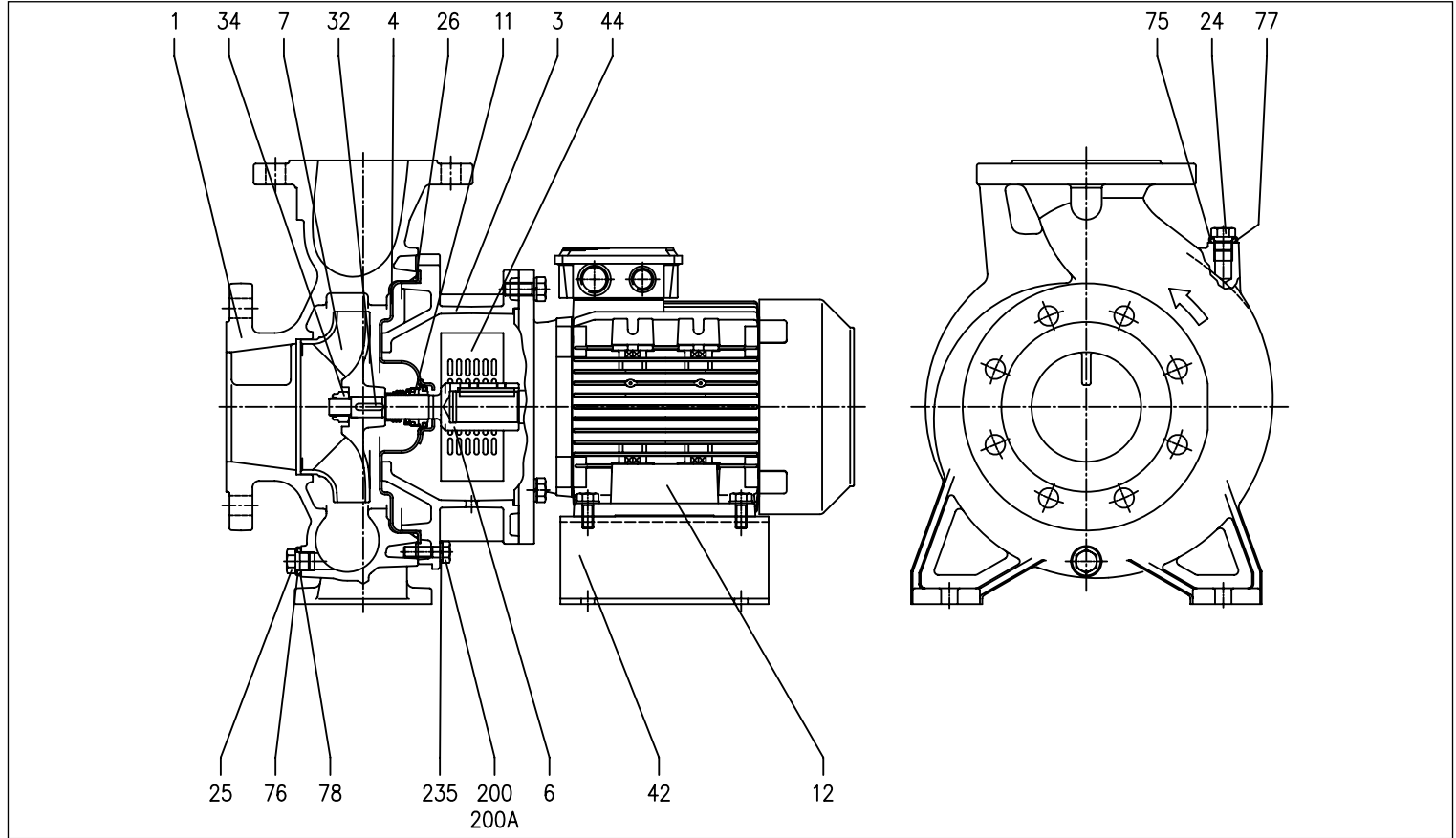
[1]= For 32-200, 40-200, 50-160, 50-200 versions only
 [2] = FPM for H-HS-HW-HSW versions, EPDM for E version

3 - 3L SERIES

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

SECTIONAL VIEW 3LS4 80-160 SERIES

4 Poles



MATERIALS TABLE

Ref.	Name	Materials	Ref.	Name	Materials
001	Pump casing	EN 1.4401 (AISI 316)	032	Key	EN 1.4401 (AISI 316)
003	Motor bracket	Cast iron EN-GJL-200-EN 1561	034	Impeller nut	EN 1.4404 (AISI 316L)
004	Casing cover	EN 1.4404 (AISI 316L)	042	Motor support	Galvanised steel
006	Joint	EN 1.4404 (AISI 316L)	044	Support protection	EN 1.4301 (AISI 304)
007	Impeller	EN 1.4401 (AISI 316)	075	Washer	EN 1.4404 (AISI 316L)
011	Mechanical seal	Silicon Carbide/Silicon Carbide/FKM	076	Washer	
012	Motor	-	077	O-Ring	FKM [1]
024	Plug	EN 1.4404 (AISI 316L)	078	O-Ring	
025	Plug	EN 1.4404 (AISI 316L)	200	Screw (pump body)	Stainless steel A2-70/1 class ISO 3506/1
026	O-Ring	FKM [1]	235	Washer	EN 1.4301(AISI 304)

[1]= EPDM for E version

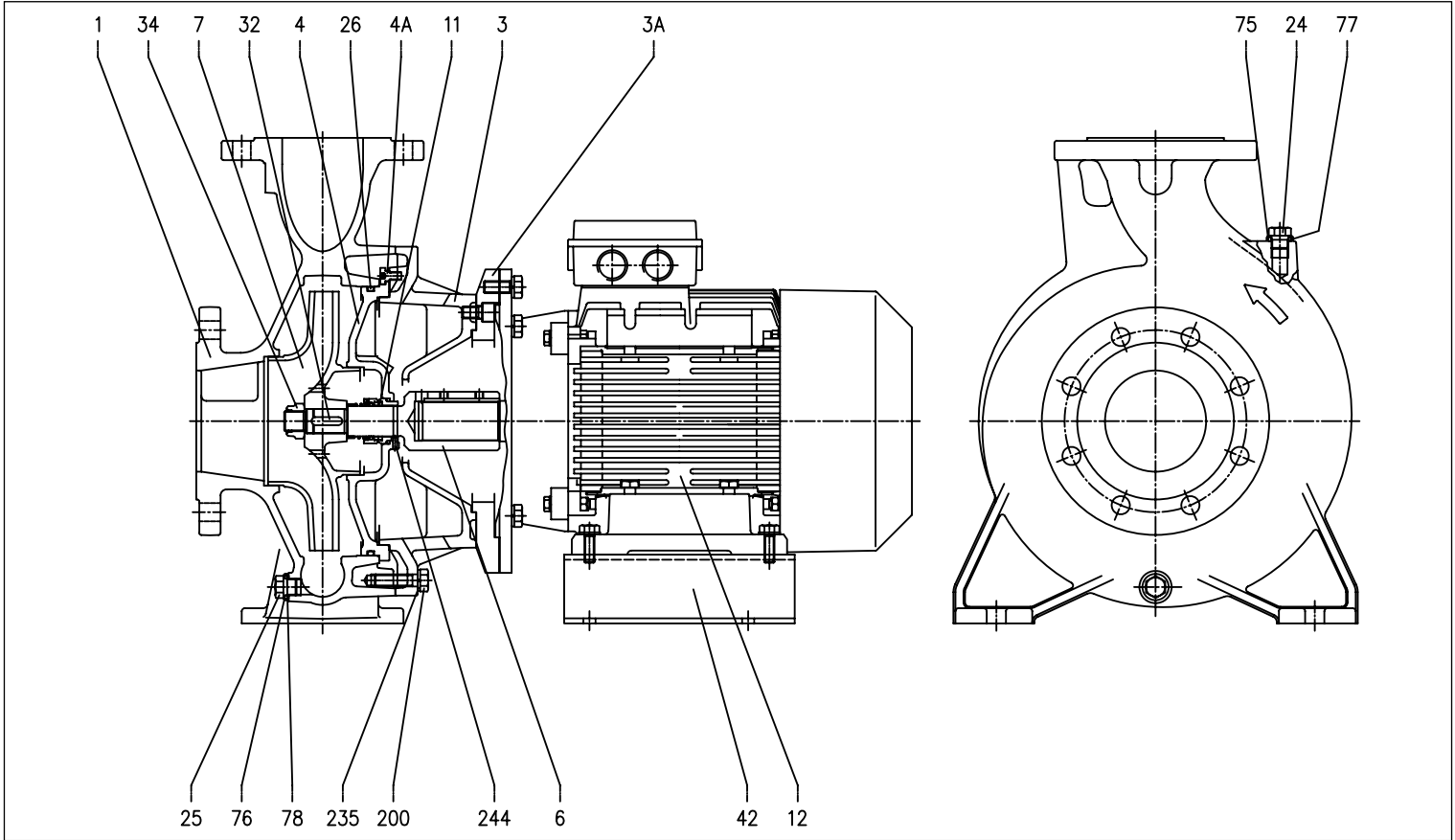
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3 - 3L SERIES

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

SECTIONAL VIEW 3LS4 65-250, 80 SERIES

4 Poles



MATERIALS TABLE

Ref.	Name	Materials	Ref.	Name	Materials
001	Pump casing	EN 1.4401 (AISI 316)	032	Key	EN 1.4401 (AISI 316)
003	Motor bracket	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 bracket	Galvanised steel
004	Casing cover	EN 1.4401 (AISI 316)	075	Washer	EN 1.4404 (AISI 316L)
004A	Casing cover screw disc	EN 1.4301 (AISI 304)	076	Washer	
006	Joint	EN 1.4404 (AISI 316L)	077	O-Ring	FKM [3]
007	Impeller	EN 1.4401 (AISI 316)	078	O-Ring	
011	Mechanical seal	Silicon Carbide/Silicon Carbide/FKM	200	Screw (pump body)	Stainless steel A2-70/1 class ISO 3506/1
012	Motor	-	235	Washer	
024	Plug	EN 1.4404 (AISI 316L)	244	Plug [2]	EN 1.4301 (AISI 304)
025	Plug	EN 1.4404 (AISI 316L)			
026	O-Ring	FKM [3]			

[1] = For 65-250/5.5 kW only

[2] = Not for H-HW-HSW and E versions

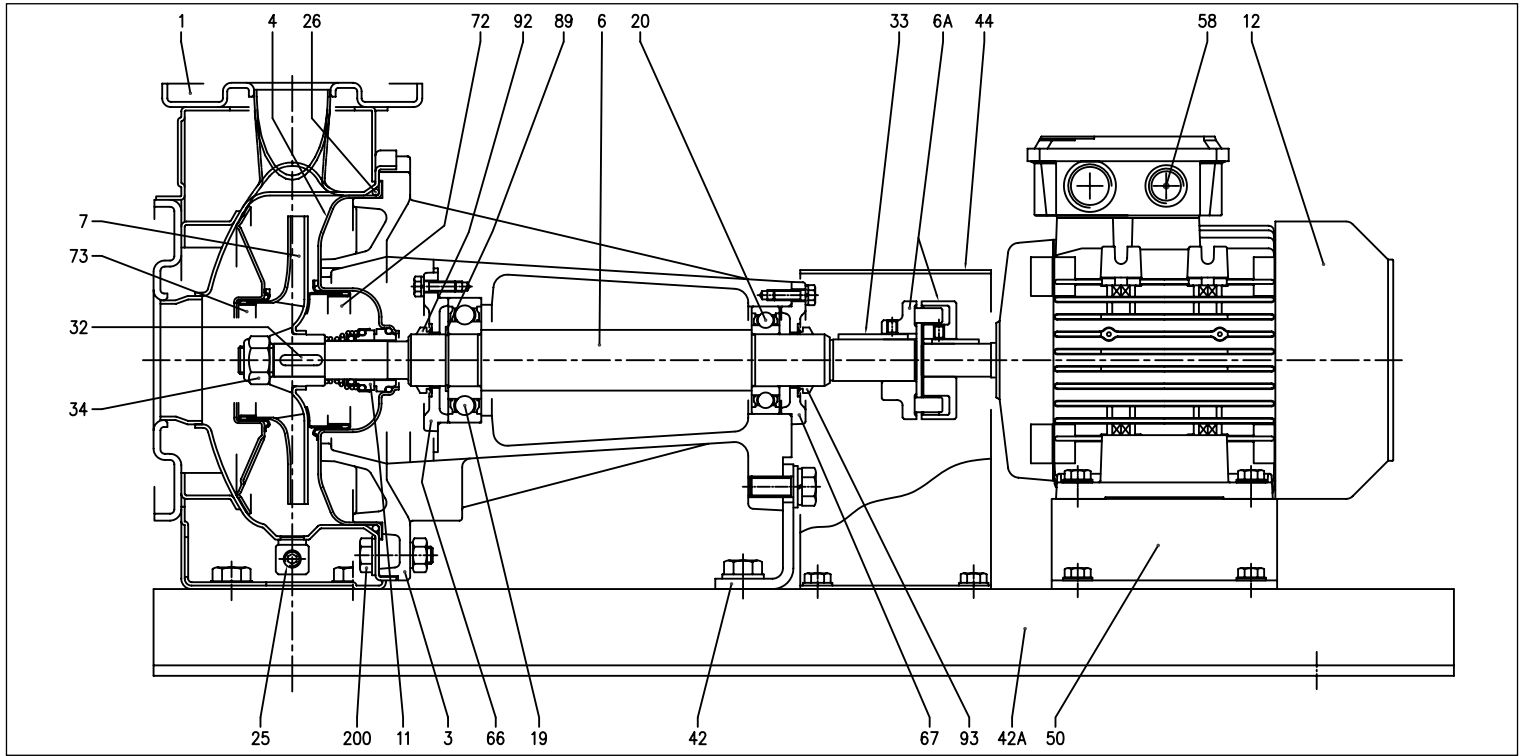
[3] = EPDM for E version

3 - 3L SERIES

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

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

4 Poles



MATERIALS TABLE

Ref.	Name	Materials	
		3P4	3LP4
001	Pump casing	EN 1.4301 (AISI 304)	EN 1.4404 (AISI 316L)
003	Motor bracket	Cast iron EN-GJL-200-EN 1561	
004	Casing cover	EN 1.4301 (AISI 304)	EN 1.4404 (AISI 316L)
006	Shaft - Part in contact with the liquid	EN 1.4301 (AISI 304)	EN 1.4404 (AISI 316L)
006A	Flexible joint	Cast iron EN-GJL-200-EN 1561	
007	Impeller	EN 1.4301 (AISI 304)	EN 1.4404 (AISI 316L)
011	Mechanical seal	Carbon/Ceramic/NBR	Silicon Carbide/Silicon Carbide/FKM
012	Motor	-	
019	Bearing (pump side)	-	
020	Bearing (motor side)	-	
025	Plug	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	Motor support	Galvanised steel	
042A	Base	Galvanised steel	
044	Protection	Galvanised steel	
050	Motor bracket	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	Casing ring [1]	EN 1.4301 (AISI 304)	EN 1.4404 (AISI 316L)
073	Casing ring	EN 1.4301 (AISI 304)	EN 1.4404 (AISI 316L)
089	Seeger ring	Carbon steel TC 80	
092	V Ring	-	
093	V Ring	-	
200	Screw (pump body)	Stainless steel A2 70 class ISO 3506/1	

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

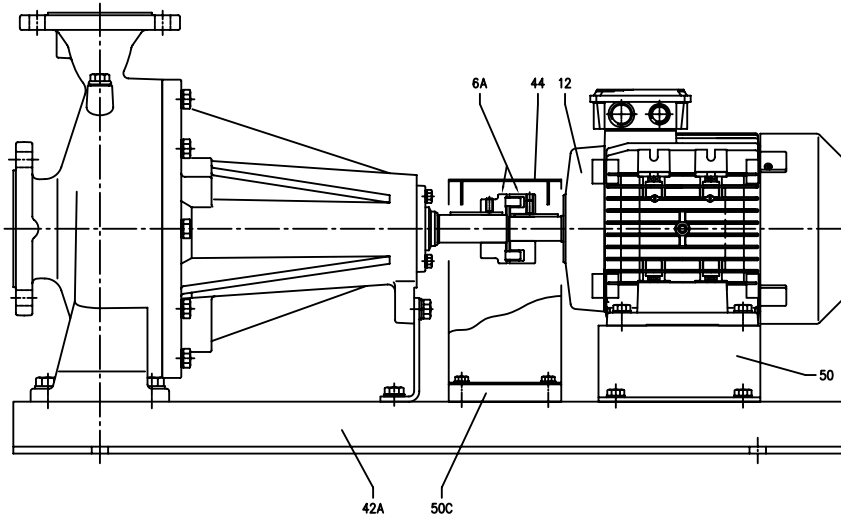
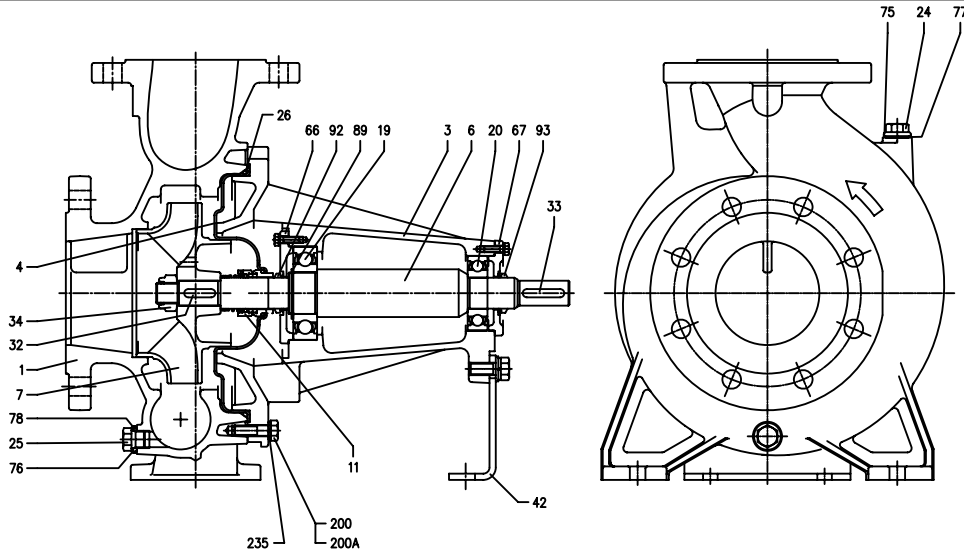
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3 - 3L SERIES

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

SECTIONAL VIEW 3LP4 80-160 SERIES

4 Poles



MATERIALS TABLE

Ref.	Name	Materials	Ref.	Name	Materials
001	Pump casing	EN 1.4401 (AISI 316)	042	Pump support	Galvanised steel
003	Motor bracket	Cast iron EN-GJL-200-EN 1561	042A	Base	Galvanised steel
004	Casing cover	EN 1.4404 (AISI 316L)	044	Protection	Galvanised steel
006	Shaft	EN 1.4404 (AISI316L) Part in contact with the liquid	050	Motor bracket	Galvanised steel
006A	Flexible joint	Cast iron EN-GJL-200-EN 1561	050C	Joint protection [2]	Aluminium
007	Impeller	EN 1.4401 (AISI 316)	066	Bearing cover	Cast iron EN-GJL-200-EN 1561
011	Mechanical seal	Silicon Carbide/Silicon Carbide/FKM	067	Bearing cover	Cast iron EN-GJL-200-EN 1561
012	Motor	-	075	Washer	EN 1.4404 (AISI 316L)
019	Bearing (pump side)	-	076	Washer	
020	Bearing (motor side)	-	077	O-Ring	FKM [1]
024	Plug	EN 1.4404 (AISI 316L)	078	O-Ring	
025	Plug	EN 1.4404 (AISI 316L)	089	Seeger ring	Carbon steel TC 80
026	O-Ring	FKM [1]	092	V Ring	-
032	Key	EN 1.4401 (AISI 316)	093	V Ring	-
033	Key	C 40	200	Screw (pump body)	Stainless steel A2 70 class ISO 3506/1
034	Impeller nut	EN 1.4404 (AISI 316L)	200A	Screw	Stainless steel A2 70 class ISO 3506/1
			235	Washer	EN 1.4301(AISI 304)

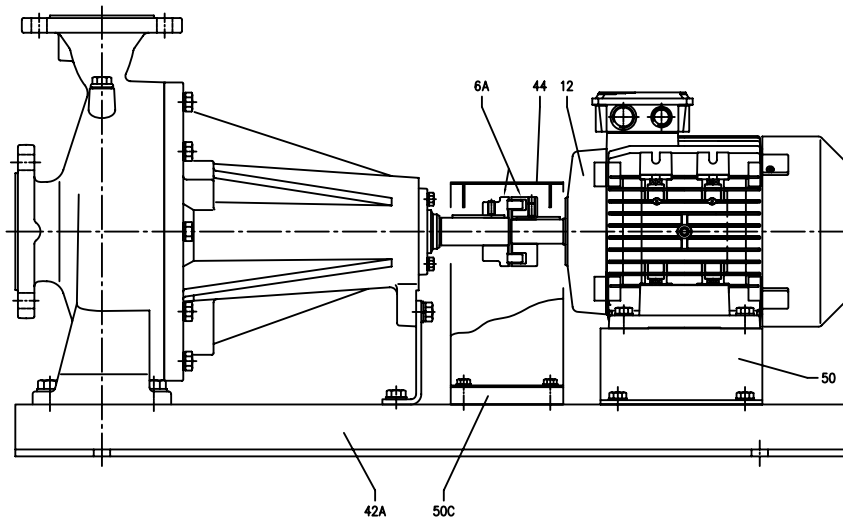
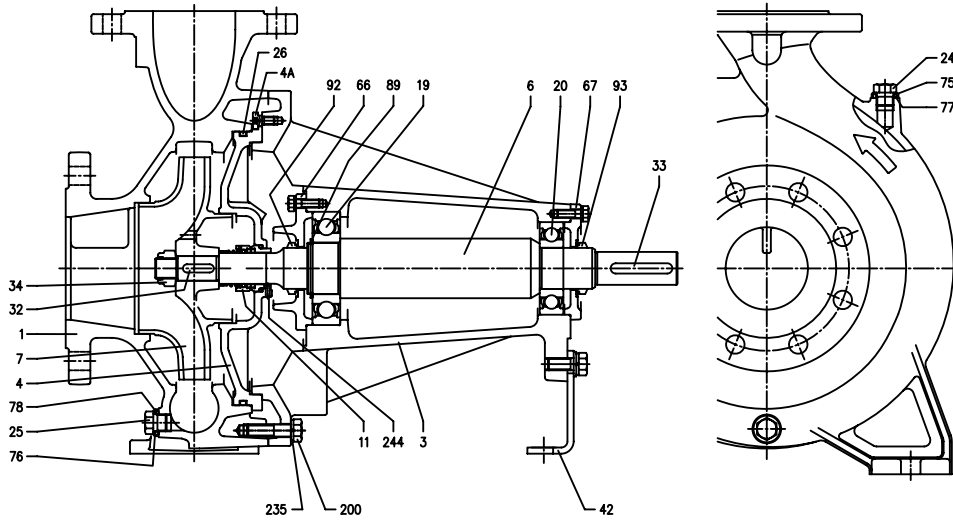
[1]= EPDM for E version
[2]= For 1.5 kW only

3 - 3L SERIES

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

SECTIONAL VIEW 3LP4 65-250, 80 SERIES

4 Poles



MATERIALS TABLE

Ref.	Name	Materials	Ref.	Name	Materials
001	Pump casing	EN 1.4401 (AISI 316)	042	Motor support	Galvanised steel
003	Motor bracket	Cast iron EN-GJL-200-EN 1561	042A	Base	Galvanised steel
004	Casing cover	EN 1.4401 (AISI 316)	044	Protection	Galvanised steel
004A	Casing cover screw disc	EN 1.4301(AISI 304)	050	Motor bracket	Galvanised steel
006	Shaft	EN 1.4462 (duplex steel) Part in contact with the liquid	050C	Joint protection	Aluminium
006A	Flexible joint	Cast iron EN-GJL-200-EN 1561	066	Bracket cover	Cast iron EN-GJL-200-EN 1561
007	Impeller	EN 1.4401 (AISI 316)	067	Bracket cover	Cast iron EN-GJL-200-EN 1561
011	Mechanical seal	Silicon Carbide/Silicon Carbide/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	Plug	EN 1.4404 (AISI 316L)	089	Seeger ring	Carbon steel TC 80
025	Plug	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)	Stainless steel A2 70 class ISO 3506/1
033	Key	C 40	235	Washer	EN 1.4301 (AISI 304)
034	Impeller nut	EN 1.4404 (AISI 316L)	244	Plug [1]	EN 1.4301 (AISI 304)

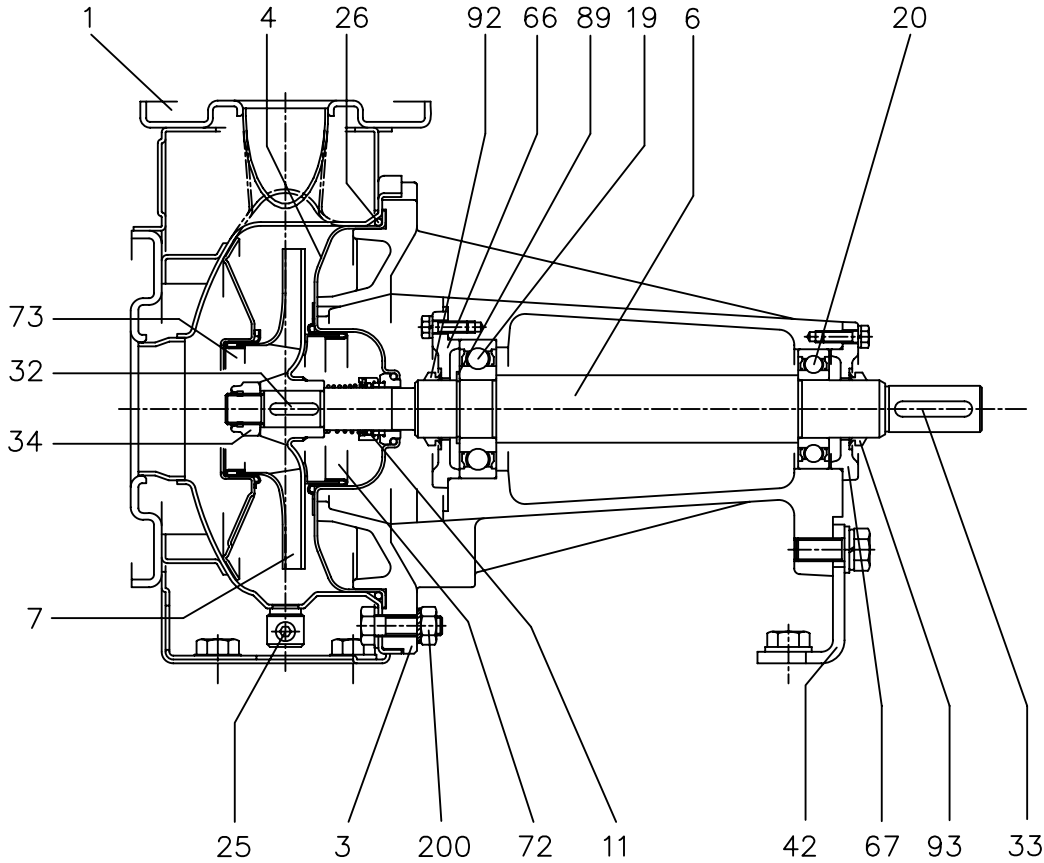
[1]= Not for H and E versions
[2]= EPDM for E version

3 - 3L SERIES

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

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

4 Poles



MATERIALS TABLE

Ref.	Name	Materials	
		3PF4	3LPF4
001	Pump casing	EN 1.4301 (AISI 304)	EN 1.4404 (AISI 316L)
003	Motor bracket	Cast iron EN-GJL-200-EN 1561	
004	Casing cover	EN 1.4301 (AISI 304)	EN 1.4404 (AISI 316L)
006	Shaft - Part in contact with the liquid	EN 1.4301 (AISI 304)	EN 1.4404 (AISI 316L)
007	Impeller	EN 1.4301 (AISI 304)	EN 1.4404 (AISI 316L)
011	Mechanical seal	Carbon/Ceramic/NBR	Silicon Carbide/Silicon Carbide/FKM
019	Bearing (pump side)	-	-
020	Bearing (motor side)	-	-
025	Plug	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	Motor support	Galvanised steel	
066	Bracket cover	Cast iron EN-GJL-250-EN 1561	
067	Bracket cover	Cast iron EN-GJL-250-EN 1561	
072	Casing ring [1]	EN 1.4301 (AISI 304)	EN 1.4404 (AISI 316L)
073	Casing ring	EN 1.4301 (AISI 304)	EN 1.4404 (AISI 316L)
089	Seeger ring	Carbon steel TC 80	
092	Seal ring	-	-
093	Seal ring	-	-
200	Screw (pump body)	Stainless steel A2 70 class ISO 3506/1	

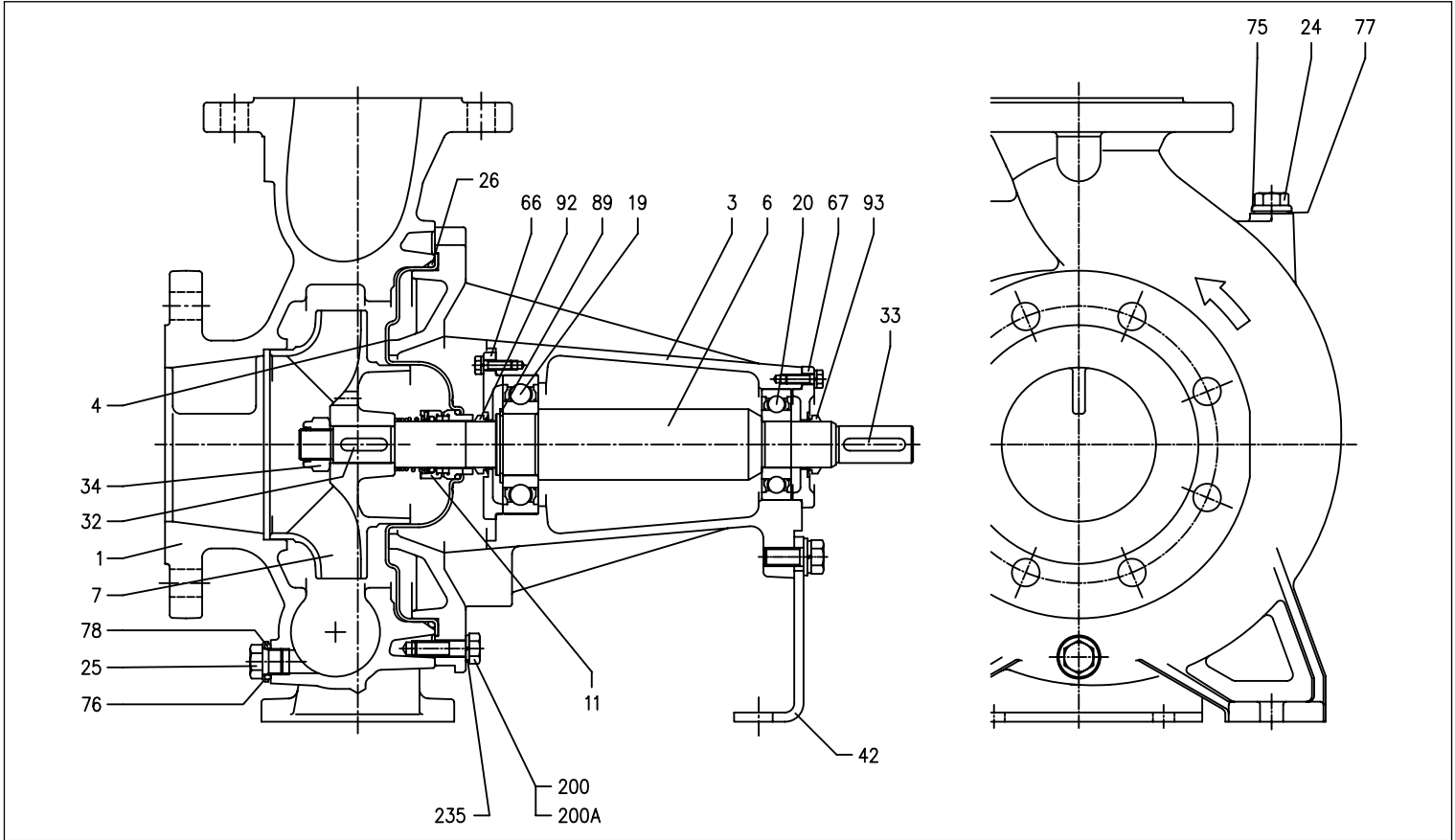
[1]= For versions: 32-200, 40-200, 50-160, 50-200
[2]= FKM for H and HS versions

3 - 3L SERIES

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

SECTIONAL VIEW 3LPF4 80-160 SERIES

4 Poles



MATERIALS TABLE

Ref.	Name	Materials	Ref.	Name	Materials
001	Pump casing	EN 1.4401 (AISI 316)	033	Key	C 40
003	Motor bracket	Cast iron EN-GJL-200-EN 1561	034	Impeller nut	EN 1.4404 (AISI 316L)
004	Casing cover	EN 1.4404 (AISI 316L)	042	Pump support	Galvanised steel
006	Shaft	EN 1.4404 (AISI 316L) Part in contact with the liquid	066	Bracket cover	Cast iron EN-GJL-200-EN 1561
007	Impeller	EN 1.4401 (AISI 316)	067	Bracket cover	Cast iron EN-GJL-200-EN 1561
011	Mechanical seal	Silicon Carbide/Silicon Carbide/FKM	075	Washer	EN 1.4404 (AISI 316L)
			076	Washer	
			077	O-Ring	FKM [1]
			078	O-Ring	
019	Bearing (pump side)	-	089	Seeger ring	Carbon steel TC 80
020	Bearing (motor side)	-	092	V Ring	-
024	Plug	EN 1.4404 (AISI 316L)	093	V Ring	-
025	Plug	EN 1.4404 (AISI 316L)	200	Screw (pump body)	Stainless steel A2 70 class ISO 3506/1
026	O-Ring	FKM [1]	200A	Screw	Stainless steel A2 70 class ISO 3506/1
032	Key	EN 1.4401 (AISI 316)	235	Washer	EN 1.4301(AISI 304)

[1]= EPDM for E version

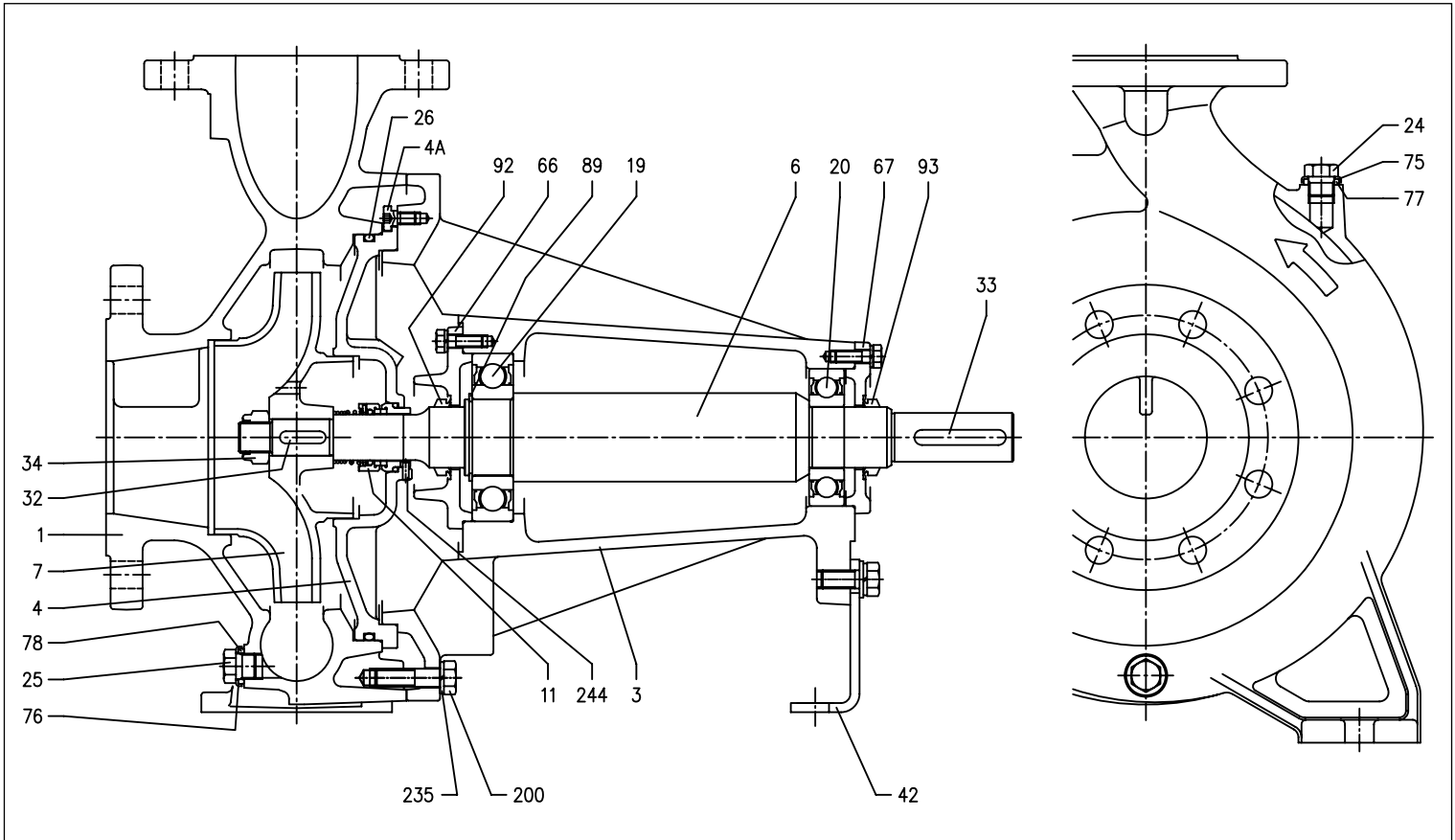
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3 - 3L SERIES

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

SECTIONAL VIEW 3LPF4 65-250, 80 SERIES

4 Poles



MATERIALS TABLE

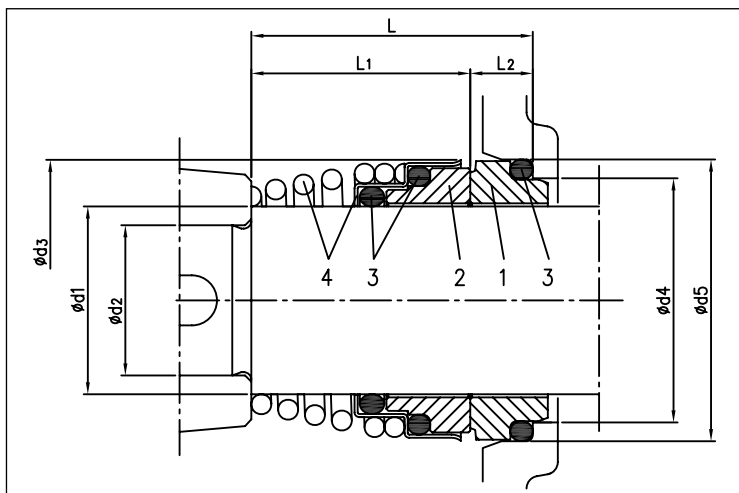
Ref.	Name	Materials	Ref.	Name	Materials
001	Pump casing	EN 1.4401 (AISI 316)	034	Impeller nut	EN 1.4404 (AISI 316L)
003	Motor bracket	Cast iron EN-GJL-200-EN 1561	042	Motor support	Galvanised steel
004	Casing cover	EN 1.4401 (AISI 316)	066	Bracket cover	Cast iron EN-GJL-200-EN 1561
004A	Casing cover screw disc	EN 1.4301(AISI 304)	067	Bracket cover	Cast iron EN-GJL-200-EN 1561
006	Shaft	EN 1.4462 (duplex steel) Part in contact with the liquid	075	Washer	EN 1.4404 (AISI 316L)
007	Impeller	EN 1.4401 (AISI316)	076	Washer	
011	Mechanical seal	Silicon Carbide/Silicon Carbide/FKM	077	O-Ring	FKM [2]
			078	O-Ring	
			089	Seeger ring	
019	Bearing (pump side)	-	092	Seal ring	-
020	Bearing (motor side)	-	093	Seal ring	-
024	Plug	EN 1.4404 (AISI 316L)	200	Screw (pump body)	Stainless steel A2 70 class ISO 3506/1
025	Plug	EN 1.4404 (AISI 316L)	235	Washer	EN 1.4301 (AISI 304)
026	O-Ring	FKM [2]	244	Plug [1]	EN 1.4301 (AISI 304)
032	Key	EN 1.4401 (AISI 316)			
033	Key	C 40			

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

3 - 3L SERIES

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 part	Carbon	Silicon Carbide
2	Rotating part	Ceramic	Silicon Carbide
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				
	H Version	HS Version	HW Version	HSW Version	E Version
Fixed part	Carbon	Silicon Carbide	Tungsten Carbide	Tungsten Carbide	Carbon
Rotating Part	Ceramic	Silicon Carbide	Tungsten Carbide	Silicon Carbide	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				
	H Version	HW Version	HSW Version	E* Version	ES** Version
Fixed part	Carbon	Tungsten Carbide	Tungsten Carbide	Carbon	Carbon
Rotating Part	Ceramic	Tungsten Carbide	Silicon Carbide	Ceramic	Silicon Carbide
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 31 80-250 SERIES 2 poles

** Available only for 31 80-250 SERIES 2 poles

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

Name	Materials				
	U3U3EGG Version	U3CEGG Version	Q1Q1EGG Version	Q1U3EGG Version	Q1AEGG Version
Fixed part	Tungsten Carbide	Tungsten Carbide	Silicon Carbide	Silicon Carbide	Silicon Carbide
Rotating Part	Tungsten Carbide	Special carbon	Silicon Carbide	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

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

ELECTRIC DATA TABLE 3(L)M4 SERIES

4 Poles

Model Three phase 230/400/690V	Motor	P ₁		P ₂ Three phase [kW]	Efficiency Three phase	Efficiency(%) Three phase η %			Absorbed Current [A] Three phase		
		[HP]	[kW]			50%	75%	100%	230V	400V	690V
3(L)M4 32-125/0.25	71	0,33	0,25	0,55	-	-	-	-	1,9	1,1	-
3(L)M4 32-160/0.37R	80	0,5	0,37	0,80	-	-	-	-	2,6	1,5	-
3(L)M4 32-160/0.37		0,5	0,37	0,80	-	-	-	-	2,6	1,5	-
3(L)M4 32-200/0.55R	80	0,75	0,55	0,80	-	-	-	-	2,6	1,5	-
3(L)M4 32-200/0.55		0,75	0,55	0,80	-	-	-	-	2,6	1,5	-
3(L)M4 32-200/0.75	90	1	0,75	1,31	IE3	81,5	83,4	84,1	4,6	2,7	-
3(L)M4 40-125/0.37R	71	0,5	0,37	0,55	-	-	-	-	1,9	1,1	-
3(L)M4 40-125/0.37		0,5	0,37	0,55	-	-	-	-	1,9	1,1	-
3(L)M4 40-160/0.55R	80	0,75	0,55	0,80	-	-	-	-	2,6	1,5	-
3(L)M4 40-160/0.55		0,75	0,55	0,80	-	-	-	-	2,6	1,5	-
3(L)M4 40-200/1.1R	90	1,5	1,1	1,31	IE3	81,5	83,4	84,1	4,6	2,7	-
3(L)M4 40-200/1.1		1,5	1,1	1,31	IE3	81,5	83,4	84,1	4,6	2,7	-
3(L)M4 40-200/1.5		2	1,5	1,76	IE3	81,1	84,1	85,3	6,2	3,6	-
3(L)M4 50-125/0.55R	80	0,75	0,55	0,80	-	-	-	-	2,6	1,5	-
3(L)M4 50-125/0.55		0,75	0,55	0,80	-	-	-	-	2,6	1,5	-
3(L)M4 50-160/1.1R	90	1,5	1,1	1,31	IE3	81,5	83,4	84,1	4,6	2,7	-
3(L)M4 50-160/1.1		1,5	1,1	1,31	IE3	81,5	83,4	84,1	4,6	2,7	-
3(L)M4 50-200/1.5R		2	1,5	1,76	IE3	81,1	84,1	85,3	6,2	3,6	-
3(L)M4 50-200/1.5		2	1,5	1,76	IE3	81,1	84,1	85,3	6,2	3,6	-
3(L)M4 50-200/2.2	100	3	2,2	2,54	IE3	86,1	87,0	86,7	7,8	4,5	-
3(L)M4 65-125/0.55	80	0,75	0,55	0,80	-	-	-	-	2,6	1,5	-
3(L)M4 65-125/0.75	90	1	0,75	1,31	IE3	81,5	83,4	84,1	4,6	2,7	-
3(L)M4 65-125/1.1		1,5	1,1	1,31	IE3	81,5	83,4	84,1	4,6	2,7	-
3(L)M4 65-160/1.1		1,5	1,1	1,31	IE3	81,5	83,4	84,1	4,6	2,7	-
3(L)M4 65-160/1.5		2	1,5	1,76	IE3	81,1	84,1	85,3	6,2	3,6	-
3(L)M4 65-160/2.2	100	3	2,2	2,54	IE3	86,1	87,0	86,7	7,8	4,5	-
3(L)M4 65-200/2.2R		3	2,2	2,54	IE3	86,1	87,0	86,7	7,8	4,5	-
3(L)M4 65-200/2.2		3	2,2	2,54	IE3	86,1	87,0	86,7	7,8	4,5	-
3(L)M4 65-200/3		4	3	3,42	IE3	85,7	87,7	87,8	11,8	6,8	-
3LM4 65-250/4	112	5,5	4	4,51	IE3	85,8	87,6	88,6	14,4	8,3	-
3LM4 65-250/5.5	132	7,5	5,5	6,14	IE3	87,2	88,5	89,6	-	10,9	6,3
3LM4 80-160/1.5	90	2	1,5	1,76	IE3	81,1	84,1	85,3	6,2	3,6	-
3LM4 80-160/2.2R	100	3	2,2	2,54	IE3	86,1	87,0	86,7	7,8	4,5	-
3LM4 80-160/2.2		3	2,2	2,54	IE3	86,1	87,0	86,7	7,8	4,5	-
3LM4 80-200/3		4	3	3,42	IE3	85,7	87,7	87,8	11,8	6,8	-
3LM4 80-200/4R		112	5,5	4	4,51	IE3	85,8	87,6	88,6	14,4	8,3
3LM4 80-200/4	112	5,5	4	4,51	IE3	85,8	87,6	88,6	14,4	8,3	-
3LM4 80-250/5.5R	132	7,5	5,5	6,14	IE3	87,2	88,5	89,6	-	10,9	6,3
3LM4 80-250/5.5		7,5	5,5	6,14	IE3	87,2	88,5	89,6	-	10,9	6,3
3LM4 80-250/7.5	132M	10	7,5	8,27	IE3	89,8	90,9	90,4	-	15,3	8,8

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3 - 3L SERIES

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

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

4 Poles

Three phase 230/400/690V	Model Three phase 230/400/690V	Motor	P ₁		Efficiency Three phase	P ₂ [kW]	Efficiency (%) Three phase			Absorbed Current [A] Three phase		
			[HP]	[kW]			50%	η % 75%	100%	230V	400V	690V
3(L)S4 32-125/0.25	3(L)P4 32-125/0.25	71	0.25	0.33	-	0.41	55.0	59.0	64.0	1.6	0.9	-
3(L)S4 32-160/0.37R	3(L)P4 32-160/0.37R	71	0.37	0.5	-	0.56	60.0	63.0	67.0	2.1	1.2	-
3(L)S4 32-160/0.37	3(L)P4 32-160/0.37	71	0.37	0.5	-	0.56	60.0	63.0	67.0	2.1	1.2	-
3(L)S4 32-200/0.55R	3(L)P4 32-200/0.55R	80	0.55	0.75	-	0.80	67.0	69.0	70.0	2.8	1.6	-
3(L)S4 32-200/0.55	3(L)P4 32-200/0.55	80	0.55	0.75	-	0.80	67.0	69.0	70.0	2.8	1.6	-
3(L)S4 32-200/0.75	3(L)P4 32-200/0.75	80	0.75	1	IE3	0.92	80.7	81.5	82.5	3.1	1.8	-
3(L)S4 40-125/0.37R	3(L)P4 40-125/0.37R	71	0.37	0.5	-	0.56	60.0	63.0	67.0	2.1	1.2	-
3(L)S4 40-125/0.37	3(L)P4 40-125/0.37	71	0.37	0.5	-	0.56	60.0	63.0	67.0	2.1	1.2	-
3(L)S4 40-160/0.55R	3(L)P4 40-160/0.55R	80	0.55	0.75	-	0.80	67.0	69.0	70.0	2.8	1.6	-
3(L)S4 40-160/0.55	3(L)P4 40-160/0.55	80	0.55	0.75	-	0.80	67.0	69.0	70.0	2.8	1.6	-
3(L)S4 40-200/1.1R	3(L)P4 40-200/1.1R	90S	1.1	1.5	IE3	1.30	83.3	84.3	84.1	4.3	2.5	-
3(L)S4 40-200/1.1	3(L)P4 40-200/1.1	90S	1.1	1.5	IE3	1.30	83.3	84.3	84.1	4.3	2.5	-
3(L)S4 40-200/1.5	3(L)P4 40-200/1.5	90L	1.5	2	IE3	1.80	84.1	85.2	85.3	6.2	3.6	-
3(L)S4 50-125/0.55R	3(L)P4 50-125/0.55R	80	0.55	0.75	-	0.80	67.0	69.0	70.0	2.8	1.6	-
3(L)S4 50-125/0.55	3(L)P4 50-125/0.55	80	0.55	0.75	-	0.80	67.0	69.0	70.0	2.8	1.6	-
3(L)S4 50-160/1.1R	3(L)P4 50-160/1.1R	90S	1.1	1.5	IE3	1.30	83.3	84.3	84.1	4.3	2.5	-
3(L)S4 50-160/1.1	3(L)P4 50-160/1.1	90S	1.1	1.5	IE3	1.30	83.3	84.3	84.1	4.3	2.5	-
3(L)S4 50-200/1.5R	3(L)P4 50-200/1.5R	90L	1.5	2	IE3	1.80	84.1	85.2	85.3	6.2	3.6	-
3(L)S4 50-200/1.5	3(L)P4 50-200/1.5	90L	1.5	2	IE3	1.80	84.1	85.2	85.3	6.2	3.6	-
3(L)S4 50-200/2.2	3(L)P4 50-200/2.2	100L	2.2	3	IE3	2.58	83.2	86.2	86.7	10.2	5.9	-
3(L)S4 65-125/0.55	3(L)P4 65-125/0.55	80	0.55	0.75	-	0.80	67.0	69.0	70.0	2.8	1.6	-
3(L)S4 65-125/0.75	3(L)P4 65-125/0.75	80	0.75	1	IE3	0.92	80.7	81.5	82.5	3.1	1.8	-
3(L)S4 65-125/1.1	3(L)P4 65-125/1.1	90S	1.1	1.5	IE3	1.30	83.3	84.3	84.1	4.3	2.5	-
3(L)S4 65-160/1.1	3(L)P4 65-160/1.1	90S	1.1	1.5	IE3	1.30	83.3	84.3	84.1	4.3	2.5	-
3(L)S4 65-160/1.5	3(L)P4 65-160/1.5	90L	1.5	2	IE3	1.80	84.1	85.2	85.3	6.2	3.6	-
3(L)S4 65-160/2.2	3(L)P4 65-160/2.2	100L	2.2	3	IE3	2.58	83.2	86.2	86.7	10.2	5.9	-
3(L)S4 65-200/2.2R	3(L)P4 65-200/2.2R	100L	2.2	3	IE3	2.58	83.2	86.2	86.7	10.2	5.9	-
3(L)S4 65-200/2.2	3(L)P4 65-200/2.2	100L	2.2	3	IE3	2.58	83.2	86.2	86.7	10.2	5.9	-
3(L)S4 65-200/3	3(L)P4 65-200/3	100L	3	4	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	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	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	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	IE3	2.58	83.2	86.2	86.7	10.2	5.9	-
3LS4 80-160/2.2	3LP4 80-160/2.2	100L	2.2	3	IE3	2.58	83.2	86.2	86.7	10.2	5.9	-
3LS4 80-200/3	3LP4 80-200/3	100L	3	4	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	IE3	4.54	87.2	88.3	88.6	14.2	8.2	-
3LS4 80-200/4	3LP4 80-200/4	112M	4	5.5	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	7.5	IE3	6.17	89.8	90.2	89.6	-	10.6	6.1
3LS4 80-250/5.5	3LP4 80-250/5.5	132S	5.5	7.5	IE3	6.17	89.8	90.2	89.6	-	10.6	6.1
3LS4 80-250/7.5	3LP4 80-250/7.5	132M	7.5	10	IE3	8.27	89.8	90.9	90.4	-	15.3	8.8

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3 - 3L SERIES

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

NOISE DATA TABLE

Model Single phase 230V	P ₂		L _{PA} - dB(A)*
	[HP]	[kW]	
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	
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	
3LM4 80-250/5.5	7.5	5.5	
3LM4 80-250/7.5	10	7.5	

* Mean value of several measurements at 1 m distance around the pump.
Tolerance ± 2.5 dB.

4 Poles

Model		P ₂		L _{PA} - dB(A)*
Single phase 230V	Three phase 230/400/690V	[HP]	[kW]	
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 value of several measurements at 1 m distance around the pump.
Tolerance ± 2.5 dB.

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