ELECTRIC PUMPS FOR INDUSTRIAL USE

50 Hz

EBARA Pumps Europe network

EBARA BARI
Viale della Repubblica, 52/B
70026 Modugno (BA)
Tel. 080 5320531 - Fax 080 5320478

EBARA CAGLIARI
Via del Fangario, 29
09122 Cagliari
Tel. 070 274281 - Fax 070 253643

EBARA CASERTA
Via S.S. 87 km 21+100
81025 Marcianise (CE)
Tel. 0823 696511/696346 - Fax 0823 696411

EBARA FIRENZE
Viale della Repubblica, 279
59100 Prato
Tel. 0574 514175 - Fax 0574 700126

EBARA MILANO
Via Lainate,62
20017 Rho (MI)
Tel. 02 93507358 - Fax 02 93507361

EBARA PALERMO
Via Don L. Sturzo, 181/183
Z.I. - 90044 Carini (PA)
Tel. 091 8680840 - Fax 091 8669790

EBARA PESCARA
Via Giuseppe Misticoni, 13 scala A
65129 Pescara
Tel. 085 4465145 - Fax 085 4465171

EBARA ROMA
Via Lago di Bracciano, 138 Int. 6
00040 Montecompatri (RM)
Tel. 06 94771127/94770541 - Fax 06 94771012

Agencies

PADOVA
NEGRISOLO GIANNI
Tel. 049 9900296 - Fax 049 9903539

GENOVA
VOLPARA FABRIZIO
Tel. 010 7727084 - Fax 010 7729018

PORDENONE
GIUST TECNOCOMMERCIALE S.r.l.
Tel. 0434 70040 - Fax 0434 70239

EBARA PUMPS UK LIMITED
Unit 7 - Zodiac Business Park
High Road - Cowley Uxbridge
Middlesex - UB8 2GU, United Kingdom
Tel. +44 1895 439027
Fax +44 1895 439028

EBARA ESPAÑA BOMBAS S.A.
C/Cormoranes 6 Y 8
Polígono Ind. La Estación
28320 Pinto (Madrid), Spain
Tel. +34 916.953.630
Fax +34 916.910.818

EBARA FRANCE
Immeuble Maille Nord II
8 Avenue Montaigne
93160 Noisy Le Grand, France
Tel. +33 155851616
Fax +33 155851639

EBARA PUMPS EUROPE S.p.A. GERMANY
Philipp-Reis - Str. 15
63128 Dietzenbach, Germany
Tel. +49 6074 82790
Fax +49 6074 827942

EBARA POMPY POLSKA Sp. z o.o.
ul. Minska 63A
03-828 Warszawa, Poland
Tel. +48 22 3308118
Fax +48 22 3308119

EBARA PUMPS EUROPE S.p.A. MIDDLE EAST
P.O. Box 54515
Dubai Airport Free Zone
Dubai, United Arab Emirates
Tel. +971 4 609 1040
Fax +971 4 609 1038

EBARA PUMPS EUROPE S.p.A. RUSSIA
Tel. +7 985 7672672

EBARA PUMPS EUROPE S.p.A. SAUDI ARABIA
Tel./Fax +966 2 629 76 78

Code 479705427 09/09

EBARA Pumps Europe S.p.A.
Via Pacinotti, 32
36040 Brendola (Vicenza), Italy
Tel. +39 0444 706811 - Fax +39 0444 706950
Plants: Cles, Brendola
e-mail: marketing@ebaraeurope.com
www.ebaraeurope.com

EBARA Corporation
11-1, Haneda Asahi-cho, Ohta-ku,
Tokyo 144-8510
Japan
Tel. +81 3 3743 6111 - Fax +81 3 3745 3356
www.ebara.com

INDEX

CD

SINGLE IMPELLER CENTRIFUGAL ELECTRIC PUMPS

in AISI 304

Single impeller centrifugal electric pumps constructed entirely in AISI 304 stainless steel.

APPLICATIONS

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

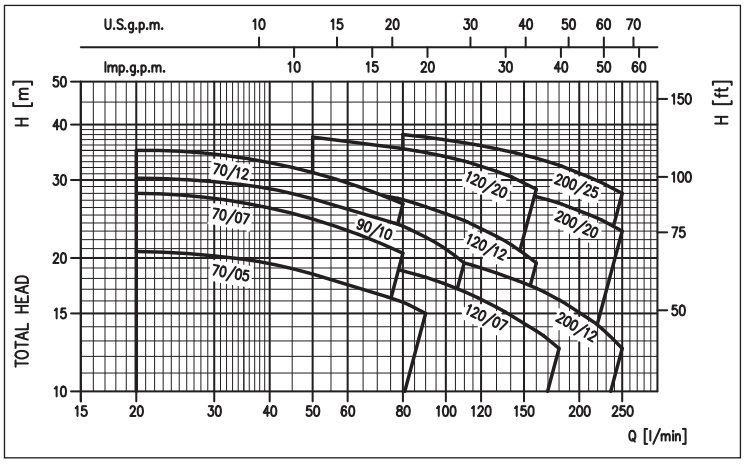
TECHNICAL DETAILS

- Solid hydraulic structure
- Small dimensions

TECHNICAL DATA

- Maximum working pressure: 8 bar
- Maximum temperature of the liquid:
  -10°C ÷ +60°C for CD 70/05-70/07-90/10
  -10°C ÷ +90°C for the rest of the range
  -10°C ÷ +110°C in the H-HS version
- 2 pole self-ventilated closed asynchronous motor with internal ventilation
- Class of insulation F
- IP55 Protection rating
- 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
- G1½ suction connection for CD 200, G1¼ for the rest of the range
- G1 discharge connection

PERFORMANCE RANGE (according to ISO 9906 Attachment A)



IDENTIFICATION CODE

CD	H	M	120	/	7

- Power HP: 05, 07, 10, 12, 20, 25
- Hydraulic code: 70, 90, 120, 200
- Single phase
- Optional version: H, HS, HW, HSW, E
- Model

MATERIALS

- Pump body, impeller, nozzle, seal housing disc, support, motor case and fan cover in AISI 304
- Mechanical sealing in:
  - Ceramic/Carbon/NBR (standard)
  - Ceramic/Carbon/FPM (H version)
  - SiC/SiC/FPM (HS version)
  - Tungsten carbide/Tungsten carbide/FPM (HW version - seal with reduced slide face)
  - SiC/Tungsten carbide/FPM (HSW version)
  - Ceramic/Graphite/EPDM (E version)
- Shaft in AISI 303

CONTROL PANELS

- 1EPBH (see page 207)

ACCESSORIES (on request)

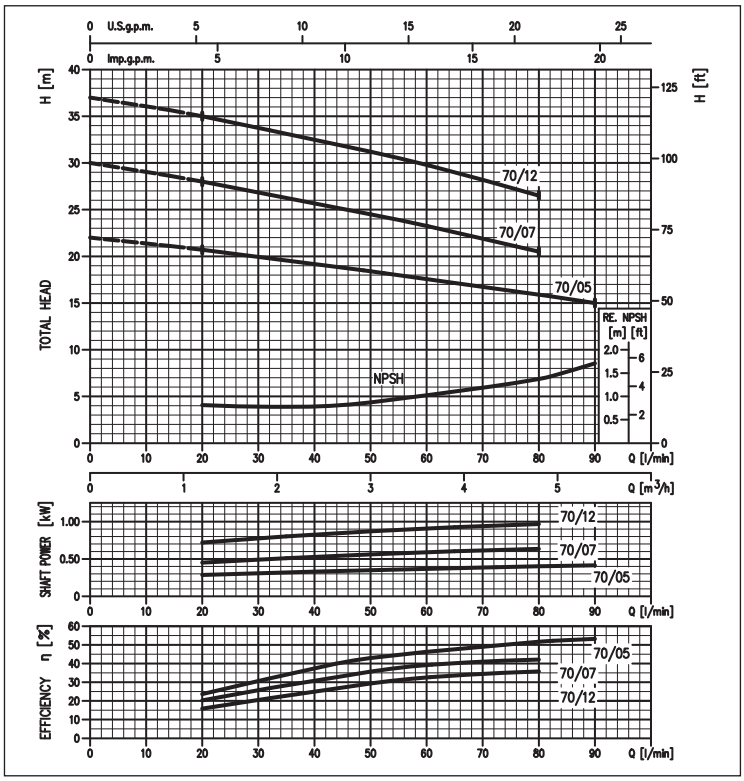
- 5 litre 10 bar ¾ EPDM vessel
- 24 litre 8 bar 1" EPDM vessel
- 24 litre 10 bar 1" EPDM vessel
- PVC 5m key float with counter-weight
- PVC 10m key float with counter-weight
- SQUARE-D FSG-2 1.4÷4.6 bar G¼ F pressure switch
- FYG-22 2.8÷7 bar G¼ F pressure switch
- Presscomfort - Pressure regulator (see page 208)
- Press•o•Matic - Variable speed control system (single phase 230V±10% power supply - three phase 220V output – maximum motor power 2.2 kW - 3 HP - see page 209)

SINGLE IMPELLER CENTRIFUGAL ELECTRIC PUMPS

in AISI 304

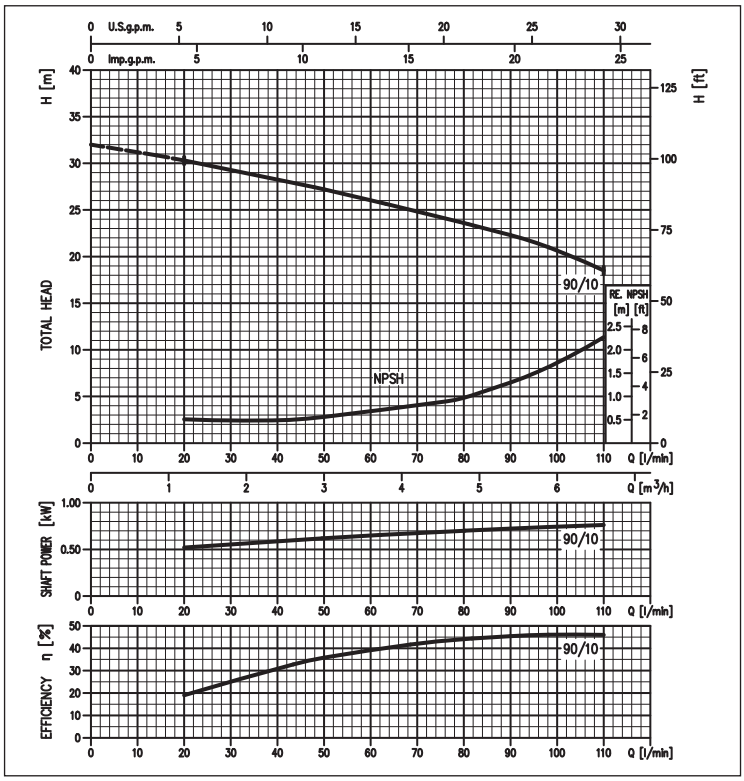
CD 70 range PERFORMANCE CURVES

(according to ISO 9906 Attachment A)



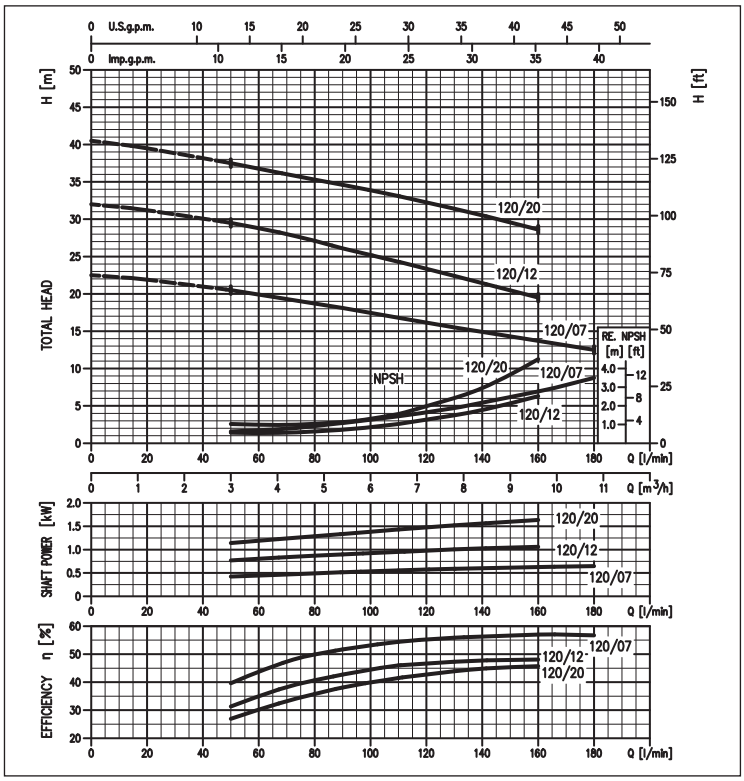
CD 90 range PERFORMANCE CURVES

(according to ISO 9906 Attachment A)



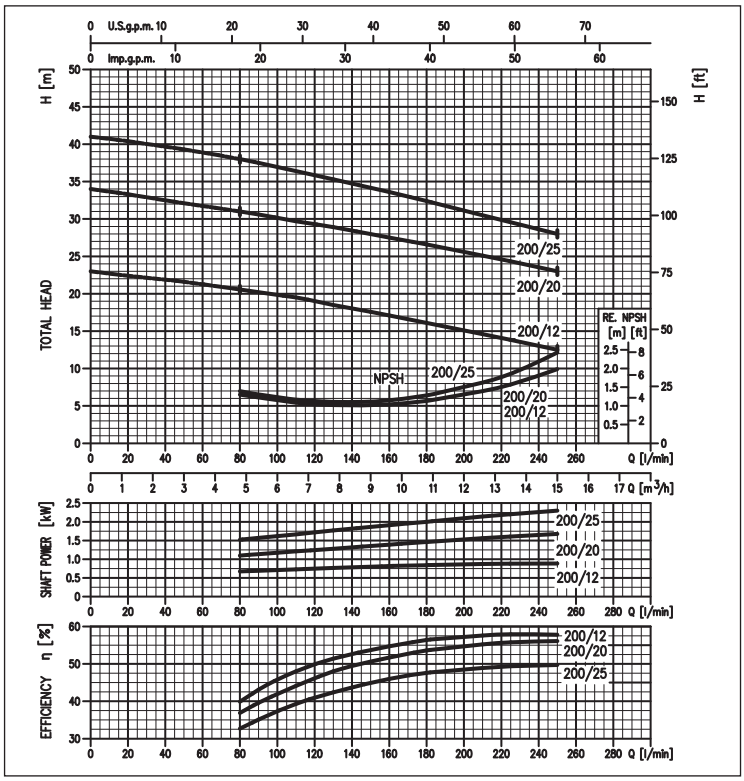
CD 120 range PERFORMANCE CURVES

(according to ISO 9906 Attachment A)



CD 200 range PERFORMANCE CURVES

(according to ISO 9906 Attachment A)



CD

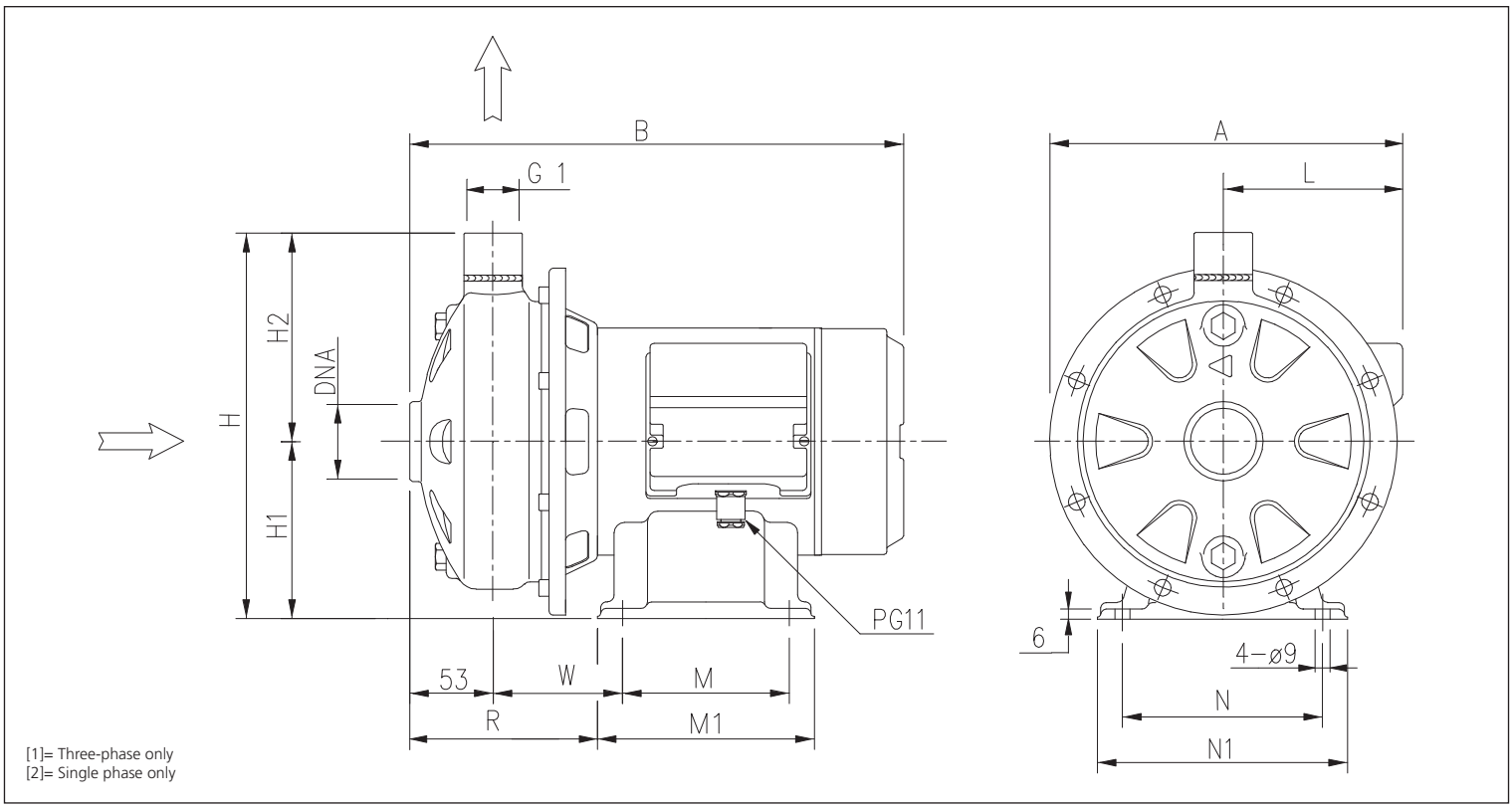
SINGLE IMPELLER CENTRIFUGAL ELECTRIC PUMPS

in AISI 304

PERFORMANCE TABLE

Model 230V single phase	Model 230/400V three-phase	P_2 [HP]	P_2 [kW]	Q=Flow rate 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]										
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		-	29,5	27,1	26,1	24,3	22,4	19,5	-	-	-
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		-	-	20,6	20,2	19,5	18,5	17,1	16,1	14,6	12,5
CDM 200/20	CD 200/20	2	1,5		-	-	31,0	30,6	29,7	28,9	27,5	26,6	25,1	23,0
-	CD 200/25	2,5	1,8		-	-	38,0	37,5	36,4	35,3	33,6	32,4	30,5	28,0

DIMENSIONS



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

DIMENSIONS TABLE

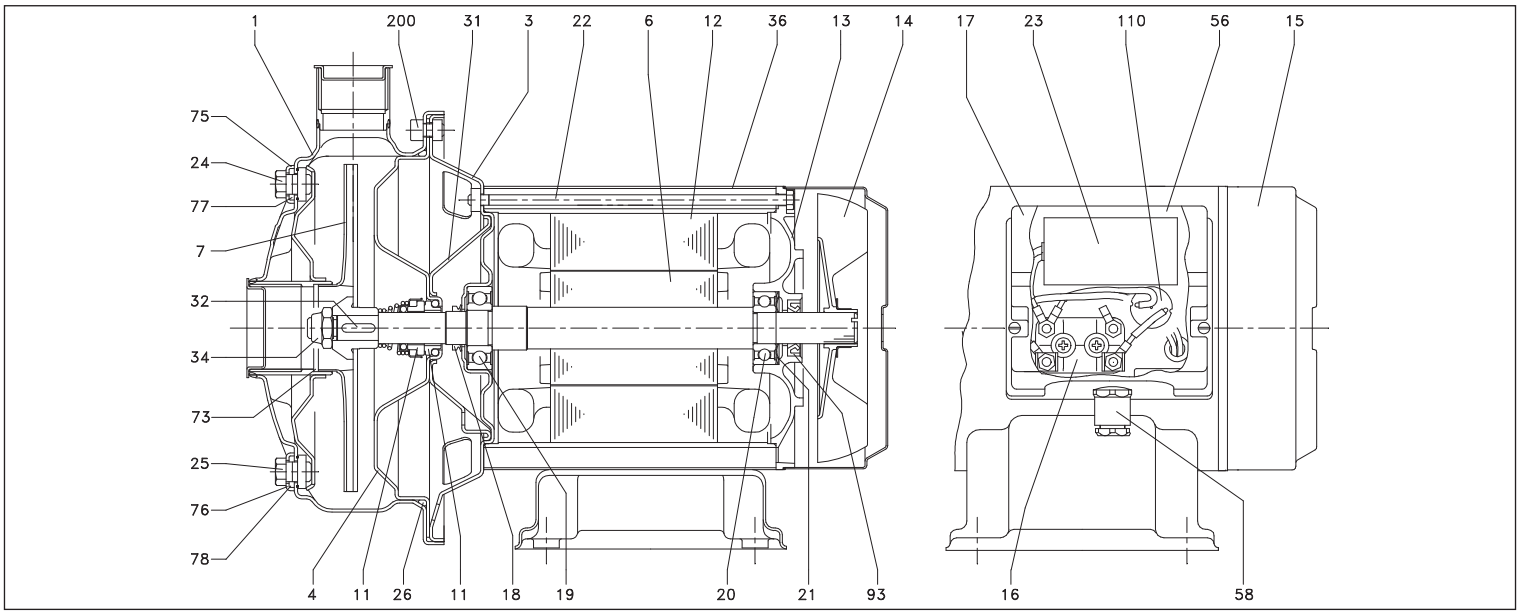
Model	Dimensions [mm] A [1]	A [2]	B	H	H1	H2	L [1]	L [2]	M [1]	M [2]	M1 [1]	M1 [2]	N	N1	R	W	DNA	Weight [kg] [1]	Weight [kg] [2]
CD(M) 70/05	208	209	298	229	106	123	104	105	100	100	130	130	120	150	116	78	G1¼	9,4	9,4
CD(M) 70/07	208	209	298	229	106	123	104	105	100	100	130	130	120	150	131	93	G1¼	10,8	10,8
CD(M) 70/12	208	208	328	229	106	123	104	105	100	100	130	130	120	150	131	93	G1¼	14,1	14,1
CD(M) 90/10	208	209	328	229	106	123	104	105	100	100	130	130	120	150	131	93	G1¼	12,4	12,4
CD(M) 120/07	208	209	298	229	106	123	104	105	100	100	130	130	120	150	116	78	G1¼	10,7	10,7
CD(M) 120/12	208	208	328	229	106	123	104	104	100	100	130	130	120	150	131	93	G1¼	13,3	13,3
CD(M) 120/20	232	232	356	250	118	132	116	116	120	120	150	150	140	170	133	95	G1¼	17,3	17,3
CD(M) 200/12	208	208	328	229	106	123	104	104	100	100	130	130	120	150	131	93	G1½	12,7	12,8
CD(M) 200/20	213	213	356	229	106	123	109	109	120	120	150	150	140	170	133	95	G1½	16,7	16,7
CD 200/25	232	-	366	250	118	132	116	-	120	-	150	-	140	170	138	100	G1½	17,4	-

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

SINGLE IMPELLER CENTRIFUGAL ELECTRIC PUMPS

in AISI 304

SECTIONAL VIEW

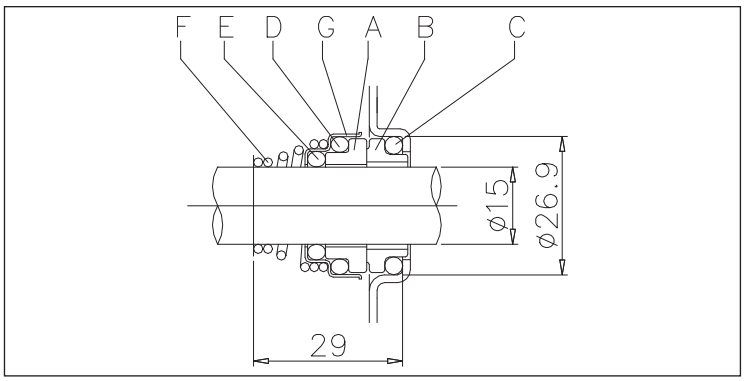


MATERIALS TABLE

Ref.	Name	Material	Ref.	Name	Material
1	Pump body	EN 1.4301 (AISI 304)	24	Filler cap	AISI 303
3	Motor support	EN 1.4301 (AISI 304)	25	Drain plug	AISI 303
4	Seal housing disc	EN 1.4301 (AISI 304)	26	O-Ring [2]	NBR
6	Rotor shaft	AISI 303 Part in contact with the liquid	31	Sealing disc spacer	EN 1.4301 (AISI 304)
7	Impeller	EN 1.4301 (AISI 304)	32	Key	EN 1.4301 (AISI 304)
11	Mechanical seal [2]	Carbon/Ceramic/NBR	34	Impeller nut	EN 1.4301 (AISI 304)
12	Motor case	-	36	Motor casing	EN 1.4301 (AISI 304)
13	Motor cover	Aluminium	56	Terminal box cover gasket	NBR
14	Fan	Polypropylene	58	Cable gland	-
15	Fan cover	EN 1.4301 (AISI 304)	73	Wear ring [3]	EN 1.4301 (AISI 304)
16	Terminal box	-	75	Washer	EN 1.4301 (AISI 304)
17	Terminal box cover	Polyamide	76	Washer	EN 1.4301 (AISI 304)
18	Sealing ring	NBR	77	O-Ring [2]	NBR
19	Bearing (pump side)	-	78	O-Ring [2]	NBR
20	Bearing (motor side)	-	93	Sealing ring	NBR
21	Adjusting ring	Steel C70	110	Motorprotector [1]	-
22	Tie-rod	Galvanised Fe 42	200	Screw (pump body)	A2 UNI7323 stainless steel
23	Capacitor [1]	-			

[1]= For single phase only
[2]= FPM for CDH and CDHS
[3]= NBR for CD 70/05, 70/07, 90/10, FPM for H and HS 70/05, 70/07, 90/10 versions

MECHANICAL SEAL CD standard



MATERIALS TABLE

Ref.	Name	Material
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

CD

SINGLE IMPELLER CENTRIFUGAL ELECTRIC PUMPS

in AISI 304

SPECIAL MECHANICAL SEALS (on request)

Name	Material				
	H version	HS version	HW version	HSW version	E version
Fixed Part	Carbon	SiC	Tungsten Carbide	Tungsten Carbide	Carbon
Rotating Part	Ceramic	SiC	Tungsten Carbide	SiC	Ceramic
Elastomers	FPM	FPM	FPM	FPM	EPDM
Spring	AISI 316	AISI 316	AISI 316	AISI 316	AISI 316
Structure/Frame	AISI 304	AISI 316	AISI 304	AISI 304	AISI 316

ELECTRIC DATA TABLE

Model		P_2		Single phase Capacitor		P_1		Absorbed Current [A]		
230V single phase	230/400V three-phase	[HP]	[kW]	µF	V_c	Single phase [kW]	Three-phase [kW]	Single phase 230V	Three-phase 230V	Three-phase 400V
CDM 70/05	CD 70/05	0,5	0,37	12,5	450	0,71	0,68	3,1	2,4	1,4
CDM 70/07	CD 70/07	0,75	0,55	16	450	1,0	1,0	4,6	3,5	2,0
CDM 70/12	CD 70/12	1,2	0,9	31,5	450	1,5	1,4	6,5	5,0	2,9
CDM 90/10	CD 90/10	1	0,75	20	450	1,2	1,1	5,6	4,0	2,3
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	31,5	450	1,6	1,4	6,9	4,9	2,8
CDM 120/20	CD 120/20	2	1,5	40	450	2,1	2,1	9,7	7,0	4,0
CDM 200/12	CD 200/12	1,2	0,9	31,5	450	1,4	1,3	6,3	4,7	2,7
CDM 200/20	CD 200/20	2	1,5	40	450	2,3	2,1	9,8	7,0	4,0
-	CD 200/25	2,5	1,85	-	-	-	2,8	-	8,6	5,0

CDX

SINGLE IMPELLER CENTRIFUGAL ELECTRIC PUMPS

in AISI 304

Single impeller centrifugal electric pumps with hydraulic parts in AISI 304 stainless steel.

APPLICATIONS

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

TECHNICAL DETAILS

- Solid hydraulic structure
- Small dimensions

TECHNICAL DATA

- Maximum working pressure: 8 bar
- Maximum temperature of the liquid:
  -10°C ÷ +60°C for CDX 70/05-70/07-90/10
  -10°C ÷ +90°C for the rest of the range
  -10°C ÷ +110°C in the H-HS version
- Self-ventilated 2 pole asynchronous motor
- Class of insulation F
- IP55 Protection rating
- 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
- G1½ suction connection for CDX 200, G1¼ for the rest of the range
- G1 discharge connection

MATERIALS

- Pump body, impeller, nozzle and seal housing disc in AISI 304
- Shaft in AISI 303
- Support and motor casing in aluminium
- Mechanical sealing in:
  - Ceramic/Carbon/NBR (standard)
  - Ceramic/Carbon/FPM (H version)
  - SiC/SiC/FPM (HS version)
  - Tungsten carbide/Tungsten carbide/FPM (HW version - seal with reduced slide face)
  - SiC/Tungsten carbide/FPM (HSW version)
  - Ceramic/Graphite/EPDM (E version)

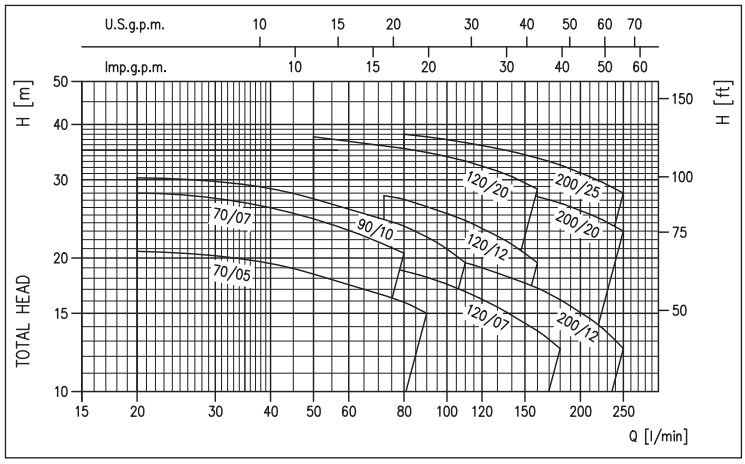
CONTROL PANELS

- 1EPBH (see page 207)

ACCESSORIES (on request)

- 5 litre 10 bar ¾ EPDM vessel
- 24 litre 8 bar 1" EPDM vessel
- 24 litre 10 bar 1" EPDM vessel
- PVC 5m key float with counter-weight
- PVC 10m key float with counter-weight
- SQUARE-D FSG-2 1.4÷4.6 bar G¼ F pressure switch
- FYG-22 2.8÷7 bar G¼ F pressure switch
- Presscomfort - Pressure regulator (see page 208)
- Press•o•Matic - Variable speed control system (single phase 230V±10% - power supply three phase 220V output – maximum motor power 2.2 kW - 3 HP - see page 209)

PERFORMANCE RANGE (according to ISO 9906 Attachment A)



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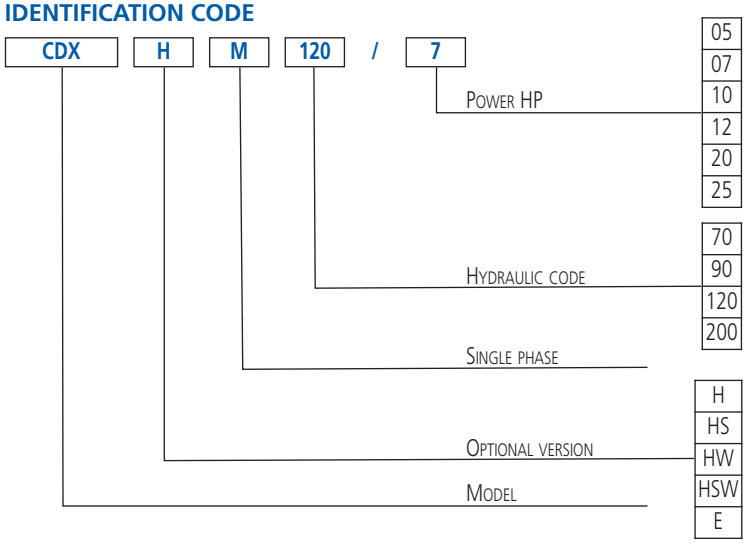
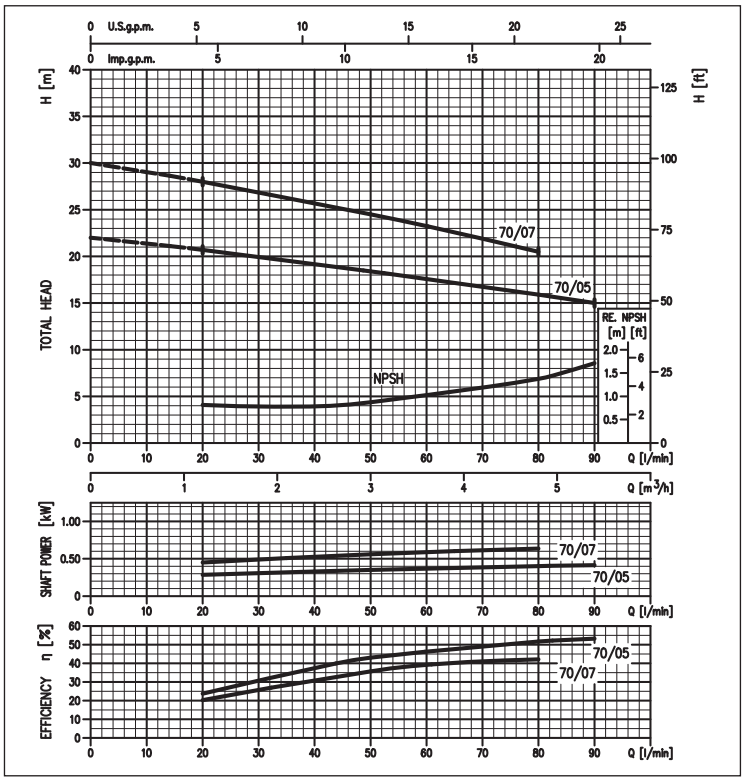


SINGLE IMPELLER CENTRIFUGAL ELECTRIC PUMPS

in AISI 304

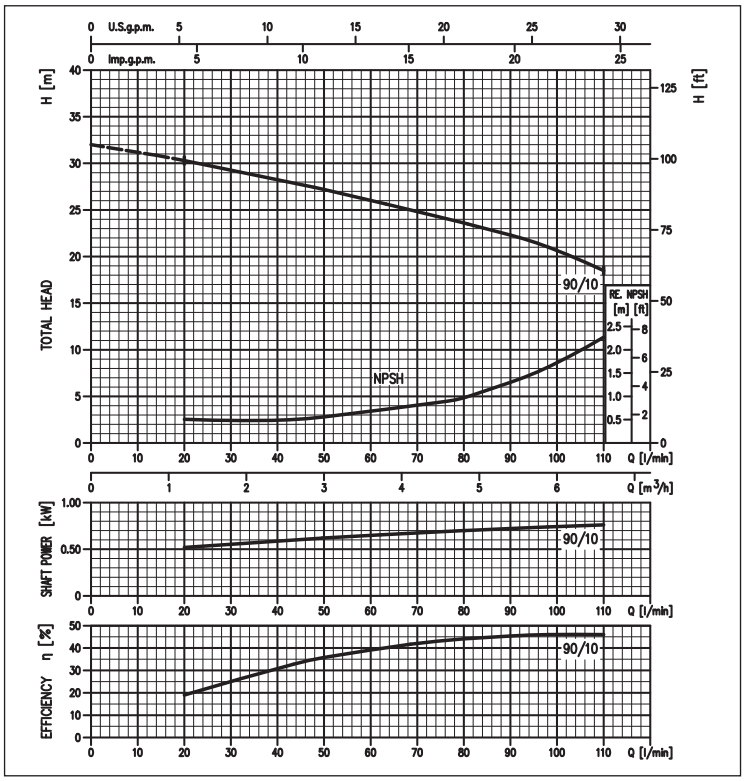
CDX 70 range PERFORMANCE CURVES

(according to ISO 9906 Attachment A)



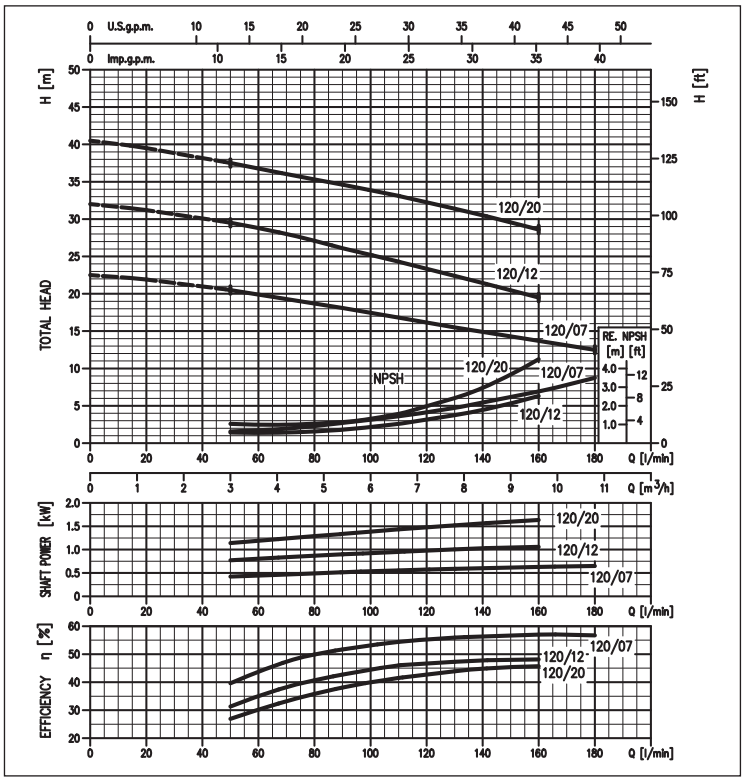
CDX 90 range PERFORMANCE CURVES

(according to ISO 9906 Attachment A)



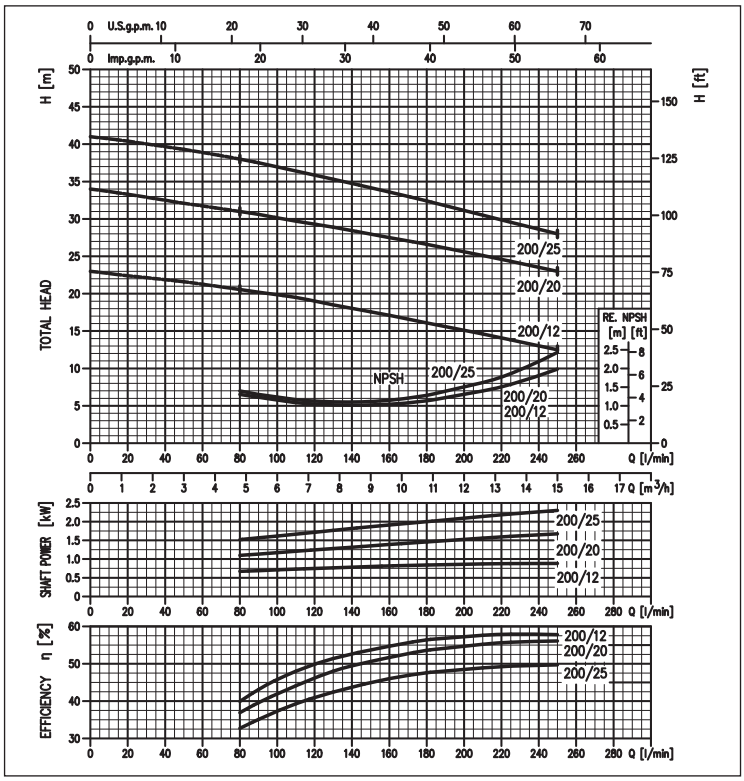
CDX 120 range PERFORMANCE CURVES

(according to ISO 9906 Attachment A)



CDX 200 range PERFORMANCE CURVES

(according to ISO 9906 Attachment A)



CDX

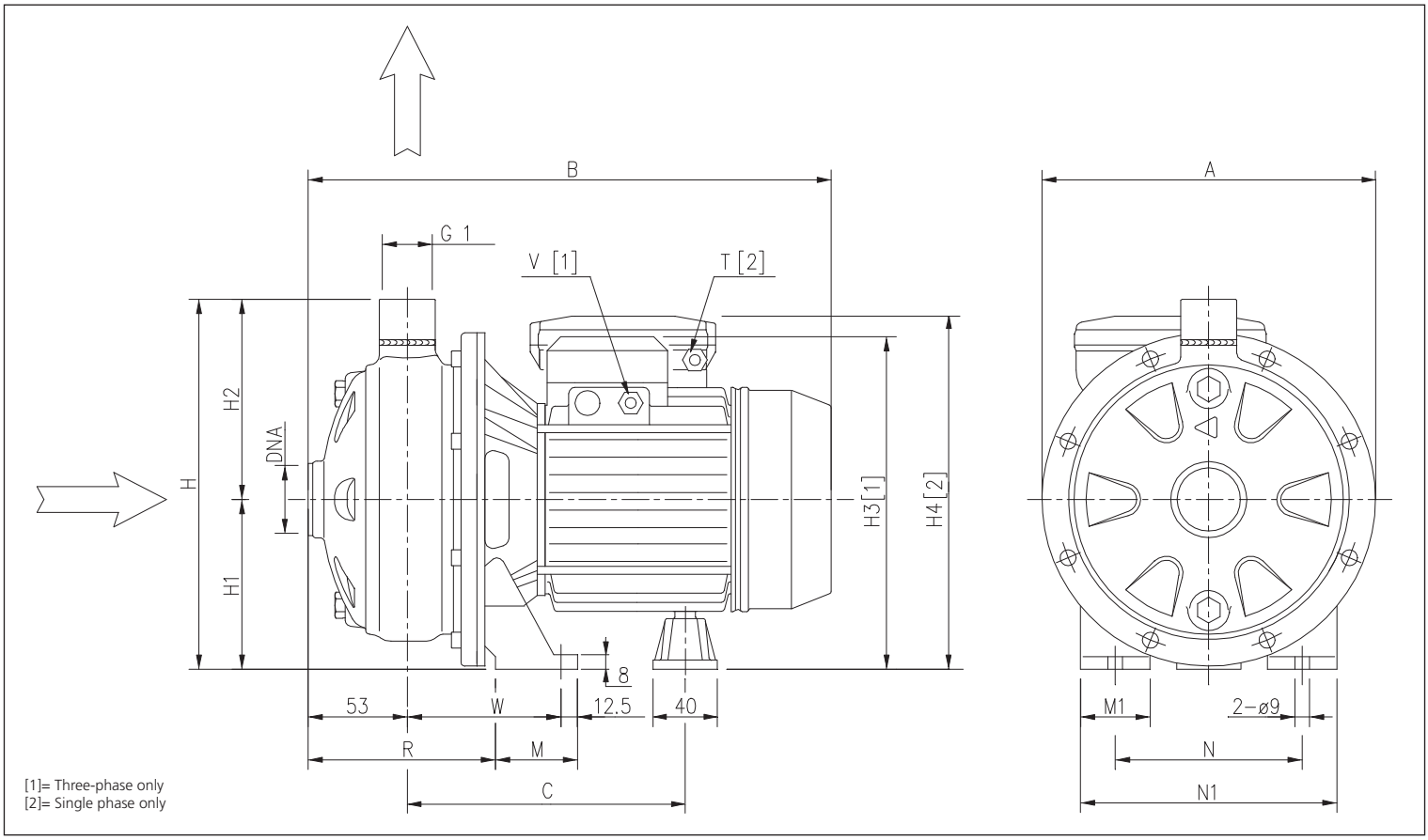
SINGLE IMPELLER CENTRIFUGAL ELECTRIC PUMPS

in AISI 304

PERFORMANCE TABLE

Model 230V single phase	Model 230/400V three-phase	P_2 [HP]	P_2 [kW]	Q=Flow rate 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	0,8	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	0,8	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		-	29,5	27,1	26,1	24,3	22,4	19,5	-	-	-
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		-	-	20,6	20,2	19,5	18,5	17,1	16,1	14,6	12,5
CDXM 200/20	CDX 200/20	2	1,5		-	-	31,0	30,6	29,7	28,9	27,5	26,6	25,1	23,0
-	CDX 200/25	2,5	1,8		-	-	38,0	37,5	36,4	35,3	33,6	32,4	30,5	28,0

DIMENSIONS



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

DIMENSIONS TABLE

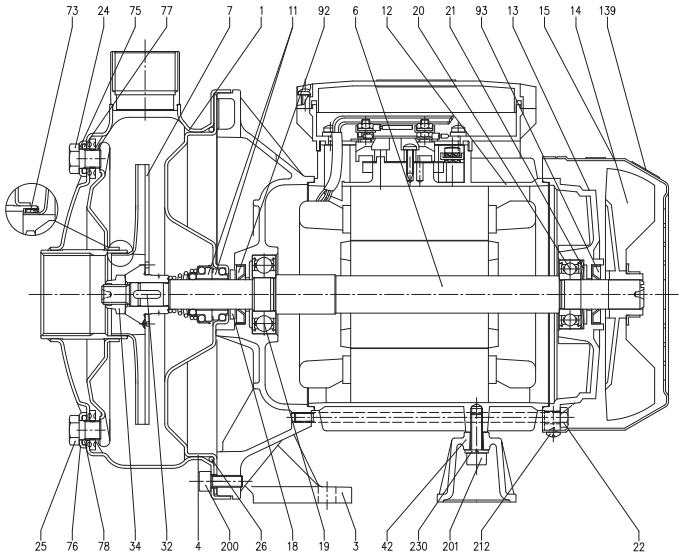
Model	Dimensions [mm] A	B	C	H	H1	H2	H3	H4	M	M1	N	N1	R	T	V	W	DNA	Weight [kg] [2]	[1]
CDX(M) 70/05	208	321	182	229.5	106	123.5	208	216	50	38	120	160	108	PG11	PG11	93	G1 ¼	9,1	9,1
CDX(M) 70/07	208	321	182	229.5	106	123.5	208	216	50	38	120	160	108	PG11	PG11	93	G1 ¼	10,4	10,4
CDX(M) 90/10	208	321	182	229.5	106	123.5	208	216	50	38	120	160	108	PG11	PG11	93	G1 ¼	11,9	11,9
CDX(M) 120/07	208	321	182	229.5	106	123.5	208	216	50	38	120	160	108	PG11	PG11	93	G1 ¼	10,4	10,4
CDX(M) 120/12	208	321	182	229.5	106	123.5	208	216	50	38	120	160	108	PG11	PG11	93	G1 ¼	12,5	12,5
CDX(M) 120/20	232	347	204	250	118	132	237	249	55	40	140	180	105.5	PG13.5	PG11	95	G1 ¼	17,2	16,2
CDX(M) 200/12	208	321	182	229.5	106	123.5	208	216	50	38	120	160	108	PG13.5	PG11	93	G1 ½	16,3	11,4
CDX(M) 200/20	208	347	204	229.5	106	123.5	225	237	55	40	140	180	105.5	PG13.5	PG11	95	G1 ½	15,3	14,2
CDX 200/25	232	347	204	250	118	132	237	-	55	40	140	180	105.5	-	PG11	95	G1 ½	-	17,0

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

CDX

SINGLE IMPELLER CENTRIFUGAL ELECTRIC PUMPS
in AISI 304

SECTIONAL VIEW

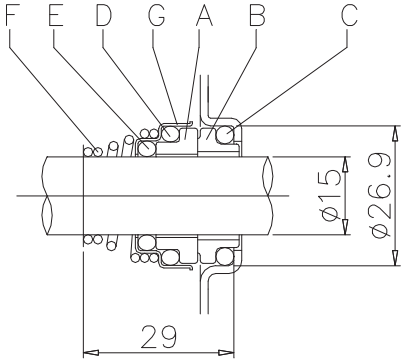


MATERIALS TABLE

Ref.	Name	Material	Ref.	Name	Material
1	Pump body	EN 1.4301 (AISI 304)	25	Drain plug	AISI 303
3	Motor support	Aluminium	26	O-Ring [3]	NBR
4	Seal housing disc	EN 1.4301 (AISI 304)	32	Key	EN 1.4301 (AISI 304)
6	Rotor shaft	AISI 303 Part in contact with the liquid	34	Impeller nut	EN 1.4301 (AISI 304)
7	Impeller	EN 1.4301 (AISI 304)	42	Foot	Aluminium
11	Mechanical seal [3]	Carbon/Ceramic/NBR	52	Terminal box [2]	Polypropylene
12	Motor case	-	53	Terminal box cover [2]	Polypropylene
13	Motor cover	Aluminium	56	Terminal box cover gasket	NBR
14	Fan	Polypropylene	73	Wear ring [4]	EN 1.4301 (AISI 304)
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 [3]	NBR
18	Spray protector ring	NBR	78	O-Ring [3]	NBR
19	Bearing (pump side)	-	90	Gasket	NBR
20	Bearing (motor side)	-	92	Sealing ring	-
21	Adjusting ring	Steel C70	93	Sealing ring	-
22	Tie-rod	Galvanised Fe 42	110	Motorprotector [2]	-
23	Capacitor [2]	-	200	Screw (pump body)	A2 UNI7323 stainless steel
24	Filler cap	AISI 303			

[1]= For three-phase only
[2]= For single phase only
[3]= FPM for CDXH and CDXHS
[4]= NBR for: CDX 70/05, 70/07, 90/10, FPM for CDXH 70/05, 70/07, 90/10 and CDXHS 70/05, 70/07, 90/10

MECHANICAL SEAL CDX standard



MATERIALS TABLE

Ref.	Name	Material
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

CDX

SINGLE IMPELLER CENTRIFUGAL ELECTRIC PUMPS

in AISI 304

SPECIAL MECHANICAL SEALS (on request)

Name	Material				
	H version	HS version	HW version	HSW version	E version
Fixed Part	Carbon	SiC	Tungsten Carbide	Tungsten Carbide	Carbon
Rotating Part	Ceramic	SiC	Tungsten Carbide	SiC	Ceramic
Elastomers	FPM	FPM	FPM	FPM	EPDM
Spring	AISI 316	AISI 316	AISI 316	AISI 316	AISI 316
Structure/Frame	AISI 304	AISI 316	AISI 304	AISI 304	AISI 316

ELECTRIC DATA TABLE

Model		P_2		Single phase Capacitor		P_1		Absorbed Current [A]		
230V single phase	230/400V three-phase	[HP]	[kW]	µF	V_c	Single phase [kW]	Three-phase [kW]	Single phase 230V	Three-phase 230V	Three-phase 400V
CDXM 70/05	CDX 70/05	0,5	0,37	12,5	450	0,7	0,7	3,1	2,4	1,4
CDXM 70/07	CDX 70/07	0,75	0,55	16	450	1	1	4,6	3,5	2
CDXM 90/10	CDX 90/10	1	0,75	20	450	1,2	1,1	5,6	4	2,3
CDXM 120/07	CDX 120/07	0,75	0,55	16	450	1	1	4,6	3,2	1,9
CDXM 120/12	CDX 120/12	1,2	0,9	31,5	450	1,6	1,6	6,9	5,2	3
CDXM 120/20	CDX 120/20	2	1,5	40	450	2,1	2,1	9,3	7	4
CDXM 200/12	CDX 200/12	1,2	0,9	31,5	450	1,4	1,3	6,3	4,7	2,7
CDXM 200/20	CDX 200/20	2	1,5	40	450	2,3	2,1	10,7	7	4
-	CDX 200/25	2,5	1,8	-	-	-	2,8	-	8,2	4,8

2CDX

DUAL IMPELLER CENTRIFUGAL ELECTRIC PUMPS

in AISI 304

Dual impeller centrifugal electric pumps with hydraulic parts in AISI 304 stainless steel.

APPLICATIONS

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

TECHNICAL DETAILS

- Strong structure
- Small dimensions

TECHNICAL DATA

- Maximum working pressure: 8 bar
- Maximum temperature of the liquid:
  -10°C ÷ +60°C
  -10°C ÷ +110° in the H-HS version
- Self-ventilated 2 pole asynchronous motor
- Class of insulation F
- IP55 Protection rating
- 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
- G1½ suction connection for CDX 200, G1¼ for the rest of the range
- G1 discharge connection

MATERIALS

- Pump body, impeller, shaft, nozzle and seal housing disc in AISI 304
- Aluminium motor support (up to 1.5 kW included), in cast iron (2.2 kW and above)
- Mechanical sealing in:
  - Ceramic/Carbon/NBR (standard)
  - Ceramic/Carbon/FPM (H version)
  - SiC/SiC/FPM (HS version)
  - Tungsten carbide/Tungsten carbide/FPM (HW version - seal with reduced slide face)
- SiC/Tungsten carbide/FPM (HSW version)
- Ceramic/Graphite/EPDM (E version)

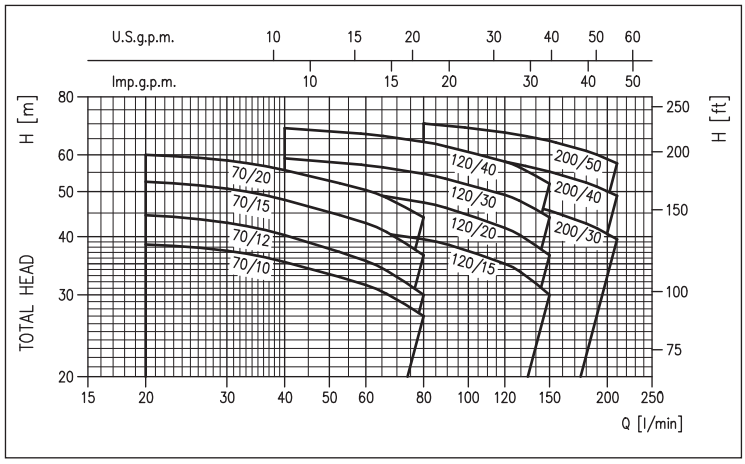
CONTROL PANELS

- 1EPBH (see page 207)

ACCESSORIES (on request)

- 5 litre 10 bar ¾ EPDM vessel
- 24 litre 8 bar 1" EPDM vessel
- 24 litre 10 bar 1" EPDM vessel
- PVC 5m key float with counter-weight
- PVC 10m key float with counter-weight
- SQUARE-D FSG-2 1.4÷4.6 bar G¼ F pressure switch
- FYG-22 2.8÷7 bar G¼ F pressure switch
- Presscomfort - Pressure regulator (see page 208)
- Press•o•Matic - Variable speed control system (single phase 230V±10% - power supply three phase 220V output – maximum motor power 2.2 kW - 3 HP - see page 209)

PERFORMANCE RANGE (according to ISO 9906 Attachment A)



IDENTIFICATION CODE

2CDX	H	M	120	/	15

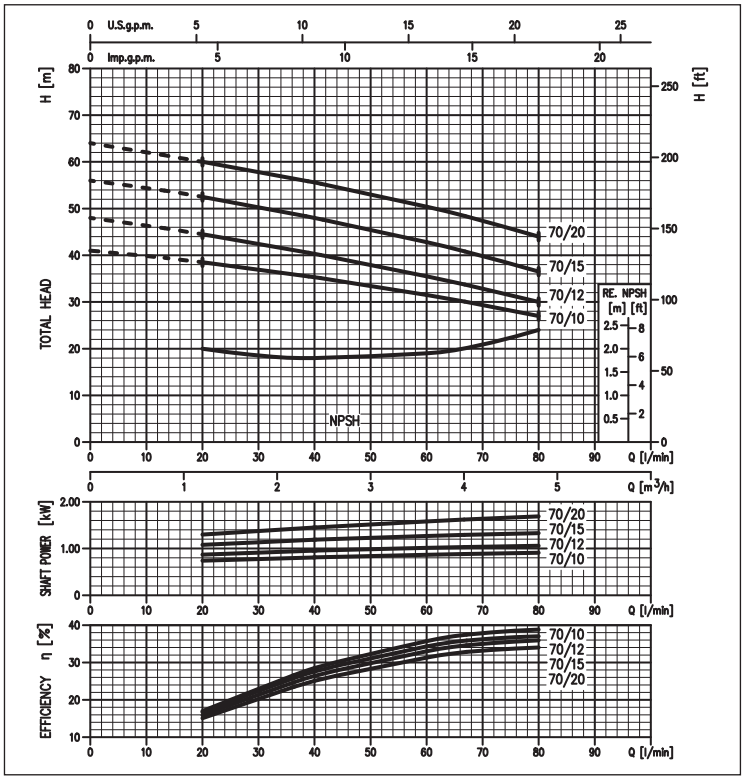
- 15 → Power HP: 10, 12, 15, 20, 30, 40, 50
- 120 → Hydraulic code: 70, 120, 200
- M → Single phase
- H → Optional version: H, HS, HW, HSW
- 2CDX → Model: E

DUAL IMPELLER CENTRIFUGAL ELECTRIC PUMPS

in AISI 304

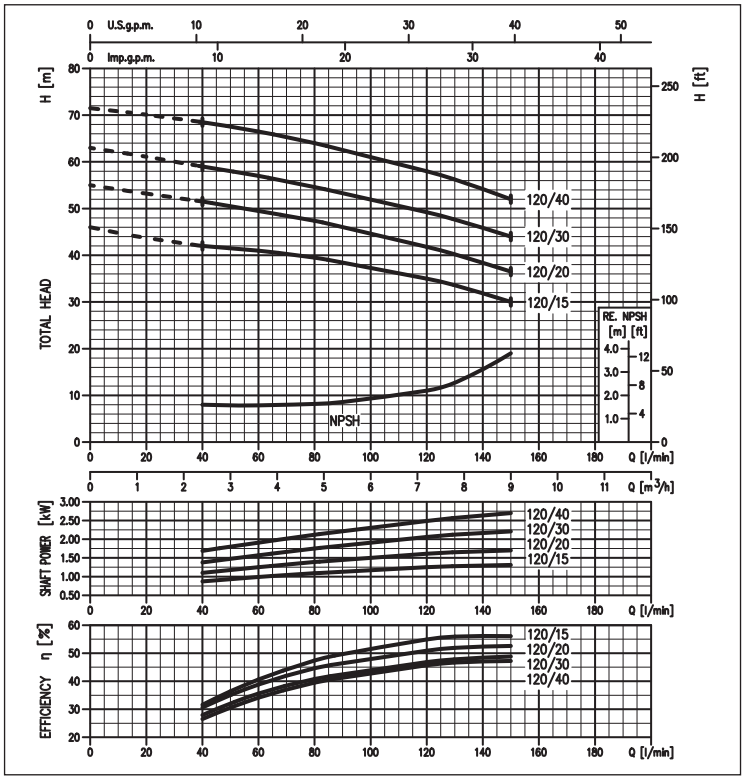
2CDX 70 range PERFORMANCE CURVES

(according to ISO 9906 Attachment A)



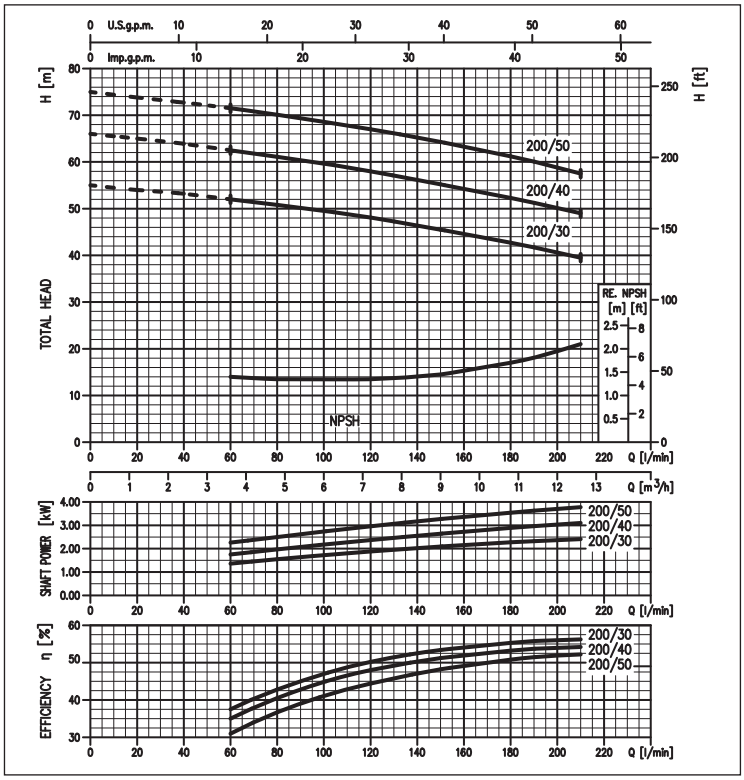
2CDX 120 range PERFORMANCE CURVES

(according to ISO 9906 Attachment A)



2CDX 200 range PERFORMANCE CURVES

(according to ISO 9906 Attachment A)



2CDX

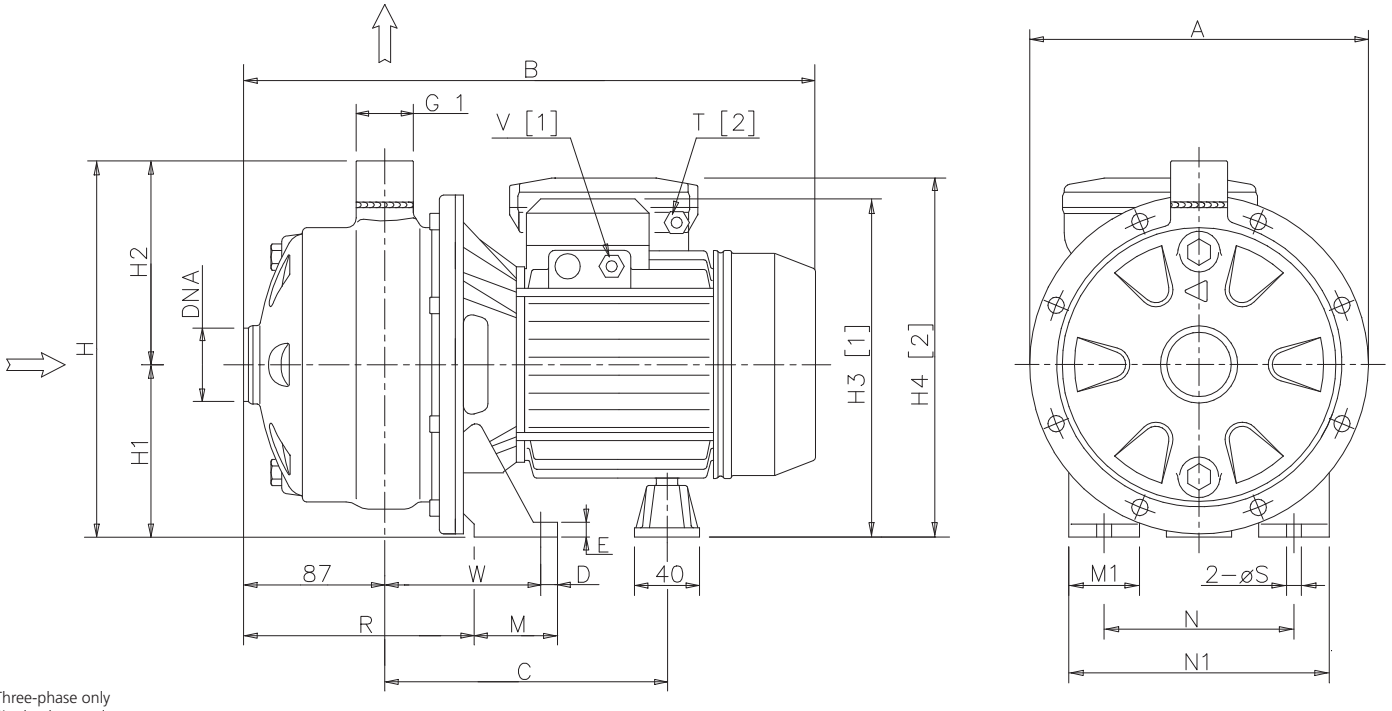
DUAL IMPELLER CENTRIFUGAL ELECTRIC PUMPS

in AISI 304

PERFORMANCE TABLE

Model 230V single phase	Model 230/400V three-phase	P_2 [HP]	P_2 [kW]	Q=Flow rate 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	5,5	3,7		-	-	71,5	70,1	67,0	64,3	61,2	57,5

DIMENSIONS



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

DIMENSIONS TABLE

Model	Dimensions [mm] A	B	C	D	E	H	H1	H2	H3	H4	M	M1	N	N1	R	T	V	W	S	DNA	Weight [kg] [2]	[1]
2CDX(M) 70/10	208	355	182	12,5	8	229	106	123	208	216	50	38	120	160	143	PG 11	PG 11	93	9	G1¼	13,5	13,3
2CDX(M) 70/12	208	355	182	12,5	8	229	106	123	208	235	50	38	120	160	143	PG 13,5	PG 11	93	9	G1¼	14,2	13,8
2CDX(M) 70/15	232	383	204	12,5	8	250	118	132	237	249	55	40	140	180	142	PG 13,5	PG 11	95	9	G1¼	17,4	16,4
2CDX(M) 70/20	232	383	204	12,5	8	250	118	132	237	249	55	40	140	180	142	PG 13,5	PG 11	95	9	G1¼	18,6	18,2
2CDX(M) 120/15	208	383	204	12,5	8	229	106	123	225	237	55	40	140	180	142	PG 13,5	PG 11	95	9	G1¼	15,5	15,3
2CDX(M) 120/20	208	383	204	12,5	8	229	106	123	225	237	55	40	140	180	142	PG 13,5	PG 11	95	9	G1¼	18,0	16,9
2CDX 120/30	232	397	205/216	12,5	8	250	118	132	244	-	65	40	140	180	144	-	PG 13,5	109	9	G1¼	-	23,2
2CDX 120/40	232	422	230/241	12,5	10	250	118	132	244	-	65	40	140	180	144	-	PG 13,5	109	9	G1¼	-	26,4
2CDX 200/30	208	419	227/238	12,5	10	229	106	123	232	-	65	40	140	180	144	-	PG 13,5	109	9	G1½	-	25,0
2CDX 200/40	232	422	230/241	12,5	10	250	118	132	244	-	65	40	140	180	144	-	PG 13,5	109	9	G1½	-	25,0
2CDX 200/50	232	435	232	16	13	250	118	132	257	-	68	50	160	210	144	-	PG 16	109	12	G1½	-	32,7

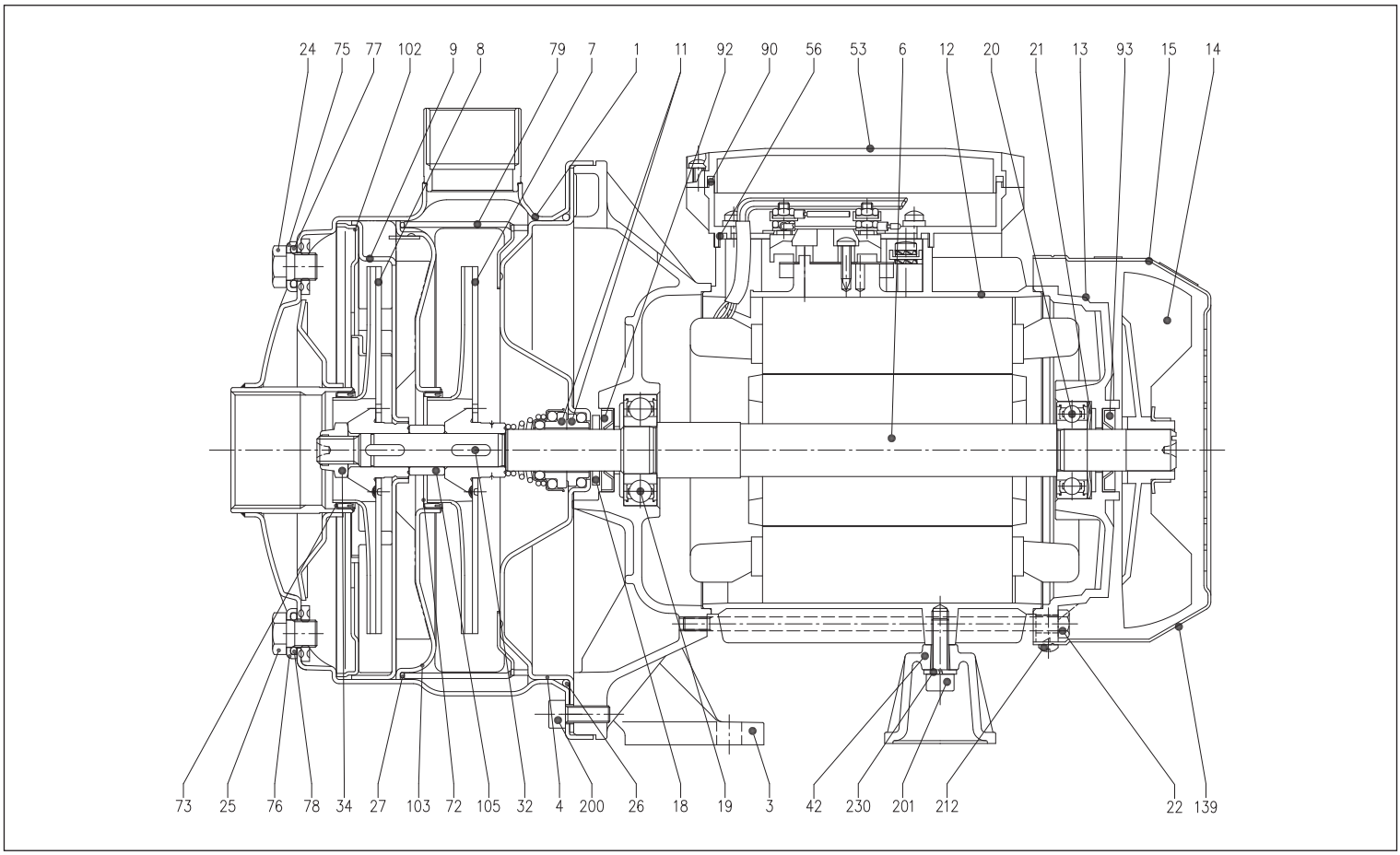
[1]= Three-phase only
[2]= Single phase only

2CDX

DUAL IMPELLER CENTRIFUGAL ELECTRIC PUMPS

in AISI 304

SECTIONAL VIEW



MATERIALS TABLE

Ref.	Name	Material	Ref.	Name	Material
1	Pump body	EN 1.4301 (AISI 304)	26	O-Ring [3]	NBR
3	Motor support	Aluminium (up to1.5 kW included)	27	O-Ring [3]	NBR
		Cast iron (from 2.2 kW and above)	32	Key	EN 1.4301 (AISI 304)
4	Seal housing disc	EN 1.4301 (AISI 304)	34	Impeller nut	EN 1.4301 (AISI 304)
6	Rotor shaft	AISI 304 Part in contact with the liquid	42	Foot	Aluminium
7	Impeller	EN 1.4301 (AISI 304)	52	Terminal box [1]	Polypropylene
8	Impeller	EN 1.4301 (AISI 304)	53	Terminal box cover [1]	Polypropylene
9	Nozzle	EN 1.4301 (AISI 304)	56	Terminal box cover gasket	NBR
11	Mechanical seal [3]	Carbon/Ceramic/NBR	72	Wear ring [3]	NBR
12	Motor case	-	73	Wear ring [3]	NBR
13	Motor cover	Aluminium	75	Washer	EN 1.4301 (AISI 304)
14	Fan	Polypropylene	76	Washer	EN 1.4301 (AISI 304)
15	Fan cover	Galvanised Fe P04	77	O-Ring [3]	NBR
16	Terminal box	-	78	O-Ring [3]	NBR
17	Terminal box cover [2]	Aluminium	79	Nozzle spacer	EN 1.4301 (AISI 304)
18	Spray protector ring	NBR	90	Gasket	NBR
19	Bearing (pump side)	-	92	Sealing ring	-
20	Bearing (motor side)	-	93	Sealing ring	-
21	Adjusting ring	Steel C70	102	Nozzle cover	EN 1.4301 (AISI 304)
22	Tie-rod	Galvanised Fe 42	103	Conveyor cover	EN 1.4301 (AISI 304)
23	Capacitor [1]	-	105	Impeller spacer	EN 1.4301 (AISI 304)
24	Filler cap	AISI 303	110	Motorprotector [1]	-
25	Drain plug	AISI 303	200	Screw (pump body)	A2 UNI7323 stainless steel

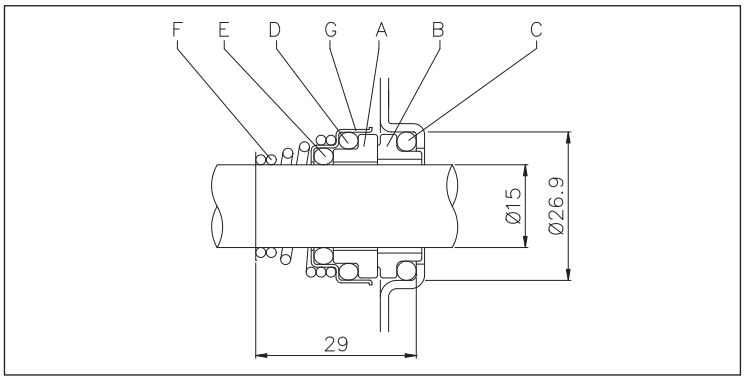
[1]= Three-phase only
[2]= Single phase only
[3]= FPM for 2CDXH and 2CDXHS

2CDX

DUAL IMPELLER CENTRIFUGAL ELECTRIC PUMPS

in AISI 304

MECHANICAL SEAL 2CDX standard



MATERIALS TABLE

Ref.	Name	Material
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)

Name	Material				
	H version	HS version	HW version	HSW version	E version
Fixed Part	Carbon	SiC	Tungsten Carbide	Tungsten Carbide	Carbon
Rotating Part	Ceramic	SiC	Tungsten Carbide	SiC	Ceramic
Elastomers	FPM	FPM	FPM	FPM	EPDM
Spring	AISI 316	AISI 316	AISI 316	AISI 316	AISI 316
Structure/Frame	AISI 304	AISI 316	AISI 304	AISI 304	AISI 316

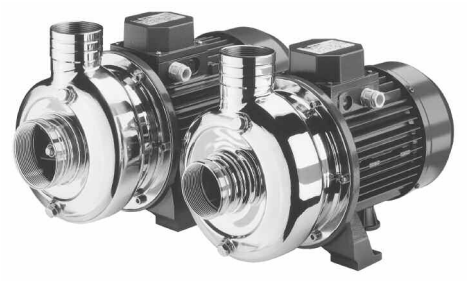
ELECTRIC DATA TABLE

Model		P_2		Single phase Capacitor		P_1		Absorbed Current [A]		
230V single phase	230/400V three-phase	[HP]	[kW]	µF	V_c	Single phase [kW]	Three phase [kW]	Single phase 230V	Three phase 230V	Three phase 400V
2CDXM 70/10	2CDX 70/10	1	0,75	20	450	1,30	1,18	6,0	4,0	2,3
2CDXM 70/12	2CDX 70/12	1,2	0,9	31,5	450	1,50	1,50	7,0	5,0	2,9
2CDXM 70/15	2CDX 70/15	1,5	1,1	35	450	1,80	1,64	8,0	5,6	3,2
2CDXM 70/20	2CDX 70/20	2	1,5	40	450	2,30	2,20	9,9	7,0	4,0
2CDXM 120/15	2CDX 120/15	1,5	1,1	35	450	1,80	1,70	8,3	5,6	3,2
2CDXM 120/20	2CDX 120/20	2	1,5	40	450	2,35	2,20	10,2	7,0	4,0
-	2CDX 120/30	3	2,2	-	-	-	2,85	-	8,7	5,0
-	2CDX 120/40	4	3	-	-	-	3,50	-	10,8	6,2
-	2CDX 200/30	3	2,2	-	-	-	3,05	-	10,4	6,0
-	2CDX 200/40	4	3	-	-	-	3,85	-	11,4	6,6
-	2CDX 200/50	5,5	3,7	-	-	-	4,60	-	15,0	8,7

DWO

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
- Moving, evacuation, transfer of liquids

TECHNICAL DETAILS

- Strong construction
- Small dimensions
- Silent

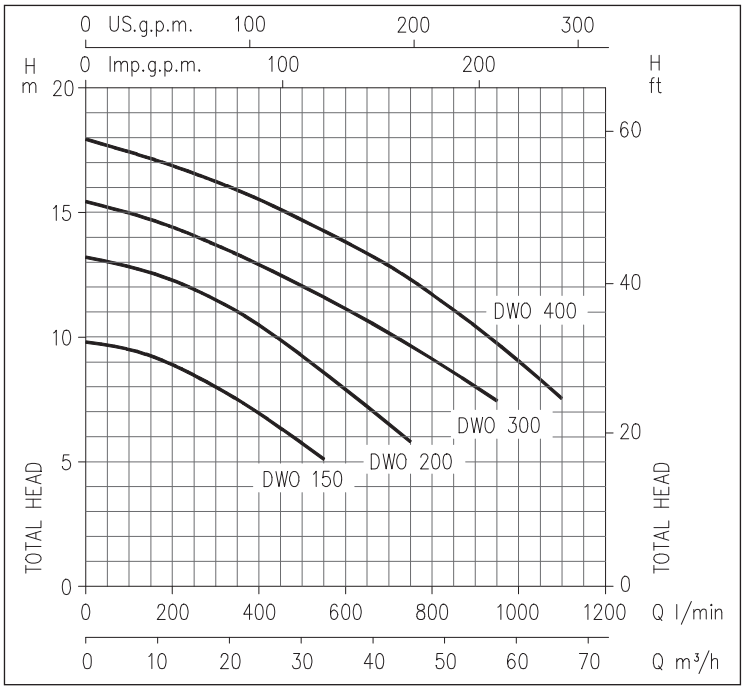
TECHNICAL DATA

- Maximum working pressure: 8 bar
- Maximum temperature of the liquid: 90°C
- Max. solids size for passage: 19 mm
- Self-ventilated 2 pole asynchronous motor
- Class of insulation F
- IP55 Protection rating
- 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
- G1½ suction connection for DWO 300-400, G2 for the rest of the range
- G2 discharge connection

MATERIALS

- Pump body, seal housing disc, impeller and shaft in AISI 304
- Support and motor casing in aluminium
- Mechanical sealing in:
  - Ceramic/Carbon/NBR (standard)
  - Ceramic/Carbon/FPM (H version)
  - SiC/SiC/FPM (HS version)
  - Tungsten carbide/Tungsten carbide/FPM (HW version)

PERFORMANCE CURVES (according to ISO 9906 Attachment A)



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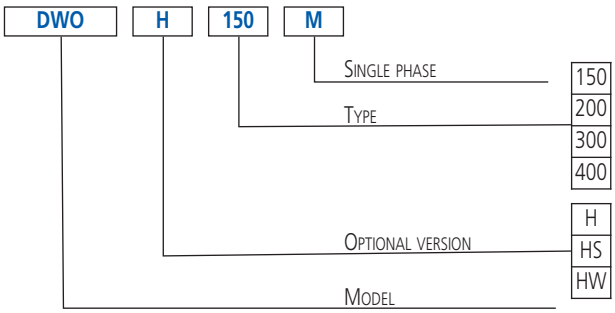


DWO

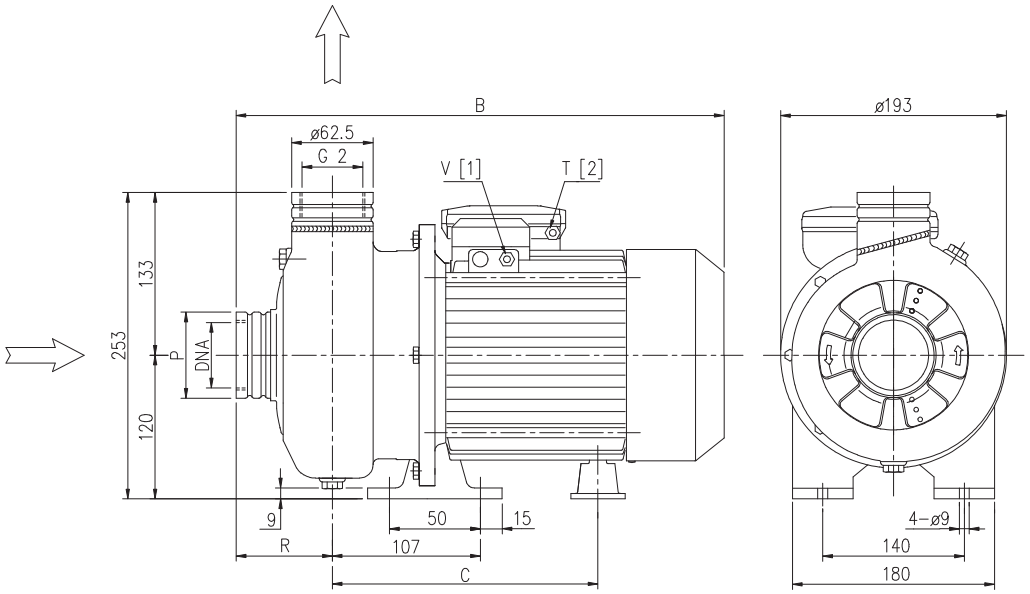
OPEN IMPELLER CENTRIFUGAL ELECTRIC PUMPS

in AISI 304

PERFORMANCE TABLE

Model 230V single phase	Model 230/400V three-phase	P_2 [HP]	P_2 [kW]	Q=Flow rate l/min	100	200	300	400	550	750	950	1100
				m^3/h	6	12	18	24	33	42	57	66
				H=Head [m]								
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



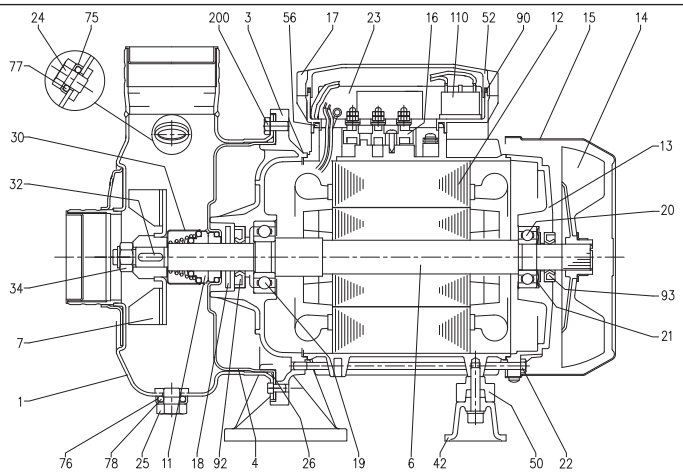
[1]= Three-phase only
[2]= Single phase only

DIMENSIONS TABLE

Model	Dimensions [mm] B	C	R	Ø P	V	T	Ø DNA	Weight [kg] [2]	[1]
DWO 150	364	198,5	74	62,5	PG11	PG13,5	G2	13,6	12,6
DWO 200	364	198,5	74	62,5	PG11	PG13,5	G2	15,7	14,4
DWO 300	390	215,5	78	80	PG13,5	-	G2½		16,9
DWO 400	415	240,5	78	80	PG13,5	-	G2½		20,0

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

SECTIONAL VIEW



DWO

OPEN IMPELLER CENTRIFUGAL ELECTRIC PUMPS

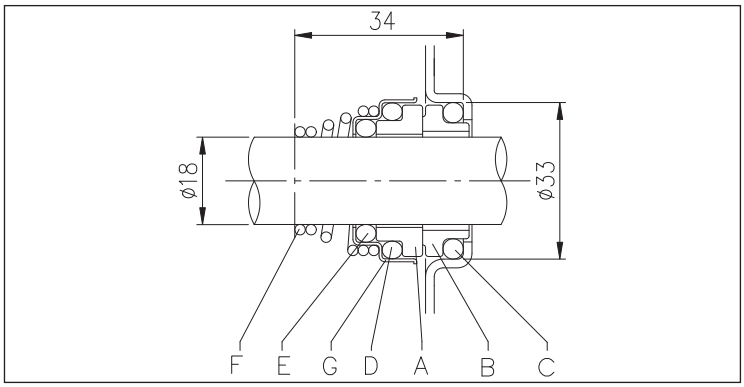
in AISI 304

MATERIALS TABLE

Ref.	Name	Material	Ref.	Name	Material
1	Pump body	EN 1.4301 (AISI 304)	25	Drain plug	AISI 303
3	Motor support	Aluminium	26	O-Ring	NBR
4	Seal housing disc	EN 1.4301 (AISI 304)	30	Spray protector washer	EN 1.4301 (AISI 304)
6	Shaft	EN 1.4301 (AISI 304) Part in contact with the liquid	32	Key	EN 1.4301 (AISI 304)
7	Impeller	EN 1.4301 (AISI 304)	34	Impeller nut	EN 1.4301 (AISI 304)
11	Mechanical seal	Carbon/Ceramic/NBR	42	Foot	Aluminium
12	Motor case	-	50	Foot spacer	-
13	Motor cover	Aluminium	52	Capacitor-holder box	Polypropylene
14	Fan	Polypropylene	56	Terminal box cover gasket [1]	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	Spray protector ring	NBR	78	O-Ring	NBR
19	Bearing (pump side)	-	90	Terminal box cover box gasket [2]	NBR
20	Bearing (motor side)	-	92	Sealing ring	-
21	Adjusting ring	Steel C70	93	Sealing ring	-
22	Tie-rod	Galvanised Fe 42	110	Motorprotector [2]	-
23	Capacitor [2]	-	200	Screw (pump body)	A2 UNI7323 stainless steel
24	Filler cap	AISI 303			

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

MECHANICAL SEAL standard



MATERIALS TABLE

Ref.	Name	Material
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)

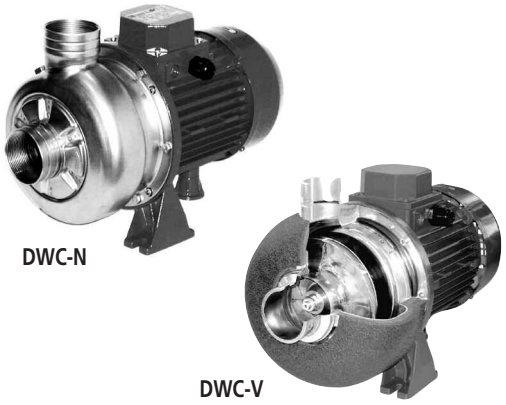
Name	Material		
	H version	HS version	HW version
Fixed Part	Carbon	SiC	Tungsten Carbide
Rotating Part	Ceramic	SiC	Tungsten Carbide
Elastomers	FPM	FPM	FPM
Spring	AISI 316	AISI 316	AISI 316
Structure/Frame	AISI 304	AISI 316	AISI 304

ELECTRIC DATA TABLE

Model		P_2		Single phase Capacitor		P_1		Absorbed Current [A]		
230V single phase	230/400V three-phase	[HP]	[kW]	µF	V_c	Single phase [kW]	Three phase [kW]	Single phase 230V	Three phase 230V	Three phase 400V
DWO 150 M	DWO 150	1,5	1,1	31,5	450	1,36	1,25	6,8	4,4	2,5
DWO 200 M	DWO 200	2	1,5	40	450	2,05	2,0	9,0	6,1	3,5
-	DWO 300	3	2,2	-	-	-	2,7	-	8,3	4,8
-	DWO 400	4	3	-	-	-	3,7	-	11,0	6,4

DWC

CLOSED IMPELLER CENTRIFUGAL ELECTRIC PUMPS
in AISI 304


DWC-N

DWC-V

Closed impeller centrifugal electric pumps in AISI 304 stainless steel.

APPLICATIONS
- Cooling, air-conditioning and heating systems
- Chiller
- Washing systems
- Provisioning of civil and industrial water

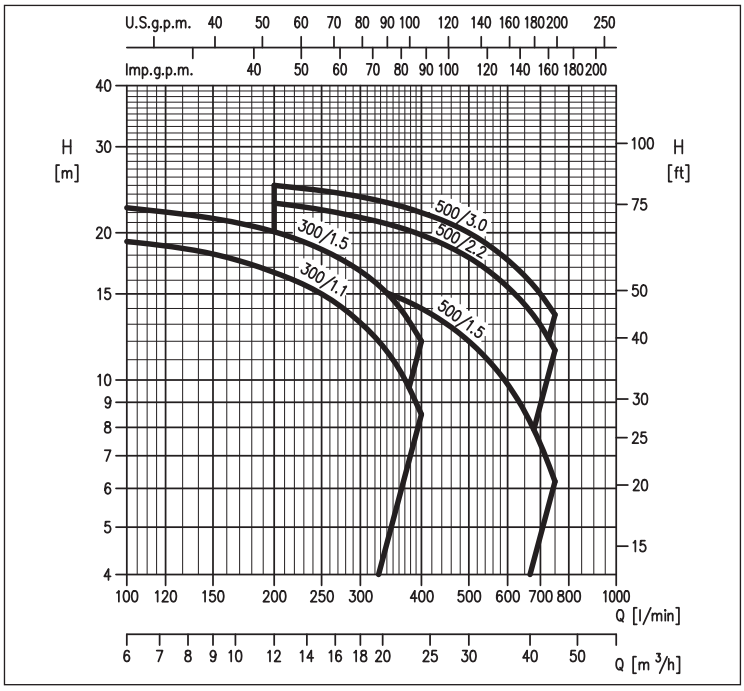
TECHNICAL DETAILS
- Available in versions with threaded (DWC-N) and Victaulic connections (DWC-V)
- Insulation as per standard for the Victaulic version (DWC-V)

TECHNICAL DATA
- Maximum working pressure: 8 bar
- Temperature of the liquid: from -15°C to +90°C
- Self-ventilated 2 pole asynchronous motor
- Class of insulation F
- IP55 Protection rating
- 230/400V ±10%, 50Hz three phase voltage
- Protection under user's responsibility for the three phase version
- G2 suction and discharge connection for DWC-N
- Ø2" (60.3 mm) suction and discharge connection for DWC-V

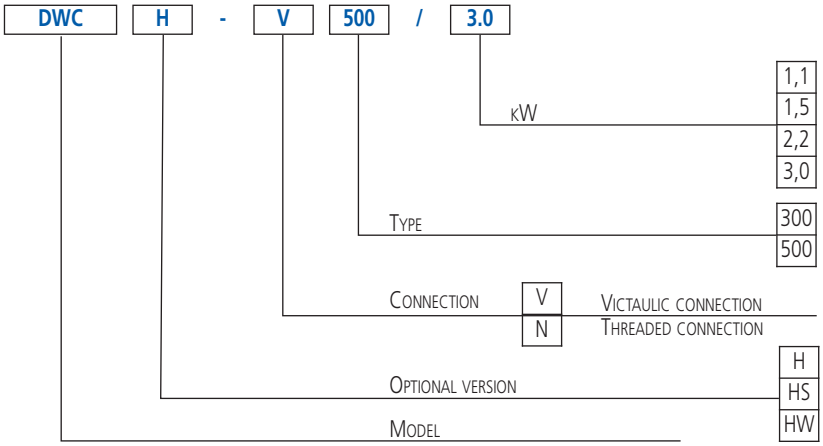
MATERIALS
- Pump body, seal housing disc, impeller and shaft in AISI 304
- Support and motor casing in aluminium
- Mechanical sealing in:
  - Ceramic/Carbon/EPDM (standard)
  - Ceramic/Carbon/FPM (H version)
  - SiC/SiC/FPM (HS version)
  - Tungsten carbide/Tungsten carbide/FPM (HW version)

ACCESSORIES (on request)
- DWC body insulation casing

PERFORMANCE RANGE (according to ISO 9906 Attachment A)



IDENTIFICATION CODE



DWC

CLOSED IMPELLER CENTRIFUGAL ELECTRIC PUMPS

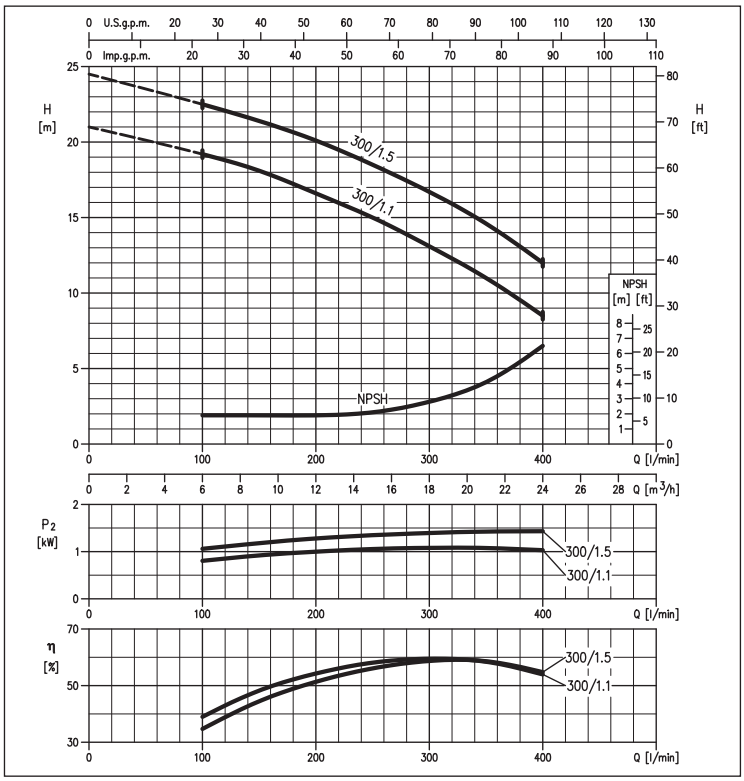
in AISI 304

PERFORMANCE TABLE

Model 230/400V three-phase	P_2 [HP]	P_2 [kW]	Q=Flow rate l/min	100	150	200	250	300	350	400	500	600	700	750
			m^3/h	6	9	12	15	18	21	24	30	36	42	45
			H=Head [m]											
DWC 300/1,1	1,5	1,1		19,2	18,1	16,6	15,0	13,1	11,0	8,5	-	-	-	-
DWC 300/1,5	2	1,5		22,5	21,4	20,1	18,5	16,7	14,6	12,0	-	-	-	-
DWC 500/1,5	2	1,5		-	-	17,0	16,4	15,7	14,9	14,0	12,0	9,8	7,4	6,2
DWC 500/2,2	3	2,2		-	-	23,0	22,3	21,5	20,7	19,8	17,8	15,5	13,0	11,5
DWC 500/3,0	4	3		-	-	25,0	24,4	23,7	22,9	22,0	20,0	17,6	15,0	13,6

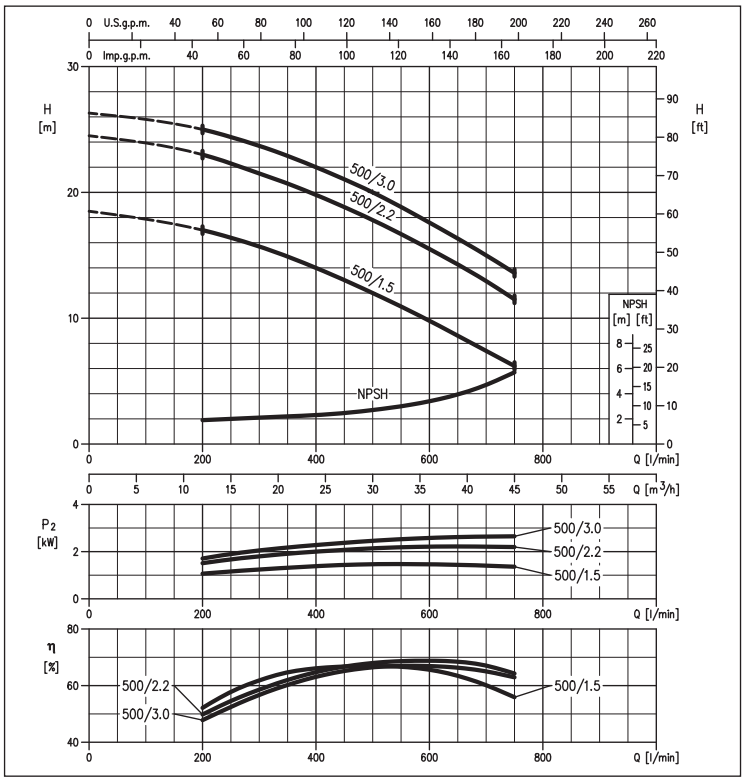
DWC 300 range PERFORMANCE CURVES

(according to ISO 9906 Attachment A)

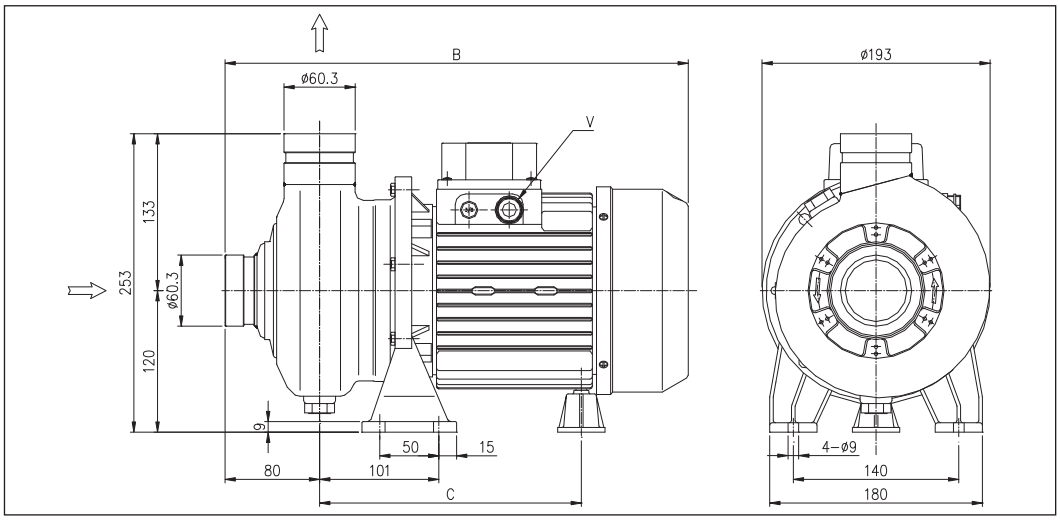


DWC 500 range PERFORMANCE CURVES

(according to ISO 9906 Attachment A)



DWC-V DIMENSIONS (VICTAULIC CONNECTION)



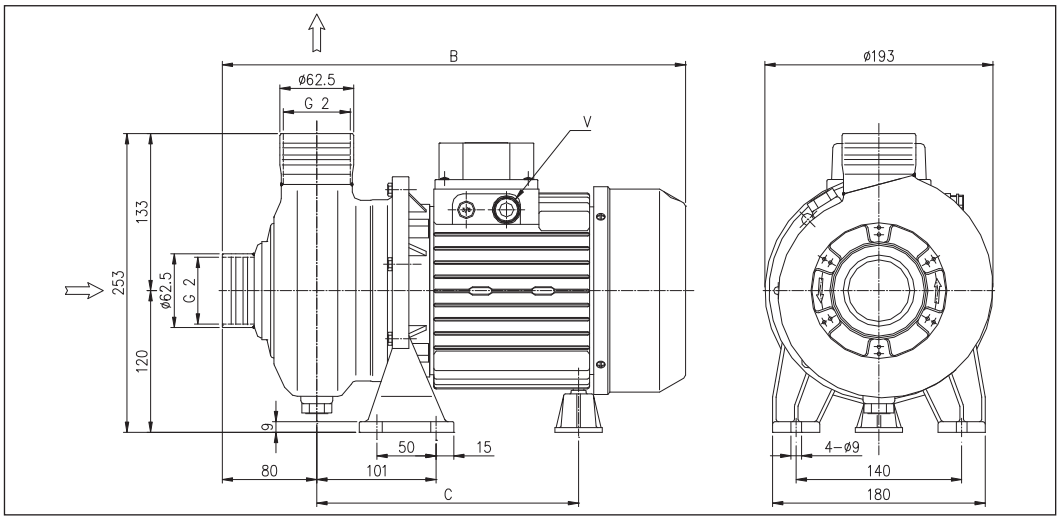
DIMENSIONS TABLE

Model	Dimensions [mm] B	C	V	Weight [kg]
DWC 300/1,1	371,5	197,5	PG11	13,6
DWC 300/1,5	371,5	197,5	PG11	14,2
DWC 500/1,5	371,5	197,5	PG11	15,0
DWC 500/2,2	392	221,5	PG13,5	17,1
DWC 500/3,0	392	221,5	PG13,5	20,0

DWC

CLOSED IMPELLER CENTRIFUGAL ELECTRIC PUMPS
in AISI 304

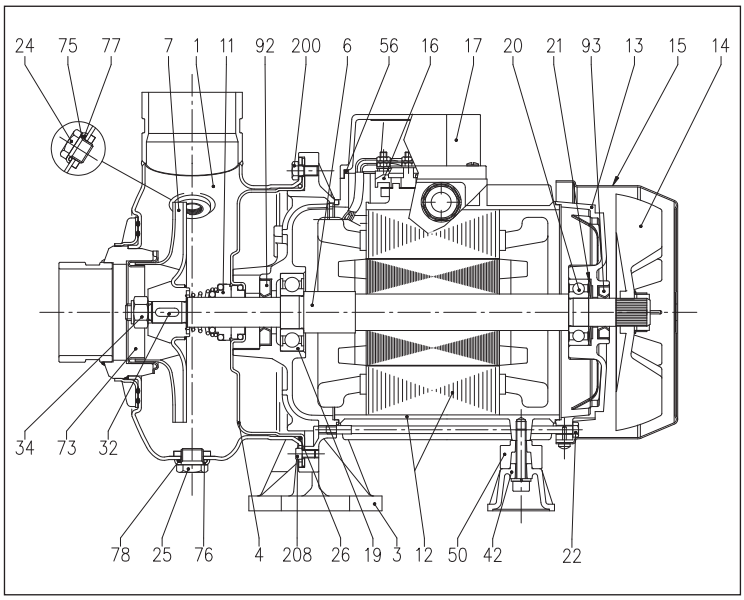
DWC-N DIMENSIONS (THREADED CONNECTION)



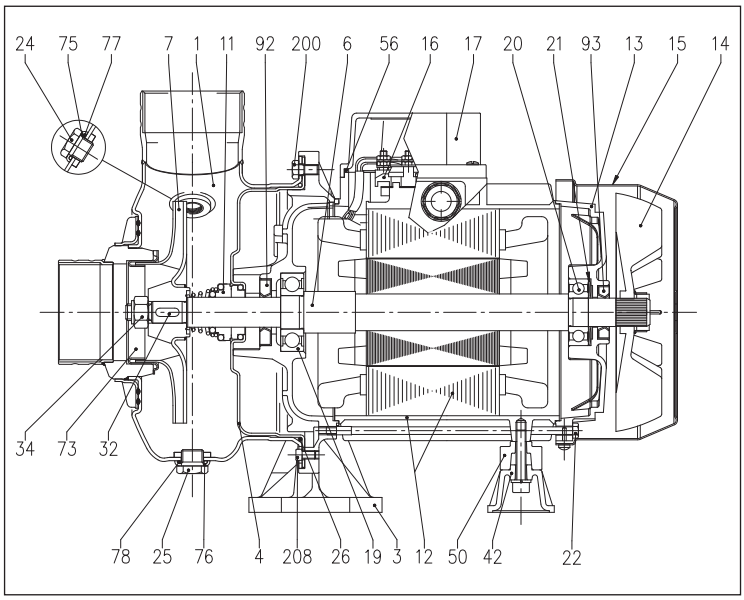
DIMENSIONS TABLE

Model	Dimensions [mm] B	C	V	Weight [kg]
DWC 300/1,1	371,5	197,5	PG11	13,6
DWC 300/1,5	371,5	197,5	PG11	14,2
DWC 500/1,5	371,5	197,5	PG11	15,0
DWC 500/2,2	392	221,5	PG13,5	17,1
DWC 500/3,0	392	221,5	PG13,5	20,0

DWC-V SECTIONAL VIEW (VICTAULIC CONNECTION)



DWC-N SECTIONAL VIEW (THREADED CONNECTION)



MATERIALS TABLE

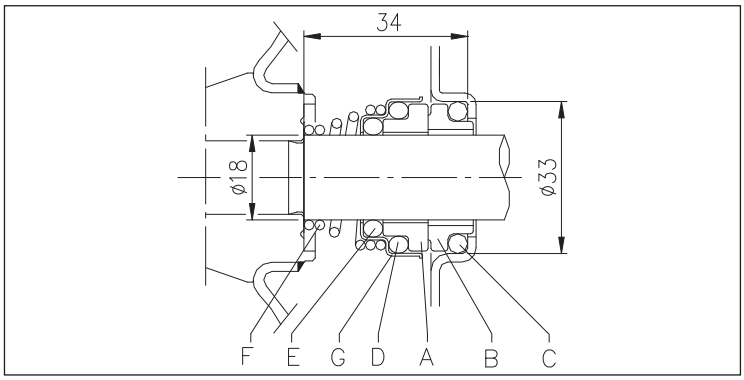
Ref.	Name	Material	Ref.	Name	Material
001	Pump body	EN 1.4301 (AISI 304)	025	Drain plug	EN 1.4301 (AISI 304)
003	Motor support	Aluminium	026	O-Ring	EPDM / FPM (H and W versions)
004	Seal housing disc	EN 1.4301 (AISI 304)	032	Key	EN 1.4401 (AISI 316)
006	Shaft	EN 1.4301 (AISI 304)	034	Impeller nut	EN 1.4301 (AISI 304)
007	Impeller	EN 1.4301 (AISI 304)	042	Foot	Aluminium / Galvanised Steel
011	Mechanical seal	Ceramic/Carbon/EPDM	050	Spacer	-
012	Motor case	-	056	Terminal box cover gasket	NBR
013	Motor cover	Aluminium	073	Wear ring	EN 1.4301 (AISI 304)
014	Fan	Polyamide	075	Washer	AISI 304
015	Fan cover	Galvanised steel Fe P04	076	Washer	AISI 304
016	Terminal box	-	077	O-Ring	EPDM / FPM (H and W versions)
017	Terminal box cover box	Aluminium	078	O-Ring	EPDM / FPM (H and W versions)
019	Bearing (pump side)	-	092	Sealing ring	-
020	Bearing (motor side)	-	093	Sealing ring	-
021	Adjusting ring	Steel C70	200	Screw (pump body)	Stainless steel A2-70 class ISO 3506/1
022	Tie-rod	Galvanised Fe 42	208	Screw	Stainless steel A2-70 class ISO 3506/1
024	Filler cap	EN 1.4301 (AISI 304)			

DWC

CLOSED IMPELLER CENTRIFUGAL ELECTRIC PUMPS

in AISI 304

MECHANICAL SEAL DWC standard



MATERIALS TABLE

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

SPECIAL MECHANICAL SEALS (on request)

Name	Material		
	H version	HS version	HW version
Fixed Part	Carbon	SiC	Tungsten Carbide
Rotating Part	Ceramic	SiC	Tungsten Carbide
Elastomers	FPM	FPM	FPM
Spring	AISI 316	AISI 316	AISI 316
Structure/Frame	AISI 304	AISI 316	AISI 304

ELECTRIC DATA TABLE

Model 230/400V three-phase	P_2		P_1	Absorbed Current [A] Three-phase	
	[HP]	[kW]	Three-phase [kW]	230V	400V
DWC 300/1,1	1,5	1,1	1,36	4,3	2,5
DWC 300/1,5	2	1,5	1,76	5,5	3,2
DWC 500/1,5	2	1,5	1,82	5,9	3,4
DWC 500/2,2	3	2,2	2,93	8,3	4,8
DWC 500/3,0	4	3	3,27	9,7	5,6

CDA

DUAL IMPELLER CENTRIFUGAL ELECTRIC PUMPS

in cast iron

Cast iron dual impeller centrifugal electric pumps.

APPLICATIONS

- Pressure boosting domestic plants
- Small-sale irrigation
- Moving non-aggressive liquids for civil and industrial use
- Washing plants
- Washing vehicles

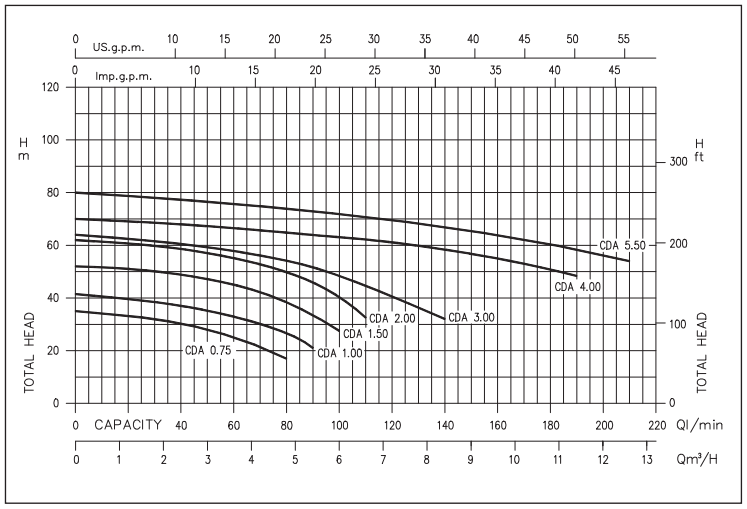
TECHNICAL DETAILS

- Available with brass impeller (CDA 0.75 M GO, CDA 1.00 M GO, CDA 1.00 T GO)
- They can be inserted into machinery for industrial use

TECHNICAL DATA

- Maximum working pressure 6 bar for CDA 0.75 - 1.00, 10 bar for the rest of the range
- Maximum temperature of the liquid 40°C for CDA 0.75 - 1.00, 90°C for the rest of the range
- Self-ventilated 2 pole asynchronous motor
- Class of insulation F
- IP44 Protection rating
- 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
- G1 suction connection for CDA 0.75 - 1.00,
  G1¼ for CDA 1.50 - 2.00 - 3.00, G1½ per CDA 4.00 - 5.50
- G1 discharge connection for CDA 0.75 - 1.00 - 1.50 - 2.00 - 3.00,
  G1¼ for CDA 4.00 - 5.50

PERFORMANCE CURVES (according to ISO 9906 Attachment A)



MATERIALS

- Cast iron pump body
- Mechanical sealing in Carbon/Ceramic/NBR
- Impeller in technopolymer for CDA 0.75 - 1.00, in brass for the rest of the range
- Shaft in AISI 303 for CDA 1.50 - 2.00 - 3.00, in AISI 304 for CDA 4.00 - 5.50, in AISI 420 for CDA 0.75 - 1.00
- Support in aluminium for CDA 0.75 - 1.00, in cast iron for the rest of the range
- Seal housing disc in AISI 304 for CDA 0.75 - 1.00, in cast iron for the rest of the range

CONTROL PANELS

- 1EPBH (see page 207)

ACCESSORI

- 5 litre 10 bar ¾ EPDM vessel
- 24 litre 8 bar 1" EPDM vessel
- 24 litre 10 bar 1" EPDM vessel
- PVC 5m key float with counter-weight
- PVC 10m key float with counter-weight
- SQUARE-D FSG-2 1.4÷4.6 bar G¼ F pressure switch
- FYG-22 2.8÷7 bar G¼ F pressure switch
- Presscomfort - Pressure regulator (see page 208)
- Press•o•Matic - Variable speed control system
  (single phase 230V±10% - power supply three phase 220V output – maximum motor power 2.2 kW - 3 HP - see page 209)

IDENTIFICATION CODE

CDA | 1.50 | M

- M — Single phase
- T — Three-phase

Power [HP]: 0.75 | 1.00 | 1.50 | 2.00 | 3.00 | 4.00 | 5.50

Model

CDA

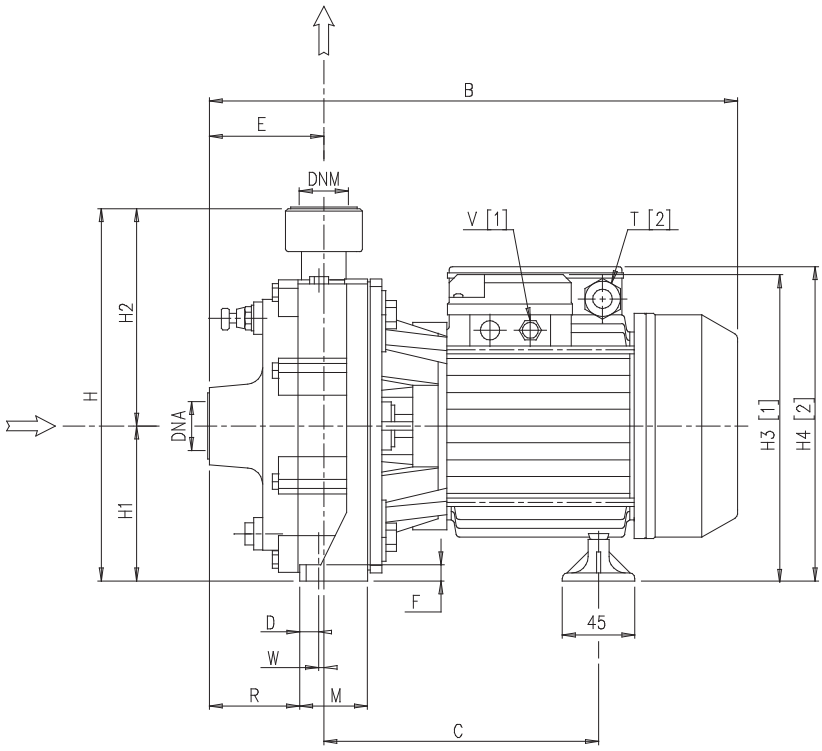
DUAL IMPELLER CENTRIFUGAL ELECTRIC PUMPS

in cast iron

PERFORMANCE TABLE

Model 230V single phase	Model 230/400V three-phase	P_2 [HP]	P_2 [kW]	Q=Flow rate l/min	20	40	50	80	90	100	110	140	170	190	210
				m^3/h	1,2	2,4	3	4,8	5,4	6	6,6	8,4	10,2	11,4	12,6
				H=Head [m]											
CDA 0.75 M	CDA 0.75 T	0,75	0,55		33,0	30,2	27,9	17,0	-	-	-	-	-	-	-
CDA 1.00 M	CDA 1.00 T	1	0,75		39,5	37,0	35,2	27,0	21,0	-	-	-	-	-	-
CDA 1.50 M	CDA 1.50 T	1,5	1,1		50,8	48,8	47,1	38,4	33,4	27,5	-	-	-	-	-
CDA 2.00 M	CDA 2.00 T	2	1,5		60,5	58,6	56,9	49,8	46,5	40,3	32,5	-	-	-	-
-	CDA 3.00 T	3	2,2		-	60,5	59,3	54,1	51,6	48,4	44,6	32,0	-	-	-
-	CDA 4.00 T	4	3		-	-	67,0	64,8	63,9	62,5	62,0	58,0	53,5	48,0	-
-	CDA 5.50 T	5,5	4		-	-	76,5	73,9	72,9	71,8	70,5	66,8	62,0	58,3	54,0

DIMENSIONS



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

DIMENSIONS TABLE

Model	Dimensions [mm]																						Weight
	A	B	C	D	E	F	H	H1	H2	[1] H3	[2] H4	M	M1	N	N1	R	[2] T	[1] V	W	S	DNA	DNM	[kg]
CDA 0.75M	183	336,3	179,8	8,3	73	9	227	97	130	-	198	42	40	140	180	57,5	PG11	-	6,8	9,5	G 1	G 1	13,5
CDA 0.75T	183	336,3	179,8	8,3	73	9	227	97	130	197,5	-	42	40	140	180	57,5	-	PG11	6,8	9,5	G 1	G 1	13,5
CDA 1.00M	183	336,3	179,8	8,3	73	9	227	97	130	-	198	42	40	140	180	57,5	PG11	-	6,8	9,5	G 1	G 1	15,0
CDA 1.00T	183	336,3	179,8	8,3	73	9	227	97	130	197,5	-	42	40	140	180	57,5	-	PG11	6,8	9,5	G 1	G 1	15,0
CDA 1.50M	209	394,8	218,3	8,3	86	9	265	110	155	-	242	48	40	155	195	65,5	PG13,5	-	12,3	9,5	G 1 ¼	G 1	25,0
CDA 1.50T	194	394,8	218,3	8,3	86	9	265	110	155	224	-	48	40	155	195	65,5	-	PG11	12,3	9,5	G 1 ¼	G 1	25,0
CDA 2.00M	209	410,8	218,3	8,3	86	9	265	110	155	-	242	48	40	155	195	65,5	PG13,5	-	12,3	9,5	G 1 ¼	G 1	27,0
CDA 2.00T	194	394,8	218,3	8,3	86	9	265	110	155	224	-	48	40	155	195	65,5	-	PG11	12,3	9,5	G 1 ¼	G 1	27,0
CDA 3.00T	194	410,8	218,3	8,3	86	9	265	110	155	224	-	48	40	155	195	65,5	-	PG11	12,3	9,5	G 1 ¼	G 1	27,0
CDA 4.00T	228	467,3	225,3	12	95,5	12	308,5	133,5	175	264,5	-	57	50	180	230	71,5	-	G 1 ½	12,0	12	G 1 ½	G 1 ¼	42,5
CDA 5.50T	228	467,3	225,3	12	95,5	12	308,5	133,5	175	264,5	-	57	50	180	230	71,5	-	G 1 ½	12,0	12	G 1 ½	G 1 ¼	46,3

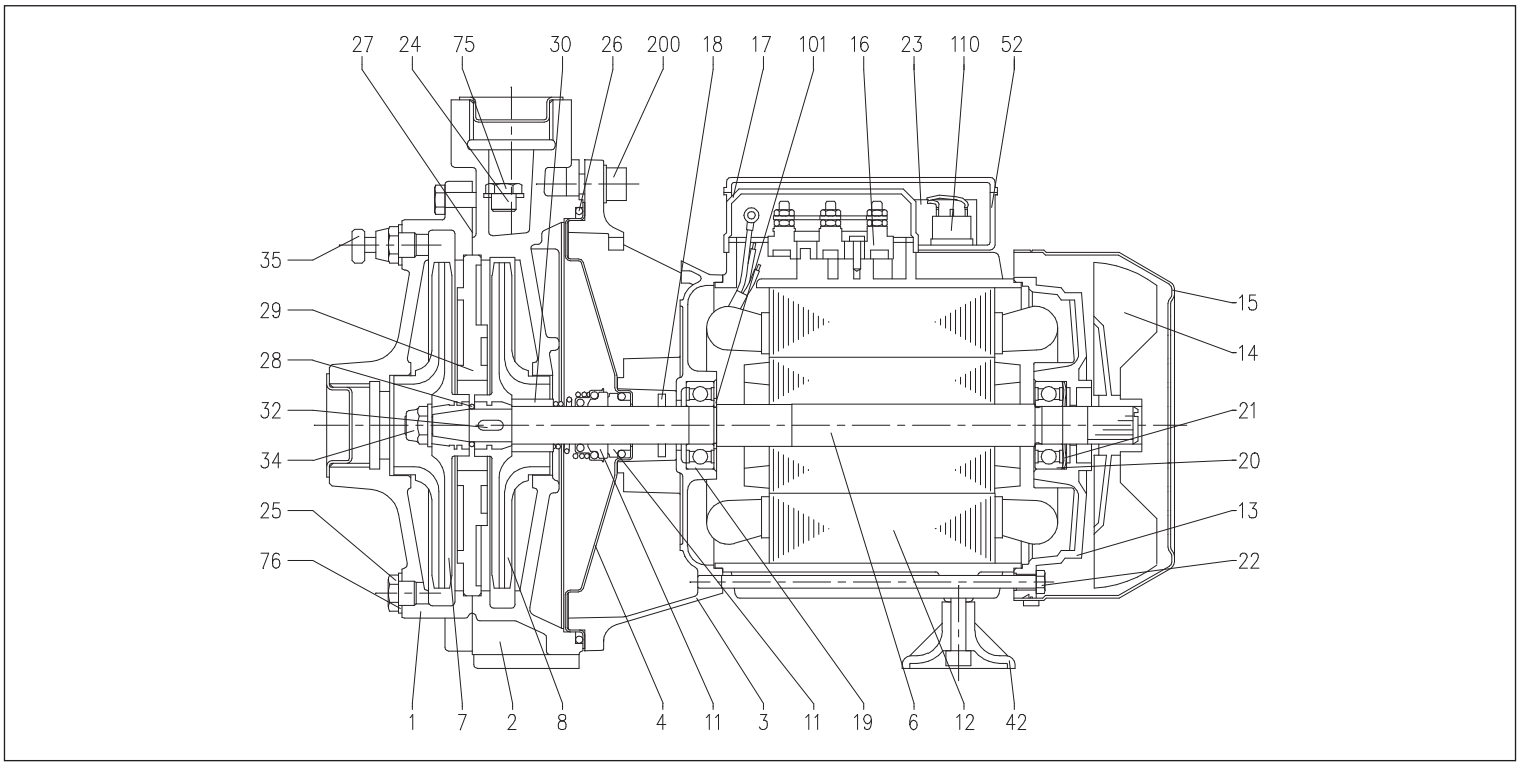
[1]= Three-phase only
[2]= Single phase only

CDA

DUAL IMPELLER CENTRIFUGAL ELECTRIC PUMPS

in cast iron

SECTIONAL VIEW



MATERIALS TABLE

Ref.	Name	Material	Ref.	Name	Material
1	Pump body	Cast iron	23	Capacitor [2]	-
2	Pump body	Cast iron	24	Filler cap	Brass
3	Motor support	see page 24	25	Drain plug	Brass
4	Seal housing disc	see page 24	26	O-Ring	NBR
6	Shaft	see page 24	27	Pump body gasket	Cellulose fibres
7	Impeller	see page 24	28	O-Ring	NBR
8	Impeller	see page 24	29	Intermediate disc	Cast iron
11	Mechanical sealing	Carbon/Ceramic/NBR	30	Seal spacer	Brass
12	Motor case	-	32	Key	AISI 304
13	Motor cover	Aluminium	34	Impeller nut [3]	AISI 304
14	Fan	Polypropylene	35	Bleed valve	-
15	Fan cover	Galvanised Fe P04	42	Foot	PVC
16	Terminal box	-	52	Capacitor-holder box [2]	Polypropylene
17	Terminal box cover [1]	Aluminium	75	Washer	Aluminium
18	Spray protector ring	NBR	76	Washer	Aluminium
19	Bearing (pump side)	-	101	Seeger ring	AISI 420
20	Bearing (motor side)	-	110	Motorprotector [4]	-
21	Adjusting ring	Steel C70	200	Screw (pump body)	A2 UNI7323 stainless steel
22	Tie-rod	Galvanised Fe 42			

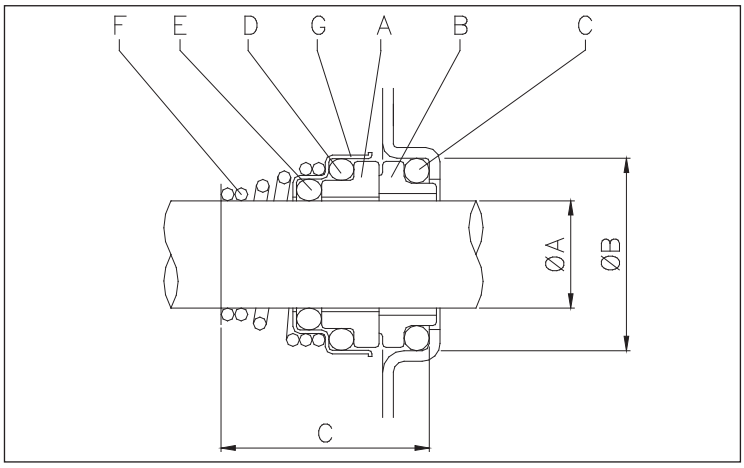
[1]= For three-phase only
[2]= For single phase only
[3]= For the version with brass impeller only
[4]= For single phase CDA 1.50 - 2.00 versions only

CDA

DUAL IMPELLER CENTRIFUGAL ELECTRIC PUMPS

in cast iron

MECHANICAL SEAL



MATERIALS TABLE

Ref.	Name	Material
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

DIMENSIONS

Single phase	Three phase	ØA	ØB	C
CDA 0.75 M	CDA 0.75 T	15	26	29
CDA 1.00 M	CDA 1.00 T	15	26	29
CDA 1.50 M	CDA 1.50 T	18	30,9	32
CDA 2.00 M	CDA 2.00 T	18	30,9	32
-	CDA 3.00 T	18	30,9	32
-	CDA 4.00 T	20	30,9	33
-	CDA 5.50 T	20	30,9	33

ELECTRIC DATA TABLE

Model		P_2		Single phase Capacitor		P_1		Absorbed Current [A]		
230V single phase	230/400V three-phase	[HP]	[kW]	µF	V_c	Single phase [kW]	Three phase [kW]	Single phase 230V	Three phase 230V	Three phase 400V
CDA 0.75 M	CDA 0.75 T	0,75	0,55	16	450	1,1	1,05	5,0	3,4	2,0
CDA 1.00 M	CDA 1.00 T	1	0,75	20	450	1,38	1,18	6,1	4,0	2,3
CDA 1.50 M	CDA 1.50 T	1,5	1,1	35	450	1,85	1,8	8,6	5,6	3,3
CDA 2.00 M	CDA 2.00 T	2	1,5	40	450	2,35	2,25	10,8	7,2	4,1
-	CDA 3.00 T	3	2,2	-	-	-	2,8	-	8,8	5,1
-	CDA 4.00 T	4	3	-	-	-	4,2	-	13,0	7,5
-	CDA 5.50 T	5,5	4	-	-	-	5,05	-	16,5	9,5

MATRIX

HORIZONTAL MULTISTAGE CENTRIFUGAL ELECTRIC PUMPS
in AISI 304

Horizontal multistage centrifugal electric pumps in AISI 304. stainless steel.

APPLICATIONS
- Industrial washing
- Pressure boosting units
- Industrial plants
- Distribution and treatment of water
- Heating and air conditioning
- Cooling and chiller
- Irrigation
- Recovery of rain water

TECHNICAL DETAILS
- Strong and compact construction
- Available in various versions and models

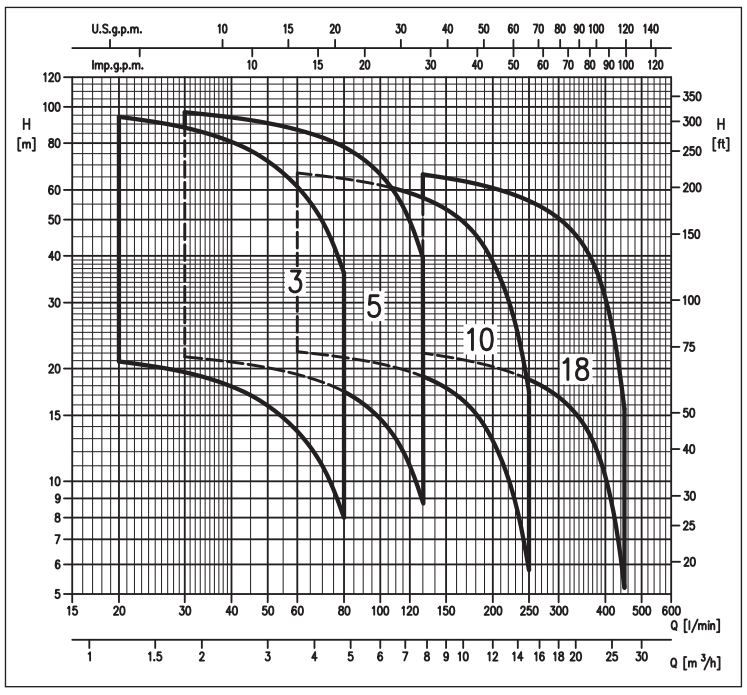
TECHNICAL DATA
- Temperature of the liquid: from -15°C to +110°C
- Maximum working pressure: 10 bar
- Maximum chlorine content: 500 ppm
- Self-ventilated 2 pole asynchronous motor
- Class of insulation F
- IP55 Protection rating
- 230V ±10%, 50Hz single phase voltage
  230/400V ±10%, 50Hz three phase 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
- G1 suction connection for MATRIX 3, G1¼ for MATRIX 5, G1½ for MATRIX 10, G2 for MATRIX 18
- G1 discharge connection for MATRIX 3-5, G1¼ for MATRIX 10, G1½ for MATRIX 18

MATERIALS
- Pump body, impellers, intermediate stages, seal housing disc and shaft (part in contact with the liquid) in AISI 304
- Mechanical sealing in Carbon/Ceramic/EPDM
- Support and motor casing in aluminium

CONTROL PANELS
- 1EPBH (see page 207)

ACCESSORIES
- 5 litre 10 bar ¾ EPDM vessel
- 24 litre 8 bar 1" EPDM vessel
- 24 litre 10 bar 1" EPDM vessel
- 24 litre 16 bar 1" EPDM vessel
- PVC 5m key float with counter-weight
- PVC 10m key float with counter-weight
- SQUARE-D FSG-2 1.4÷4.6 bar G¼ F pressure switch
- FYG-22 2.8÷7 bar G¼ F pressure switch
- FYG-32 5.6÷10.5 bar G¼ F pressure switch
- Presscomfort - Pressure regulator (see page 208)
- Press•o•Matic - Variable speed control system (single phase 230V±10% - power supply three phase 220V output – maximum motor power 2.2 kW - 3 HP - see page 209)

PERFORMANCE RANGE (according to ISO 9906 Attachment A)



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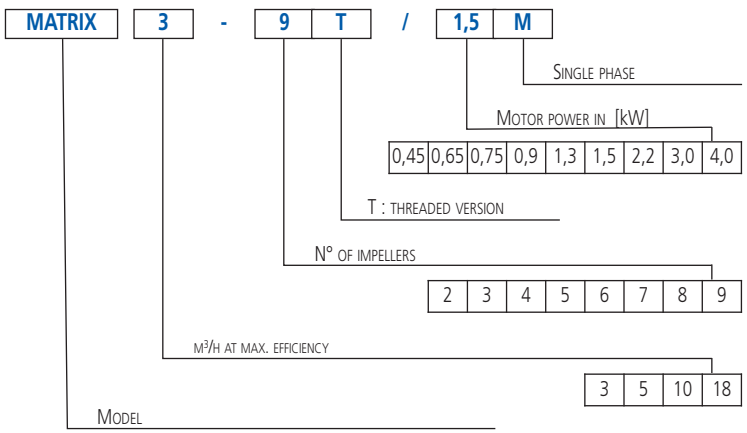
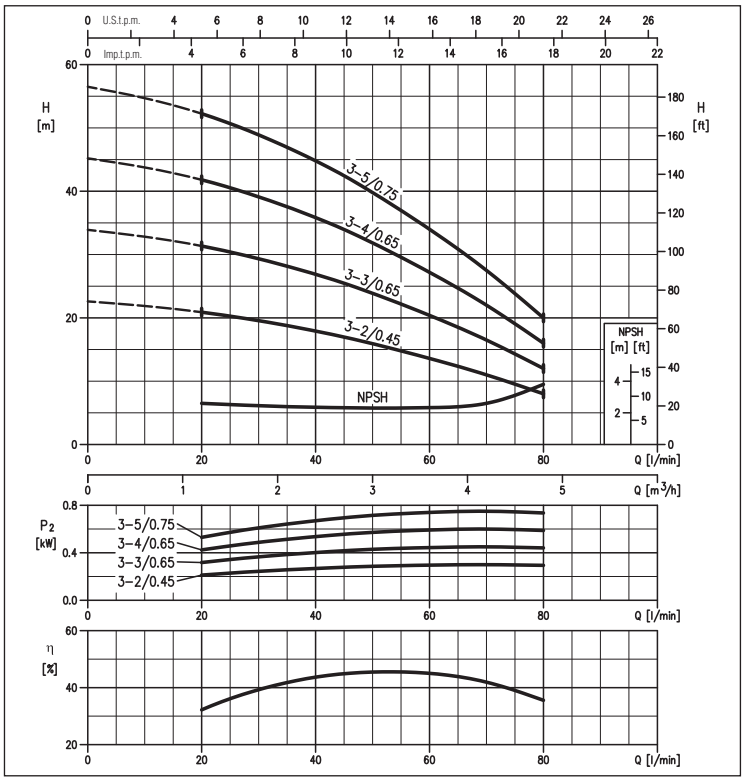


HORIZONTAL MULTISTAGE CENTRIFUGAL ELECTRIC PUMPS

in AISI 304

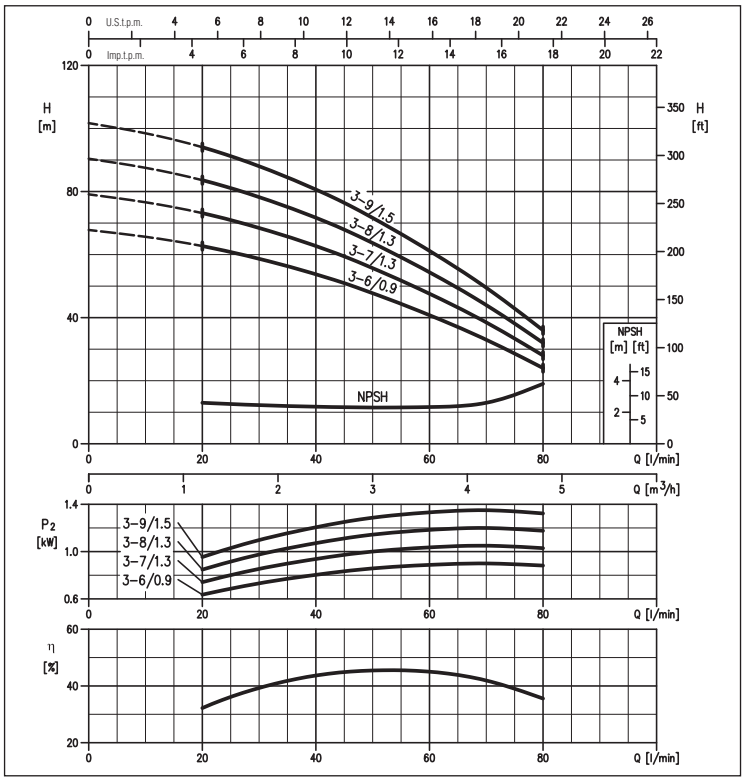
MATRIX 3 range PERFORMANCE CURVES (from 2 to 5 impellers)

(according to ISO 9906 Attachment A)



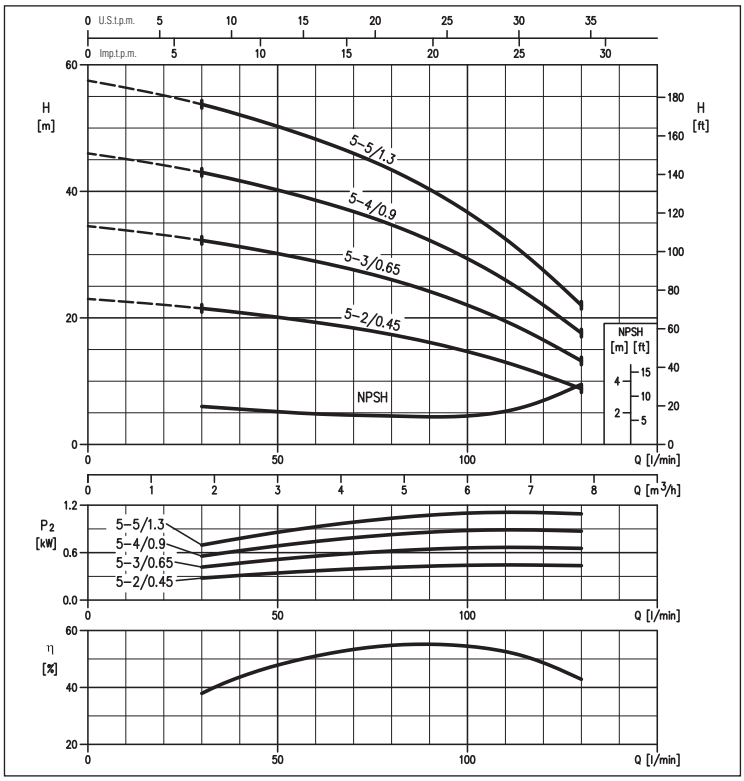
MATRIX 3 range PERFORMANCE CURVES (from 6 to 9 impellers)

(according to ISO 9906 Attachment A)



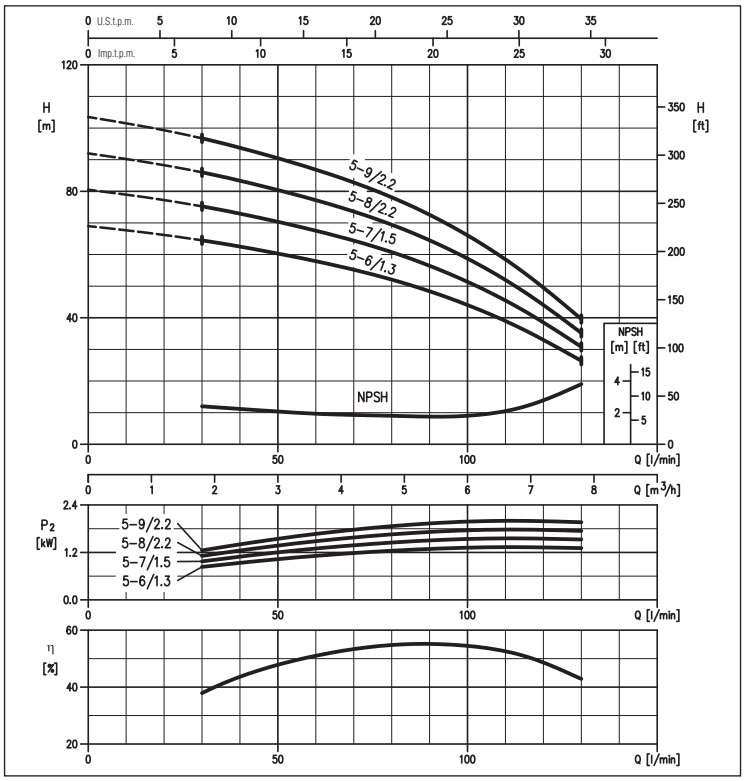
MATRIX 5 range PERFORMANCE CURVES (from 2 to 5 impellers)

(according to ISO 9906 Attachment A)



MATRIX 5 range PERFORMANCE CURVES (from 6 to 9 impellers)

(according to ISO 9906 Attachment A)

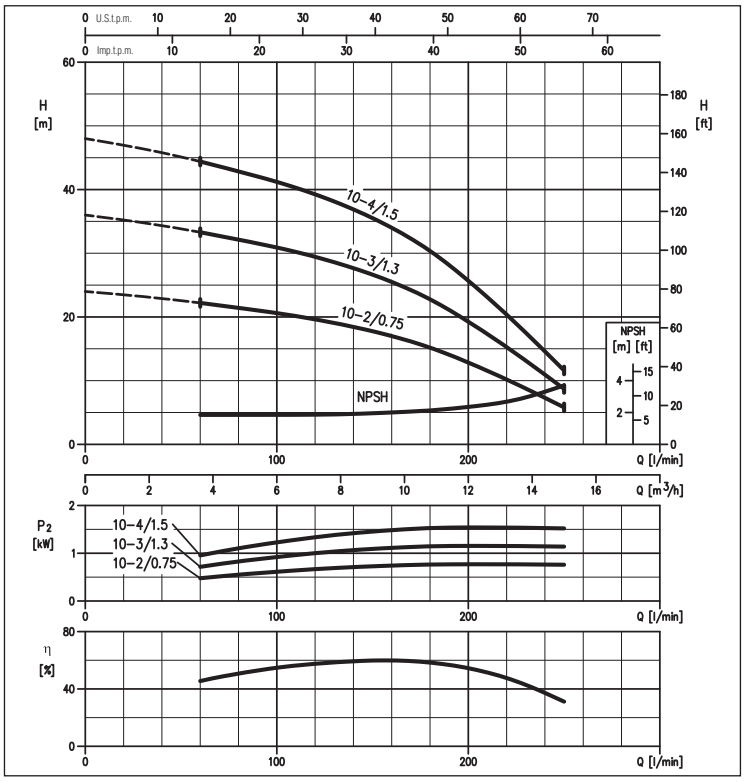


HORIZONTAL MULTISTAGE CENTRIFUGAL ELECTRIC PUMPS

in AISI 304

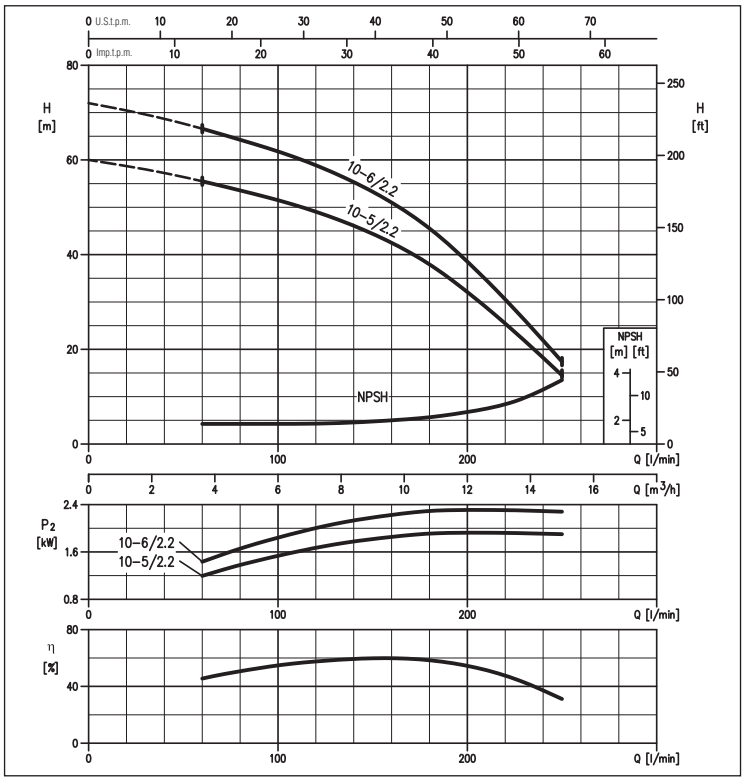
MATRIX 10 range PERFORMANCE CURVES (from 2 to 4 impellers)

(according to ISO 9906 Attachment A)



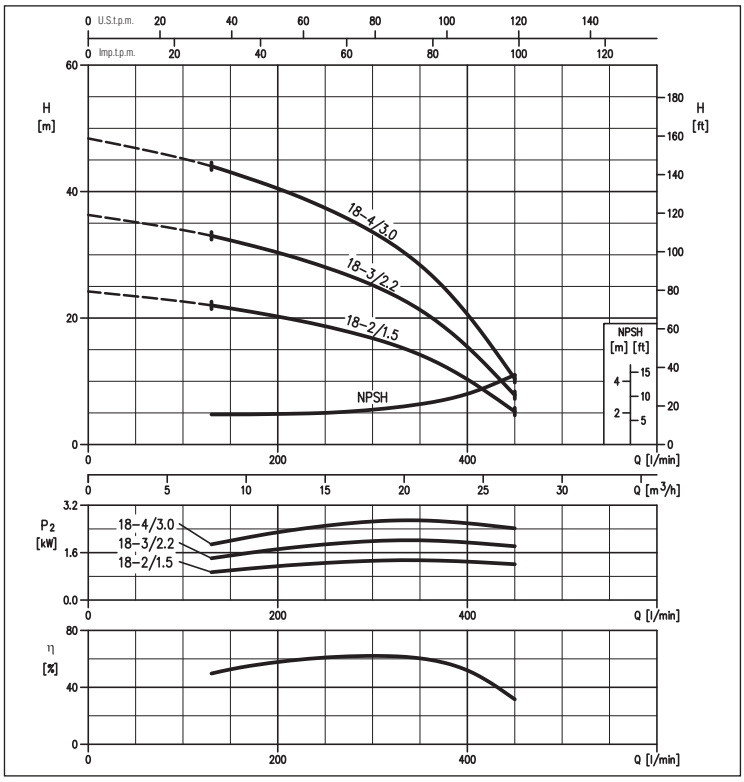
MATRIX 10 range PERFORMANCE CURVES (from 5 to 6 impellers)

(according to ISO 9906 Attachment A)



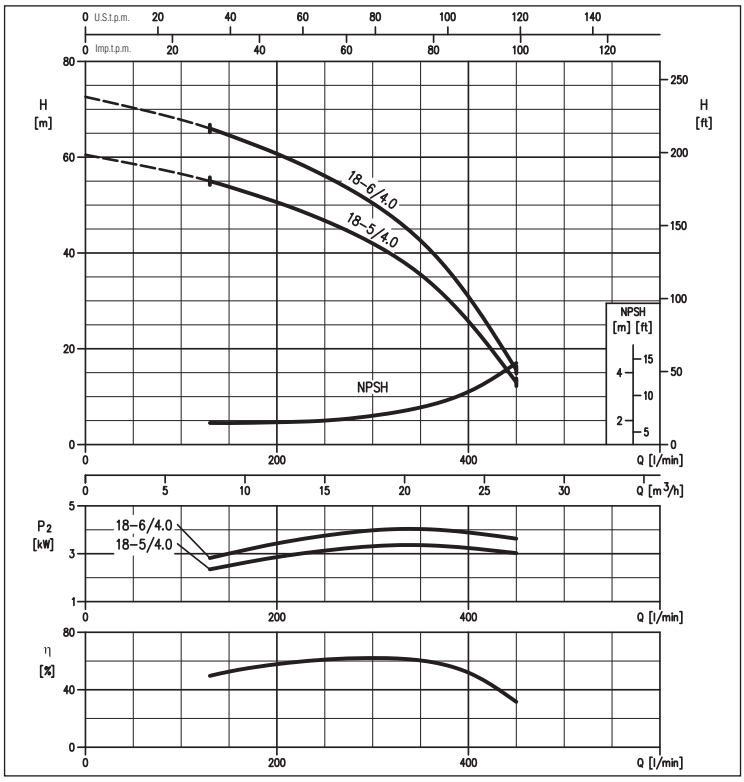
MATRIX 18 range PERFORMANCE CURVES (from 2 to 4 impellers)

(according to ISO 9906 Attachment A)



MATRIX 18 range PERFORMANCE CURVES (from 5 to 6 impellers)

(according to ISO 9906 Attachment A)



HORIZONTAL MULTISTAGE CENTRIFUGAL ELECTRIC PUMPS

in AISI 304

PERFORMANCE TABLE

Model		P_2		Q=Flow rate													
230V single phase	230/400V three-phase	[HP]	[kW]	l/min 20	30	45	60	80	100	130	160	200	250	300	350	400	450
				m^3/h 1,2	1,8	2,7	3,6	4,8	6	7,8	9,6	12	15	18	21	24	27
				H=Head [m]													
MATRIX 3-2T/0.45M	MATRIX 3-2T/0.45	0,6	0,45	20,9	19,6	17,0	13,6	8,0	-	-	-	-	-	-	-	-	-
MATRIX 3-3T/0.65M	MATRIX 3-3T/0.65	0,9	0,65	31,4	29,3	25,5	20,4	12,0	-	-	-	-	-	-	-	-	-
MATRIX 3-4T/0.65M	MATRIX 3-4T/0.65	0,9	0,65	42,0	39,1	34,0	27,2	16,0	-	-	-	-	-	-	-	-	-
MATRIX 3-5T/0.75M	MATRIX 3-5T/0.75	1	0,75	52,5	49,0	42,5	34,0	20,0	-	-	-	-	-	-	-	-	-
MATRIX 3-6T/0.9M	MATRIX 3-6T/0.9	1,2	0,9	62,5	58,5	51,0	41,0	24,0	-	-	-	-	-	-	-	-	-
MATRIX 3-7T/1.3M	MATRIX 3-7T/1.3	1,8	1,3	73,0	68,5	59,5	47,5	28,0	-	-	-	-	-	-	-	-	-
MATRIX 3-8T/1.3M	MATRIX 3-8T/1.3	1,8	1,3	83,5	78,0	68,0	54,5	32,0	-	-	-	-	-	-	-	-	-
MATRIX 3-9T/1.5M	MATRIX 3-9T/1.5	2	1,5	94,0	88,0	76,5	61,0	36,0	-	-	-	-	-	-	-	-	-
MATRIX 5-2T/0.45M	MATRIX 5-2T/0.45	0,6	0,45	-	21,5	20,5	19,3	17,4	14,7	8,8	-	-	-	-	-	-	-
MATRIX 5-3T/0.65M	MATRIX 5-3T/0.65	0,9	0,65	-	32,3	30,7	29,0	26,0	22,0	13,2	-	-	-	-	-	-	-
MATRIX 5-4T/0.9M	MATRIX 5-4T/0.9	1,2	0,9	-	43,0	41,0	38,6	34,7	29,4	17,6	-	-	-	-	-	-	-
MATRIX 5-5T/1.3M	MATRIX 5-5T/1.3	1,8	1,3	-	54,0	51,0	48,5	43,5	36,7	22,0	-	-	-	-	-	-	-
MATRIX 5-6T/1.3M	MATRIX 5-6T/1.3	1,8	1,3	-	64,5	61,5	58,0	52,0	44,0	26,4	-	-	-	-	-	-	-
MATRIX 5-7T/1.5M	MATRIX 5-7T/1.5	2	1,5	-	75,5	72,0	67,5	61,0	51,5	30,8	-	-	-	-	-	-	-
MATRIX 5-8T/2.2M	MATRIX 5-8T/2.2	3	2,2	-	86,0	82,0	77,0	69,5	58,5	35,2	-	-	-	-	-	-	-
MATRIX 5-9T/2.2M	MATRIX 5-9T/2.2	3	2,2	-	97,0	92,0	87,0	78,0	66,0	39,6	-	-	-	-	-	-	-
MATRIX 10-2T/0.75M	MATRIX 10-2T/0.75	1	0,75	-	-	-	22,2	21,4	20,6	19,1	17,0	12,8	5,8	-	-	-	-
MATRIX 10-3T/1.3M	MATRIX 10-3T/1.3	1,8	1,3	-	-	-	33,3	32,1	30,9	28,6	25,5	19,3	8,7	-	-	-	-
MATRIX 10-4T/1.5M	MATRIX 10-4T/1.5	2	1,5	-	-	-	44,5	43,0	41,0	38,1	34,0	25,7	11,6	-	-	-	-
MATRIX 10-5T/2.2M	MATRIX 10-5T/2.2	3	2,2	-	-	-	55,5	53,5	51,5	47,5	42,5	32,1	14,5	-	-	-	-
MATRIX 10-6T/2.2M	MATRIX 10-6T/2.2	3	2,2	-	-	-	66,5	64,5	62,0	57,0	51,0	38,5	17,4	-	-	-	-
MATRIX 18-2T/1.5M	MATRIX 18-2T/1.5	2	1,5	-	-	-	-	-	-	22,0	21,3	20,2	18,7	16,8	14,2	10,3	5,2
MATRIX 18-3T/2.2M	MATRIX 18-3T/2.2	3	2,2	-	-	-	-	-	-	33,0	31,9	30,4	28,1	25,2	21,3	15,5	7,8
-	MATRIX 18-4T/3	4	3	-	-	-	-	-	-	44,0	42,5	40,5	37,4	33,6	28,4	20,6	10,4
-	MATRIX 18-5T/4	5,5	4	-	-	-	-	-	-	55,0	53,0	50,5	47,0	42,0	35,5	25,8	13,0
-	MATRIX 18-6T/4	5,5	4	-	-	-	-	-	-	66,0	64,0	60,5	56,0	50,5	42,5	30,9	15,6

HORIZONTAL MULTISTAGE CENTRIFUGAL ELECTRIC PUMPS

in AISI 304

MATRIX 3-5-10-18 DIMENSIONS

FIG. 1

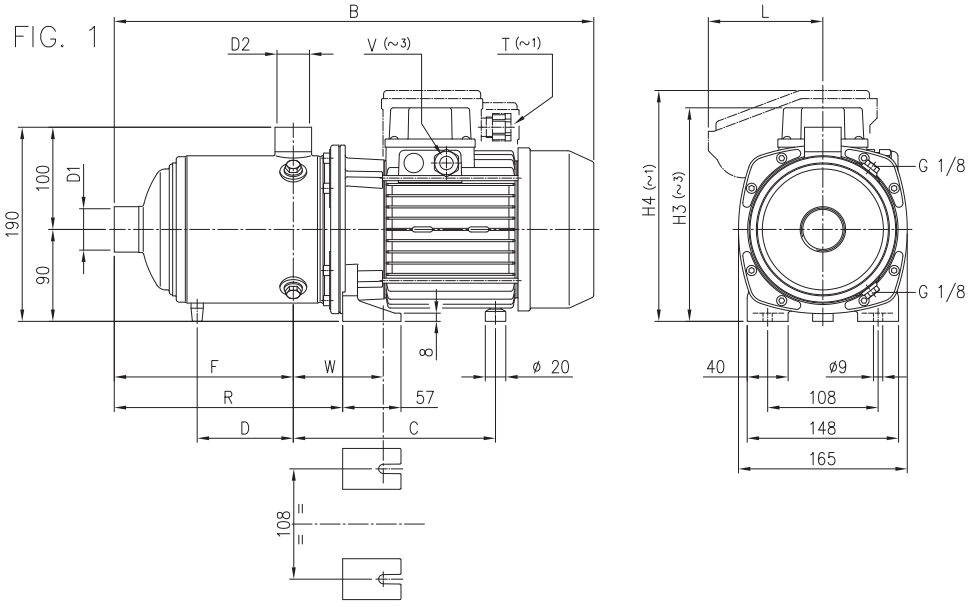
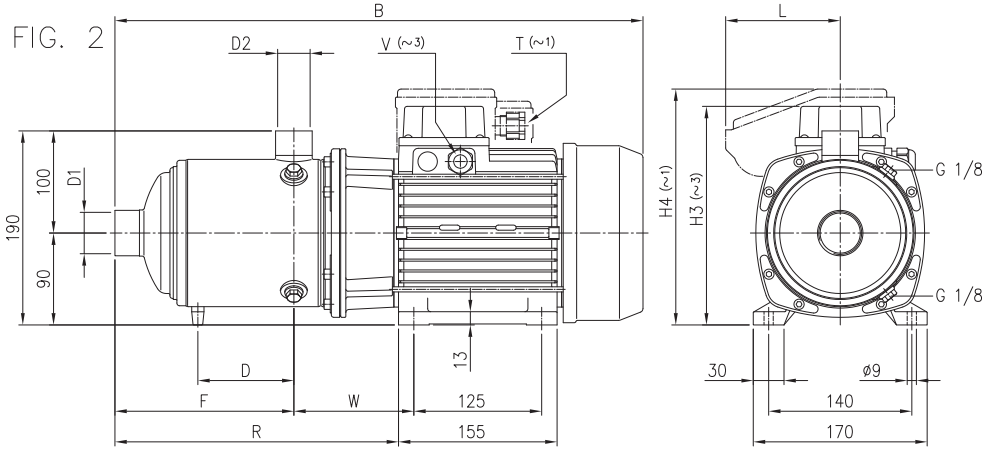


FIG. 2



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

DIMENSIONS TABLE

Model	Fig.	Dimensions [mm] B	C	D	F	H3 [1]	H4 [2]	L	R	T [2]	V [1]	W	D1	D2	Weight [kg]
MATRIX 3-2T/0,45M	1	360	171	-	103	-	200	84	151,5	PG11	-	88÷97	G1	G1	8,5
MATRIX 3-2T/0,45	1	360	171	-	103	192	-	-	151,5	-	PG11	88÷97	G1	G1	8,4
MATRIX 3-3T/0,65M	1	360	171	-	103	-	200	84	151,5	PG11	-	88÷97	G1	G1	9,9
MATRIX 3-3T/0,65	1	360	171	-	103	192	-	-	151,5	-	PG11	88÷97	G1	G1	9,8
MATRIX 3-4T/0,65M	1	384	171	-	127	-	200	84	175,5	PG11	-	88÷97	G1	G1	10,6
MATRIX 3-4T/0,65	1	384	171	-	127	192	-	-	175,5	-	PG11	88÷97	G1	G1	10,4
MATRIX 3-5T/0,75M	1	408	171	-	151	-	200	84	199,5	PG11	-	88÷97	G1	G1	12,5
MATRIX 3-5T/0,75	1	408	171	-	151	192	-	-	199,5	-	PG11	88÷97	G1	G1	12,4
MATRIX 3-6T/0,9M	1	432	171	-	175	-	219	106	223,5	M20x1,5	-	88÷97	G1	G1	13,7
MATRIX 3-6T/0,9	1	432	171	-	175	192	-	-	223,5	-	PG11	88÷97	G1	G1	13,7
MATRIX 3-7T/1,3M	1	493	198	118	199	-	226	112	247,5	M20x1,5	-	88÷97	G1	G1	16,3
MATRIX 3-7T/1,3	1	493	198	118	199	209	-	-	247,5	-	PG11	88÷97	G1	G1	16,1
MATRIX 3-8T/1,3M	1	517	198	142	223	-	226	112	271,5	M20x1,5	-	88÷97	G1	G1	16,3
MATRIX 3-8T/1,3	1	517	198	142	223	209	-	-	271,5	-	PG11	88÷97	G1	G1	16,8
MATRIX 3-9T/1,5M	1	541	198	166	247	-	226	112	295,5	M20x1,5	-	88÷97	G1	G1	18,3
MATRIX 3-9T/1,5	1	541	198	166	247	209	-	-	295,5	-	PG11	88÷97	G1	G1	17,7

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

HORIZONTAL MULTISTAGE CENTRIFUGAL ELECTRIC PUMPS

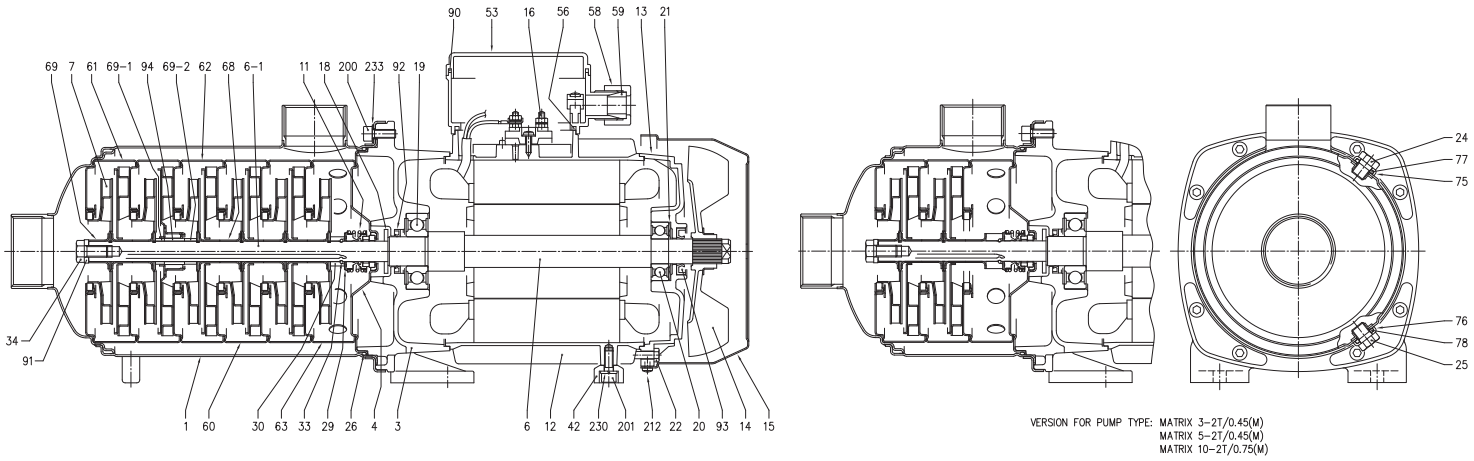
in AISI 304

DIMENSIONS TABLE

Model	Fig.	B	C	D	F	H3 [1]	H4 [2]	L	R	T [2]	V [1]	W	D1	D2	Weight [kg]
MATRIX 5-2T/0.45 M	1	360	171	-	103	-	200	84	151,5	PG11	-	88÷97	G1¼	G1	8,5
MATRIX 5-2T/0.45	1	360	171	-	103	192	-	-	151,5	-	PG11	88÷97	G1¼	G1	8,4
MATRIX 5-3T/0.65 M	1	360	171	-	103	-	200	84	151,5	PG11	-	88÷97	G1¼	G1	9,9
MATRIX 5-3T/0.65	1	360	171	-	103	192	-	-	151,5	-	PG11	88÷97	G1¼	G1	9,8
MATRIX 5-4T/0.9 M	1	384	171	-	127	-	219	106	175,5	M20x1,5	-	88÷97	G1¼	G1	12,2
MATRIX 5-4T/0.9	1	384	171	-	127	192	-	-	175,5	-	PG11	88÷97	G1¼	G1	12,1
MATRIX 5-5T/1.3 M	1	445	198	-	151	-	226	112	199,5	M20x1,5	-	88÷97	G1¼	G1	15,0
MATRIX 5-5T/1.3	1	445	198	-	151	209	-	-	199,5	-	PG11	88÷97	G1¼	G1	14,5
MATRIX 5-6T/1.3 M	1	469	198	-	175	-	226	112	223,5	M20x1,5	-	88÷97	G1¼	G1	15,2
MATRIX 5-6T/1.3	1	469	198	-	175	209	-	-	223,5	-	PG11	88÷97	G1¼	G1	15,6
MATRIX 5-7T/1.5 M	1	493	198	118	199	-	226	112	247,5	M20x1,5	-	88÷97	G1¼	G1	17,2
MATRIX 5-7T/1.5	1	493	198	118	199	209	-	-	247,5	-	PG11	88÷97	G1¼	G1	16,6
MATRIX 5-8T/2.2 M	2	565	-	142	223	-	231	112	325,5	M20x1,5	-	117,5	G1¼	G1	22,3
MATRIX 5-8T/2.2	1	530	198	142	223	209	-	-	271,5	-	PG11	88÷97	G1¼	G1	18,7
MATRIX 5-9T/2.2 M	2	589	-	166	247	-	231	112	349,5	M20x1,5	-	117,5	G1¼	G1	22,8
MATRIX 5-9T/2.2	1	554	198	166	247	209	-	-	295,5	-	PG11	88÷97	G1¼	G1	18,8
MATRIX 10-2T/0.75 M	1	379	175	-	118	-	200	84	170,5	PG11	-	92÷101	G1½	G1¼	11,3
MATRIX 10-2T/0.75	1	379	175	-	118	192	-	-	170,5	-	PG11	92÷101	G1½	G1¼	11,2
MATRIX 10-3T/1.3 M	1	416	202	-	118	-	226	112	170,5	M20x1,5	-	92÷101	G1½	G1¼	14,7
MATRIX 10-3T/1.3	1	416	202	-	118	209	-	-	170,5	-	PG11	92÷101	G1½	G1¼	13,9
MATRIX 10-4T/1.5 M	1	446	202	-	148	-	226	112	200,5	M20x1,5	-	92÷101	G1½	G1¼	15,6
MATRIX 10-4T/1.5	1	446	202	-	148	209	-	-	200,5	-	PG11	92÷101	G1½	G1¼	15,4
MATRIX 10-5T/2.2 M	2	524	-	-	178	-	231	112	284,5	M20x1,5	-	121,5	G1½	G1¼	21,3
MATRIX 10-5T/2.2	1	489	202	-	178	209	-	-	230,5	-	PG11	92÷101	G1½	G1¼	17,9
MATRIX 10-6T/2.2 M	2	554	-	126	208	-	231	112	314,5	M20x1,5	-	121,5	G1½	G1¼	22,4
MATRIX 10-6T/2.2	1	519	202	126	208	209	-	-	260,5	-	PG11	92÷101	G1½	G1¼	18,3
MATRIX 18-2T/1.5M	1	442	205	-	141	-	226	112	196,5	M20x1,5	-	95÷104	G2	G1½	14,5
MATRIX 18-2T/1.5M	1	442	205	-	141	209	-	-	196,5	-	PG11	95÷104	G2	G1½	14,3
MATRIX 18-3T/2.2M	2	490	-	-	141	-	231	112	205,5	M20x1,5	-	124,5	G2	G1½	20,6
MATRIX 18-3T/2.2	1	455	205	-	141	209	-	-	196,5	-	PG11	95÷104	G2	G1½	17,1
MATRIX 18-4T/3	2	527	-	-	178,5	214	-	-	288	-	PG13,5	124,5	G2	G1½	21,7
MATRIX 18-5T/4	2	609	-	130,5	216	214	-	-	325,5	-	PG13,5	124,5	G2	G1½	26,9
MATRIX 18-6T/4	2	646	-	168	253,5	214	-	-	363	-	PG13,5	124,5	G2	G1½	28,1

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

MATRIX 3-5-10 SECTIONAL VIEW

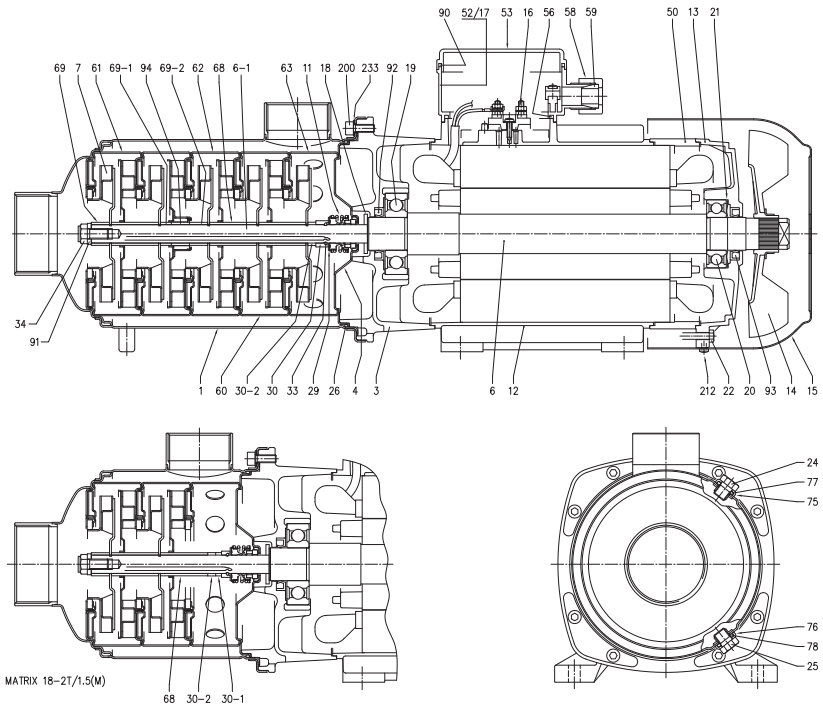


MATRIX

HORIZONTAL MULTISTAGE CENTRIFUGAL ELECTRIC PUMPS

in AISI 304

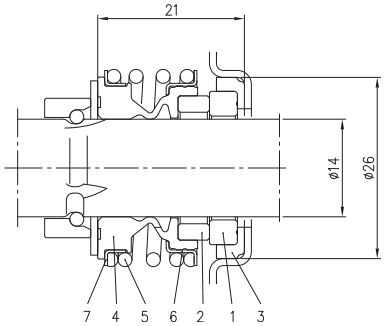
MATRIX 18 SECTIONAL VIEW



MATERIALS TABLE

Ref.	Name	Material	Ref.	Name	Material
1	Pump body	EN 1.4301 (AISI 304)	26	O-Ring	EPDM
3	Motor support	Die-cast aluminium	29	Washer	EN 1.4301 (AISI 304)
4	Seal housing disc	EN 1.4301 (AISI 304)	30	Holding ring	EN 1.4301 (AISI 304)
6	Shaft	EN 1.4301 (AISI 304)	30-1/2	Shaft casing	EN 1.4301 (AISI 304)
7	Impeller	EN 1.4301 (AISI 304)	33	Ring	EN 1.4301 (AISI 304)
11	Mechanical seal	Ceramic/Carbon/EPDM	34	Screw	EN 1.4301 (AISI 304)
12	Motor case	-	60	Intermediate stage	EN 1.4301 (AISI 304)+PTFE
13	Motor cover	Aluminium	61	Intermediate stage (suction)	EN 1.4301 (AISI 304)+PTFE
14	Fan	Polyamide	62	Intermediate stage (bearing)	EN 1.4301 (AISI 304) + PTFE + Ceramic
15	Fan cover	Galvanised Fe P04	63	Intermediate stage (discharge)	EN 1.4301 (AISI 304) + PTFE
16	Terminal box	-	75	Washer	EN 1.4301 (AISI 304)
17	Terminal box cover	Aluminium	76	Washer	EN 1.4301 (AISI 304)
18	Spray protector ring	NBR	77	O-Ring	EPDM
19	Bearing (pump side)	-	78	O-Ring	EPDM
20	Bearing (motor side)	-	91	Shaft washer	EN 1.4301 (AISI 304)
21	Adjusting ring	Steel C70	92	Sealing ring	-
22	Tie-rod	Galvanised Fe 42	93	Sealing ring	-
24	Filler cap	EN 1.4301 (AISI 304)	94	Guide bush	WC - Tungsten carbide
25	Drain plug	EN 1.4301 (AISI 304)	200	Screw (pump body)	EN 1.4301 (AISI 304)

MECHANICAL SEAL



MATERIALS TABLE

Ref.	Name	Material
1	Fixed part	Ceramic
2	Rotating part	Carbon
3	Gasket	EPDM
4	Diaphragm	EPDM
5	Spring	EN 1.4402 (AISI 316)
6	Structure/frame	EN 1.4402 (AISI 316)
7	Retainer ring	EN 1.4402 (AISI 316)

MATRIX

HORIZONTAL MULTISTAGE CENTRIFUGAL ELECTRIC PUMPS

in AISI 304

ELECTRIC DATA TABLE

Model	P_2		Mec	Single phase Capacitor		P_1	Absorbed Current [A]	
	[HP]	[kW]	Motor	µF	V_c	[kW]	230V	400V
MATRIX 3-2T/0.45M	0,6	0,45	71	12,5	450	0,73	3,2	-
MATRIX 3-2T/0.45	0,6	0,45	71	-	-	0,72	2,3	1,3
MATRIX 3-3T/0.65M	0,9	0,65	71	16	450	0,97	4,5	-
MATRIX 3-3T/0.65	0,9	0,65	71	-	-	0,85	2,8	1,6
MATRIX 3-4T/0.65M	0,9	0,65	71	16	450	0,97	4,5	-
MATRIX 3-4T/0.65	0,9	0,65	71	-	-	0,85	2,8	1,6
MATRIX 3-5T/0.75M	1	0,75	71	25	450	1,14	5,4	-
MATRIX 3-5T/0.75	1	0,75	71	-	-	1,12	4,4	2,5
MATRIX 3-6T/0.9M	1,2	0,9	71	31,5	450	1,28	5,7	-
MATRIX 3-6T/0.9	1,2	0,9	71	-	-	1,24	4,5	2,6
MATRIX 3-7T/1.3M	1,8	1,3	80	31,5	450	1,75	7,8	-
MATRIX 3-7T/1.3	1,8	1,3	80	-	-	1,7	6,1	3,5
MATRIX 3-8T/1.3M	1,8	1,3	80	31,5	450	1,75	7,8	-
MATRIX 3-8T/1.3	1,8	1,3	80	-	-	1,7	6,1	3,5
MATRIX 3-9T/1.5M	2	1,5	80	35	450	1,95	8,7	-
MATRIX 3-9T/1.5	2	1,5	80	-	-	1,85	5,9	3,4
MATRIX 5-2T/0.45M	0,6	0,45	71	12,5	450	0,73	3,2	-
MATRIX 5-2T/0.45	0,6	0,45	71	-	-	0,72	2,3	1,3
MATRIX 5-3T/0.65M	0,9	0,65	71	16	450	0,97	4,5	-
MATRIX 5-3T/0.65	0,9	0,65	71	-	-	0,85	2,8	1,6
MATRIX 5-4T/0.9M	1,2	0,9	71	31,5	450	1,28	5,7	-
MATRIX 5-4T/0.9	1,2	0,9	71	-	-	1,24	4,5	2,6
MATRIX 5-5T/1.3M	1,8	1,3	80	31,5	450	1,75	7,8	-
MATRIX 5-5T/1.3	1,8	1,3	80	-	-	1,7	6,1	3,5
MATRIX 5-6T/1.3M	1,8	1,3	80	31,5	450	1,75	7,8	-
MATRIX 5-6T/1.3	1,8	1,3	80	-	-	1,7	6,1	3,5
MATRIX 5-7T/1.5M	2	1,5	80	35	450	1,95	8,7	-
MATRIX 5-7T/1.5	2	1,5	80	-	-	1,85	5,9	3,4
MATRIX 5-8T/2.2M	3	2,2	90	50	450	2,92	13	-
MATRIX 5-8T/2.2	3	2,2	80	-	-	2.65	8	4,6
MATRIX 5-9T/2.2M	3	2,2	90	50	450	2,92	13	-
MATRIX 5-9T/2.2	3	2,2	80	-	-	2,65	8	4,6
MATRIX 10-2T/0.75M	1	0,75	71	25	450	1,14	5,4	-
MATRIX 10-2T/0.75	1	0,75	71	-	-	1,12	4,4	2,5
MATRIX 10-3T/1.3M	1,8	1,3	80	31,5	450	1,75	7,8	-
MATRIX 10-3T/1.3	1,8	1,3	80	-	-	1,7	6,1	3,5
MATRIX 10-4T/1.5M	2	1,5	80	35	450	1,95	8,7	-
MATRIX 10-4T/1.5	2	1,5	80	-	-	1,85	5,9	3,4
MATRIX 10-5T/2.2M	3	2,2	90	50	450	2,92	13	-
MATRIX 10-5T/2.2	3	2,2	80	-	-	2,65	8	4,6
MATRIX 10-6T/2.2M	3	2,2	90	50	450	2,92	13	-
MATRIX 10-6T/2.2	3	2,2	80	-	-	2,65	8	4,6
MATRIX 18-2T/1.5M	2	1,5	80	31,5	450	1,95	8,7	-
MATRIX 18-2T/1.5	2	1,5	80	-	-	1,85	5,9	3,4
MATRIX 18-3T/2.2M	3	2,2	90	50	450	2,92	13	-
MATRIX 18-3T/2.2	3	2,2	80	-	-	2,65	8	4,6
MATRIX 18-4T/3	4	3	90	-	-	3,7	10,9	6,3
MATRIX 18-5T/4	5,5	4	90	-	-	4,7	14	8,1
MATRIX 18-6T/4	5,5	4	90	-	-	4,7	14	8,1

EVM

VERTICAL MULTISTAGE ELECTRIC PUMPS

in cast iron, AISI 304, AISI 316

Vertical multistage centrifugal electric pumps available in various versions: cast iron (EVMG), AISI 304 stainless steel (EVM), AISI 316 stainless steel (EVML).

APPLICATIONS

- Civil, industrial, agricultural and fire-fighting pressure boosting systems
- Primary water treatment plants, reverse osmosis, seepage, etc.
- Moving moderately aggressive fluids
- Boiler loading
- Washing, heating systems and air-conditioning

TECHNICAL DETAILS

- Reliable, strong, silent and easy to service
- The EVM pumps can be coupled with standard EIC motors
- They offer state-of-the-art technical solutions
- The EVM vertical multistage pumps (hydraulic parts) are in compliance with the 94/9/CE Directive on ATEX products (they belong to Group II, Category 2)
- Oval counter-flanges, "N" version, already included
- Round counter-flanges, "F" version, as accessories

TECHNICAL DATA

- Maximum working pressure: 16 bar, 25 bar, 30 bar for EVM32 - EVM45 only
- Temperature of the liquid: from -15°C to +120°C; from -15°C to +85°C (for EVMW)
- Self-ventilated 2 pole asynchronous motor
- Class of insulation F
- IP55 Protection rating
- Single phase voltage 230V ± 10% 50Hz (up to 2.2 kW), three phase voltage 230/400V ±10% 50Hz (up to 4 kW included), three phase voltage 400/690V ±10% (5.5 kW and above)

MATERIALS

- Lower pump body, external casing, disco seal housing disc, impellers, nozzles, shaft casing, joint cover and small elements in contact with the liquid in AISI 304 (EVM), AISI 316 (EVML) ["EVMG" version: body in cast iron and hydraulic parts in AISI 304]
- Tie-rods and small elements not in contact with the liquid in galvanised steel
- Shaft in AISI 316
- Bearings in contact with the liquid in tungsten carbide
- Motor support and base in cast iron
- Mechanical seal in SiC/Carbon/FPM (models 3-5-10-18)
- Mechanical seal with cartridge as per standard in SiC/Carbon/FPM (models 32-45-64)
  (F= round counter-flanges; N= oval counter-flanges)

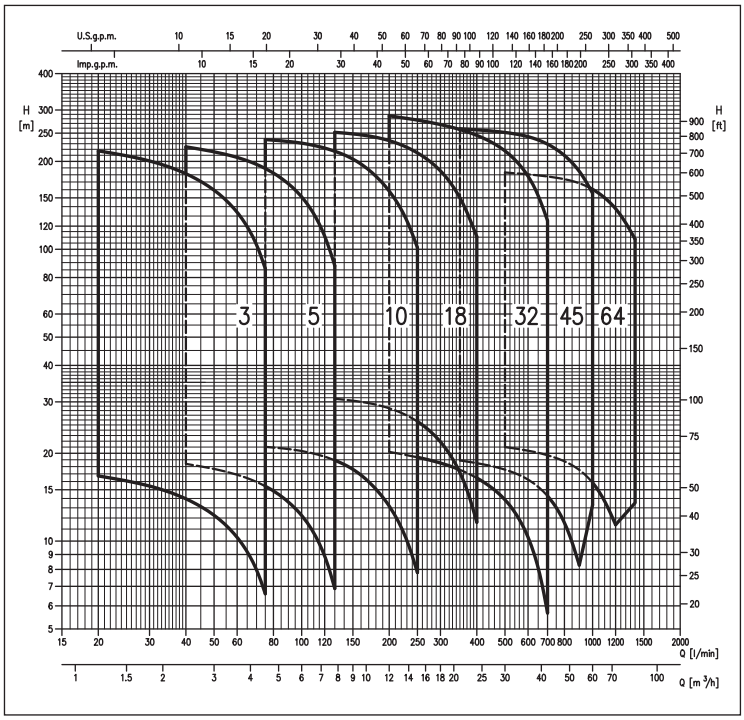
SPECIAL VERSIONS

- Version with WRAS approval (EVMW 3-5-10-18)
- ATEX version for complete electric pump
- Also available with efficiency 1 motor

ACCESSORIES (on request)

- Round counter-flanges for "F" version available in:
  - galvanised/EPDM
  - AISI 304/EPDM
  - AISI 316/Viton

PERFORMANCE RANGE at 2900 min^{-1} (according to ISO 9906 Attachment A)



EVM

VERTICAL MULTISTAGE ELECTRIC PUMPS

in cast iron, AISI 304, AISI 316

EVM 3-18 IDENTIFICATION CODE

EVM	10	2	N	5	/	1,1	M

- M — Single phase
- 1,1 — Motor power in kW: 0,37 | 0,55 | 0,75 | 1,1 | 1,5 | 2,2 | 3 | 4 | 5,5 | 7,5 | 11 | 15
- 5 — 50 Hz
- N — Flange: N Oval flanges; F Round flanges
- 2 — N° of impellers: 2 | 3 | 4 | 5 | 6 | 8 | 10 | 11 | 12 | 14 | 15 | 16 | 18 | 20 | 22
- 10 — m³/h at max. efficiency: 3 | 5 | 10 | 18
- EVM — Model: **EVM** version in AISI 304; **EVML** version in AISI 316; **EVMG** version in cast iron; **EVMW** WRAS version

EVM 32-64 IDENTIFICATION CODE

EVM	32	2	-	2	F	5	/	3	M

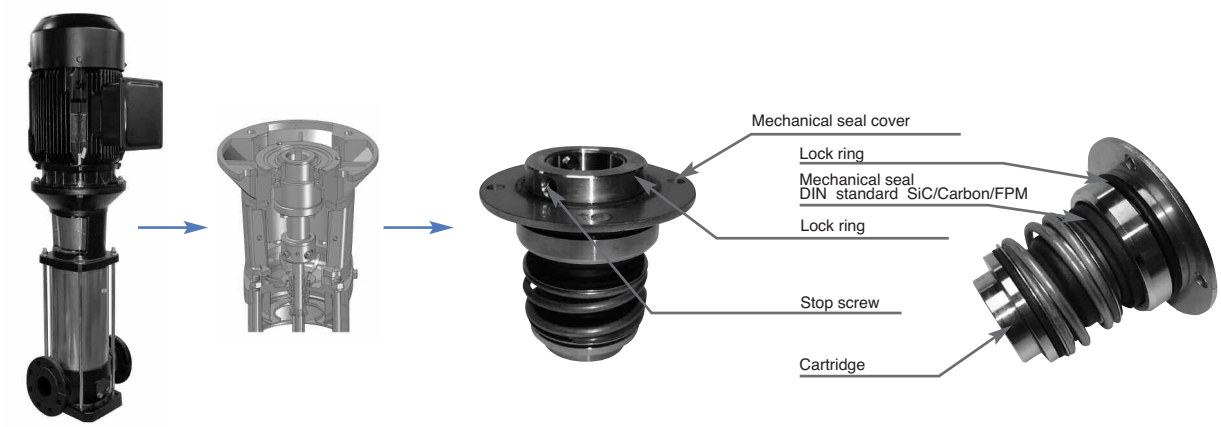
- M — Single phase
- 3 — Motor power in kW: 2,2 | 3 | 4 | 5,5 | 7,5 | 11 | 15 | 18,5 | 22 | 30 | 37
- 5 — 50 Hz
- F — Round flanges
- 2 — N° of reduced impellers: 0 | 1 | 2 | 3
- 2 — N° of impellers: 2 | 3 | 4 | 5 | 6 | 8 | 10 | 11 | 12 | 14 | 15 | 16 | 18 | 20 | 22
- 32 — m³/h at max. efficiency: 32 | 45 | 64
- EVM — Model: **EVM** version in AISI 304; **EVML** version in AISI 316; **EVMG** version in cast iron

MECHANICAL SEAL WITH CARTRIDGE

The EVM 32-45-64 pumps house the mechanical seal with cartridge as per standard.
All of the components of the mechanical seal constitute just one part on one shaft sleeve. The mechanical seal is ready to be installed between the pump shaft and the motor shaft.
The benefits of this type of seal are:

- Easy to install
- Safety and easy to use

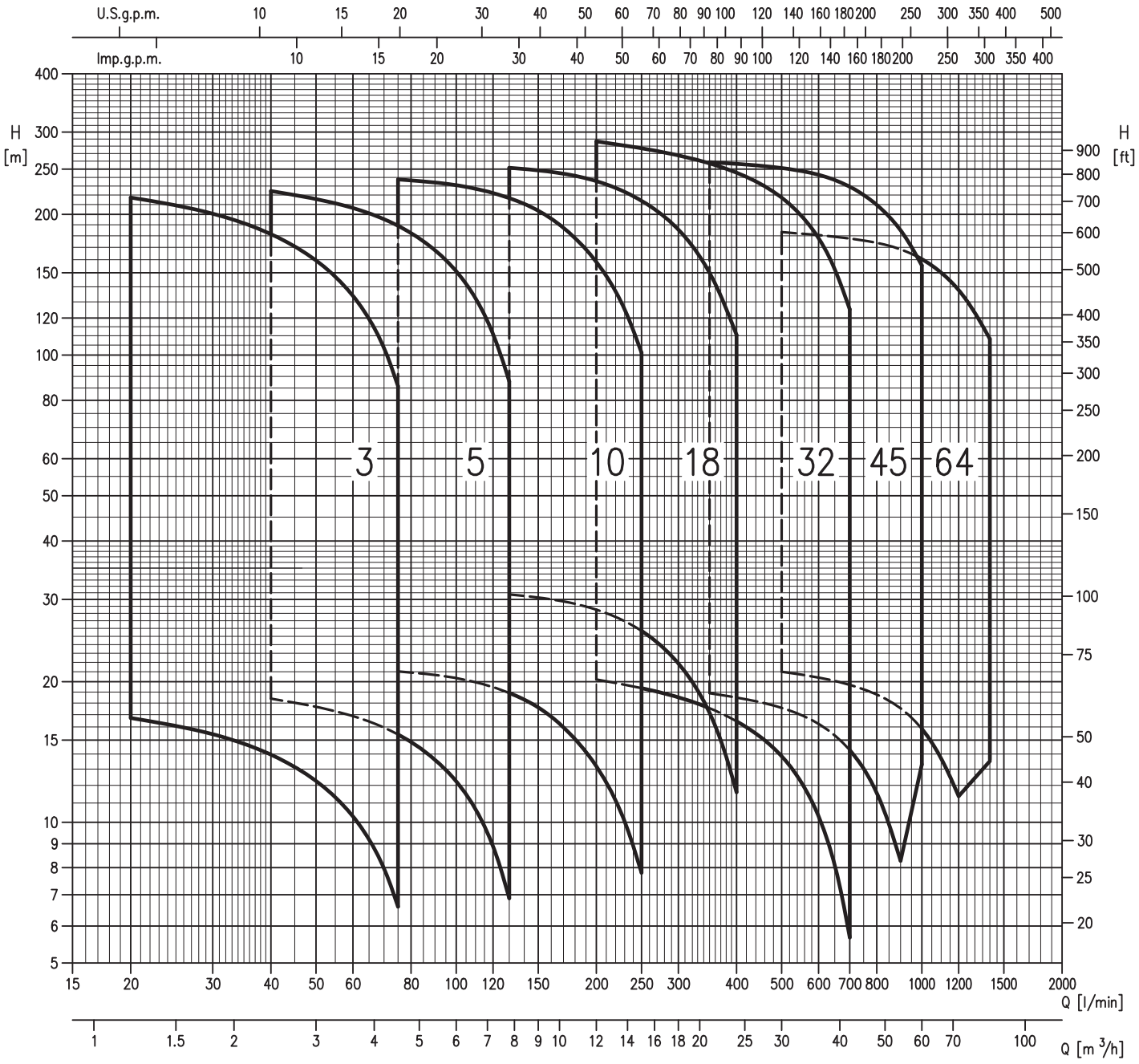
We are at your disposal to evaluate all demands and requirements in order to find the best solution for your plants and applications.



VERTICAL MULTISTAGE ELECTRIC PUMPS

in cast iron, AISI 304, AISI 316

PERFORMANCE RANGE a 2900 min^{-1} (according to ISO 9906 Attachment A)



VERTICAL MULTISTAGE ELECTRIC PUMPS

in cast iron, AISI 304, AISI 316

EVM 3-5-10-18 PERFORMANCE TABLE

Model	P_2 [HP]	P_2 [kW]	Mec Motor	Max. working pressure [MPa]	Q=Flow rate l/min	20	40	60	75	100	130	150	200	250	300	350	400	Weight [kg] Pump	Pump + motor [2]	Pump + motor [1]
					m^3/h	1,2	2,4	3,6	4,5	6	7,8	9	12	15	18	21	24			
					H=Head [m]															
EVM 3 2N5/0.37 (M)	0,5	0,37	71	1,6		16,7	14,0	10,3	6,6	-	-	-	-	-	-	-	-	11,0	17,0	17,0
EVM 3 3N5/0.37 (M)	0,5	0,37	71	1,6		25,1	20,9	15,5	9,9	-	-	-	-	-	-	-	-	12,0	17,0	17,0
EVM 3 4N5/0.55 (M)	0,75	0,55	71	1,6		33,4	27,9	20,6	13,2	-	-	-	-	-	-	-	-	12,0	19,0	19,0
EVM 3 5N5/0.55 (M)	0,75	0,55	71	1,6		42,0	34,9	25,8	16,5	-	-	-	-	-	-	-	-	13,0	20,0	19,0
EVM 3 6N5/0.75 (M)	1	0,75	80	1,6		50,0	42,0	30,9	19,8	-	-	-	-	-	-	-	-	14,0	25,0	22,0
EVM 3 7N5/0.75 (M)	1	0,75	80	1,6		58,5	49,0	36,1	23,1	-	-	-	-	-	-	-	-	14,0	25,0	22,0
EVM 3 9N5/1.1 (M)	1,5	1,1	80	1,6		75,0	63,0	46,5	29,7	-	-	-	-	-	-	-	-	15,0	27,0	24,0
EVM 3 11N5/1.1 (M)	1,5	1,1	80	1,6		92,0	77,0	56,5	36,3	-	-	-	-	-	-	-	-	16,0	28,0	26,0
EVM 3 13N5/1.5 (M)	2	1,5	90S	1,6		109,0	90,5	67,0	43,0	-	-	-	-	-	-	-	-	18,0	35,0	30,0
EVM 3 15N5/1.5 (M)	2	1,5	90S	1,6		125,0	105,0	77,5	49,5	-	-	-	-	-	-	-	-	19,0	37,0	32,0
EVM 3 18F5/2.2 (M)	3	2,2	90L	2,5		151,0	126,0	92,5	59,5	-	-	-	-	-	-	-	-	25,0	44,0	41,0
EVM 3 22F5/2.2 (M)	3	2,2	90L	2,5		184,0	154,0	113,0	72,5	-	-	-	-	-	-	-	-	27,0	47,0	43,0
EVM 3 26F5/3.0	4	3	100	2,5		217,0	182,0	134,0	86,0	-	-	-	-	-	-	-	-	31,0	-	50,0
EVM 5 2N5/0.37 (M)	0,5	0,37	71	1,6		-	18,4	16,9	15,4	12,2	6,9	-	-	-	-	-	-	12,0	17,0	17,0
EVM 5 3N5/0.55 (M)	0,75	0,55	71	1,6		-	27,6	25,3	23,1	18,4	10,3	-	-	-	-	-	-	12,0	19,0	18,0
EVM 5 4N5/0.75 (M)	1	0,75	80	1,6		-	36,8	33,8	30,8	24,5	13,8	-	-	-	-	-	-	13,0	24,0	21,0
EVM 5 5N5/1.1 (M)	1,5	1,1	80	1,6		-	46,0	42,0	38,6	30,6	17,2	-	-	-	-	-	-	14,0	25,0	23,0
EVM 5 6N5/1.1 (M)	1,5	1,1	80	1,6		-	55,0	50,5	46,5	36,7	20,6	-	-	-	-	-	-	14,0	26,0	24,0
EVM 5 7N5/1.5 (M)	2	1,5	90S	1,6		-	64,5	59,0	54,0	43,0	24,1	-	-	-	-	-	-	15,0	33,0	28,0
EVM 5 8N5/1.5 (M)	2	1,5	90S	1,6		-	73,5	67,5	61,5	49,0	27,5	-	-	-	-	-	-	16,0	33,0	28,0
EVM 5 10N5/2.2 (M)	3	2,2	90L	1,6		-	93,5	86,0	79,0	63,0	36,6	-	-	-	-	-	-	18,0	37,0	34,0
EVM 5 11N5/2.2 (M)	3	2,2	90L	1,6		-	103,0	94,5	86,5	69,5	40,5	-	-	-	-	-	-	19,0	39,0	35,0
EVM 5 12N5/2.2 (M)	3	2,2	90L	1,6		-	112,0	103,0	94,5	75,5	44,0	-	-	-	-	-	-	20,0	39,0	36,0
EVM 5 14N5/3.0	4	3	100	1,6		-	131,0	120,0	110,0	88,0	51,0	-	-	-	-	-	-	22,0	-	41,0
EVM 5 16N5/3.0	4	3	100	1,6		-	150,0	138,0	126,0	101,0	58,5	-	-	-	-	-	-	23,0	-	43,0
EVM 5 18F5/4.0	5,5	4	112	2,5		-	168,0	155,0	142,0	113,0	66,0	-	-	-	-	-	-	29,0	-	56,0
EVM 5 19F5/4.0	5,5	4	112	2,5		-	178,0	163,0	150,0	120,0	69,5	-	-	-	-	-	-	29,0	-	57,0
EVM 5 22F5/4.0	5,5	4	112	2,5		-	206,0	189,0	173,0	139,0	80,5	-	-	-	-	-	-	31,0	-	59,0
EVM 5 24F5/5.5	7,5	5,5	132S	2,5		-	224,0	206,0	189,0	151,0	88,0	-	-	-	-	-	-	35,0	-	67,0
EVM 10 2N5/0.75 (M)	1	0,75	80	1,6		-	-	-	21,0	20,4	18,9	17,6	13,2	7,8	-	-	-	18,0	29,0	26,0
EVM 10 3N5/1.1 (M)	1,5	1,1	80	1,6		-	-	-	31,6	30,5	28,4	26,4	19,8	11,7	-	-	-	20,0	31,0	29,0
EVM 10 4N5/1.5 (M)	2	1,5	90S	1,6		-	-	-	42,0	40,5	37,8	35,2	26,4	15,6	-	-	-	22,0	40,0	35,0
EVM 10 5N5/2.2 (M)	3	2,2	90L	1,6		-	-	-	52,5	51,0	47,5	44,0	33,0	19,5	-	-	-	23,0	42,0	39,0
EVM 10 6N5/2.2 (M)	3	2,2	90L	1,6		-	-	-	63,0	61,0	57,0	53,0	39,5	23,4	-	-	-	24,0	44,0	40,0
EVM 10 8N5/3.0	4	3	100	1,6		-	-	-	84,0	81,5	75,5	70,5	52,5	31,2	-	-	-	31,0	-	50,0
EVM 10 10N5/4.0	5,5	4	112	1,6		-	-	-	105,0	102,0	94,5	88,0	66,0	39,0	-	-	-	32,0	-	59,0
EVM 10 11N5/4.0	5,5	4	112	1,6		-	-	-	116,0	112,0	104,0	97,0	72,5	43,0	-	-	-	34,0	-	61,0
EVM 10 12N5/5.5	7,5	5,5	132S	1,6		-	-	-	130,0	126,0	118,0	111,0	86,5	55,0	-	-	-	39,0	-	71,0
EVM 10 14N5/5.5	7,5	5,5	132S	1,6		-	-	-	151,0	147,0	138,0	130,0	101,0	64,5	-	-	-	42,0	-	74,0
EVM 10 15F5/5.5	7,5	5,5	132S	2,5		-	-	-	162,0	158,0	148,0	139,0	108,0	69,0	-	-	-	46,0	-	78,0
EVM 10 16F5/7.5	10	7,5	132S	2,5		-	-	-	173,0	168,0	158,0	148,0	115,0	73,5	-	-	-	48,0	-	86,0
EVM 10 18F5/7.5	10	7,5	132S	2,5		-	-	-	194,0	189,0	177,0	167,0	129,0	83,0	-	-	-	50,0	-	88,0
EVM 10 20F5/7.5	10	7,5	132S	2,5		-	-	-	216,0	210,0	197,0	185,0	144,0	92,0	-	-	-	50,0	-	88,0
EVM 10 22F5/11	15	11	160M	2,5		-	-	-	238,0	231,0	217,0	204,0	158,0	101,0	-	-	-	56,0	-	113,0
EVM 18 2F5/2.2 (M)	3	2,2	90L	1,6		-	-	-	-	-	31,0	30,3	28,5	25,7	21,9	17,2	11,6	27,0	47,0	43,0
EVM 18 3F5/3.0	4	3	100	1,6		-	-	-	-	-	46,0	45,5	43,0	38,6	32,8	25,7	17,4	29,0	29,0	48,0
EVM 18 4F5/4.0	5,5	4	112	1,6		-	-	-	-	-	61,5	60,5	57,0	51,5	44,0	34,3	23,2	31,0	-	59,0
EVM 18 5F5/5.5	7,5	5,5	132S	1,6		-	-	-	-	-	77,0	75,5	71,5	64,5	54,5	43,0	29,0	38,0	-	70,0
EVM 18 6F5/5.5	7,5	5,5	132S	1,6		-	-	-	-	-	92,0	91,0	85,5	77,0	65,5	51,5	34,8	41,0	-	73,0
EVM 18 7F5/7.5	10	7,5	132S	2,5		-	-	-	-	-	108,0	106,0	100,0	90,0	76,5	60,0	40,5	44,0	-	82,0
EVM 18 8F5/7.5	10	7,5	132S	2,5		-	-	-	-	-	123,0	121,0	114,0	103,0	87,5	68,5	46,5	44,0	-	82,0
EVM 18 10F5/11	15	11	160M	2,5		-	-	-	-	-	157,0	155,0	147,0	134,0	116,0	93,5	69,0	54,0	-	111,0
EVM 18 12F5/11	15	11	160M	2,5		-	-	-	-	-	189,0	186,0	177,0	160,0	139,0	112,0	83,0	57,0	-	114,0
EVM 18 14F5/15	20	15	160M	2,5		-	-	-	-	-	220,0	217,0	206,0	187,0	162,0	131,0	96,5	58,0	-	151,0
EVM 18 15F5/15	20	15	160M	2,5		-	-	-	-	-	236,0	233,0	221,0	201,0	174,0	141,0	104,0	58,0	-	151,0
EVM 18 16F5/15	20	15	160M	2,5		-	-	-	-	-	252,0	249,0	236,0	214,0	186,0	150,0	110,0	61,0	-	154,0

1,6 MPa= 16 bar
2,5 MPa= 25 bar

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

VERTICAL MULTISTAGE ELECTRIC PUMPS

in cast iron, AISI 304, AISI 316

EVM 32-45 PERFORMANCE TABLE

Model	P_2 [HP]	P_2 [kW]	Mec Motor	Max. working pressure [MPa]	Q=Flow rate l/min	200	350	500	600	700	900	1000	Weight [kg] Pump	Weight [kg] Pump + motor
					m^3/h	12	21	30	36	42	54	60		
					H=Head [m]									
EVM 32 1-0F5/2.2	3	2,2	90L	1,6		20,2	17,5	13,9	10,3	5,7	-	-	56,0	72,0
EVM 32 2-2F5/3.0	4	3	100	1,6		34,6	29,7	21,2	14,2	-	-	-	58,0	77,0
EVM 32 2-0F5/4.0	5,5	4	112	1,6		40,5	36,0	29,5	23,2	14,9	-	-	58,0	85,0
EVM 32 3-3F5/5.5	7,5	5,5	132S	1,6		52,0	45,0	32,8	22,7	-	-	-	74,0	106,0
EVM 32 3-0F5/5.5	7,5	5,5	132S	1,6		61,0	54,5	45,0	36,1	24,1	-	-	74,0	106,0
EVM 32 4-3F5/7.5	10	7,5	132S	1,6		72,5	63,5	48,5	35,6	-	-	-	77,0	115,0
EVM 32 4-0F5/7.5	10	7,5	132S	1,6		81,5	73,0	61,0	49,0	33,3	-	-	77,0	115,0
EVM 32 5-3F5/11	15	11	160M	1,6		93,0	82,0	64,0	48,5	30,5	-	-	96,0	153,0
EVM 32 5-0F5/11	15	11	160M	1,6		102,0	91,5	76,5	62,0	42,5	-	-	96,0	153,0
EVM 32 6-3F5/11	15	11	160M	1,6		114,0	100,0	79,5	61,5	39,7	-	-	99,0	156,0
EVM 32 6-0F5/11	15	11	160M	1,6		123,0	110,0	92,0	75,0	51,5	-	-	99,0	156,0
EVM 32 7-3F5/15	20	15	160M	1,6		134,0	119,0	95,5	74,5	49,0	-	-	102,0	195,0
EVM 32 7-0F5/15	20	15	160M	1,6		143,0	128,0	108,0	87,5	61,0	-	-	102,0	195,0
EVM 32 8-3F5/15	20	15	160M	2,5		155,0	137,0	111,0	87,0	58,0	-	-	105,0	198,0
EVM 32 8-0F5/15	20	15	160M	2,5		164,0	147,0	123,0	101,0	70,0	-	-	105,0	198,0
EVM 32 9-3F5/18.5	25	18,5	160L	2,5		175,0	156,0	127,0	100,0	67,5	-	-	108,0	209,0
EVM 32 9-0F5/18.5	25	18,5	160L	2,5		184,0	165,0	139,0	114,0	79,5	-	-	108,0	209,0
EVM 32 10-3F5/18.5	25	18,5	160L	2,5		196,0	174,0	142,0	113,0	76,5	-	-	112,0	213,0
EVM 32 10-1F5/18.5	25	18,5	160L	2,5		202,0	180,0	151,0	122,0	84,5	-	-	112,0	213,0
EVM 32 11-3F5/22	30	22	180	2,5		216,0	193,0	158,0	126,0	85,5	-	-	116,0	246,0
EVM 32 11-0F5/22	30	22	180	2,5		225,0	202,0	170,0	139,0	97,5	-	-	116,0	246,0
EVM 32 12-3F5/22	30	22	180	2,5		237,0	211,0	174,0	139,0	95,0	-	-	119,0	249,0
EVM 32 12-1F5/22	30	22	180	3,0		243,0	217,0	182,0	148,0	103,0	-	-	119,0	249,0
EVM 32 13-3F5/30	40	30	200	3,0		257,0	229,0	189,0	152,0	104,0	-	-	129,0	301,0
EVM 32 13-0F5/30	40	30	200	3,0		266,0	239,0	202,0	165,0	116,0	-	-	129,0	301,0
EVM 32 14-3F5/30	40	30	200	3,0		278,0	248,0	205,0	165,0	113,0	-	-	133,0	305,0
EVM 32 14-0F5/30	40	30	200	3,0		287,0	257,0	217,0	178,0	125,0	-	-	133,0	305,0
EVM 45 1-1F5/3.0	4	3	100	1,6		-	18,9	17,6	16,3	14,3	8,3	-	71,0	90,0
EVM 45 1-0F5/4.0	5,5	4	112	1,6		-	25,6	24,6	23,5	21,8	16,7	13,3	73,0	100,0
EVM 45 2-2F5/5.5	7,5	5,5	132S	1,6		-	38,1	35,8	33,4	29,8	18,6	-	81,0	113,0
EVM 45 2-0F5/7.5	10	7,5	132S	1,6		-	51,5	50,0	48,0	45,0	35,4	29,1	81,0	119,0
EVM 45 3-2F5/11	15	11	160M	1,6		-	64,0	61,0	58,0	53,0	37,3	-	99,0	156,0
EVM 45 3-0F5/11	15	11	160M	1,6		-	77,5	75,0	72,5	68,0	54,0	45,0	99,0	156,0
EVM 45 4-2F5/15	20	15	160M	1,6		-	90,0	86,0	82,0	76,0	56,0	43,0	108,0	189,0
EVM 45 4-0F5/15	20	15	160M	1,6		-	103,0	100,0	96,5	91,0	73,0	60,5	108,0	189,0
EVM 45 5-2F5/18.5	25	18,5	160L	1,6		-	116,0	111,0	107,0	99,0	74,5	58,5	128,0	229,0
EVM 45 5-0F5/18.5	25	18,5	160L	1,6		-	129,0	125,0	121,0	114,0	91,5	76,5	128,0	229,0
EVM 45 6-2F5/22	30	22	180	1,6		-	142,0	137,0	131,0	122,0	93,5	74,5	133,0	263,0
EVM 45 6-0F5/22	30	22	180	1,6		-	155,0	151,0	146,0	137,0	110,0	92,5	133,0	263,0
EVM 45 7-2F5/30	40	30	200	2,5		-	168,0	162,0	155,0	145,0	112,0	90,5	139,0	311,0
EVM 45 7-0F5/30	40	30	200	2,5		-	181,0	176,0	170,0	160,0	129,0	108,0	139,0	311,0
EVM 45 8-2F5/30	40	30	200	2,5		-	194,0	187,0	180,0	168,0	131,0	106,0	146,0	318,0
EVM 45 8-0F5/30	40	30	200	2,5		-	207,0	201,0	194,0	183,0	148,0	124,0	146,0	318,0
EVM 45 9-2F5/30	40	30	200	2,5		-	219,0	212,0	204,0	191,0	150,0	122,0	151,0	323,0
EVM 45 9-0F5/37	50	37	200	2,5		-	233,0	226,0	219,0	206,0	166,0	140,0	151,0	341,0
EVM 45 10-2F5/37	50	37	200	3,0		-	245,0	237,0	229,0	214,0	168,0	138,0	156,0	346,0
EVM 45 10-0F5/37	50	37	200	3,0		-	259,0	251,0	243,0	229,0	185,0	156,0	156,0	346,0

1,6 MPa= 16 bar
2,5 MPa= 25 bar
3,0 MPa= 30 bar

VERTICAL MULTISTAGE ELECTRIC PUMPS

in cast iron, AISI 304, AISI 316

PERFORMANCE TABLE EVM 64

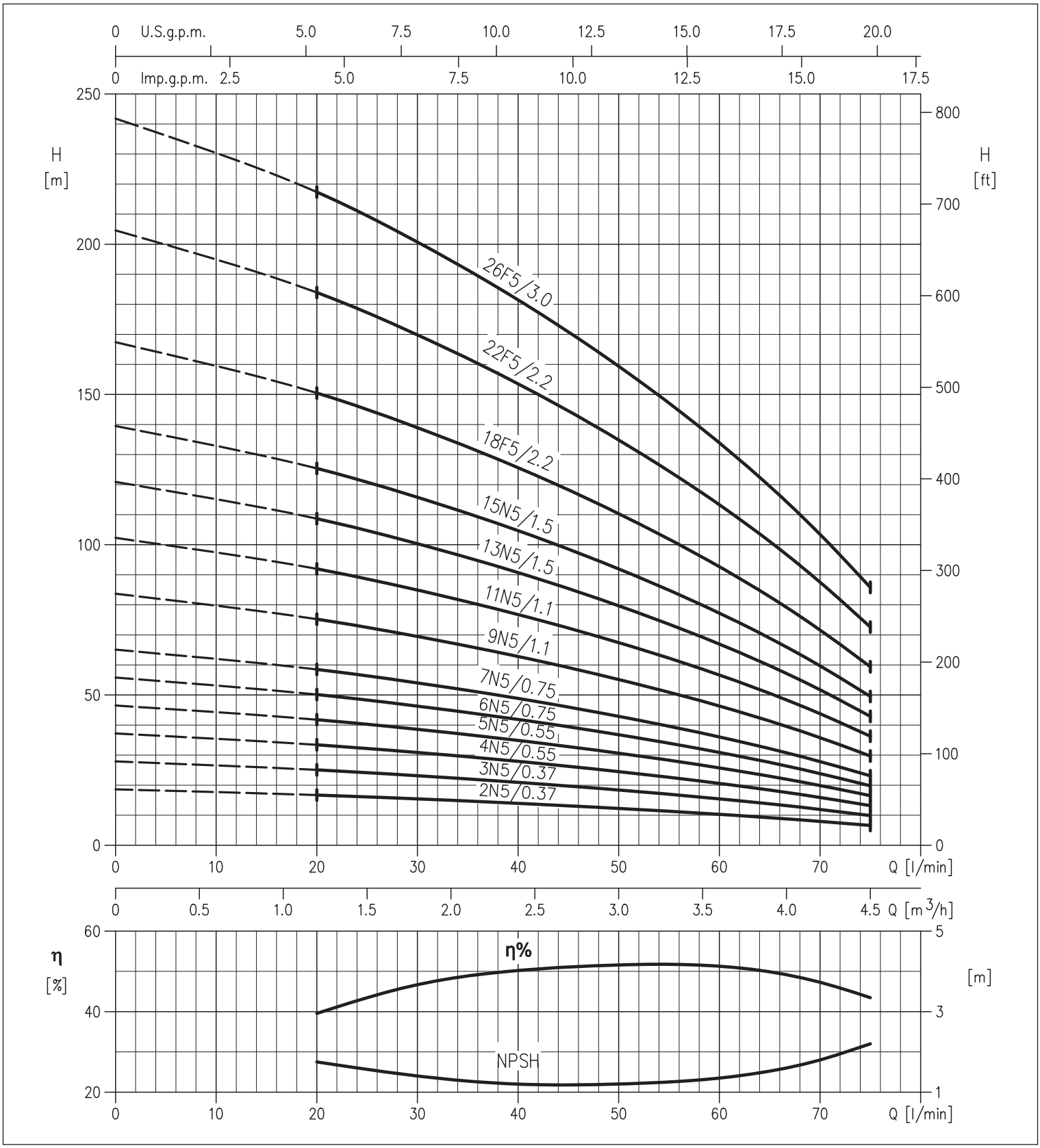
Model	P_2 [HP]	P_2 [kW]	Mec Motor	Max. working pressure [MPa]	Q=Flow rate l/min	500	600	700	900	1000	1200	1400	Weight [kg] Pump	Weight [kg] Pump + motor
					m^3/h	30	36	42	54	60	72	84		
					H=Head [m]									
EVM 64 1-1F5/4.0	5,5	4	100	1,6		21,0	20,4	19,7	17,5	15,9	11,4	-	70,0	98,0
EVM 64 1-0F5/5.5	7,5	5,5	132S	1,6		26,6	26,1	25,4	23,7	22,3	18,5	13,5	77,0	109,0
EVM 64 2-2F5/7.5	10	7,5	132S	1,6		42,5	41,5	40,5	36,5	33,5	25,3	-	81,0	119,0
EVM 64 2-1F5/11	15	11	160M	1,6		48,0	47,0	46,0	42,5	40,0	32,4	23,0	94,0	151,0
EVM 64 2-0F5/11	15	11	160M	1,6		53,5	53,0	52,0	49,0	46,5	39,5	30,6	94,0	151,0
EVM 64 3-3F5/15	20	15	160M	1,6		64,0	62,5	61,0	55,5	51,0	39,3	-	99,0	192,0
EVM 64 3-2F5/15	20	15	160M	1,6		69,5	68,0	66,5	61,5	57,5	46,5	32,5	99,0	192,0
EVM 64 3-1F5/15	20	15	160M	1,6		75,0	74,0	72,5	68,0	64,0	53,5	40,0	99,0	192,0
EVM 64 3-0F5/18.5	25	18,5	160L	1,6		80,5	79,5	78,0	74,0	70,5	60,5	47,5	99,0	200,0
EVM 64 4-3F5/18.5	25	18,5	160L	1,6		91,0	89,0	87,0	80,5	75,5	60,5	42,0	108,0	209,0
EVM 64 4-2F5/18.5	25	18,5	160L	1,6		96,5	95,0	93,0	87,0	81,5	67,5	49,5	108,0	209,0
EVM 64 4-1F5/22	30	22	180	1,6		102,0	101,0	98,5	93,0	88,0	74,5	57,0	116,0	246,0
EVM 64 4-0F5/22	30	22	180	1,6		108,0	106,0	104,0	99,0	94,5	81,5	64,5	116,0	246,0
EVM 64 5-3F5/30	40	30	200	1,6		118,0	116,0	114,0	106,0	99,5	81,5	59,0	128,0	300,0
EVM 64 5-2F5/30	40	30	200	1,6		124,0	122,0	119,0	112,0	106,0	88,5	66,5	128,0	300,0
EVM 64 5-1F5/30	40	30	200	1,6		129,0	127,0	125,0	118,0	112,0	95,5	74,0	128,0	300,0
EVM 64 5-0F5/30	40	30	200	1,6		135,0	133,0	131,0	124,0	119,0	103,0	81,5	128,0	300,0
EVM 64 6-3F5/30	40	30	200	1,6		145,0	143,0	140,0	131,0	124,0	103,0	76,0	136,0	308,0
EVM 64 6-2F5/30	40	30	200	2,5		151,0	148,0	146,0	137,0	130,0	110,0	83,5	136,0	308,0
EVM 64 6-1F5/37	50	37	200	2,5		156,0	154,0	151,0	143,0	136,0	117,0	91,0	136,0	326,0
EVM 64 6-0F5/37	50	37	200	2,5		162,0	160,0	157,0	149,0	143,0	124,0	99,0	136,0	326,0
EVM 64 7-3F5/37	50	37	200	2,5		172,0	169,0	166,0	156,0	148,0	124,0	93,0	139,0	329,0
EVM 64 7-2F5/37	50	37	200	2,5		178,0	175,0	172,0	162,0	154,0	131,0	101,0	139,0	329,0
EVM 64 7-1F5/37	50	37	200	2,5		183,0	181,0	178,0	168,0	161,0	138,0	108,0	139,0	329,0

1,6 MPa= 16 bar
2,5 MPa= 25 bar

VERTICAL MULTISTAGE ELECTRIC PUMPS

in cast iron, AISI 304, AISI 316

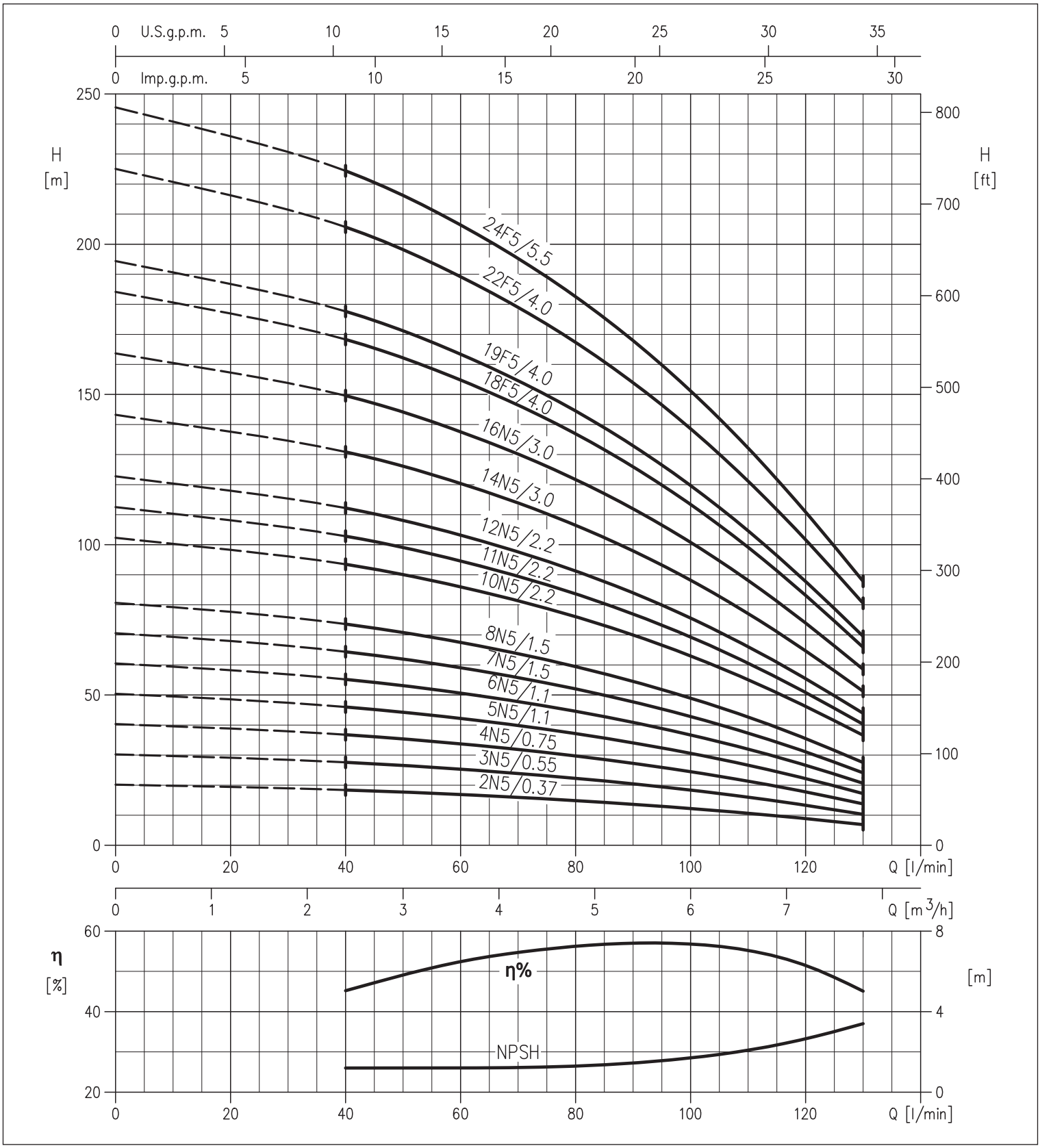
EVM 3 RANGE PERFORMANCE CURVE (according to ISO 9906 Attachment A)



VERTICAL MULTISTAGE ELECTRIC PUMPS

in cast iron, AISI 304, AISI 316

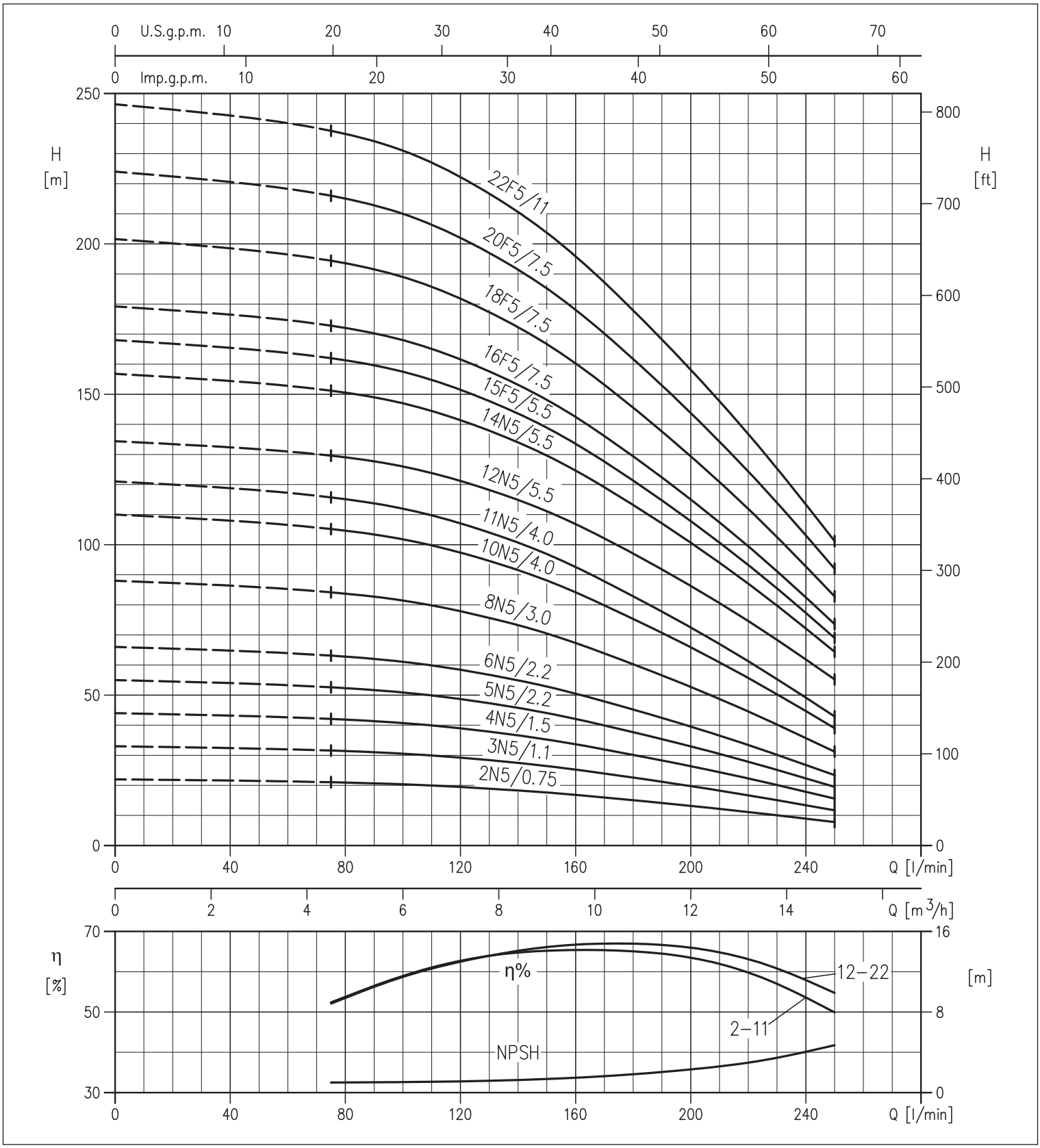
EVM 5 RANGE PERFORMANCE CURVE (according to ISO 9906 Attachment A)



VERTICAL MULTISTAGE ELECTRIC PUMPS

in cast iron, AISI 304, AISI 316

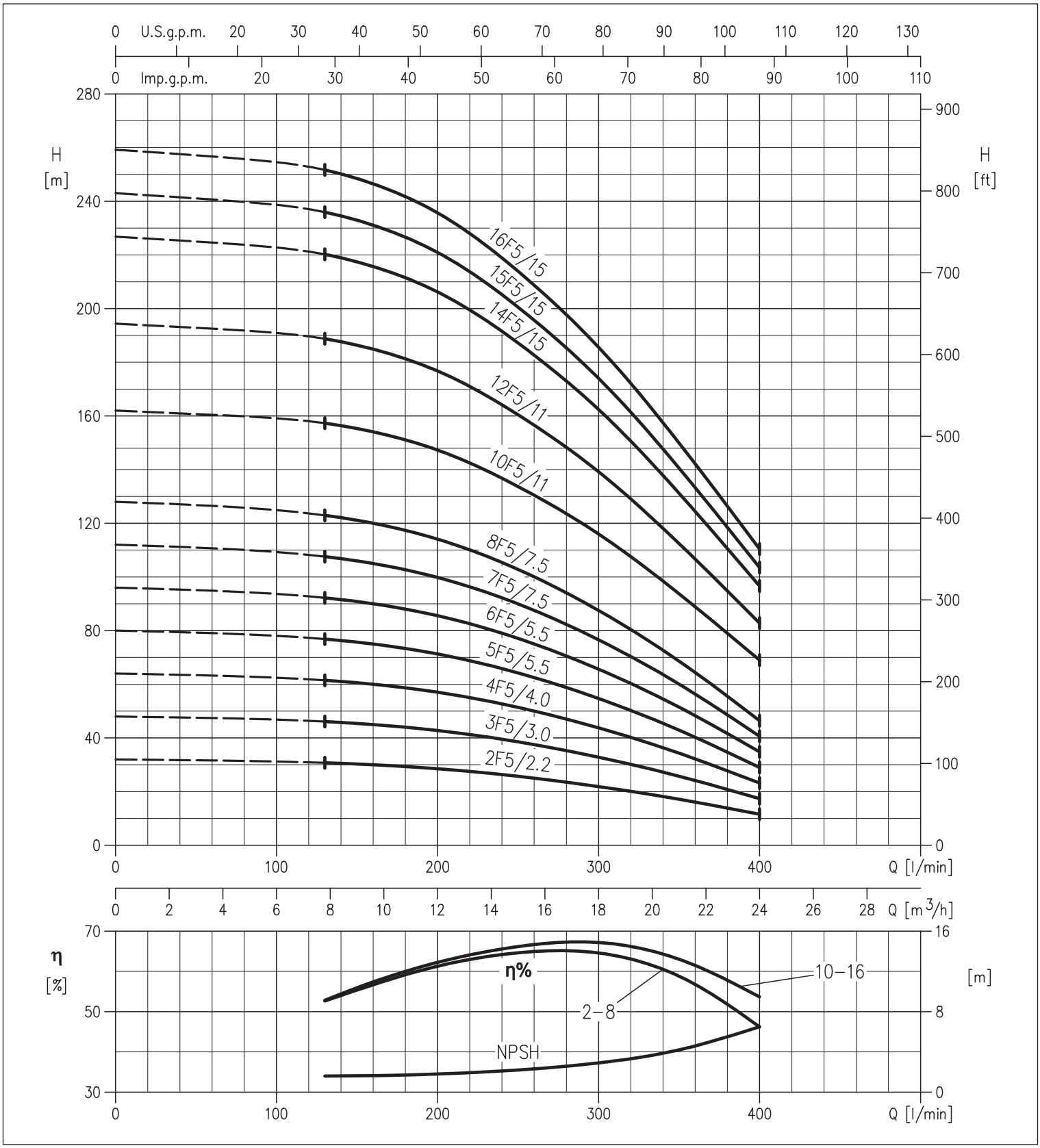
EVM 10 RANGE PERFORMANCE CURVE (according to ISO 9906 Attachment A)



VERTICAL MULTISTAGE ELECTRIC PUMPS

in cast iron, AISI 304, AISI 316

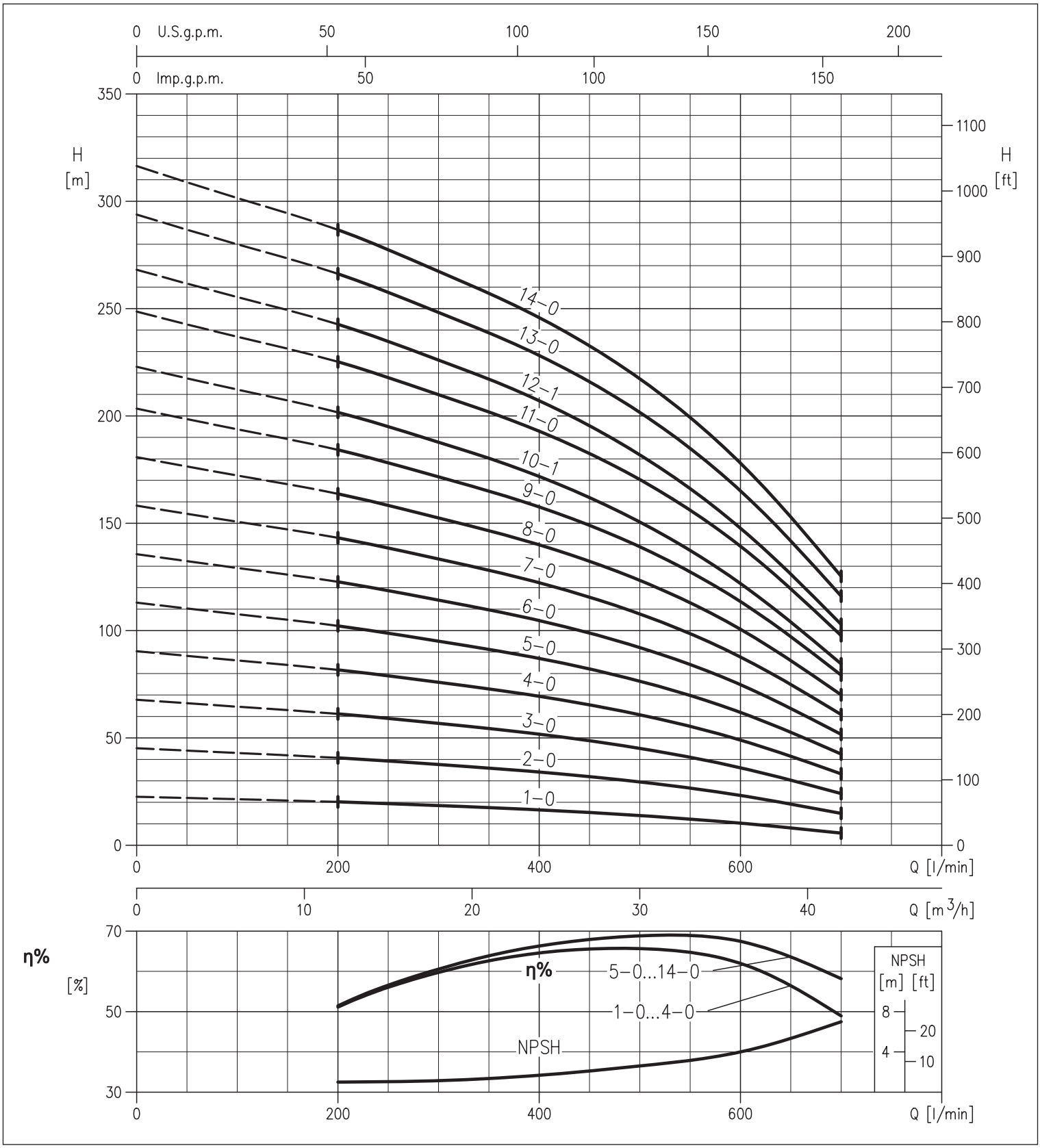
EVM 18 RANGE PERFORMANCE CURVE (according to ISO 9906 Attachment A)



VERTICAL MULTISTAGE ELECTRIC PUMPS

in cast iron, AISI 304, AISI 316

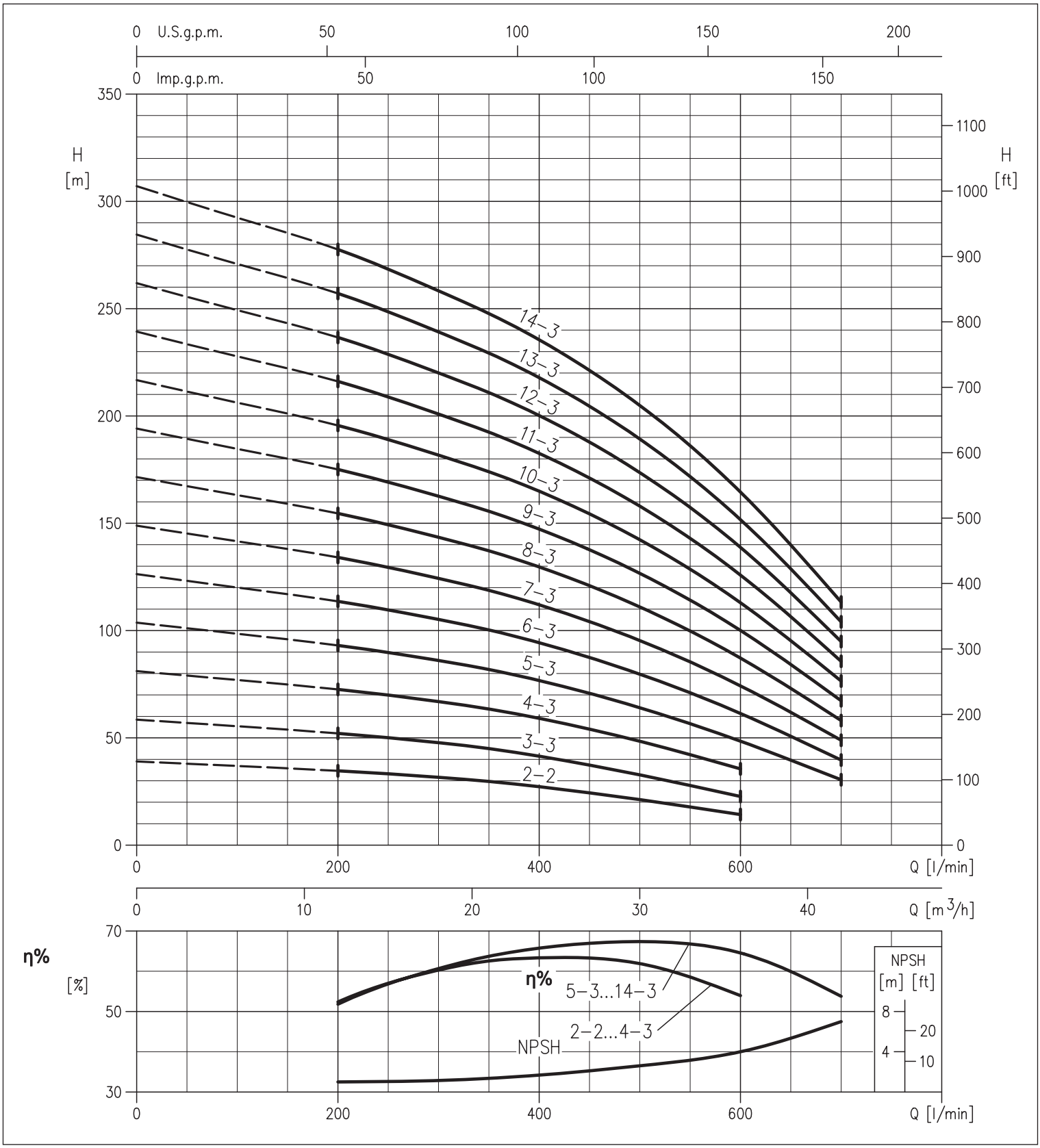
EVM 32 RANGE PERFORMANCE CURVE (according to ISO 9906 Attachment A)



VERTICAL MULTISTAGE ELECTRIC PUMPS

in cast iron, AISI 304, AISI 316

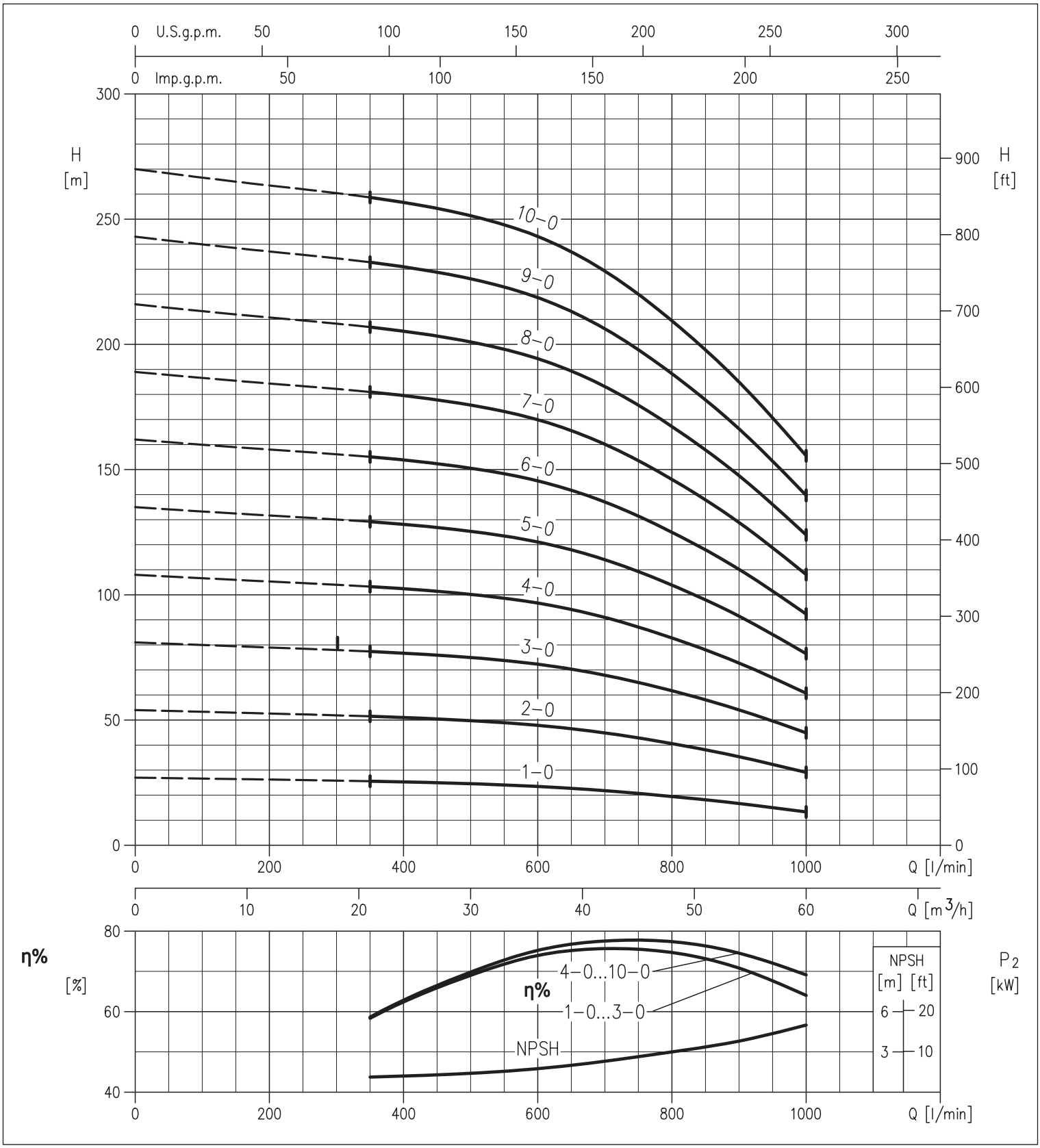
EVM 32 RANGE PERFORMANCE CURVE (according to ISO 9906 Attachment A)



VERTICAL MULTISTAGE ELECTRIC PUMPS

in cast iron, AISI 304, AISI 316

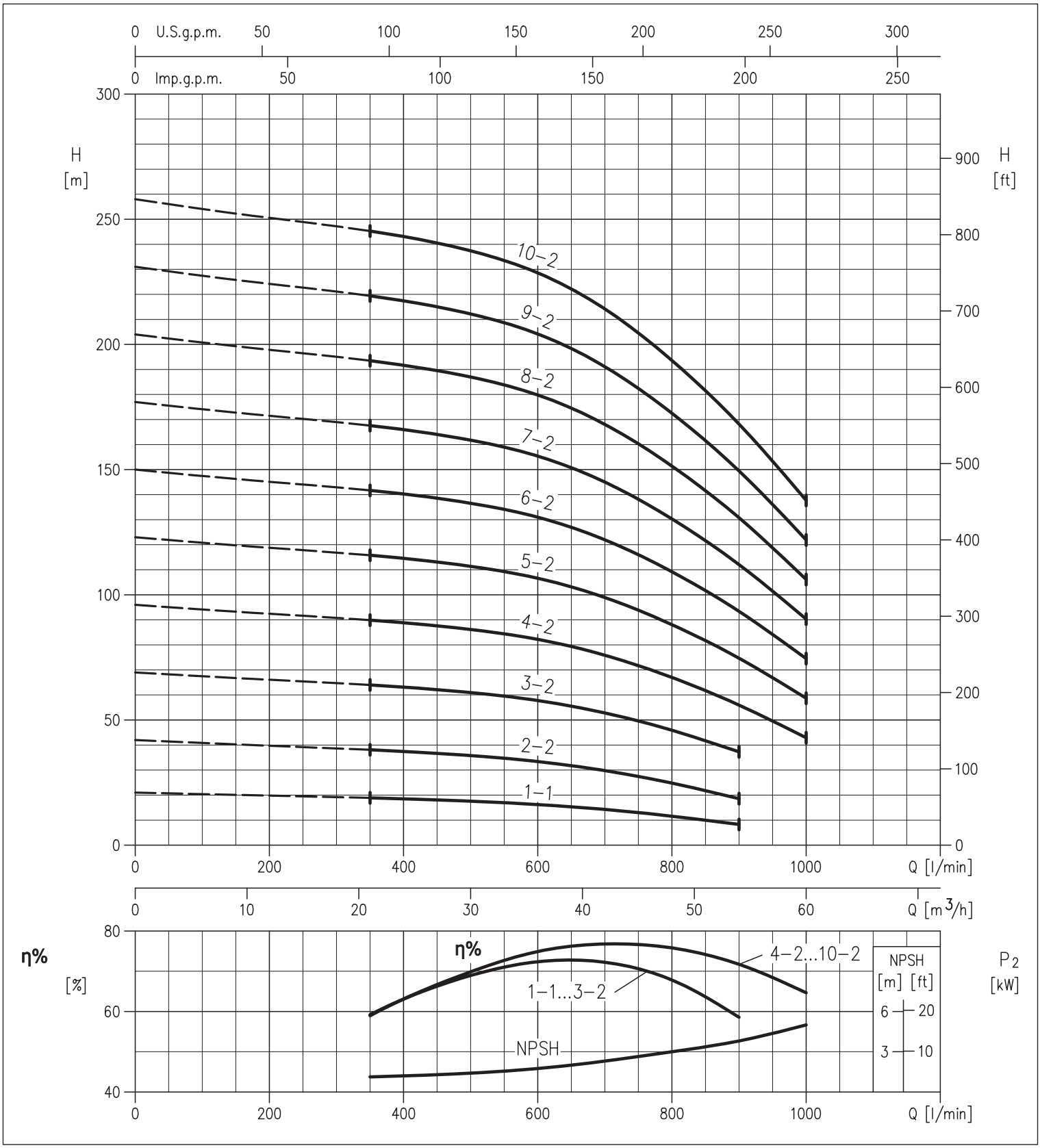
EVM 45 RANGE PERFORMANCE CURVE (according to ISO 9906 Attachment A)



VERTICAL MULTISTAGE ELECTRIC PUMPS

in cast iron, AISI 304, AISI 316

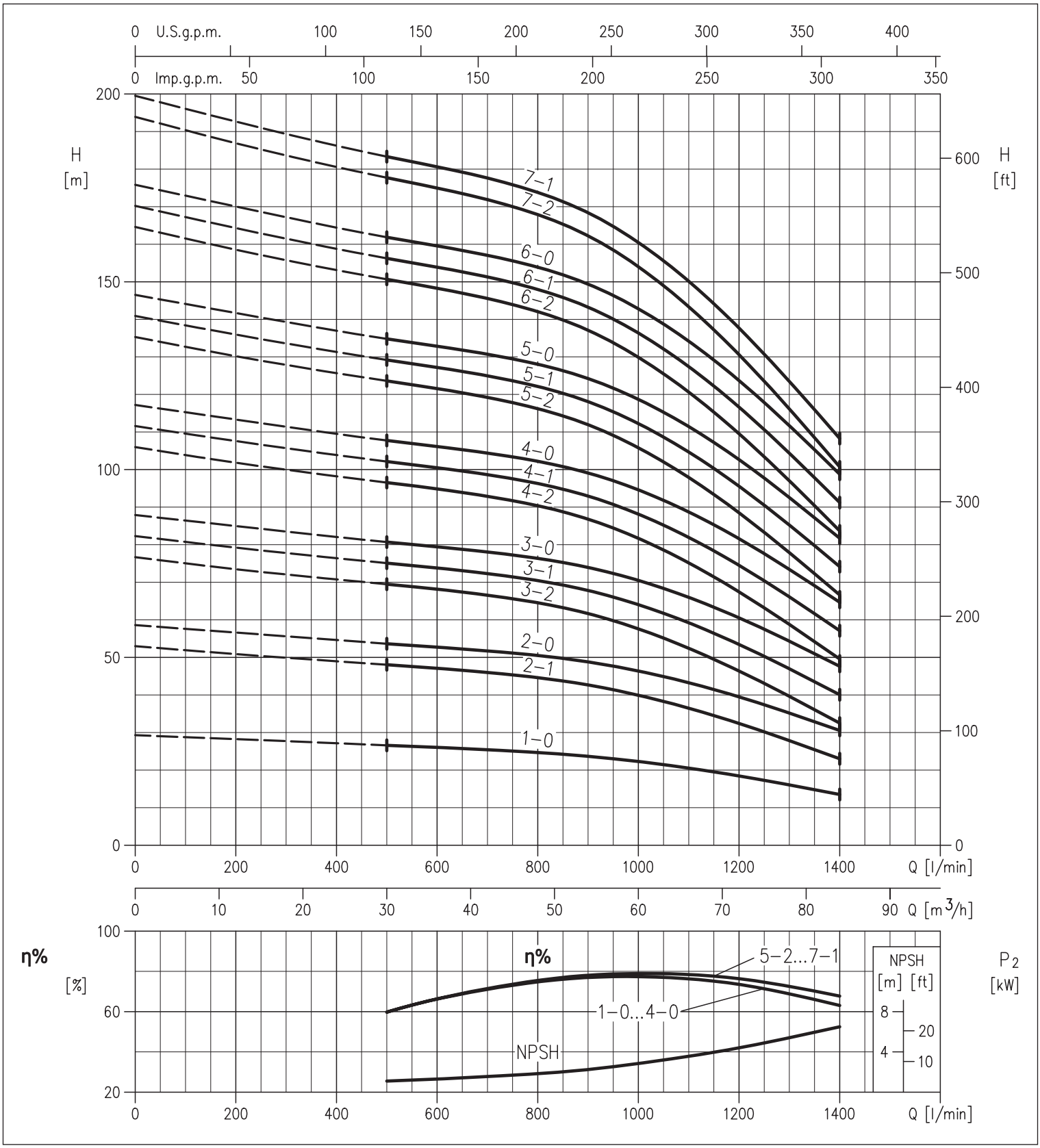
EVM 45 RANGE PERFORMANCE CURVE (according to ISO 9906 Attachment A)



VERTICAL MULTISTAGE ELECTRIC PUMPS

in cast iron, AISI 304, AISI 316

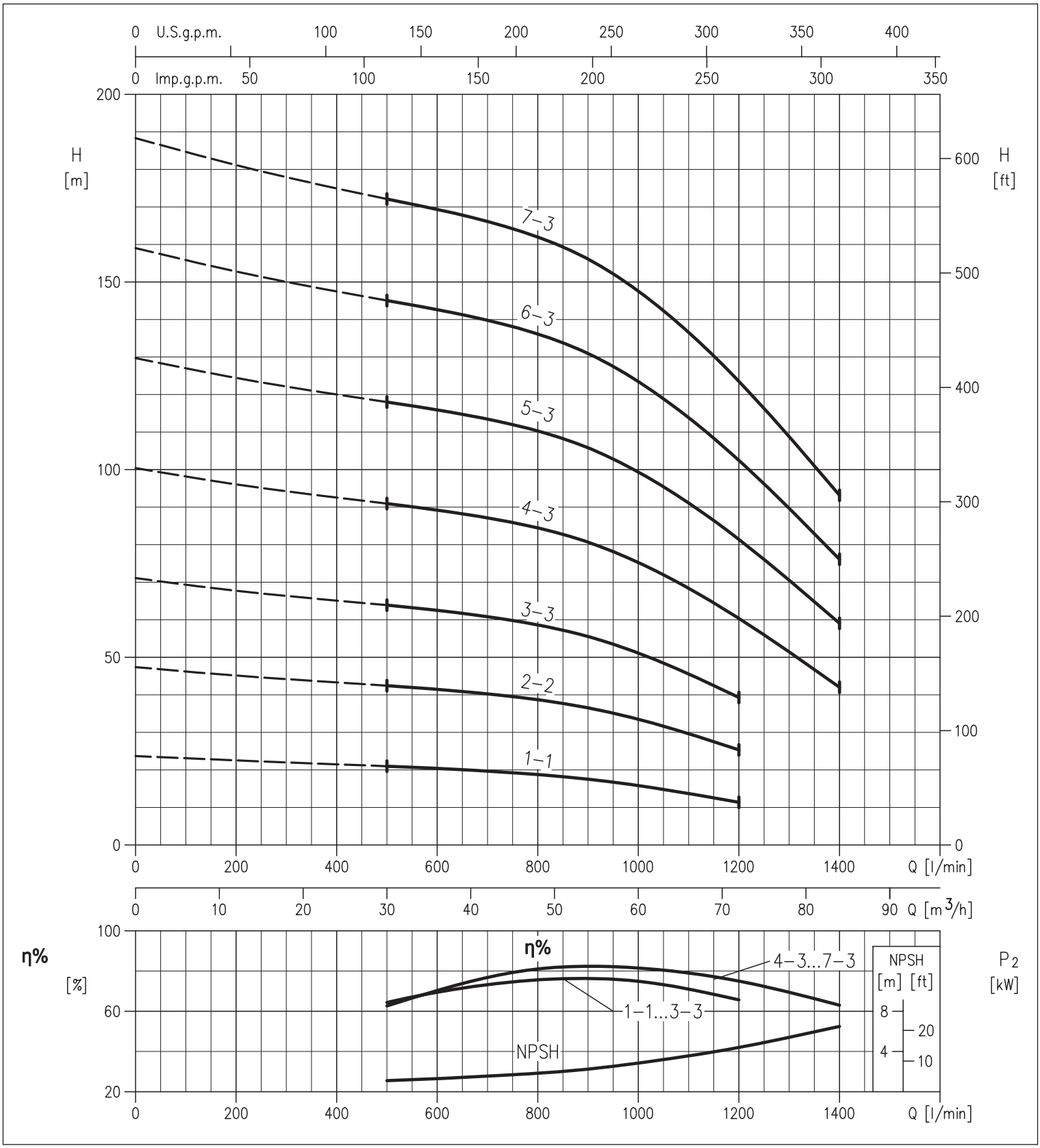
EVM 64 RANGE PERFORMANCE CURVE (according to ISO 9906 Attachment A)



VERTICAL MULTISTAGE ELECTRIC PUMPS

in cast iron, AISI 304, AISI 316

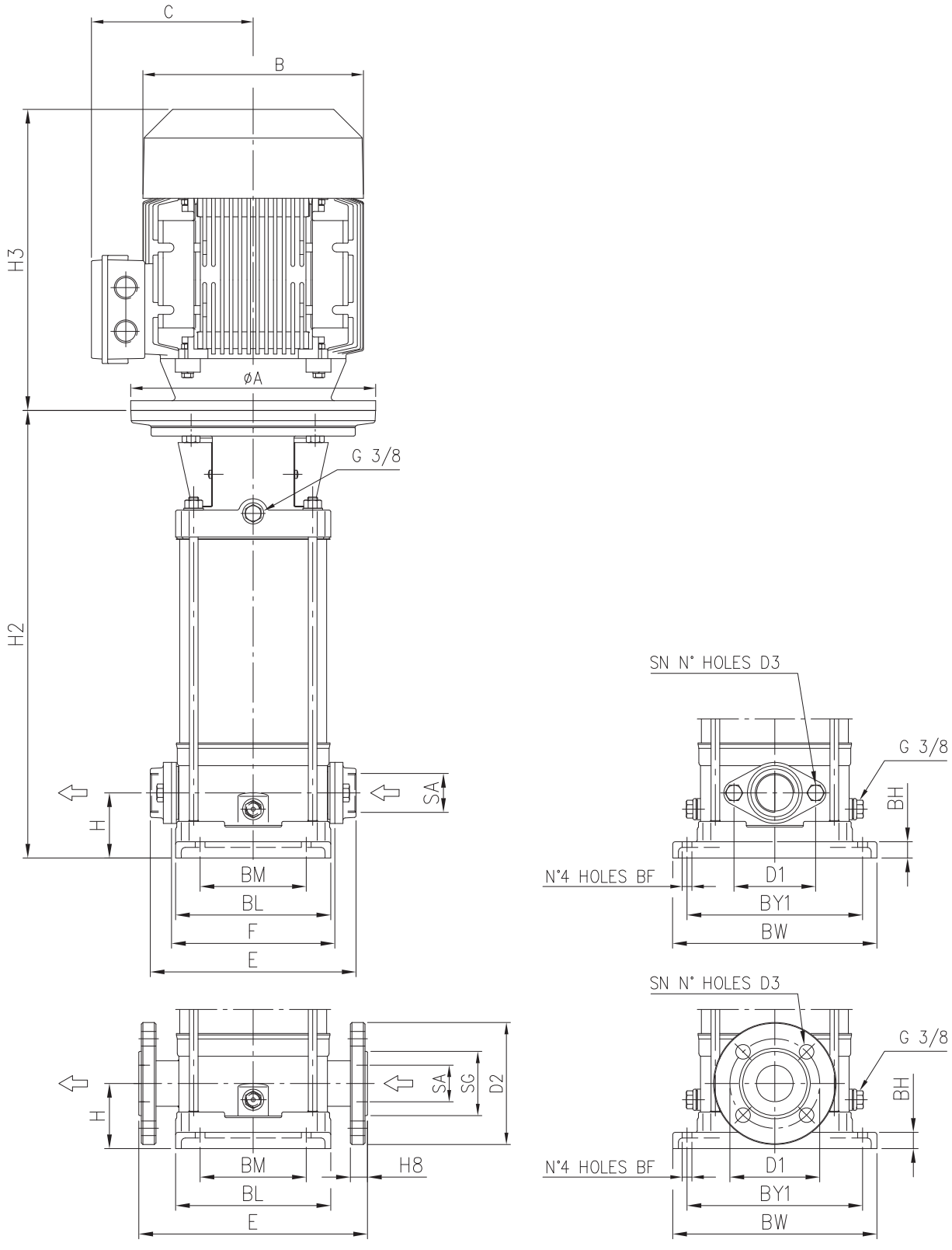
EVM 64 RANGE PERFORMANCE CURVE (according to ISO 9906 Attachment A)



VERTICAL MULTISTAGE ELECTRIC PUMPS

in cast iron, AISI 304, AISI 316

EVM 3-5-10-18 DIMENSIONS



EVM

VERTICAL MULTISTAGE ELECTRIC PUMPS

in cast iron, AISI 304, AISI 316

DIMENSIONS TABLE

Model	Mec	P. max.	Dimensions [mm]																								
			H	H2	H3		F	E	B		C		BM	BL	BY1	BW	SA	SG	D1	D2	H8	SN	D3	BF	BH	A
	Mot.	[MPa]			[2]	[1]			[2]	[1]	[2]	[1]														
EVM 3 2N5/0.37 (M)	71	1,6	50	241	215	215	160	206	142	142	129	112	100	149	180	210	G 1	-	75	-	-	2	M10	Ø12	20	Ø105
EVM 3 3N5/0.37 (M)	71	1,6	50	262	215	215	160	206	142	142	129	112	100	149	180	210	G 1	-	75	-	-	2	M10	Ø12	20	Ø105
EVM 3 4N5/0.55 (M)	71	1,6	50	283	215	215	160	206	142	142	129	112	100	149	180	210	G 1	-	75	-	-	2	M10	Ø12	20	Ø105
EVM 3 5N5/0.55 (M)	71	1,6	50	304	215	215	160	206	142	142	129	112	100	149	180	210	G 1	-	75	-	-	2	M10	Ø12	20	Ø105
EVM 3 6N5/0.75 (M)	80	1,6	50	335	232	232	160	206	160	160	150	129	100	149	180	210	G 1	-	75	-	-	2	M10	Ø12	20	Ø120
EVM 3 7N5/0.75 (M)	80	1,6	50	356	232	232	160	206	160	160	150	129	100	149	180	210	G 1	-	75	-	-	2	M10	Ø12	20	Ø120
EVM 3 9N5/1.1 (M)	80	1,6	50	398	232	232	160	206	160	160	150	129	100	149	180	210	G 1	-	75	-	-	2	M10	Ø12	20	Ø120
EVM 3 11N5/1.1 (M)	80	1,6	50	440	232	232	160	206	160	160	150	129	100	149	180	210	G 1	-	75	-	-	2	M10	Ø12	20	Ø120
EVM 3 13N5/1.5 (M)	90S	1,6	50	492	278	267	160	206	172	180	140	138	100	149	180	210	G 1	-	75	-	-	2	M10	Ø12	20	Ø140
EVM 3 15N5/1.5 (M)	90S	1,6	50	534	278	267	160	206	172	180	140	138	100	149	180	210	G 1	-	75	-	-	2	M10	Ø12	20	Ø140
EVM 3 18F5/2.2 (M)	90L	2,5	75	632	278	267	-	250	172	180	140	138	100	149	180	210	DN25	Ø63	Ø85	Ø115	16	4	Ø14	Ø12	20	Ø140
EVM 3 22F5/2.2 (M)	90L	2,5	75	717	278	267	-	250	172	180	140	138	100	149	180	210	DN25	Ø63	Ø85	Ø115	16	4	Ø14	Ø12	20	Ø140
EVM 3 26F5/3.0	100	2,5	75	811	-	306	-	250	-	196	-	145	100	149	180	210	DN25	Ø63	Ø85	Ø115	16	4	Ø14	Ø12	20	Ø160
EVM 5 2N5/0.37 (M)	71	1,6	50	255	215	215	160	206	142	142	129	112	100	149	180	210	G 1¼	-	75	-	-	2	M10	Ø12	20	Ø105
EVM 5 3N5/0.55 (M)	71	1,6	50	283	215	215	160	206	142	142	129	112	100	149	180	210	G 1¼	-	75	-	-	2	M10	Ø12	20	Ø105
EVM 5 4N5/0.75 (M)	80	1,6	50	321	232	232	160	206	160	160	150	129	100	149	180	210	G 1¼	-	75	-	-	2	M10	Ø12	20	Ø120
EVM 5 5N5/1.1 (M)	80	1,6	50	349	232	232	160	206	160	160	150	129	100	149	180	210	G 1¼	-	75	-	-	2	M10	Ø12	20	Ø120
EVM 5 6N5/1.1 (M)	80	1,6	50	377	232	232	160	206	160	160	150	129	100	149	180	210	G 1¼	-	75	-	-	2	M10	Ø12	20	Ø120
EVM 5 7N5/1.5 (M)	90S	1,6	50	415	278	267	160	206	172	180	140	138	100	149	180	210	G 1¼	-	75	-	-	2	M10	Ø12	20	Ø140
EVM 5 8N5/1.5 (M)	90S	1,6	50	443	278	267	160	206	172	180	140	138	100	149	180	210	G 1¼	-	75	-	-	2	M10	Ø12	20	Ø140
EVM 5 10N5/2.2 (M)	90L	1,6	50	509	278	267	160	206	172	180	140	138	100	149	180	210	G 1¼	-	75	-	-	2	M10	Ø12	20	Ø140
EVM 5 11N5/2.2 (M)	90L	1,6	50	537	278	267	160	206	172	180	140	138	100	149	180	210	G 1¼	-	75	-	-	2	M10	Ø12	20	Ø140
EVM 5 12N5/2.2 (M)	90L	1,6	50	565	278	267	160	206	172	180	140	138	100	149	180	210	G 1¼	-	75	-	-	2	M10	Ø12	20	Ø140
EVM 5 14N5/3.0	100	1,6	50	631	-	306	160	206	-	196	-	145	100	149	180	210	G 1¼	-	75	-	-	2	M10	Ø12	20	Ø160
EVM 5 16N5/3.0	100	1,6	50	688	-	306	160	206	-	196	-	145	100	149	180	210	G 1¼	-	75	-	-	2	M10	Ø12	20	Ø160
EVM 5 18F5/4.0	112	2,5	75	769	-	306	-	250	-	196	-	145	100	149	180	210	DN32	Ø71	Ø100	Ø140	20	4	Ø14	Ø12	20	Ø160
EVM 5 19F5/4.0	112	2,5	75	797	-	306	-	250	-	196	-	145	100	149	180	210	DN32	Ø71	Ø100	Ø140	20	4	Ø14	Ø12	20	Ø160
EVM 5 22F5/4.0	112	2,5	75	881	-	306	-	250	-	196	-	145	100	149	180	210	DN32	Ø71	Ø100	Ø140	20	4	Ø14	Ø12	20	Ø160
EVM 5 24F5/5.5	132	2,5	75	948	-	328	-	250	-	220	-	161	100	149	180	210	DN32	Ø71	Ø100	Ø140	20	4	Ø14	Ø12	20	Ø300
EVM 10 2N5/0.75 (M)	80	1,6	80	333	232	232	200	252	160	160	150	129	130	190	215	250	G 1½	-	100	-	-	2	M12	Ø12	20	Ø120
EVM 10 3N5/1.1 (M)	80	1,6	80	363	232	232	200	252	160	160	150	129	130	190	215	250	G 1½	-	100	-	-	2	M12	Ø12	20	Ø120
EVM 10 4N5/1.5 (M)	90S	1,6	80	403	278	267	200	252	172	180	140	138	130	190	215	250	G 1½	-	100	-	-	2	M12	Ø12	20	Ø140
EVM 10 5N5/2.2 (M)	90L	1,6	80	443	278	267	200	252	172	180	140	138	130	190	215	250	G 1½	-	100	-	-	2	M12	Ø12	20	Ø140
EVM 10 6N5/2.2 (M)	90L	1,6	80	473	278	267	200	252	172	180	140	138	130	190	215	250	G 1½	-	100	-	-	2	M12	Ø12	20	Ø140
EVM 10 8N5/3.0	100	1,6	80	543	-	306	200	252	-	196	-	145	130	190	215	250	G 1½	-	100	-	-	2	M12	Ø12	20	Ø160
EVM 10 10N5/4.0	112	1,6	80	603	-	306	200	252	-	196	-	145	130	190	215	250	G 1½	-	100	-	-	2	M12	Ø12	20	Ø160
EVM 10 11N5/4.0	112	1,6	80	633	-	306	200	252	-	196	-	145	130	190	215	250	G 1½	-	100	-	-	2	M12	Ø12	20	Ø160
EVM 10 12N5/5.5	132	1,6	80	674	-	328	200	252	-	220	-	161	130	190	215	250	G 1½	-	100	-	-	2	M12	Ø12	20	Ø300
EVM 10 14N5/5.5	132	1,6	80	734	-	328	200	252	-	220	-	161	130	190	215	250	G 1½	-	100	-	-	2	M12	Ø12	20	Ø300
EVM 10 15F5/5.5	132	2,5	80	764	-	328	-	280	-	220	-	161	130	190	215	250	DN40	Ø79	Ø110	Ø150	21	4	Ø18	Ø12	20	Ø300
EVM 10 16F5/7.5	132	2,5	80	794	-	328	-	280	-	220	-	161	130	190	215	250	DN40	Ø79	Ø110	Ø150	21	4	Ø18	Ø12	20	Ø300
EVM 10 18F5/7.5	132	2,5	80	854	-	328	-	280	-	220	-	161	130	190	215	250	DN40	Ø79	Ø110	Ø150	21	4	Ø18	Ø12	20	Ø300
EVM 10 20F5/7.5	132	2,5	80	915	-	328	-	280	-	220	-	161	130	190	215	250	DN40	Ø79	Ø110	Ø150	21	4	Ø18	Ø12	20	Ø300
EVM 10 22F5/11	160M	2,5	80	1005	-	403	-	280	-	248	-	195	130	190	215	250	DN40	Ø79	Ø110	Ø150	21	4	Ø18	Ø12	20	Ø350
EVM 18 2F5/2.2 (M)	90L	1,6	90	373	278	267	-	300	172	180	140	138	130	190	215	250	DN50	Ø92	Ø125	Ø165	21	4	Ø18	Ø12	20	Ø140
EVM 18 3F5/3.0	100	1,6	90	423	-	306	-	300	-	196	-	145	130	190	215	250	DN50	Ø92	Ø125	Ø165	21	4	Ø18	Ø12	20	Ø160
EVM 18 4F5/4.0	112	1,6	90	473	-	306	-	300	-	196	-	145	130	190	215	250	DN50	Ø92	Ø125	Ø165	21	4	Ø18	Ø12	20	Ø160
EVM 18 5F5/5.5	132	1,6	90	524	-	328	-	300	-	220	-	161	130	190	215	250	DN50	Ø92	Ø125	Ø165	21	4	Ø18	Ø12	20	Ø300
EVM 18 6F5/5.5	132	1,6	90	564	-	328	-	300	-	220	-	161	130	190	215	250	DN50	Ø92	Ø125	Ø165	21	4	Ø18	Ø12	20	Ø300
EVM 18 7F5/7.5	132	2,5	90	604	-	328	-	300	-	220	-	161	130	190	215	250	DN50	Ø92	Ø125	Ø165	21	4	Ø18	Ø12	20	Ø300
EVM 18 8F5/7.5	132	2,5	90	644	-	328	-	300	-	220	-	161	130	190	215	250	DN50	Ø92	Ø125	Ø165	21	4	Ø18	Ø12	20	Ø300
EVM 18 10F5/11	160M	2,5	90	754	-	403	-	300	-	248	-	195	130	190	215	250	DN50	Ø92	Ø125	Ø165	21	4	Ø18	Ø12	20	Ø350
EVM 18 12F5/11	160M	2,5	90	834	-	403	-	300	-	248	-	195	130	190	215	250	DN50	Ø92	Ø125	Ø165	21	4	Ø18	Ø12	20	Ø350
EVM 18 14F5/15	160M	2,5	90	914	-	503	-	300	-	335	-	246	130	190	215	250	DN50	Ø92	Ø125	Ø165	21	4	Ø18	Ø12	20	Ø350
EVM 18 15F5/15	160M	2,5	90	955	-	503	-	300	-	335	-	246	130	190	215	250	DN50	Ø92	Ø125	Ø165	21	4	Ø18	Ø12	20	Ø350
EVM 18 16F5/15	160M	2,5	90	995	-	503	-	300	-	335	-	246	130	190	215	250	DN50	Ø92	Ø125	Ø165	21	4	Ø18	Ø12	20	Ø350

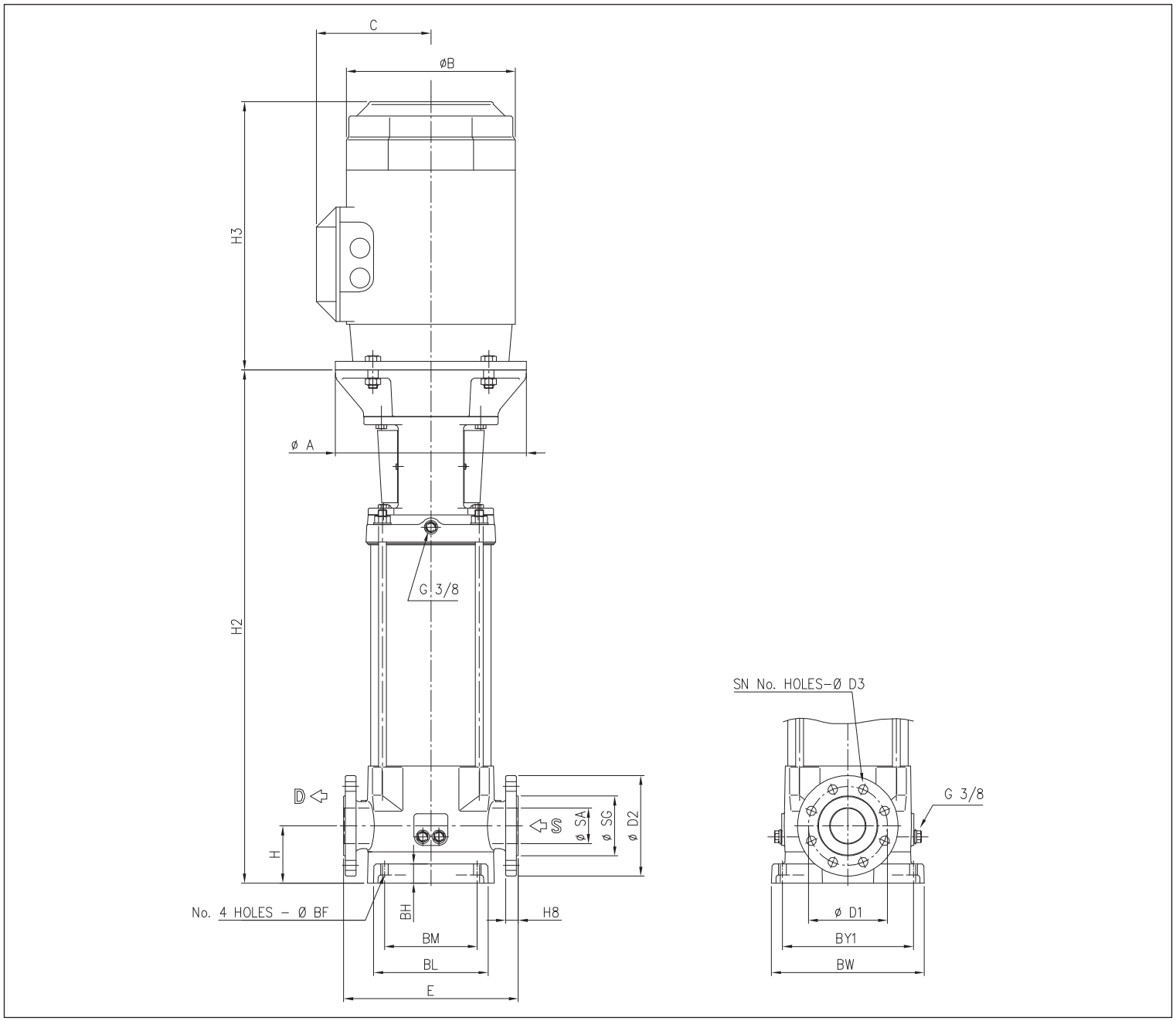
1,6 MPa= 16 bar
2,5 MPa= 25 bar

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

VERTICAL MULTISTAGE ELECTRIC PUMPS

in cast iron, AISI 304, AISI 316

EVM 32-45-64 DIMENSIONS



DIMENSIONS TABLE

Model	Mot. Mec	P. max. [MPa]	Dimensions [mm] H	H2	H3 [1]	E	B [1]	C [1]	BM	BL	BY1	BW	SA	SG	D1	D2	H8	SN	D3	BF	BH	A
EVM 32 1-0F5/2.2	90L	1,6	105	493	267	320	180	138	170	210	240	280	DN65	Ø110	Ø145	Ø185	23	4	Ø18	Ø14	35	140
EVM 32 2-2F5/3.0	100	1,6	105	503	306	320	196	145	170	210	240	280	DN65	Ø110	Ø145	Ø185	23	4	Ø18	Ø14	35	160
EVM 32 2-0F5/4.0	112	1,6	105	503	306	320	196	145	170	210	240	280	DN65	Ø110	Ø145	Ø185	23	4	Ø18	Ø14	35	160
EVM 32 3-3F5/5.5	132	1,6	105	572	328	320	220	161	170	210	240	280	DN65	Ø110	Ø145	Ø185	23	4	Ø18	Ø14	35	300
EVM 32 3-0F5/5.5	132	1,6	105	572	328	320	220	161	170	210	240	280	DN65	Ø110	Ø145	Ø185	23	4	Ø18	Ø14	35	300
EVM 32 4-3F5/7.5	132	1,6	105	620	328	320	220	161	170	210	240	280	DN65	Ø110	Ø145	Ø185	23	4	Ø18	Ø14	35	300
EVM 32 4-0F5/7.5	132	1,6	105	620	328	320	220	161	170	210	240	280	DN65	Ø110	Ø145	Ø185	23	4	Ø18	Ø14	35	300
EVM 32 5-3F5/11	160M	1,6	105	799	403	320	248	195	170	210	240	280	DN65	Ø110	Ø145	Ø185	23	4	Ø18	Ø14	35	350
EVM 32 5-0F5/11	160M	1,6	105	799	403	320	248	195	170	210	240	280	DN65	Ø110	Ø145	Ø185	23	4	Ø18	Ø14	35	350

VERTICAL MULTISTAGE ELECTRIC PUMPS

in cast iron, AISI 304, AISI 316

DIMENSIONS TABLE

Model	Mec	P.	Dimensions [mm]																		
	Mot.	max. [MPa]	H	H2	H3 [1]	E	B [1]	C [1]	BM	BL	BY1	BW	SA	SG	D1	D2	H8	SN	D3	BF	BH	A
EVM 32 6-3F5/11	160M	1,6	105	847	403	320	248	195	170	210	240	280	DN65	Ø110	Ø145	Ø185	23	4	Ø18	Ø14	35	350
EVM 32 6-0F5/11	160M	1,6	105	847	403	320	248	195	170	210	240	280	DN65	Ø110	Ø145	Ø185	23	4	Ø18	Ø14	35	350
EVM 32 7-3F5/15	160M	1,6	105	895	503	320	335	246	170	210	240	280	DN65	Ø110	Ø145	Ø185	23	4	Ø18	Ø14	35	350
EVM 32 7-0F5/15	160M	1,6	105	895	503	320	335	246	170	210	240	280	DN65	Ø110	Ø145	Ø185	23	4	Ø18	Ø14	35	350
EVM 32 8-3F5/15	160M	2,5	105	943	503	320	335	246	170	210	240	280	DN65	Ø110	Ø145	Ø185	23	8	Ø18	Ø14	35	350
EVM 32 8-0F5/15	160M	2,5	105	943	503	320	335	246	170	210	240	280	DN65	Ø110	Ø145	Ø185	23	8	Ø18	Ø14	35	350
EVM 32 9-3F5/18.5	160L	2,5	105	991	547	320	335	246	170	210	240	280	DN65	Ø110	Ø145	Ø185	23	8	Ø18	Ø14	35	350
EVM 32 9-0F5/18.5	160L	2,5	105	991	547	320	335	246	170	210	240	280	DN65	Ø110	Ø145	Ø185	23	8	Ø18	Ø14	35	350
EVM 32 10-3F5/18.5	160L	2,5	105	1039	547	320	335	246	170	210	240	280	DN65	Ø110	Ø145	Ø185	23	8	Ø18	Ø14	35	350
EVM 32 10-1F5/18.5	160L	2,5	105	1039	547	320	335	246	170	210	240	280	DN65	Ø110	Ø145	Ø185	23	8	Ø18	Ø14	35	350
EVM 32 11-3F5/22	180	2,5	105	1087	602	320	366	266	170	210	240	280	DN65	Ø110	Ø145	Ø185	23	8	Ø18	Ø14	35	350
EVM 32 11-0F5/22	180	2,5	105	1087	602	320	366	266	170	210	240	280	DN65	Ø110	Ø145	Ø185	23	8	Ø18	Ø14	35	350
EVM 32 12-3F5/22	180	2,5	105	1135	602	320	366	266	170	210	240	280	DN65	Ø110	Ø145	Ø185	23	8	Ø18	Ø14	35	350
EVM 32 12-1F5/22	180	3,0	105	1135	602	320	366	266	170	210	240	280	DN65	Ø110	Ø145	Ø185	23	8	Ø18	Ø14	35	350
EVM 32 13-3F5/30	200	3,0	105	1198	669	320	405	341	170	210	240	280	DN65	Ø110	Ø145	Ø185	23	8	Ø18	Ø14	35	400
EVM 32 13-0F5/30	200	3,0	105	1198	669	320	405	341	170	210	240	280	DN65	Ø110	Ø145	Ø185	23	8	Ø18	Ø14	35	400
EVM 32 14-3F5/30	200	3,0	105	1246	669	320	405	341	170	210	240	280	DN65	Ø110	Ø145	Ø185	23	8	Ø18	Ø14	35	400
EVM 32 14-0F5/30	200	3,0	105	1246	669	320	405	341	170	210	240	280	DN65	Ø110	Ø145	Ø185	23	8	Ø18	Ø14	35	400
EVM 45 1-1F5/3.0	100	1,6	140	525	306	365	196	145	190	251	266	331	DN80	Ø120	Ø160	Ø200	20	8	Ø18	Ø14	45	160
EVM 45 1-0F5/4.0	112	1,6	140	525	306	365	196	145	190	251	266	331	DN80	Ø120	Ø160	Ø200	20	8	Ø18	Ø14	45	160
EVM 45 2-2F5/5.5	132	1,6	140	618	328	365	220	161	190	251	266	331	DN80	Ø120	Ø160	Ø200	20	8	Ø18	Ø14	45	300
EVM 45 2-0F5/7.5	132	1,6	140	618	328	365	220	161	190	251	266	331	DN80	Ø120	Ø160	Ø200	20	8	Ø18	Ø14	45	300
EVM 45 3-2F5/11	160M	1,6	140	821	403	365	248	195	190	251	266	331	DN80	Ø120	Ø160	Ø200	20	8	Ø18	Ø14	45	350
EVM 45 3-0F5/11	160M	1,6	140	821	403	365	248	195	190	251	266	331	DN80	Ø120	Ø160	Ø200	20	8	Ø18	Ø14	45	350
EVM 45 4-2F5/15	160M	2,5	140	893	503	365	335	246	190	251	266	331	DN80	Ø120	Ø160	Ø200	20	8	Ø18	Ø14	45	350
EVM 45 4-0F5/15	160M	2,5	140	893	503	365	335	246	190	251	266	331	DN80	Ø120	Ø160	Ø200	20	8	Ø18	Ø14	45	350
EVM 45 5-2F5/18.5	160L	2,5	140	965	547	365	335	246	190	251	266	331	DN80	Ø120	Ø160	Ø200	20	8	Ø18	Ø14	45	350
EVM 45 5-0F5/18.5	160L	2,5	140	965	547	365	335	246	190	251	266	331	DN80	Ø120	Ø160	Ø200	20	8	Ø18	Ø14	45	350
EVM 45 6-2F5/22	180	2,5	140	1037	602	365	366	266	190	251	266	331	DN80	Ø120	Ø160	Ø200	20	8	Ø18	Ø14	45	350
EVM 45 6-0F5/22	180	2,5	140	1037	602	365	366	266	190	251	266	331	DN80	Ø120	Ø160	Ø200	20	8	Ø18	Ø14	45	350
EVM 45 7-2F5/30	200	2,5	140	1124	669	365	405	341	190	251	266	331	DN80	Ø120	Ø160	Ø200	20	8	Ø18	Ø14	45	400
EVM 45 7-0F5/30	200	2,5	140	1124	669	365	405	341	190	251	266	331	DN80	Ø120	Ø160	Ø200	20	8	Ø18	Ø14	45	400
EVM 45 8-2F5/30	200	2,5	140	1196	669	365	405	341	190	251	266	331	DN80	Ø120	Ø160	Ø200	20	8	Ø18	Ø14	45	400
EVM 45 8-0F5/30	200	2,5	140	1196	669	365	405	341	190	251	266	331	DN80	Ø120	Ø160	Ø200	20	8	Ø18	Ø14	45	400
EVM 45 9-2F5/3.0	200	2,5	140	1269	669	365	405	341	190	251	266	331	DN80	Ø120	Ø160	Ø200	20	8	Ø18	Ø14	45	400
EVM 45 9-0F5/37	200	2,5	140	1269	669	365	405	341	190	251	266	331	DN80	Ø120	Ø160	Ø200	20	8	Ø18	Ø14	45	400
EVM 45 10-2F5/37	200	3,0	140	1341	669	365	405	341	190	251	266	331	DN80	Ø120	Ø160	Ø200	20	8	Ø18	Ø14	45	400
EVM 45 10-0F5/37	200	3,0	140	1341	669	365	405	341	190	251	266	331	DN80	Ø120	Ø160	Ø200	20	8	Ø18	Ø14	45	400
EVM 64 1-1F5/4.0	100	1,6	140	525	306	365	196	145	190	251	266	331	DN100	Ø140	Ø180	Ø220	20	8	Ø18	Ø14	45	160
EVM 64 1-0F5/5.5	132	1,6	140	546	328	365	220	161	190	251	266	331	DN100	Ø140	Ø180	Ø220	20	8	Ø18	Ø14	45	300
EVM 64 2-2F5/7.5	132	1,6	140	618	328	365	220	161	190	251	266	331	DN100	Ø140	Ø180	Ø220	20	8	Ø18	Ø14	45	300
EVM 64 2-1F5/11	160M	1,6	140	749	403	365	248	195	190	251	266	331	DN100	Ø140	Ø180	Ø220	20	8	Ø18	Ø14	45	350
EVM 64 2-0F5/11	160M	1,6	140	749	403	365	248	195	190	251	266	331	DN100	Ø140	Ø180	Ø220	20	8	Ø18	Ø14	45	350
EVM 64 3-3F5/15	160M	1,6	140	821	503	365	335	246	190	251	266	331	DN100	Ø140	Ø180	Ø220	20	8	Ø18	Ø14	45	350
EVM 64 3-2F5/15	160M	1,6	140	821	503	365	335	246	190	251	266	331	DN100	Ø140	Ø180	Ø220	20	8	Ø18	Ø14	45	350
EVM 64 3-1F5/15	160M	1,6	140	821	503	365	335	246	190	251	266	331	DN100	Ø140	Ø180	Ø220	20	8	Ø18	Ø14	45	350
EVM 64 3-0F5/18.5	160L	1,6	140	821	547	365	335	246	190	251	266	331	DN100	Ø140	Ø180	Ø220	20	8	Ø18	Ø14	45	350
EVM 64 4-3F5/18.5	160L	1,6	140	893	547	365	335	246	190	251	266	331	DN100	Ø140	Ø180	Ø220	20	8	Ø18	Ø14	45	350
EVM 64 4-2F5/18.5	160L	1,6	140	893	547	365	335	246	190	251	266	331	DN100	Ø140	Ø180	Ø220	20	8	Ø18	Ø14	45	350
EVM 64 4-1F5/22	180	1,6	140	893	602	365	366	266	190	251	266	331	DN100	Ø140	Ø180	Ø220	20	8	Ø18	Ø14	45	350
EVM 64 4-0F5/22	180	1,6	140	893	602	365	366	266	190	251	266	331	DN100	Ø140	Ø180	Ø220	20	8	Ø18	Ø14	45	350
EVM 64 5-3F5/30	200	1,6	140	980	669	365	405	341	190	251	266	331	DN100	Ø140	Ø180	Ø220	20	8	Ø18	Ø14	45	400
EVM 64 5-2F5/30	200	1,6	140	980	669	365	405	341	190	251	266	331	DN100	Ø140	Ø180	Ø220	20	8	Ø18	Ø14	45	400
EVM 64 5-1F5/30	200	1,6	140	980	669	365	405	341	190	251	266	331	DN100	Ø140	Ø180	Ø220	20	8	Ø18	Ø14	45	400
EVM 64 5-0F5/30	200	1,6	140	980	669	365	405	341	190	251	266	331	DN100	Ø140	Ø180	Ø220	20	8	Ø18	Ø14	45	400
EVM 64 6-3F5/30	200	1,6	140	1052	669	365	405	341	190	251	266	331	DN100	Ø140	Ø180	Ø220	20	8	Ø18	Ø14	45	400
EVM 64 6-2F5/30	200	2,5	140	1052	669	365	405	341	190	251	266	331	DN100	Ø140	Ø190	Ø235	26	8	Ø22	Ø14	45	400
EVM 64 6-1F5/37	200	2,5	140	1052	669	365	405	341	190	251	266	331	DN100	Ø140	Ø190	Ø235	26	8	Ø22	Ø14	45	400
EVM 64 6-0F5/37	200	2,5	140	1052	669	365	405	341	190	251	266	331	DN100	Ø140	Ø190	Ø235	26	8	Ø22	Ø14	45	400
EVM 64 7-3F5/37	200	2,5	140	1124	669	365	405	341	190	251	266	331	DN100	Ø140	Ø190	Ø235	26	8	Ø22	Ø14	45	400
EVM 64 7-2F5/37	200	2,5	140	1124	669	365	405	341	190	251	266	331	DN100	Ø140	Ø190	Ø235	26	8	Ø22	Ø14	45	400
EVM 64 7-1F5/37	200	2,5	140	1124	669	365	405	341	190	251	266	331	DN100	Ø140	Ø190	Ø235	26	8	Ø22	Ø14	45	400

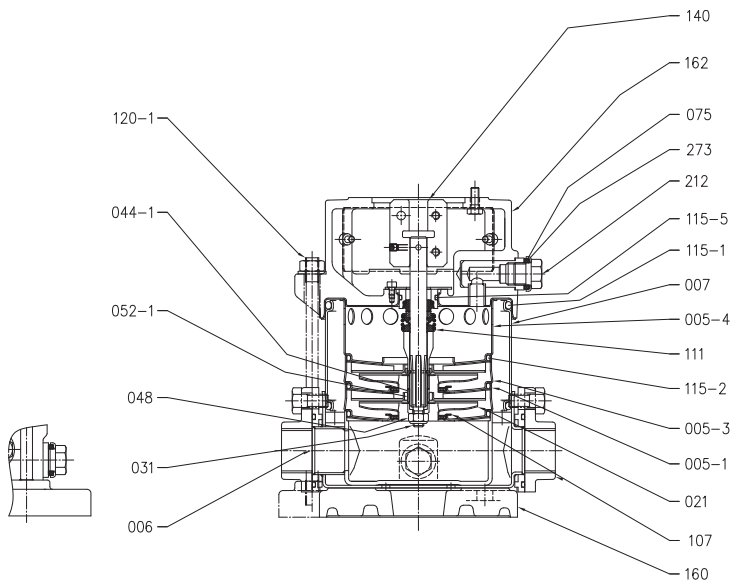
1,6 MPa= 16 bar
2,5 MPa= 25 bar
3,0 MPa= 30 bar

[1]= Three-phase only

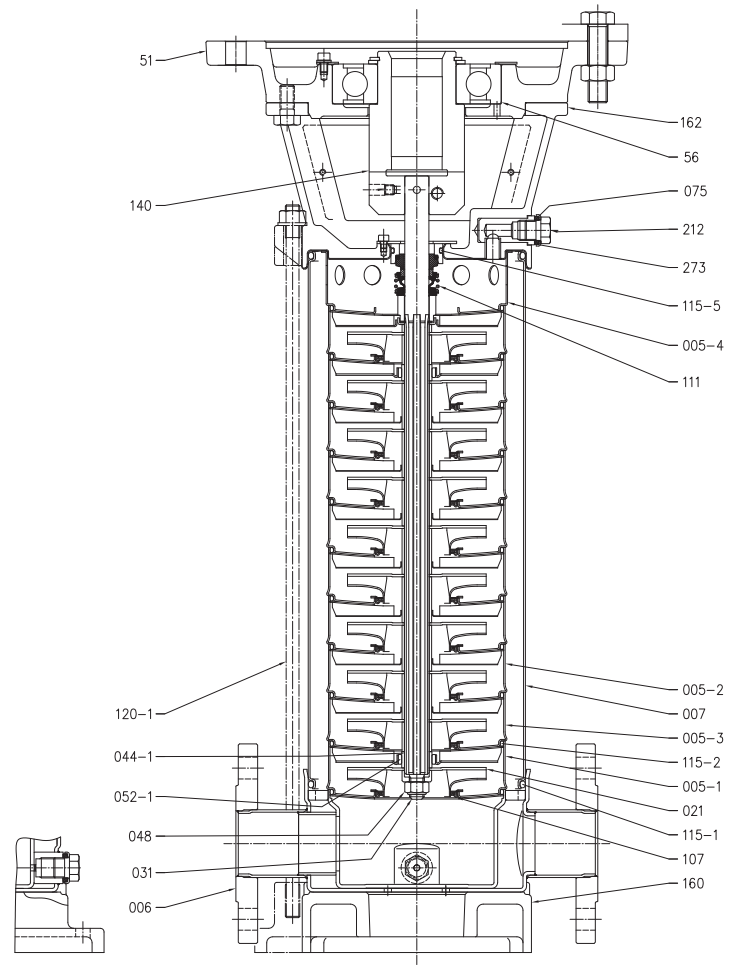
VERTICAL MULTISTAGE ELECTRIC PUMPS

in cast iron, AISI 304, AISI 316

EVM 3-18 SECTIONAL VIEW Pump without bearings



EVM 3-18 SECTIONAL VIEW Pump with individual bearing



VERTICAL MULTISTAGE ELECTRIC PUMPS

in cast iron, AISI 304, AISI 316

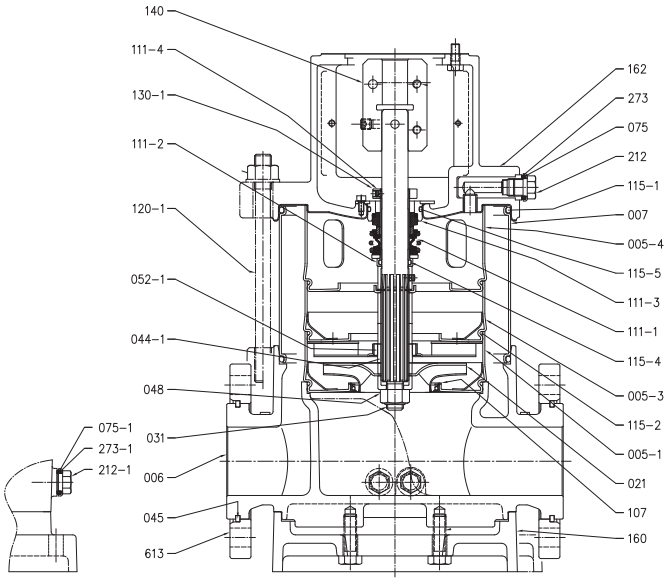
EVM 3-18 MATERIAL TABLE

Ref.	Name	Material			
		EVMG	EVM	EVML	EVMW
005-1	Suction stage	EN 1.4301(AISI 304)		EN 1.4401 (AISI 316)	EN 1.4301(AISI 304)
005-2	Intermediate stage	EN 1.4301(AISI 304)		EN 1.4401 (AISI 316)	EN 1.4301(AISI 304)
005-3	Support stage kit	EN 1.4301(AISI 304)		EN 1.4401 (AISI 316)	EN 1.4301(AISI 304)
005-4	Final stage	EN 1.4301(AISI 304)		EN 1.4401 (AISI 316)	EN 1.4301(AISI 304)
006	Pump body	Cast iron EN-GJL-200-EN 1561	EN 1.4301(AISI 304)	EN 1.4401 (AISI 316)	EN 1.4301(AISI 304)
007	External casing	EN 1.4401 (AISI 316)			
021	Impeller	EN 1.4301(AISI 304)		EN 1.4401 (AISI 316)	EN 1.4301(AISI 304)
031	Shaft	EN 1.4401 (AISI 316)			
044-1	Bearing	Tungsten carbide			
048	Impeller nut	A2-70 UNI 7323 (with stainless steel insert)		A4-70 UNI 7323 (with stainless steel insert)	A2-70 UNI 7323 (with stainless steel insert)
051	Motor adapter	Cast iron EN-GJL-200-EN 1561			
052-1	Bearing	Tungsten carbide			
056	Bearing	-			
075	O-Ring	EPDM		FPM	EPDM-WRAS
107	Wear ring	EPDM/EN 1.4301(AISI 304)		PTFE/EN 1.4401 (AISI 316)	EPDM-WRAS/EN 1.4301(AISI 304)
111	Mechanical seal	SiC/Carbon/FPM			SiC/Carbon/EPDM-WRAS
115	O-Ring (external casing)	EPDM		FPM	EPDM-WRAS
	O-Ring (stage)	EPDM		FPM	EPDM-WRAS
	O-Ring (seal-holder flange)	EPDM		FPM	EPDM-WRAS
120-1	Joint screw	Galvanised steel 6.8 class ISO 898/1			
140	Joint	Brass OT 58 UNI 5705/Carbon			
160	Pump body base	-	Cast iron EN-GJL-200-EN 1561		
162	Motor support	Cast iron EN-GJL-200-EN 1561			
212	Cap	EN 1.4301(AISI 304)		EN 1.4401 (AISI 316)	EN 1.4301(AISI 304)
273	Washer	EN 1.4301(AISI 304)		EN 1.4401 (AISI 316)	EN 1.4301(AISI 304)

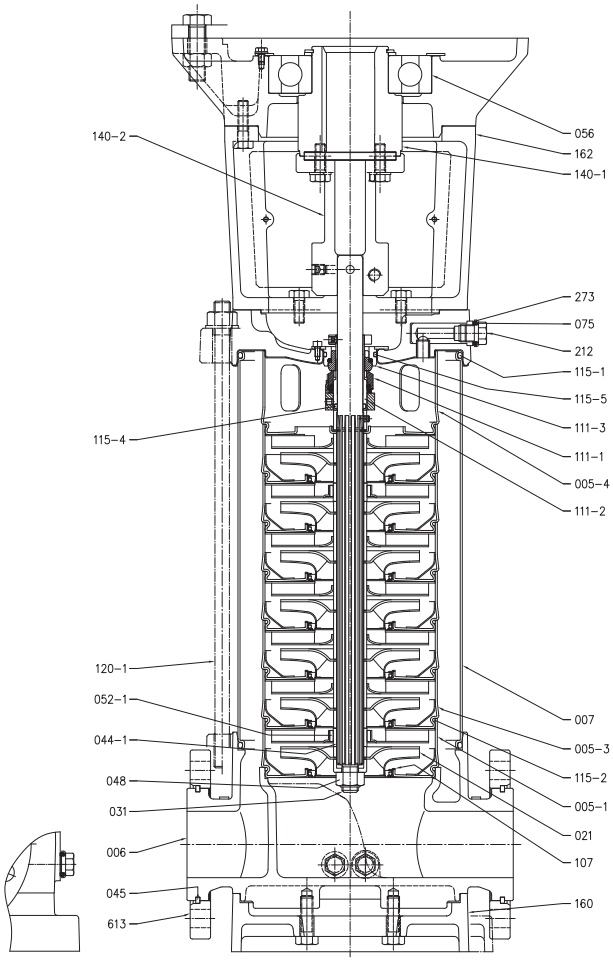
VERTICAL MULTISTAGE ELECTRIC PUMPS

in cast iron, AISI 304, AISI 316

EVM 32 SECTIONAL VIEW Pump without bearings



EVM 32 SECTIONAL VIEW Pump with individual bearing



VERTICAL MULTISTAGE ELECTRIC PUMPS

in cast iron, AISI 304, AISI 316

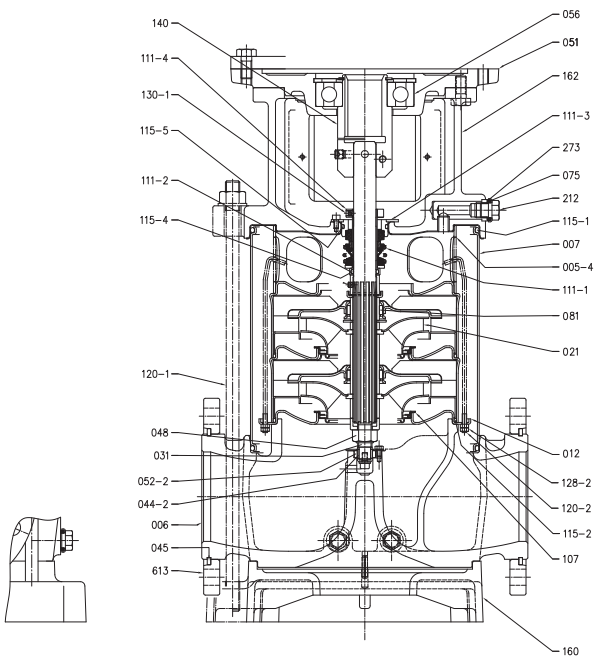
EVM 32 MATERIAL TABLE

Ref.	Name	Material		
		EVMG	EVM	EVML
005-1	Suction stage	EN 1.4301(AISI 304)		EN 1.4401 (AISI 316)
005-3	Support stage kit	EN 1.4301(AISI 304)		EN 1.4401 (AISI 316)
005-4	Final stage	EN 1.4301(AISI 304)		EN 1.4401 (AISI 316)
006	Pump body	Cast iron EN-GJL-200-EN 1561	EN 1.4308 (ASTM CF8)	EN 1.4408 (ASTM CF8M)
007	External casing	EN 1.4301(AISI 304)		EN 1.4401 (AISI 316)
021	Impeller	EN 1.4301(AISI 304)		EN 1.4401 (AISI 316)
031	Shaft	EN 1.4401 (AISI 316)		
044-1	Bearing	Tungsten carbide		
045	Flange half-ring	EN 1.402 (AISI 420)		
048	Impeller nut	A2-70 UNI 7323 (with stainless steel insert)		A4-70 UNI 7323 (with stainless steel insert)
052-1	Bearing	Tungsten carbide		
056	Bearing	-		
075	O-Ring	EPDM		FPM
107	Wear ring	EPDM/EN 1.4301(AISI 304)		PTFE/EN 1.4401 (AISI 316)
111-1	Mechanical seal	SiC/Carbon/FPM		
111-2	Mechanical seal (cartridge)	EN 1.4301(AISI 304)		EN 1.4401 (AISI 316)
111-3	Seal seat	EN 1.4301(AISI 304)		EN 1.4401 (AISI 316)
111-4	Sealing ring	Brass OT 58 UNI 5705		EN 1.4401 (AISI 316)
115	O-Ring (external casing)	EPDM		FPM
	O-Ring (stage)	EPDM		FPM
	O-Ring (seal-holder flange)	EPDM		FPM
	O-Ring (seal cover)	EPDM		FPM
120-1	Joint screw	Galvanised steel 6.8 class ISO 898/1		
130-1	Screw	A2-70 UNI 7323		
140	Joint	Brass OT 58 UNI 5705		
140-1	Motor joint	Carbon		
140-2	Joint	Carbon		
160	Pump body base	-	Cast iron EN-GJL-200-EN 1561	
162	Motor support	Cast iron EN-GJL-200-EN 1561		
212	Cap	EN 1.4301(AISI 304)		EN 1.4401 (AISI 316)
273	Washer	EN 1.4301(AISI 304)		EN 1.4401 (AISI 316)
613	Flange	Carbon	-	-

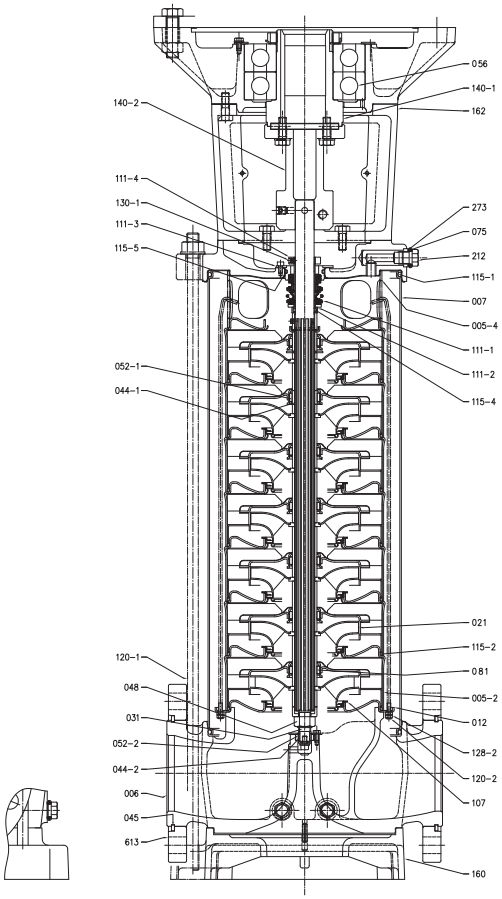
VERTICAL MULTISTAGE ELECTRIC PUMPS

in cast iron, AISI 304, AISI 316

EVM 45-64 SECTIONAL VIEW Pump without bearings



EVM 45-64 SECTIONAL VIEW Pump with individual bearing



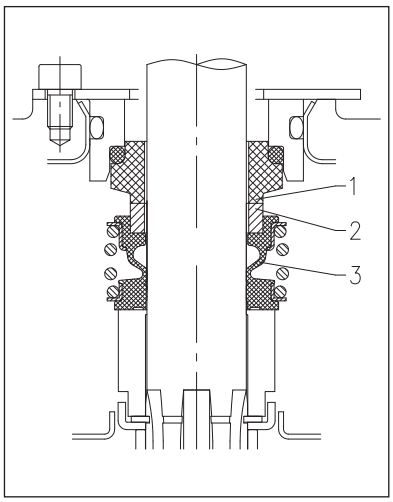
VERTICAL MULTISTAGE ELECTRIC PUMPS

in cast iron, AISI 304, AISI 316

EVM 45-64 MATERIAL TABLE

Ref.	Name	Material EVMG	Material EVM	Material EVML
005-4	Final stage	EN 1.4301(AISI 304)		EN 1.4401 (AISI 316)
006	Pump body	Cast iron EN-GJL-200-EN 1561	EN 1.4301(AISI 304)	EN 1.4401 (AISI 316)
007	External casing	EN 1.4301(AISI 304)		EN 1.4401 (AISI 316)
012	Suction cover	EN 1.4301(AISI 304)		EN 1.4401 (AISI 316)
021	Impeller	EN 1.4301(AISI 304)		EN 1.4401 (AISI 316)
031	Shaft	EN 1.4401 (AISI 316)		
044-1	Bearing	Tungsten carbide		
044-2	Bearing	Tungsten carbide		
045	Flange half-ring	EN 1.402 (AISI 420)		
048	Impeller nut	A2-70 UNI 7323 (with stainless steel insert)		A4-70 UNI 7323 (with stainless steel insert)
051	Motor adapter	Cast iron EN-GJL-200-EN 1561		
052-2	Bearing	Tungsten carbide		
056	Bearing	-		
075	O-Ring	EPDM		FPM
081	Bush	PTFE		
107	Wear ring	PTFE/EN 1.4401 (AISI 316)		
111-1	Mechanical seal	SiC/Carbon/FPM		
111-2	Mechanical seal (cartridge)	EN 1.4301(AISI 304)		EN 1.4401 (AISI 316)
111-3	Seal seat	EN 1.4301(AISI 304)		EN 1.4401 (AISI 316)
111-4	Sealing ring	Brass OT 58 UNI 5705		EN 1.4401 (AISI 316)
115-1	O-Ring (external casing)	EPDM		FPM
115-2	O-Ring (stage)	EPDM		FPM
115-4	O-Ring (seal-holder flange)	EPDM		FPM
115-5	O-Ring (seal cover)	EPDM		FPM
120-1	Joint screw	Galvanised steel 6.8 class ISO 898/1		
120-2	Tie-rod	EN 1.4301(AISI 304)		EN 1.4401 (AISI 316)
128-2	Screw	Carbon		EN 1.4401 (AISI 316)
130-1	Screw	A2-70 UNI 7323		
140	Joint	Brass OT 58 UNI 5705		
140-1	Motor joint	Carbon		
140-2	Joint	Carbon		
160	Pump body base	-	Cast iron EN-GJL-200-EN 1561	
162	Motor support	Cast iron EN-GJL-200-EN 1561		
212	Cap	EN 1.4301(AISI 304)		EN 1.4401 (AISI 316)
273	Washer	EN 1.4301(AISI 304)		EN 1.4401 (AISI 316)
613	Flange	-		Carbon

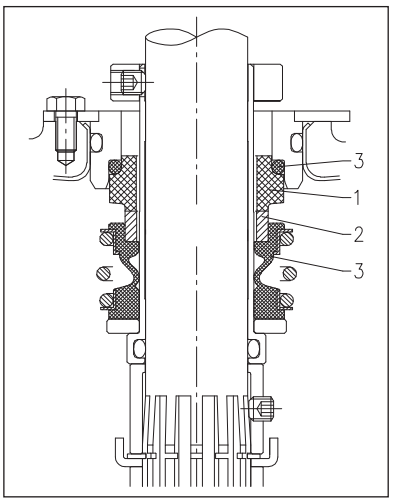
EVM 3-18 MECHANICAL SEAL



MATERIALS TABLE

Ref.	Name	Material
1	Fixed part	Carbon
2	Rotating part	SiC
3	Gasket	FPM (EPDM WRAS approved for EVMW)

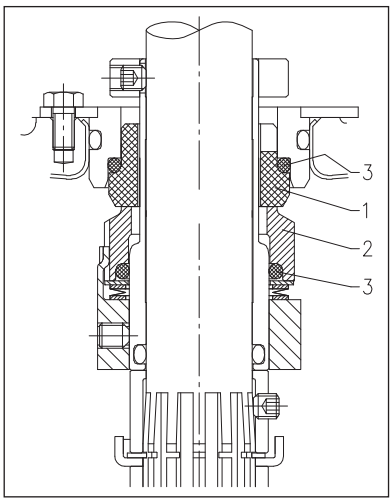
EVM 32-64 MECHANICAL SEAL WITH CARTRIDGE up to 2.5 MPA



MATERIALS TABLE

Ref.	Name	Material
1	Fixed part	Carbon
2	Rotating part	SiC
3	Gasket	FPM

EVM 32-64 MECHANICAL SEAL SEAL WITH CARTRIDGE from 2.5 to 3.0 MPA



MATERIALS TABLE

Ref.	Name	Material
1	Fixed part	Carbon
2	Rotating part	SiC
3	Gasket	FPM

VERTICAL MULTISTAGE ELECTRIC PUMPS

in cast iron, AISI 304, AISI 316

EVM 3-5-10-18 ELECTRIC DATA TABLE

Model	P_2		Mec	Single phase Capacitor		Efficiency and power factor Single phase		Efficiency and power factor Three phase		Absorbed Current [A]			
	[HP]	[kW]	Motor	µF	V_c	η %	cos ø	η %	cos ø	Single phase 230V	Three phase 230V	400V	690V
EVM 3 2N5/0.37 (M)	0,5	0,37	71	16	400	63	0,98	65,3	0,70	2,6	1,9	1,1	-
EVM 3 3N5/0.37 (M)	0,5	0,37	71	16	400	63	0,98	65,3	0,70	2,6	1,9	1,1	-
EVM 3 4N5 0.55 (M)	0,75	0,55	71	16	400	65	0,97	70,8	0,70	3,8	2,8	1,6	-
EVM 3 5N5/0.55 (M)	0,75	0,55	71	16	400	65	0,97	70,8	0,70	3,8	2,8	1,6	-
EVM 3 6N5/0.75 (M)	1	0,75	80	25	400	65	0,95	74,5	0,78	5,3	3,3	1,9	-
EVM 3 7N5/0.75 (M)	1	0,75	80	25	400	65	0,97	74,5	0,78	5,3	3,3	1,9	-
EVM 3 9N5/1.1 (M)	1,5	1,1	80	36	400	74	0,97	77,6	0,82	6,7	4,3	2,5	-
EVM 3 11N5/1.1 (M)	1,5	1,1	80	36	400	74	0,97	77,6	0,82	6,7	4,3	2,5	-
EVM 3 13N5/1.5 (M)	2	1,5	90S	35	400	79	0,97	78,6	0,82	8,8	5,9	3,4	-
EVM 3 15N5/1.5 (M)	2	1,5	90S	35	400	79	0,97	78,6	0,82	8,8	5,9	3,4	-
EVM 3 18F5/2.2 (M)	3	2,2	90L	40	400	78	0,97	81,8	0,81	12,9	8,5	4,9	-
EVM 3 22F5/2.2 (M)	3	2,2	90L	40	400	78	0,97	81,8	0,81	12,9	8,5	4,9	-
EVM 3 26F5/3.0	4	3	100	-	-	-	-	82,6	0,85	-	11,3	6,5	-
EVM 5 2N5/0.37 (M)	0,5	0,37	71	16	400	63	0,98	65,3	0,70	2,6	1,9	1,1	-
EVM 5 3N5/0.55 (M)	0,75	0,55	71	16	400	65	0,97	70,8	0,70	3,8	2,8	1,6	-
EVM 5 4N5/0.75 (M)	1	0,75	80	25	400	65	0,95	74,5	0,78	5,3	3,3	1,9	-
EVM 5 5N5/1.1 (M)	1,5	1,1	80	36	400	74	0,97	77,6	0,82	6,7	4,3	2,5	-
EVM 5 6N5/1.1 (M)	1,5	1,1	80	36	400	74	0,97	77,6	0,82	6,7	4,3	2,5	-
EVM 5 7N5/1.5 (M)	2	1,5	90S	35	400	79	0,97	78,6	0,82	8,8	5,9	3,4	-
EVM 5 8N5/1.5 (M)	2	1,5	90S	35	400	79	0,,97	78,6	0,82	8,8	5,9	3,4	-
EVM 5 10N5/2.2 (M)	3	2,2	90L	40	400	78	0,97	81,8	0,81	12,9	8,5	4,9	-
EVM 5 11N5/2.2 (M)	3	2,2	90L	40	400	78	0,97	81,8	0,81	12,9	8,5	4,9	-
EVM 5 12N5/2.2 (M)	3	2,2	90L	40	400	78	0,97	81,8	0,81	12,9	8,5	4,9	-
EVM 5 14N5/3.0	4	3	100	-	-	-	-	82,6	0,85	-	11,3	6,5	-
EVM 5 16N5/3.0	4	3	100	-	-	-	-	82,6	0,85	-	11,3	6,5	-
EVM 5 18F5/4.0	5,5	4	112	-	-	-	-	85,0	0,84	-	14,7	8,5	-
EVM 5 19F5/4.0	5,5	4	112	-	-	-	-	85,0	0,84	-	14,7	8,5	-
EVM 5 22F5/4.0	5,5	4	112	-	-	-	-	85,0	0,84	-	14,7	8,5	-
EVM 5 24F5/5.5	7,5	5,5	132S	-	-	-	-	85,7	0,86	-	-	10,8	6,2
EVM 10 2N5/0.75 (M)	1	0,75	80	25	400	65	0,95	74,5	0,78	5,3	3,3	1,9	-
EVM 10 3N5/1.1 (M)	1,5	1,1	80	36	400	74	0,97	77,6	0,82	6,7	4,3	2,5	-
EVM 10 4N5/1.5 (M)	2	1,5	90S	35	400	79	0,97	78,6	0,82	8,8	5,9	3,4	-
EVM 10 5N5/2.2 (M)	3	2,2	90L	40	400	78	0,97	81,8	0,81	12,9	8,5	4,9	-
EVM 10 6N5/2.2 (M)	3	2,2	90L	40	400	78	0,97	81,8	0,81	12,9	8,5	4,9	-
EVM 10 8N5/3.0	4	3	100	-	-	-	-	82,6	0,85	-	11,3	6,5	-
EVM 10 10N5/4.0	5,5	4	112	-	-	-	-	85,0	0,84	-	14,7	8,5	-
EVM 10 11N5/4.0	5,5	4	112	-	-	-	-	85,0	0,84	-	14,7	8,5	-
EVM 10 12N5/5.5	7,5	5,5	132S	-	-	-	-	85,7	0,86	-	-	10,8	6,2
EVM 10 14N5/5.5	7,5	5,5	132S	-	-	-	-	85,7	0,86	-	-	10,8	6,2
EVM 10 15F5/5.5	7,5	5,5	132S	-	-	-	-	85,7	0,86	-	-	10,8	6,2
EVM 10 16F5/7.5	10	7,5	132S	-	-	-	-	87,0	0,89	-	-	14,1	8,1
EVM 10 18F5/7.5	10	7,5	132S	-	-	-	-	87,0	0,89	-	-	14,1	8,1
EVM 10 20F5/7.5	10	7,5	132S	-	-	-	-	87,0	0,89	-	-	14,1	8,1
EVM 10 22F5/11	15	11	160M	-	-	-	-	88,7	0,84	-	-	21,5	12,4
EVM 18 2F5/2.2 (M)	3	2,2	90L	40	400	78	0,97	81,8	0,81	12,9	8,5	4,9	-
EVM 18 3F5/3.0	4	3	100	-	-	-	-	82,6	0,85	-	11,3	6,5	-
EVM 18 4F5/4.0	5,5	4	112	-	-	-	-	85,0	0,84	-	14,7	8,5	-
EVM 18 5F5/5.5	7,5	5,5	132S	-	-	-	-	85,7	0,86	-	-	10,8	6,2
EVM 18 6F5/5.5	7,5	5,5	132S	-	-	-	-	85,7	0,86	-	-	10,8	6,2
EVM 18 7F5/7.5	10	7,5	132S	-	-	-	-	87,0	0,89	-	-	14,1	8,1
EVM 18 8F5/7.5	10	7,5	132S	-	-	-	-	87,0	0,89	-	-	14,1	8,1
EVM 18 10F5/11	15	11	160M	-	-	-	-	88,7	0,84	-	-	21,5	12,4
EVM 18 12F5/11	15	11	160M	-	-	-	-	88,7	0,84	-	-	21,5	12,4
EVM 18 14F5/15	20	15	160M	-	-	-	-	89,7	0,85	-	-	28,5	16,5
EVM 18 15F5/15	20	15	160M	-	-	-	-	89,7	0,85	-	-	28,5	16,5
EVM 18 16N5/15	20	15	160M	-	-	-	-	89,7	0,85	-	-	28,5	16,5

VERTICAL MULTISTAGE ELECTRIC PUMPS

in cast iron, AISI 304, AISI 316

EVM 32-45 ELECTRIC DATA TABLE

Model	P_2		Mec	Efficiency and power factor Three phase		Absorbed Current [A] Three phase		
	[HP]	[kW]	Motor	η %	cos ø	230V	400V	690V
EVM 32 1-0F5/2.2	3	2,2	90L	81,8	0,81	8,5	4,9	-
EVM 32 2-2F5/3.0	4	3	100	82,6	0,85	11,3	6,5	-
EVM 32 2-0F5/4.0	5,5	4	112	85,0	0,84	14,7	8,5	-
EVM 32 3-3F5/5.5	7,5	5,5	132S	85,7	0,86	-	10,8	6,2
EVM 32 3-0F5/5.5	7,5	5,5	132S	85,7	0,86	-	10,8	6,2
EVM 32 4-3F5/7.5	10	7,5	132S	87,0	0,89	-	14,1	8,1
EVM 32 4-0F5/7.5	10	7,5	132S	87,0	0,89	-	14,1	8,1
EVM 32 5-3F5/11	15	11	160M	88,7	0,84	-	21,5	12,4
EVM 32 5-0F5/11	15	11	160M	88,7	0,84	-	21,5	12,4
EVM 32 6-3F5/11	15	11	160M	88,7	0,84	-	21,5	12,4
EVM 32 6-0F5/11	15	11	160M	88,7	0,84	-	21,5	12,4
EVM 32 7-3F5/15	20	15	160M	89,7	0,85	-	28,5	16,5
EVM 32 7-0F5/15	20	15	160M	89,7	0,85	-	28,5	16,5
EVM 32 8-3F5/15	20	15	160M	89,7	0,85	-	28,5	16,5
EVM 32 8-0F5/15	20	15	160M	89,7	0,85	-	28,5	16,5
EVM 32 9-3F5/18.5	25	18,5	160L	90,4	0,86	-	34,5	19,8
EVM 32 9-0F5/18.5	25	18,5	160L	90,4	0,86	-	34,5	19,8
EVM 32 10-3F5/18.5	25	18,5	160L	90,4	0,86	-	34,5	19,8
EVM 32 10-1F5/18.5	25	18,5	160L	90,4	0,86	-	34,5	19,8
EVM 32 11-3F5/22	30	22	180	90,8	0,86	-	41,0	23,7
EVM 32 11-0F5/22	30	22	180	90,8	0,86	-	41,0	23,7
EVM 32 12-3F5/22	30	22	180	90,8	0,86	-	41,0	23,7
EVM 32 12-1F5/22	30	22	180	90,8	0,86	-	41,0	23,7
EVM 32 13-3F5/30	40	30	200	91,6	0,85	-	56,0	32,3
EVM 32 13-0F5/30	40	30	200	91,6	0,85	-	56,0	32,3
EVM 32 14-3F5/30	40	30	200	91,6	0,85	-	56,0	32,3
EVM 32 14-0F5/30	40	30	200	91,6	0,85	-	56,0	32,3
EVM 45 1-1F5/3.0	4	3	100	82,6	0,85	11,3	6,5	-
EVM 45 1-0F5/4.0	5,5	4	112	85,0	0,84	14,7	8,5	-
EVM 45 2-2F5/5.5	7,5	5,5	132S	85,7	0,86	-	10,8	6,2
EVM 45 2-0F5/7.5	10	7,5	132S	87,0	0,89	-	14,1	8,1
EVM 45 3-2F5/11	15	11	160M	88,7	0,84	-	21,5	12,4
EVM 45 3-0F5/11	15	11	160M	88,7	0,84	-	21,5	12,4
EVM 45 4-2F5/15	20	15	160M	89,7	0,85	-	28,5	16,5
EVM 45 4-0F5/15	20	15	160M	89,7	0,85	-	28,5	16,5
EVM 45 5-2F5/18.5	25	18,5	160L	90,4	0,86	-	34,5	19,8
EVM 45 5-0F5/18.5	25	18,5	160L	90,4	0,86	-	34,5	19,8
EVM 45 6-2F5/22	30	22	180	90,8	0,86	-	41,0	23,7
EVM 45 6-0F5/22	30	22	180	90,8	0,86	-	41,0	23,7
EVM 45 7-2F5/30	40	30	200	91,6	0,85	-	56,0	32,3
EVM 45 7-0F5/30	40	30	200	91,6	0,85	-	56,0	32,3
EVM 45 8-2F5/30	40	30	200	91,6	0,85	-	56,0	32,3
EVM 45 8-0F5/30	40	30	200	91,6	0,85	-	56,0	32,3
EVM 45 9-2F5/30	40	30	200	91,6	0,85	-	56,0	32,3
EVM 45 9-0F5/37	50	37	200	92,2	0,86	-	67,5	39,0
EVM 45 10-2F5/37	50	37	200	92,2	0,86	-	67,5	39,0
EVM 45 10-0F5/37	50	37	200	92,2	0,86	-	67,5	39,0

VERTICAL MULTISTAGE ELECTRIC PUMPS

in cast iron, AISI 304, AISI 316

EVM 64 ELECTRIC DATA TABLE

Model	P_2		Mec	Efficiency and power factor Three phase		Absorbed Current [A] Three phase		
	[HP]	[kW]	Motor	η %	cos ø	230V	400V	690V
EVM 64 1-1F5/4.0	5,5	4	112	85,0	0,84	14,7	8,5	-
EVM 64 1-0F5/5.5	7,5	5,5	132S	85,7	0,86	-	10,8	6,2
EVM 64 2-2F5/7.5	10	7,5	132S	87,0	0,89	-	14,1	8,1
EVM 64 2-1F5/11	15	11	160M	88,7	0,84	-	21,5	12,4
EVM 64 2-0F5/11	15	11	160M	88,7	0,84	-	21,5	12,4
EVM 64 3-3F5/15	20	15	160M	89,7	0,85	-	28,5	16,5
EVM 64 3-2F5/15	20	15	160M	89,7	0,85	-	28,5	16,5
EVM 64 3-1F5/15	20	15	160M	89,7	0,85	-	28,5	16,5
EVM 64 3-0F5/18.5	25	18,5	160L	90,4	0,86	-	34,5	19,8
EVM 64 4-3F5/18.5	25	18,5	160L	90,4	0,86	-	34,5	19,8
EVM 64 4-2F5/18.5	25	18,5	160L	90,4	0,86	-	34,5	19,8
EVM 64 4-1F5/22	30	22	180	90,8	0,86	-	41,0	23,7
EVM 64 4-0F5/22	30	22	180	90,8	0,86	-	41,0	23,7
EVM 64 5-3F5/30	40	30	200	91,6	0,85	-	56,0	32,3
EVM 64 5-2F5/30	40	30	200	91,6	0,85	-	56,0	32,3
EVM 64 5-1F5/30	40	30	200	91,6	0,85	-	56,0	32,3
EVM 64 5-0F5/30	40	30	200	91,6	0,85	-	56,0	32,3
EVM 64 6-3F5/30	40	30	200	91,6	0,85	-	56,0	32,3
EVM 64 6-2F5/30	40	30	200	91,6	0,85	-	56,0	32,3
EVM 64 6-1F5/37	50	37	200	92,2	0,86	-	67,5	39,0
EVM 64 6-0F5/37	50	37	200	92,2	0,86	-	67,5	39,0
EVM 64 7-3F5/37	50	37	200	92,2	0,86	-	67,5	39,0
EVM 64 7-2F5/37	50	37	200	92,2	0,86	-	67,5	39,0
EVM 64 7-1F5/37	50	37	200	92,2	0,86	-	67,5	39,0

3 - 3L SERIES

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

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

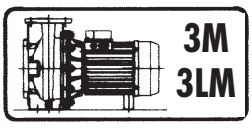
APPLICATIONS
- Water supply to civil, agricultural and industrial plants
- Pressure boosting
- Fire-fighting, heating systems and air-conditioning
- Moving industrial liquids
- Irrigation
- Refrigeration towers
- Swimming pools
- Emptying
- Washing plants

TECHNICAL DETAILS
- Can also work in vertical position

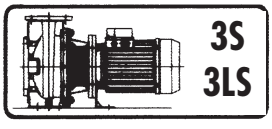
TECHNICAL DATA
- Maximum working pressure: 10 bar
- Maximum temperature of the liquid:
  -10°C ÷ +90°C
  -10°C ÷ +110°C (L-H-HS versions)
  -20°C ÷ +120°C (E version)
- Self-ventilated 2 and 4 pole asynchronous motor
- Class of insulation F (B for high tempertaures)
- IP 55 protection rating
- 230V ±10%, 50Hz single phase voltage, three phase voltage 220÷240/380÷415V ± 5% (up to 4 kW included), 50Hz, three phase voltage 380÷415/660÷720V ±5% (5.5 kW and over), 50Hz
- Protection is user's responsibility

MATERIALS
- Pump body and seal housing disc:
  - AISI 304 for 3 Series 32-125/160/200, 40-125/160/200, 50-125/160, 65-125/160/200
  - AISI 316L for 3L Series 32-125/160/200, 40-125/160/200, 50-125/160, 65-125/160/200
  - microcast AISI 316 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
  - AISI 316L for 3L Series 32-125/160/200, 40-125/160/200, 50-125/160
  - microcast AISI 316 for 3 Series 65-125/160/200; 3L Series 65-125/160/200, 65-250, 80-160/200/250
- Mechanical sealing in:
  - Carbon/Ceramic/NBR for 3 Series 32-125/160/200, 40-125/160/200, 50-125/160, 65-125/160/200
  - SiC/SiC/FPM for 3L Series 32-125/160/200, 40-125/160/200, 50-125/160, 65-125/160/200/250, 80-160/200/250
  - Special mechanical seals available on request

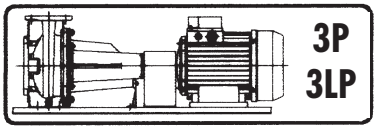
Available in 4 versions with 2 and 4 pole motors



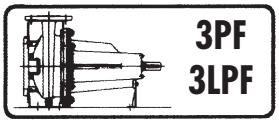
Monobloc with extended motor shaft

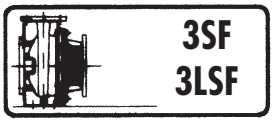


Monobloc with standard motor and rigid joint



On base, with standard motor and flexible coupling





Pump with bare shaft

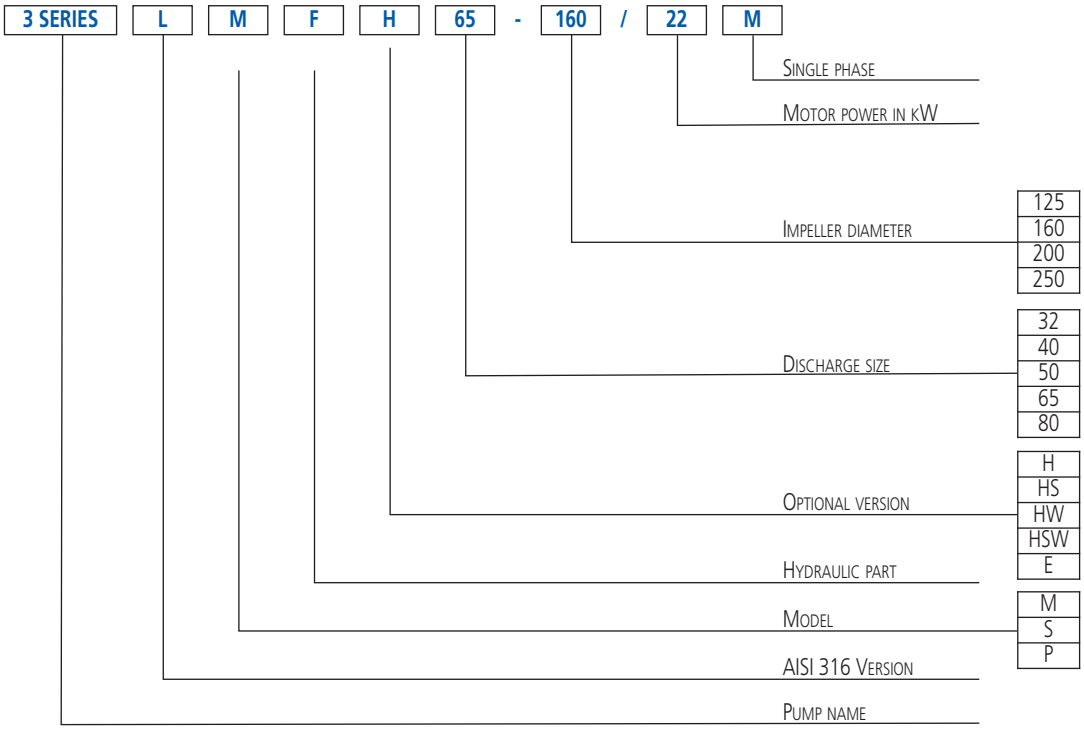
SPECIAL VERSIONS
- Also available with efficiency 1 motor (3S Series)

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

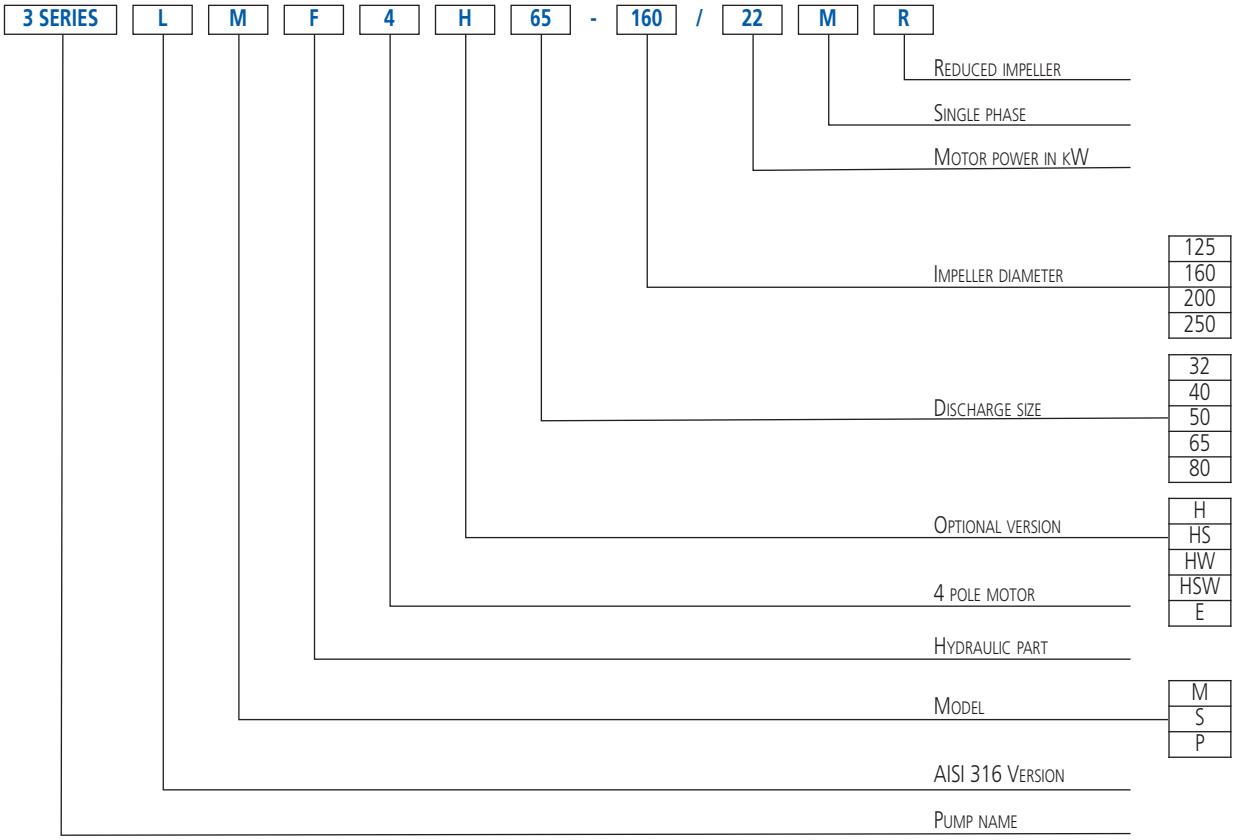
3 - 3L SERIES

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

IDENTIFICATION CODE - 2 Poles



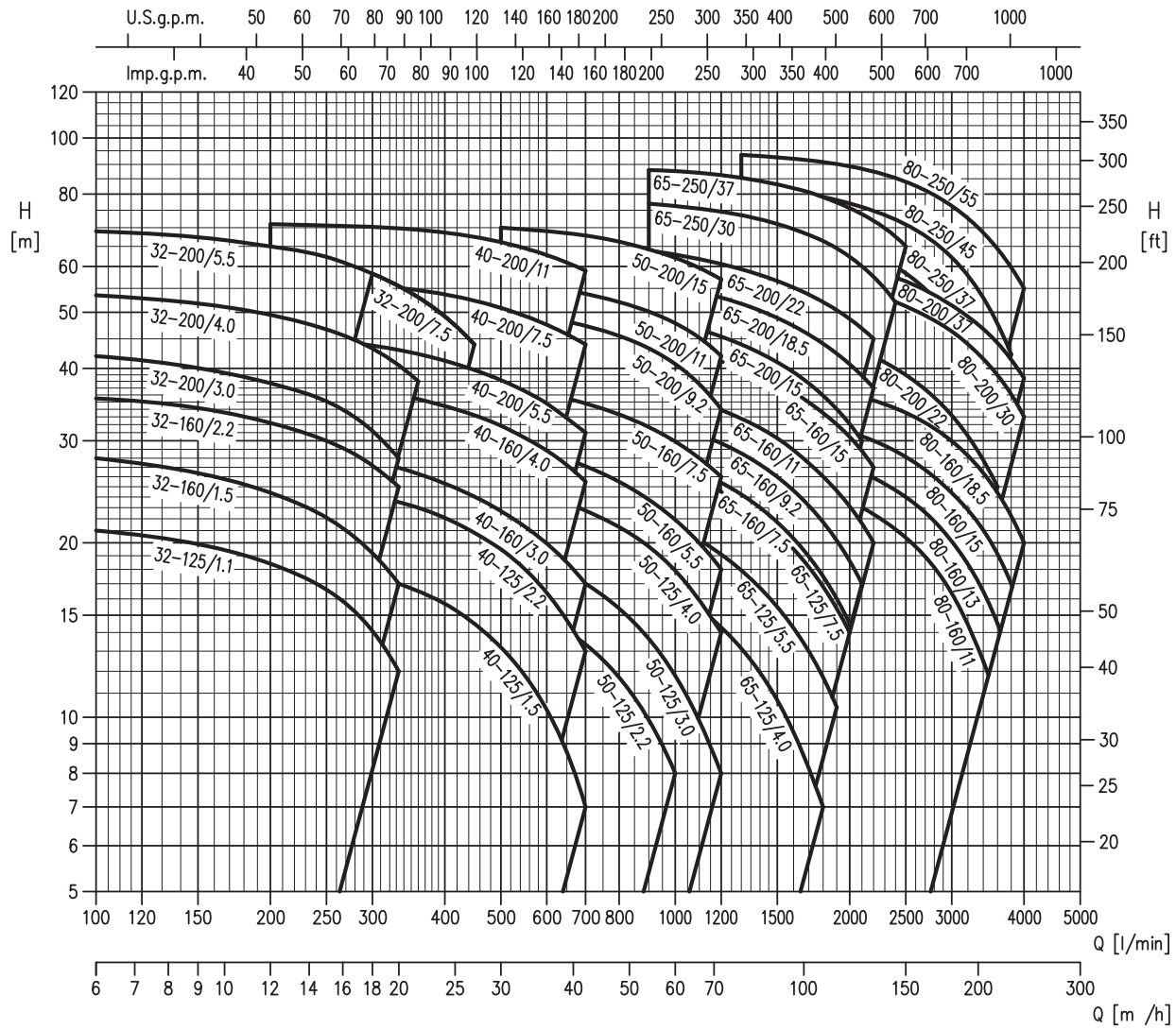
IDENTIFICATION CODE - 4 Poles



3 - 3L SERIES

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

3 SERIES PERFORMANCE RANGE at 2900 min^{-1} (according to ISO 9906 Attachment A)



	Versions	3M	3S	3P	3LM	3LS	3LP
Pump	32-125	√	√	√	√	√	√
	32-160	√	√	√	√	√	√
	32-200	√	√	√	√	√	√
	40-125	√	√	√	√	√	√
	40-160	√	√	√	√	√	√
	40-200	√	√	√	√	√	√
	50-125	√	√	√	√	√	√
	50-160	√	√	√	√	√	√
	50-200	√	√	√	√	√	√
	65-125	√	√	√	√	√	√
	65-160	√	√	√	√	√	√
	65-200	√	√	√	√	√	√
	65-250	-	-	-	-	•	•
	80-160	-	-	-	•	•	•
	80-200	-	-	-	-	•	•
	80-250	-	-	-	-	•	•

√ = Models also available in the H and HS version for 32, 40, 50, 65-125/160/200
• = Models also available in the H and E version for 65-250, 80

3 - 3L SERIES

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

32-40-50 PERFORMANCE TABLE

Model	P_2		Q=Flow rate													
	[HP]	[kW]	l/min	100	150	200	300	333	360	400	450	500	600	700	800	1000	1200
			m^3/h	6	9	12	18	20	22	24	27	30	36	42	48	60	72
			H=Head [m]														
32-125/1.1(M)	1,5	1,1		21,0	19,9	18,4	14,1	12,0	-	-	-	-	-	-	-	-	-
32-160/1.5(M)	2	1,5		28,0	26,5	24,5	19,2	17,0	-	-	-	-	-	-	-	-	-
32-160/2.2(M)	3	2,2		35,5	34,0	32,0	27,0	25,0	-	-	-	-	-	-	-	-	-
32-200/3.0	4	3		42,0	40,0	37,5	31,0	28,0	-	-	-	-	-	-	-	-	-
32-200/4.0	5,5	4		53,5	52,0	49,5	43,5	40,5	38,0	-	-	-	-	-	-	-	-
32-200/5.5	7,5	5,5		69,0	67,5	65,0	58,5	-	-	-	-	-	-	-	-	-	-
32-200/7.5	10	7,5		69,0	67,5	65,0	58,5	55,5	53,0	49,0	44,0	-	-	-	-	-	-
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	-	-	-
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	-	-	-
40-160/3.0	4	3		-	-	29,5	27,5	27,0	26,5	25,5	24,0	22,5	20,0	17,0	-	-	-
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	-	-	-
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	-	-	-
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	-	-	-
40-200/11	15	11		-	-	71,0	70,0	70,0	69,5	68,5	67,5	66,0	63,0	59,0	-	-	-
50-125/2.2(M)	3	2,2		-	-	-	-	-	-	17,5	17,0	16,3	14,9	13,4	11,7	8,0	-
50-125/3.0	4	3		-	-	-	-	-	-	20,5	20,0	19,6	18,4	17,0	15,4	11,8	8,0
50-125/4.0	5,5	4		-	-	-	-	-	-	26,0	25,5	25,0	24,0	22,5	21,5	17,9	14,0
50-160/5.5	7,5	5,5		-	-	-	-	-	-	31,0	30,5	30,0	28,5	27,0	25,5	22,0	18,0
50-160/7.5	10	7,5		-	-	-	-	-	-	38,5	38,0	37,5	36,0	35,0	33,5	30,0	26,0
50-200/9.2	12,5	9,2		-	-	-	-	-	-	-	-	50,0	49,0	47,5	45,5	40,5	34,0
50-200/11	15	11		-	-	-	-	-	-	-	-	56,0	55,0	54,0	52,0	48,0	42,0
50-200/15	20	15		-	-	-	-	-	-	-	-	70,0	69,0	68,0	66,0	62,0	57,0

(M) Single phase version for 3M Series only

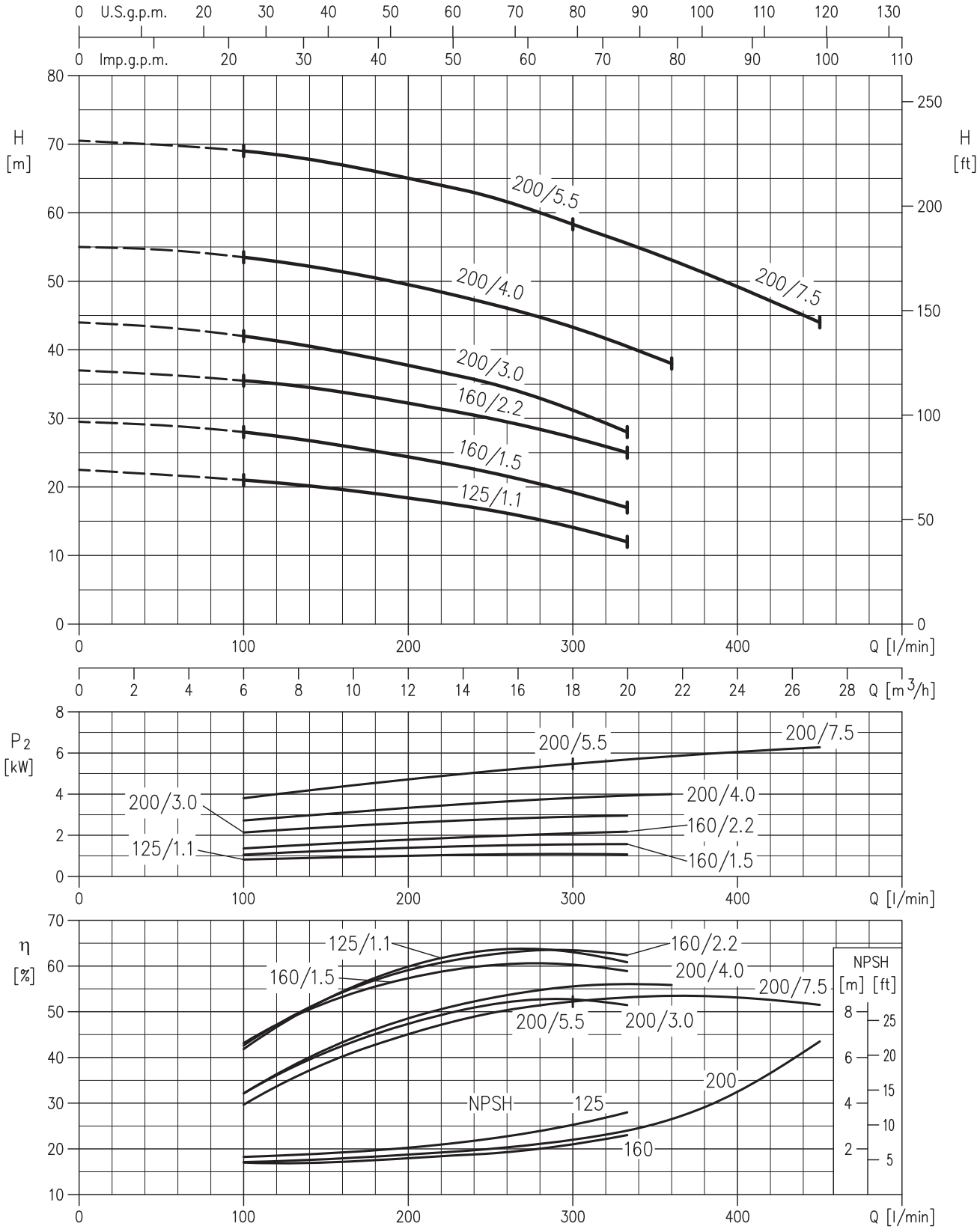
65-80 PERFORMANCE TABLE

2 Poles

Model	P_2		Q=Flow rate																
	[HP]	[kW]	l/min	600	700	900	1300	1500	1700	1900	2100	2200	2300	2400	2500	3000	3400	3600	3800	4000
			m^3/h	36	42	54	78	90	102	114	126	132	138	144	150	180	204	216	228	240
			H=Head [m]																	
65-125/4.0	5,5	4		19,8	19,0	17,3	13,3	11,0	8,6	6,3	-	-	-	-	-	-	-	-	-	-
65-125/5.5	7,5	5,5		-	24,0	22,2	18,0	15,7	13,3	10,8	8,0	-	-	-	-	-	-	-	-	-
65-125/7.5	10	7,5		-	29,5	27,8	23,5	21,1	18,7	16,1	13,4	12,0	-	-	-	-	-	-	-	-
65-160/7.5	10	7,5		-	30,0	28,6	24,8	22,5	19,9	17,1	14,2	-	-	-	-	-	-	-	-	-
65-160/9.2	12,5	9,2		-	34,5	32,8	28,8	26,5	23,9	21,1	18,3	16,8	-	-	-	-	-	-	-	-
65-160/11	15	11		-	38,5	37,1	33,1	30,9	28,4	25,8	23,0	21,5	20,0	-	-	-	-	-	-	-
65-160/15	20	15		-	45,5	44,0	40,0	37,8	35,3	32,6	29,6	28,0	26,5	-	-	-	-	-	-	-
65-200/15	20	15		-	51,0	49,0	44,0	41,5	38,4	35,3	31,8	30,0	-	-	-	-	-	-	-	-
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	-	-	-	-	-	-	-
65-200/22	30	22		-	65,5	64,0	59,5	57,0	54,0	51,0	48,0	46,5	45,0	-	-	-	-	-	-	-
65-250/30	40	30		-	-	77,0	73,5	71,0	68,0	64,5	60,0	57,5	55,0	52,0	-	-	-	-	-	-
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	-	-	-	-	-
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	-	-	-
80-160/13	17,5	13		-	-	-	30,5	29,7	28,8	27,7	26,5	25,9	25,3	24,6	24,0	20,1	16,5	14,5	-	-
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	-	-
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	-
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
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	-	-
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
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
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	-	-	-
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	-
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

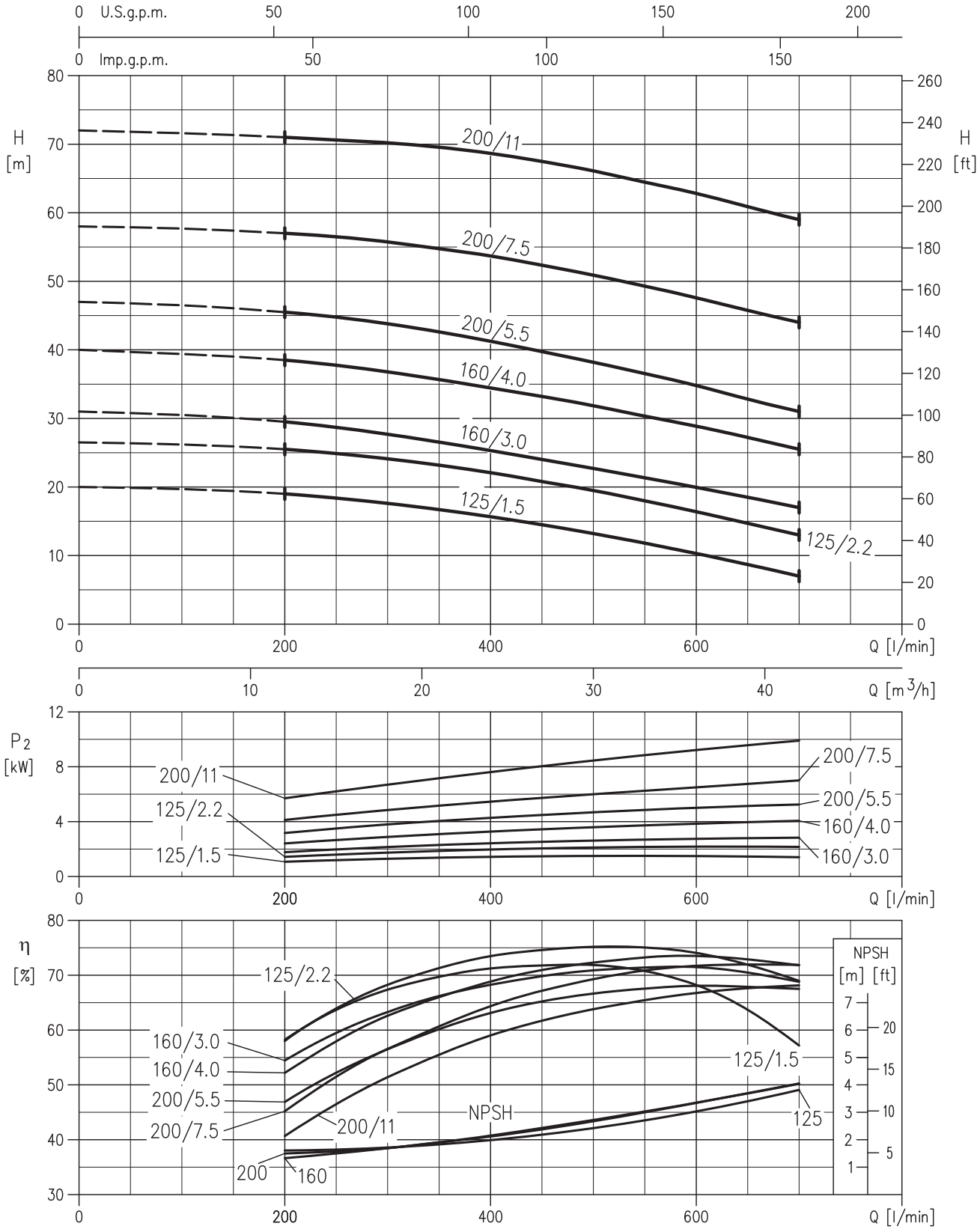
CENTRIFUGAL ELECTRIC PUMPS STANDARDISED IN COMPLIANCE WITH EN 733 (FORMER DIN 24255)

3(L)M-3(L)S-3(L)P 32 PERFORMANCE CURVES at 2900 min^{-1} (according to ISO 9906 Attachment A) 2 Poles



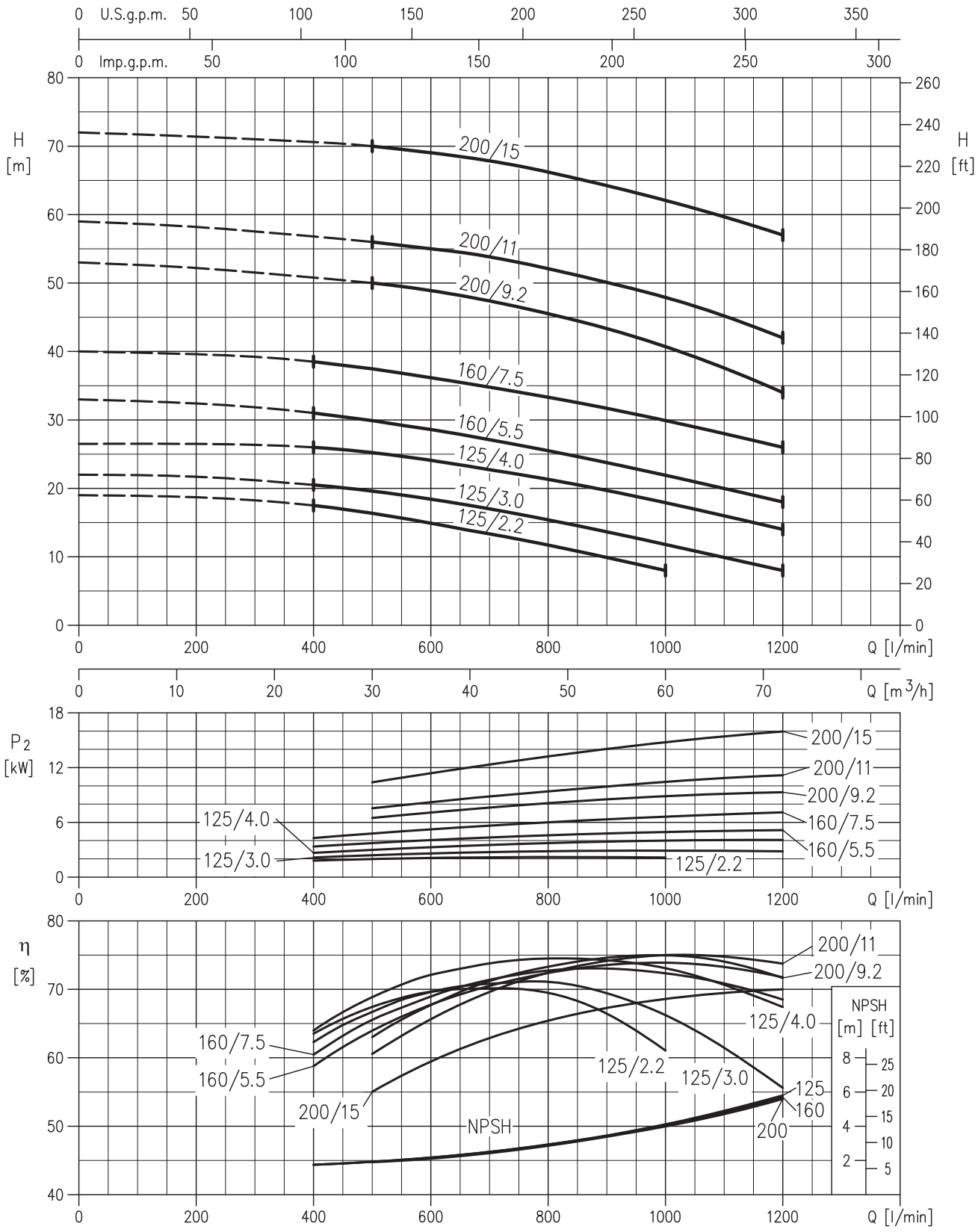
3(L)M-3(L)S-3(L)P 40 PERFORMANCE CURVES at 2900 min^{-1} (according to ISO 9906 Attachment A)

2 Poles



3(L)M-3(L)S-3(L)P 50 PERFORMANCE CURVES at 2900 min^{-1} (according to ISO 9906 Attachment A)

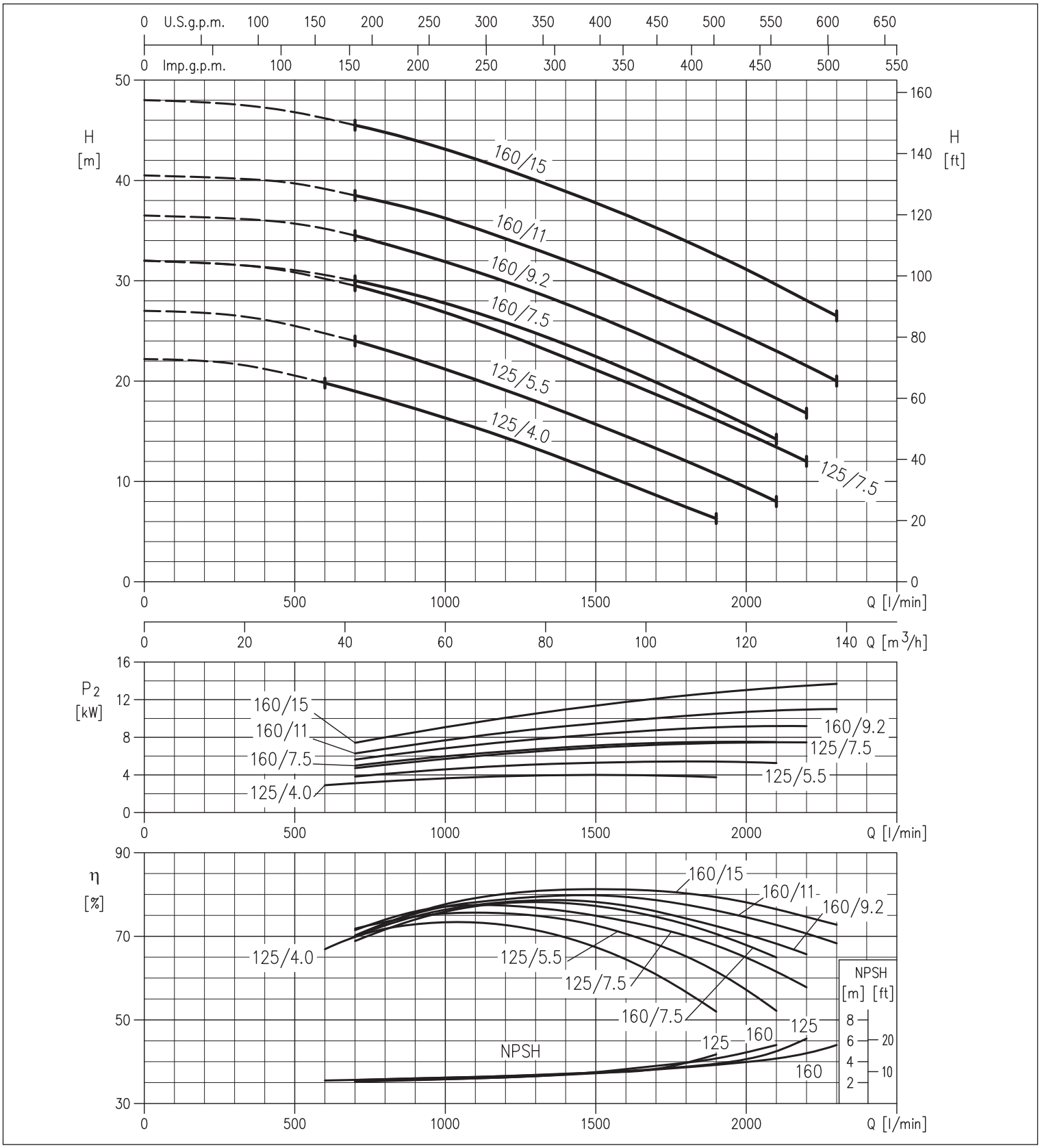
2 Poles



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

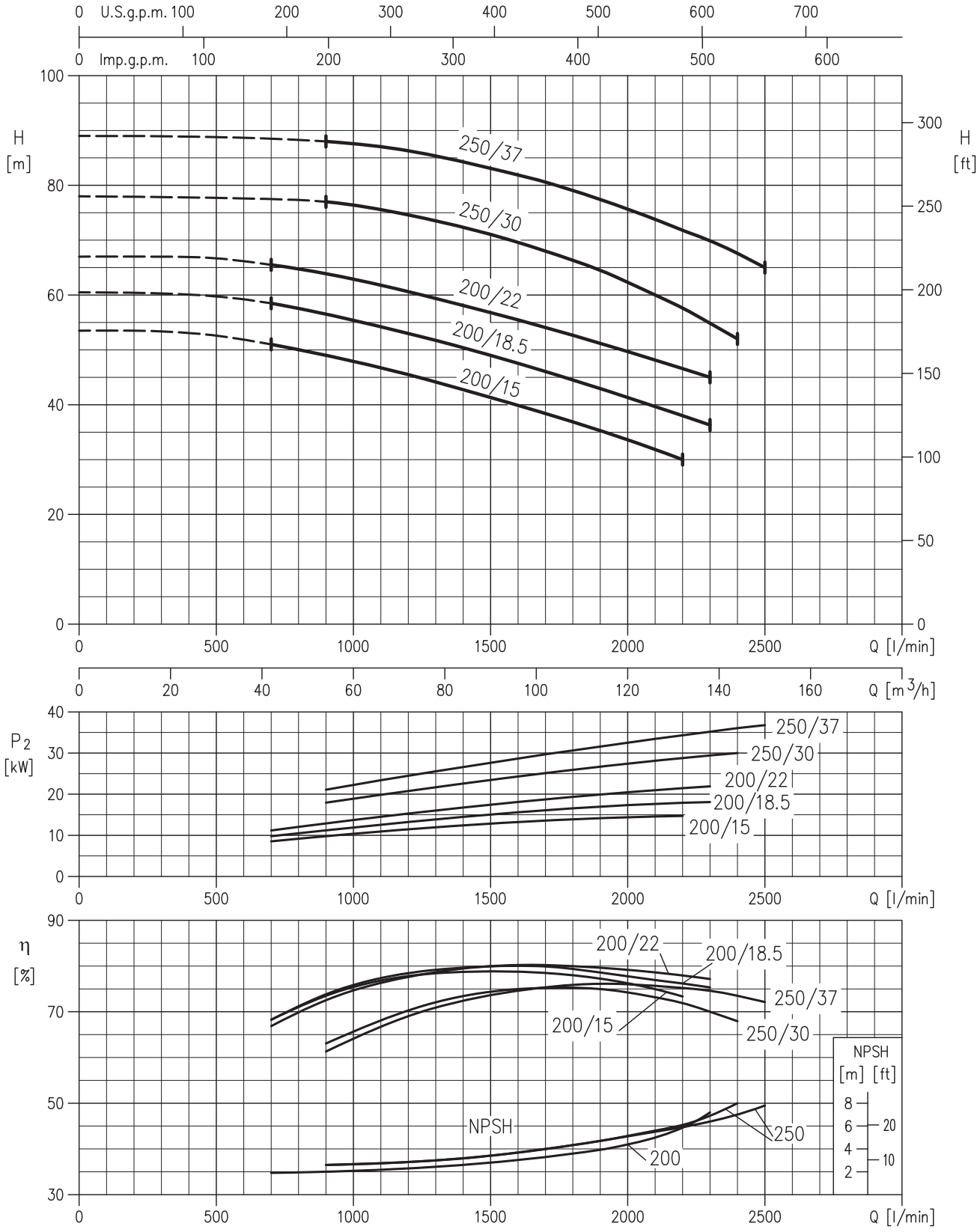
3(L)M-3(L)S-3(L)P 65 PERFORMANCE CURVES at 2900 min^{-1} (according to ISO 9906 Attachment A)

2 Poles



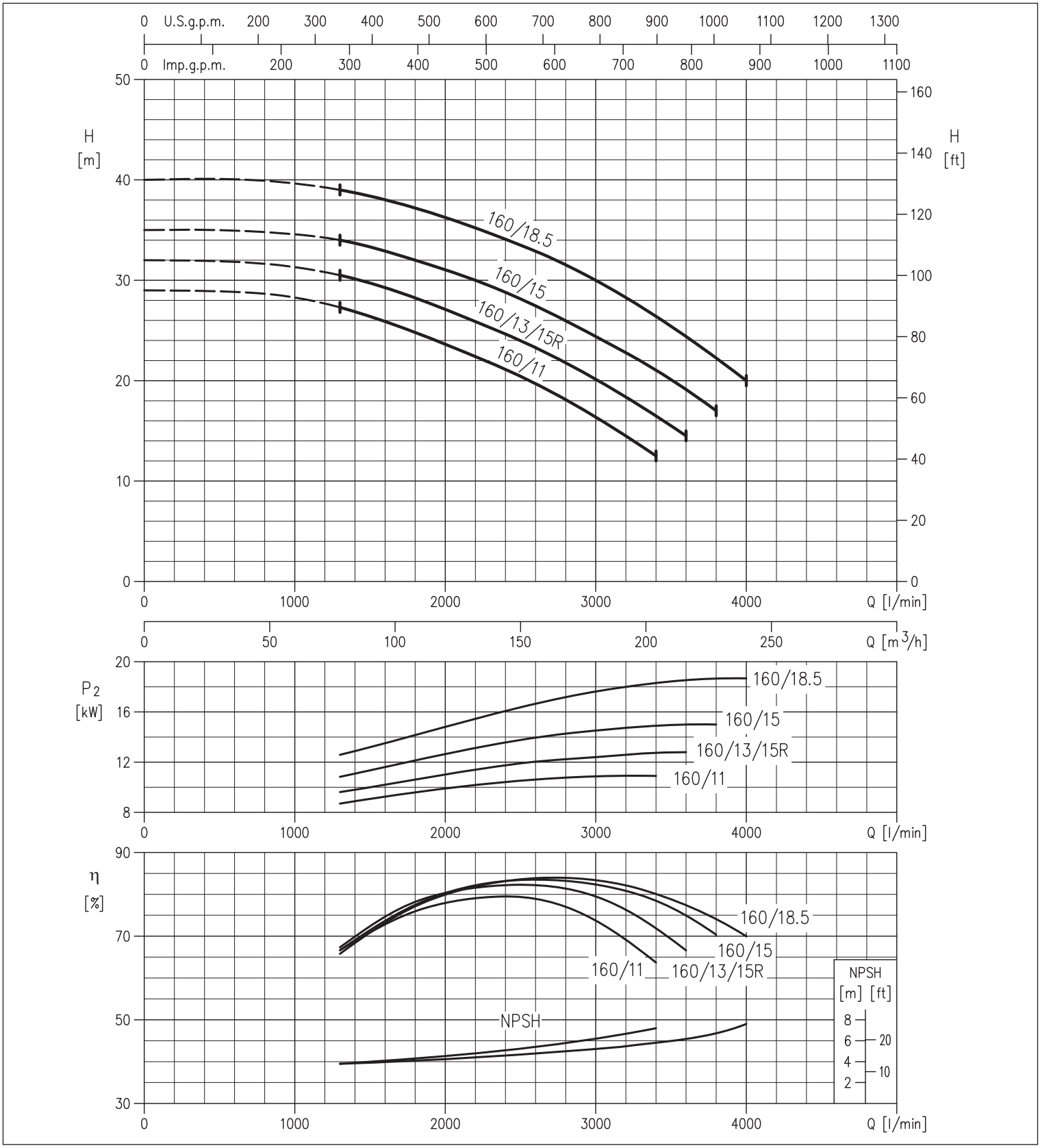
CENTRIFUGAL ELECTRIC PUMPS STANDARDISED IN COMPLIANCE WITH EN 733 (FORMER DIN 24255)

3L 65 PERFORMANCE CURVES at 2900 min^{-1} (according to ISO 9906 Attachment A) **2 Poles**



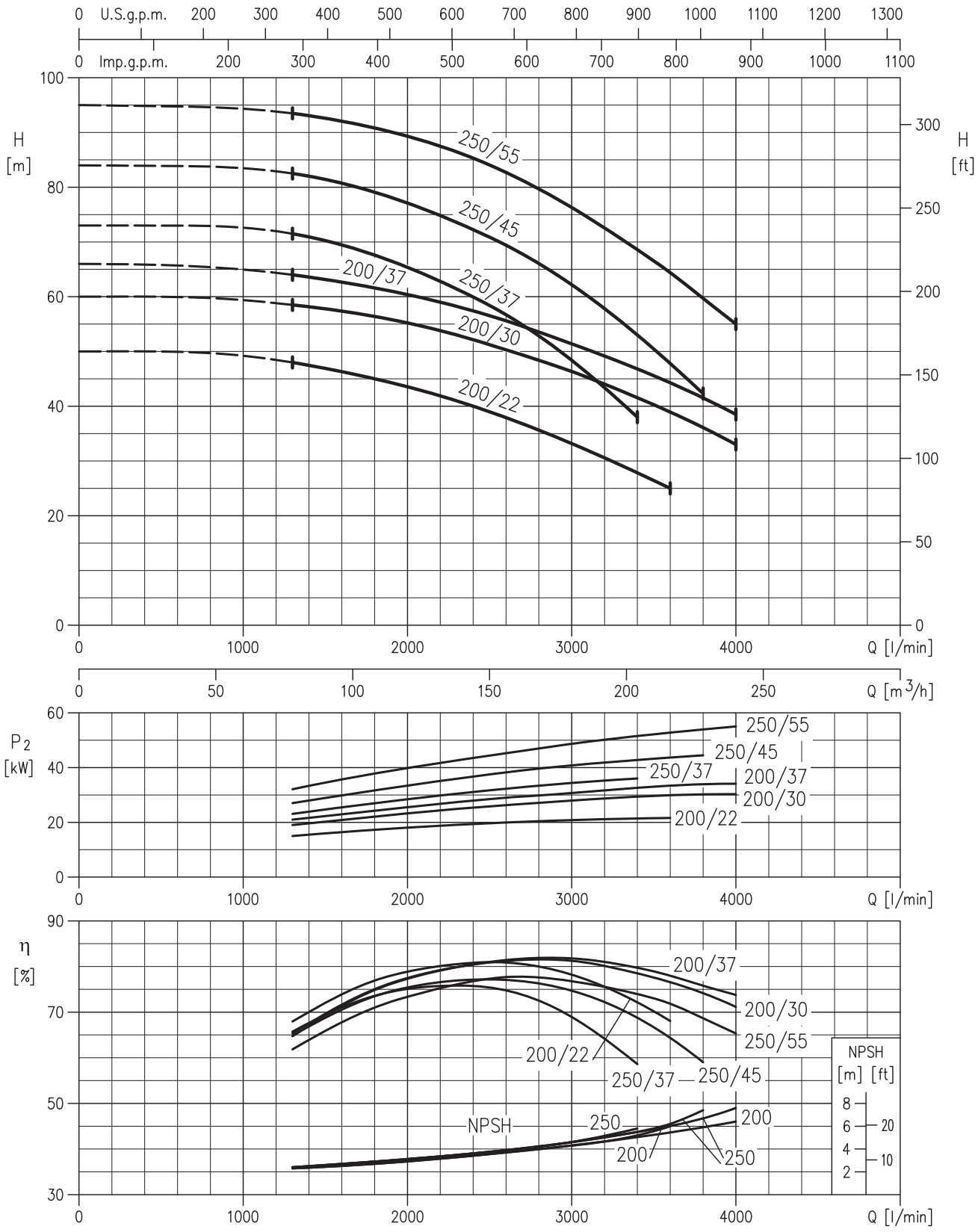
CENTRIFUGAL ELECTRIC PUMPS STANDARDISED IN COMPLIANCE WITH EN 733 (FORMER DIN 24255)

3L 80 PERFORMANCE CURVES at 2900 min^{-1} (according to ISO 9906 Attachment A) **2 Poles**



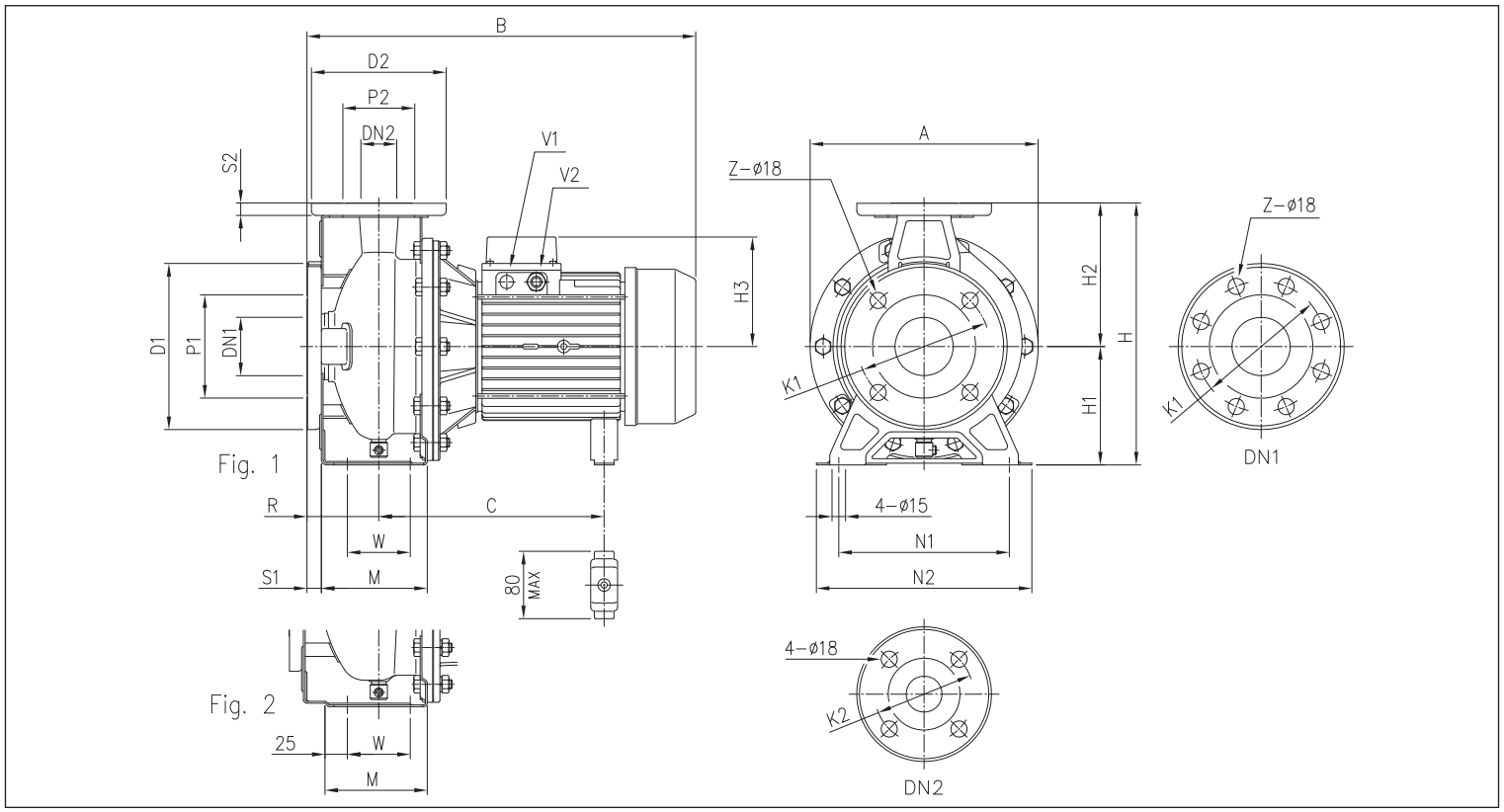
CENTRIFUGAL ELECTRIC PUMPS STANDARDISED IN COMPLIANCE WITH EN 733 (FORMER DIN 24255)

3L 80 PERFORMANCE CURVES at 2900 min^{-1} (according to ISO 9906 Attachment A) **2 Poles**



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

3(L)M 32, 40, 50, 65 - up to 11 kW **2 Poles**



DIMENSIONS TABLE

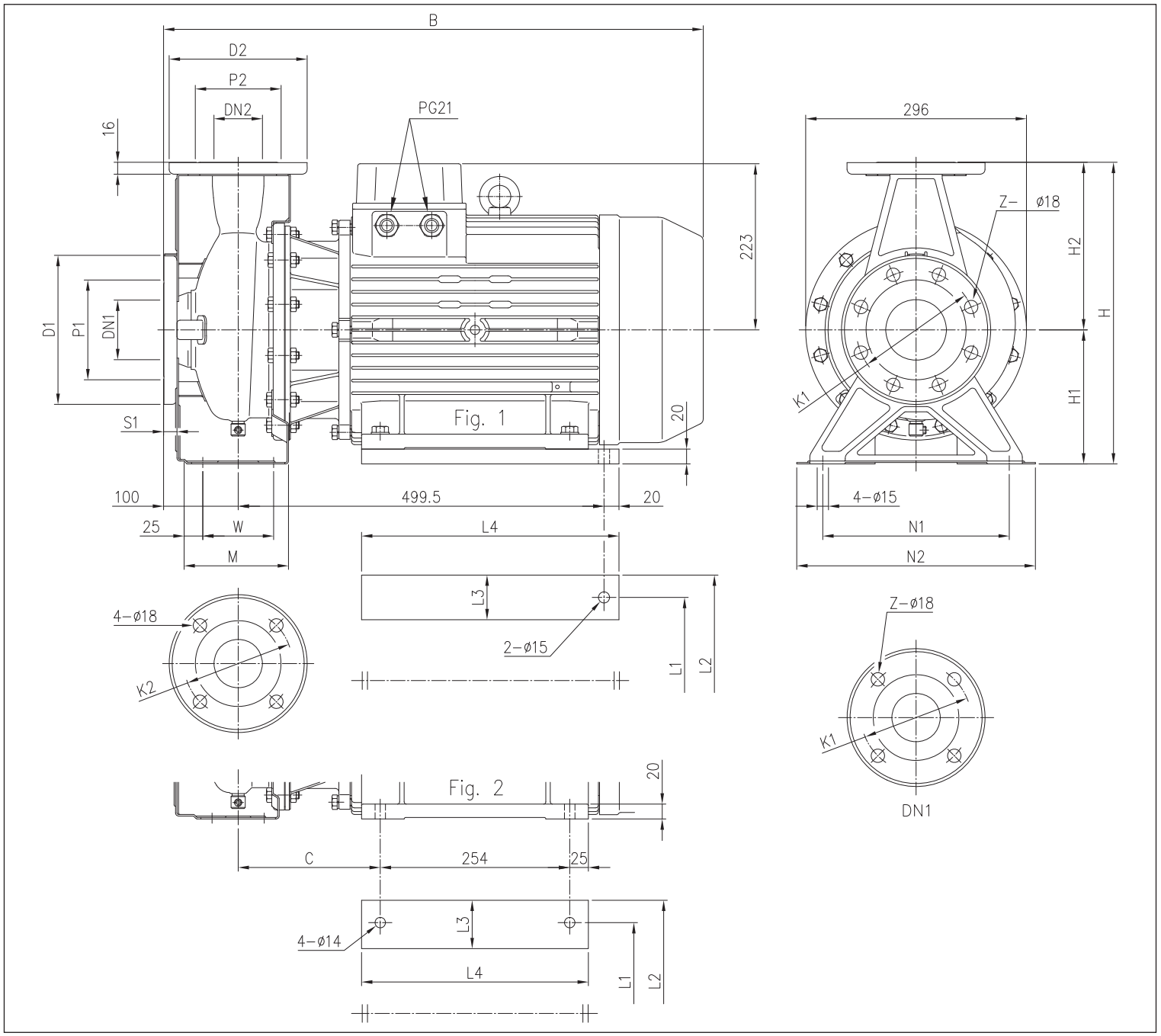
Model	Dimensions [mm]																													Weight [kg]
	Ø DN1	Ø P1	Ø K1	Ø D1	S1	Z [1]	Z [2]	Ø DN2	Ø P2	Ø K2	Ø D2	S2	Fig.	H	H3 [3]	H3 [4]	H1	H2	R	W	M	N1	N2	A	B	C	V1 [3]	V2 [3]	V2 [4]	
32-125/1.1 (M)	50	95	125	165	16	4	-	32	75	100	140	14	1	252	124	141	112	140	80	70	114	140	190	213	408	219÷230	-	PG 13,5	M20x1,5	19,6
32-160/1.5 (M)	50	95	125	165	16	4	-	32	75	100	140	14	1	292	124	141	132	160	80	70	118	190	240	254	408	219÷230	-	PG 13,5	M20x1,5	22,5
32-160/2.2 (M)	50	95	125	165	16	4	-	32	75	100	140	14	1	292	124	141	132	160	80	70	118	190	240	254	408	219÷230	-	PG 13,5	M20x1,5	24,6
32-200/3.0	50	95	125	165	16	4	-	32	75	100	140	14	1	340	124	-	160	180	80	70	119	190	240	296	433	244÷255	-	PG 13,5	-	32,8
32-200/4.0	50	95	125	165	16	4	-	32	75	100	140	14	1	340	141	-	160	180	80	70	119	190	240	296	454	253	-	PG 16	-	39,5
32-200/5.5	50	95	125	165	16	4	-	32	75	100	140	14	1	340	150	-	160	180	80	70	119	190	240	296	475	275	PG 13,5	PG 16	-	48,5
32-200/7.5	50	95	125	165	16	4	-	32	75	100	140	14	1	340	150	-	160	180	80	70	119	190	240	296	517	275	PG 13,5	PG 16	-	57,0
40-125/1.5 (M)	65	115	145	185	16	4	-	40	80	110	150	14	1	252	124	141	112	140	80	70	114	160	210	213	408	219÷230	-	PG 13,5	M20x1,5	20,1
40-125/2.2 (M)	65	115	145	185	16	4	-	40	80	110	150	14	1	252	124	141	112	140	80	70	114	160	210	213	408	219÷230	-	PG 13,5	M20x1,5	22,7
40-160/3.0	65	115	145	185	16	4	-	40	80	110	150	14	1	292	124	-	132	160	80	70	118	190	240	254	433	244÷255	-	PG 13,5	-	28,0
40-160/4.0	65	115	145	185	16	4	-	40	80	110	150	14	1	292	141	-	132	160	80	70	118	190	240	254	454	253	-	PG 16	-	35,1
40-200/5.5	65	115	145	185	16	4	-	40	80	110	150	14	2	340	150	-	160	180	100	70	115	212	265	296	495	275	PG 13,5	PG 16	-	48,8
40-200/7.5	65	115	145	185	16	4	-	40	80	110	150	14	2	340	150	-	160	180	100	70	115	212	265	296	537	275	PG 13,5	PG 16	-	56,2
40-200/11	65	115	145	185	16	4	-	40	80	110	150	14	2	340	178	-	160	180	100	70	115	212	265	296	594	359	PG 13,5	PG 21	-	67,5
50-125/2.2 (M)	65	115	145	185	16	4	-	50	95	125	165	16	2	292	124	141	132	160	100	70	114	190	240	254	428	219÷230	-	PG 13,5	M20x1,5	28,1
50-125/3.0	65	115	145	185	16	4	-	50	95	125	165	16	2	292	124	-	132	160	100	70	114	190	240	254	453	244÷255	-	PG 13,5	-	28,6
50-125/4.0	65	115	145	185	16	4	-	50	95	125	165	16	2	292	141	-	132	160	100	70	114	190	240	254	474	253	-	PG 16	-	35,2
50-160/5.5	65	115	145	185	16	4	-	50	95	125	165	16	2	340	150	-	160	180	100	70	115	212	265	296	495	275	PG 13,5	PG 16	-	49,1
50-160/7.5	65	115	145	185	16	4	-	50	95	125	165	16	2	340	150	-	160	180	100	70	115	212	265	296	537	275	PG 13,5	PG 16	-	55,5
50-200/9.2	65	115	145	185	16	4	-	50	95	125	165	16	2	360	178	-	160	200	100	70	115	212	265	296	594	359	PG 13,5	PG 21	-	61,7
50-200/11	65	115	145	185	16	4	-	50	95	125	165	16	2	360	178	-	160	200	100	70	115	212	265	296	594	359	PG 13,5	PG 21	-	67,5
65-125/4	80	134	160	200	18	8	4	65	115	145	185	16	2	340	141	-	160	180	100	95	140	212	280	254	474	253	-	PG 16	-	40,0
65-125/5,5	80	134	160	200	18	8	4	65	115	145	185	16	2	340	150	-	160	180	100	95	140	212	280	254	495	275	PG 13,5	PG 16	-	52,0
65-125/7,5	80	134	160	200	18	8	4	65	115	145	185	16	2	340	150	-	160	180	100	95	140	212	280	254	537	275	PG 13,5	PG 16	-	58,5
65-160/7,5	80	134	160	200	18	8	4	65	115	145	185	16	2	360	150	-	160	200	100	95	140	212	280	296	537	275	PG 13,5	PG 16	-	62,0
65-160/9,2	80	134	160	200	18	8	4	65	115	145	185	16	2	360	178	-	160	200	100	95	140	212	280	296	594	359	PG 13,5	PG 21	-	67,0
65-160/11	80	134	160	200	18	8	4	65	115	145	185	16	2	360	178	-	160	200	100	95	140	212	280	296	594	359	PG 13,5	PG 21	-	75,6

[1] Standard [2] On request
[3] For three phase only [4] For single phase only

3 - 3L SERIES

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

3(L)M 50, 65 - 15 ÷ 22 kW **2 Poles**



DIMENSIONS TABLE

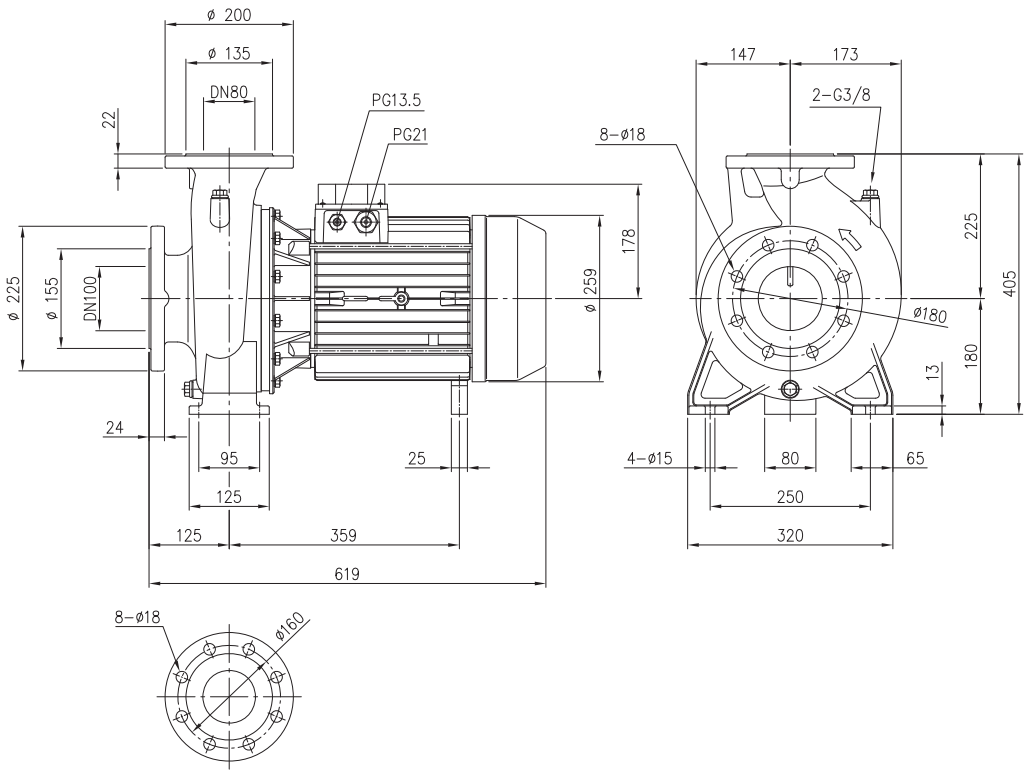
Model	Dimensions [mm]																									Weight [kg]
	Ø DN1	Ø P1	Ø K1	Ø D1	S1	Z [1]	Z [2]	Ø DN2	Ø P2	Ø K2	Ø D2	Fig.	H	H1	H2	W	M	N1	N2	B	C	L1	L2	L3	L4	
50-200/15	65	115	145	185	16	4	-	50	95	125	165	2	360	160	200	70	115	212	265	723	190,5	254	318	65	304	96,0
65-160/15	80	134	160	200	18	8	4	65	115	145	185	2	360	160	200	95	140	212	280	732	199,5	254	318	65	304	93,0
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	114,0
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	127,0
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	136,0

[1] Standard
[2] On request

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

3LM 80-160 - 11 ÷ 13 kW

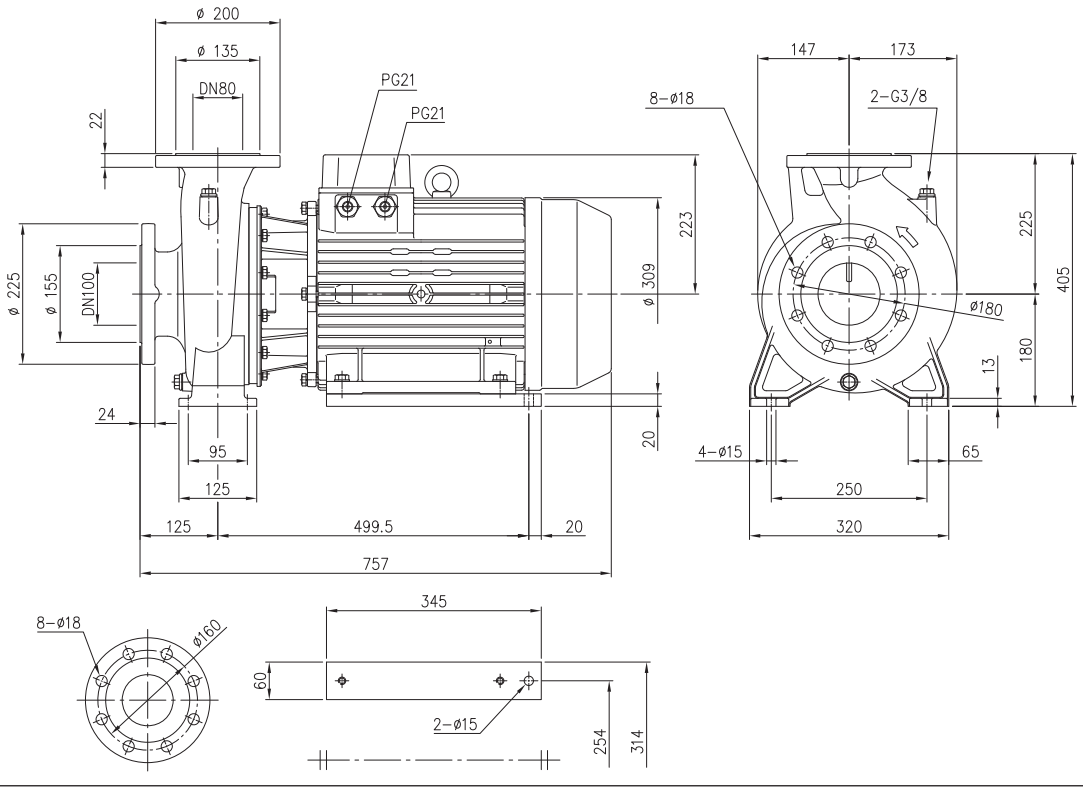
2 Poles



Weight
80-160/11: 94 kg
80-160/13: 97 kg

3LM 80-160 - 15 ÷ 18,5 kW

2 Poles

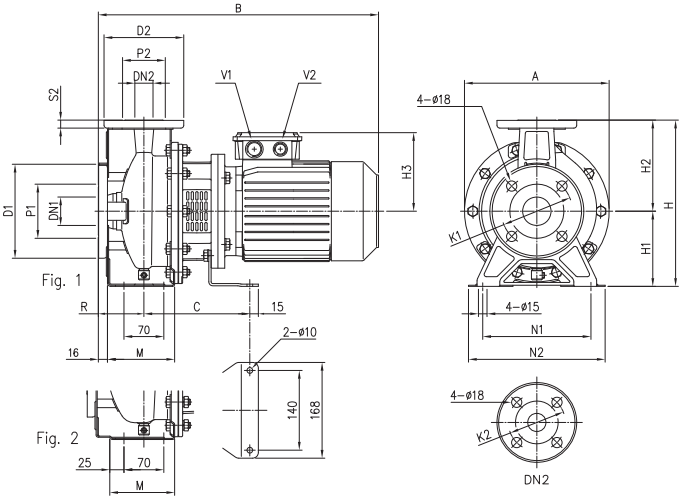


Weight
80-160/15: 130 kg
80-160/18.5: 143 kg

3 - 3L SERIES

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

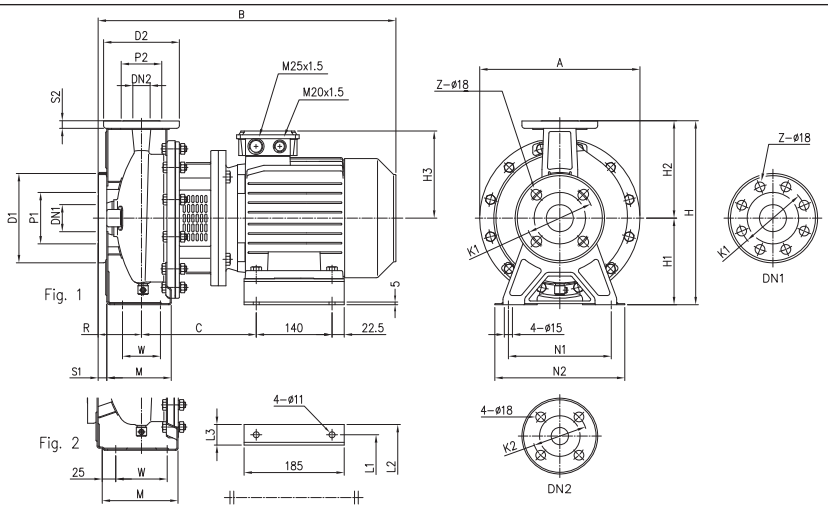
3(L)S 32, 40, 50 - up to 2.2 kW — 2 Poles



DIMENSIONS TABLE

Model	Dimensions [mm]																								Weight [kg]
	Ø DN1	Ø P1	Ø K1	Ø D1	Ø DN2	Ø P2	Ø K2	Ø D2	S2	Fig.	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	129	80	114	140	190	213	430	174	M25x1,5	M20x1,5	23,1
32-160/1.5	50	95	125	165	32	75	100	140	14	1	292	132	160	138	80	118	190	240	254	477	186	M25x1,5	M20x1,5	28,5
32-160/2.2	50	95	125	165	32	75	100	140	14	1	292	132	160	138	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	138	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	138	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	138	100	114	190	240	254	497	186	M25x1,5	M20x1,5	32,9

3(L)S 32, 65 - 3 ÷ 4 kW — 2 Poles



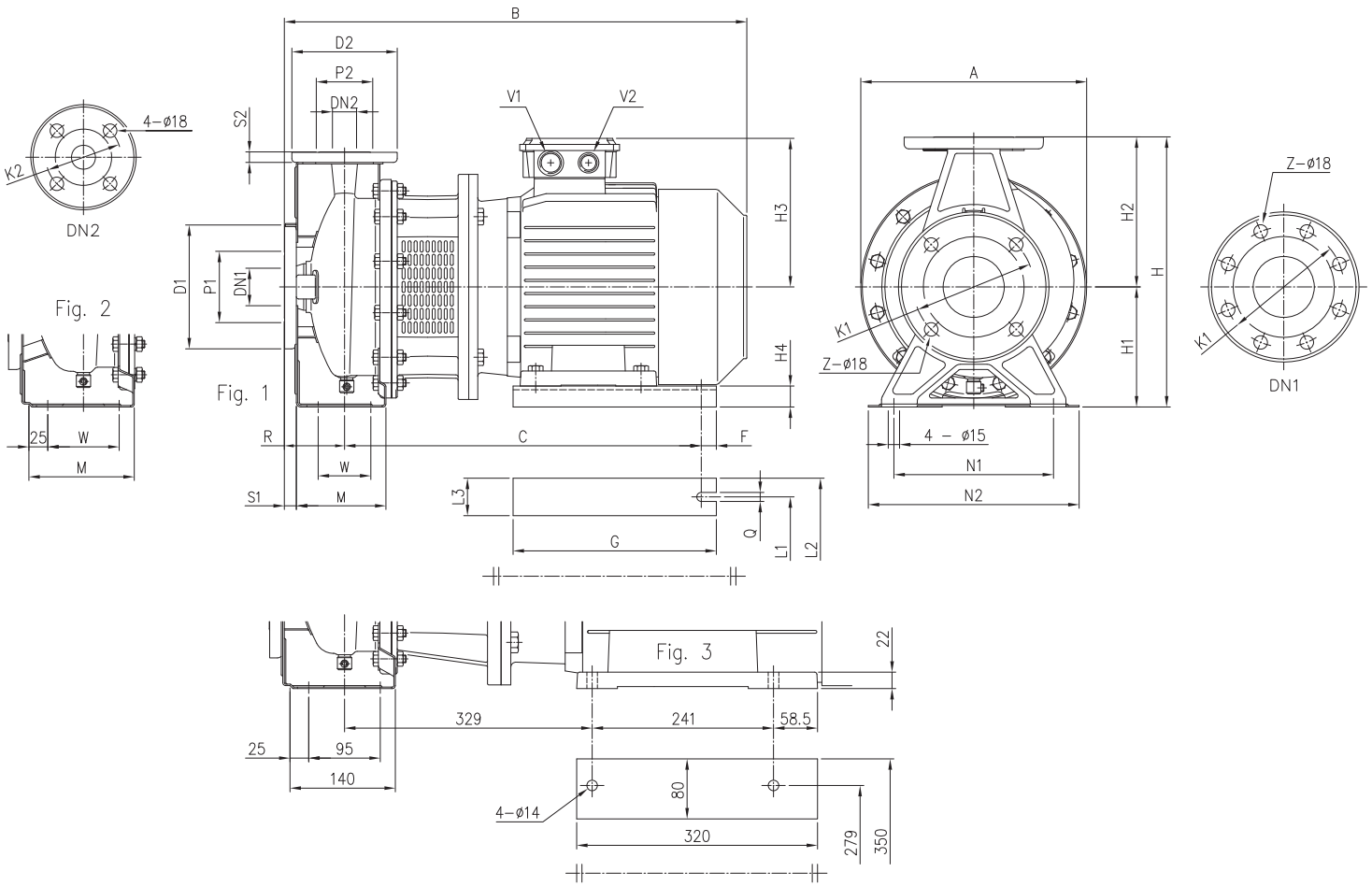
DIMENSIONS TABLE

Model	Dimensions [mm]																													Weight [kg]
	Ø DN1	Ø P1	Ø K1	Ø D1	S1	Z [1]	Z [2]	Ø DN2	Ø P2	Ø K2	Ø D2	S2	Fig.	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	145	80	70	119	190	240	296	528	205	160	202	42	43,4
32-200/4.0	50	95	125	165	16	4	-	32	75	100	140	14	1	340	160	180	161	80	70	119	190	240	296	550	212	190	228	38	45,9
65-125/4.0	80	134	160	200	18	8	4	65	115	145	185	16	2	340	160	180	161	100	95	140	212	280	254	570	212	190	228	38	47,0

[1] Standard
[2] On request

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

3(L)S 32, 40, 50, 65 - up to 65-200 **2 Poles**



DIMENSIONS TABLE

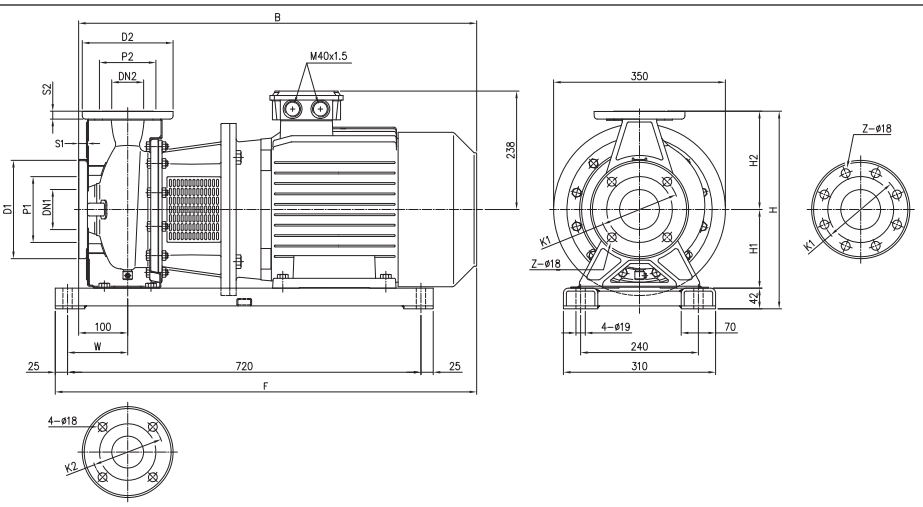
Model	Dimensions [mm]																																		Weight [kg]
	Ø DN1	Ø P1	Ø K1	Ø D1	S1	Z [1]	Z [2]	Ø DN2	Ø P2	Ø K2	Ø D2	S2	Fig.	H	H1	H2	H3	H4	R	W	M	N1	N2	A	B	C	F	G	Q	L1	L2	L3	V1	V2	
32-200/5.5	50	95	125	165	16	4	-	32	75	100	140	14	1	340	160	180	195	28	80	70	119	190	240	300	607	479	15	270	12	216	266	50	M32x1,5	M32x1,5	62,8
32-200/7.5	50	95	125	165	16	4	-	32	75	100	140	14	1	340	160	180	195	28	80	70	119	190	240	300	607	479	15	270	12	216	266	50	M32x1,5	M32x1,5	74,6
40-160/3.0	65	115	145	185	16	4	-	40	80	110	150	14	1	292	132	160	145	32	80	70	118	190	240	254	528	388	15	220	12	160	200	40	M25x1,5	M20x1,5	39,0
40-160/4.0	65	115	145	185	16	4	-	40	80	110	150	14	1	292	132	160	161	20	80	70	118	190	240	254	550	395	15	220	12	190	240	50	M25x1,5	M20x1,5	41,5
40-200/5.5	65	115	145	185	16	4	-	40	80	110	150	14	2	340	160	180	195	28	100	70	115	212	265	300	627	479	15	270	12	216	266	50	M32x1,5	M32x1,5	63,2
40-200/7.5	65	115	145	185	16	4	-	40	80	110	150	14	2	340	160	180	195	28	100	70	115	212	265	300	627	479	15	270	12	216	266	50	M32x1,5	M32x1,5	69,6
50-125/3.0	65	115	145	185	16	4	-	50	95	125	165	16	2	292	132	160	145	32	100	70	114	190	240	254	548	388	15	220	12	160	200	40	M25x1,5	M20x1,5	42,0
50-125/4.0	65	115	145	185	16	4	-	50	95	125	165	16	2	292	132	160	161	20	100	70	114	190	240	254	570	395	15	220	12	190	240	50	M25x1,5	M20x1,5	42,5
50-160/5.5	65	115	145	185	16	4	-	50	95	125	165	16	2	340	160	180	195	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	195	28	100	70	115	212	265	300	627	479	15	270	12	216	266	50	M32x1,5	M32x1,5	69,6
50-200/9.2	65	115	145	185	16	4	-	50	95	125	165	16	2	360	160	200	195	28	100	70	115	212	265	300	667	479	15	270	12	216	266	50	M32x1,5	M32x1,5	79,7
65-125/5.5	80	134	160	200	18	8	4	65	115	145	185	16	2	340	160	180	195	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	195	28	100	95	140	212	280	300	627	479	15	270	12	216	266	50	M32x1,5	M32x1,5	67,0
65-160/7.5	80	134	160	200	18	8	4	65	115	145	185	16	2	360	160	200	195	28	100	95	140	212	280	300	627	479	15	270	12	216	266	50	M32x1,5	M32x1,5	70,0
65-160/9.2	80	134	160	200	18	8	4	65	115	145	185	16	2	360	160	200	195	28	100	95	140	212	280	300	667	479	15	270	12	216	266	50	M32x1,5	M32x1,5	77,0
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	808	621	20	350	14	254	314	60	M40x1,5	M40x1,5	128,0
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	852	621	20	350	14	254	314	60	M40x1,5	M40x1,5	141,0
65-200/22	80	134	160	200	18	8	4	65	115	145	185	16	3	405	180	225	245	-	100	-	-	250	320	350	888	-	-	-	-	-	-	-	M40x1,5	M40x1,5	160,0

[1] Standard
[2] On request

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

3(L)S 40, 50, 65 - 11 ÷ 15 kW

2 Poles



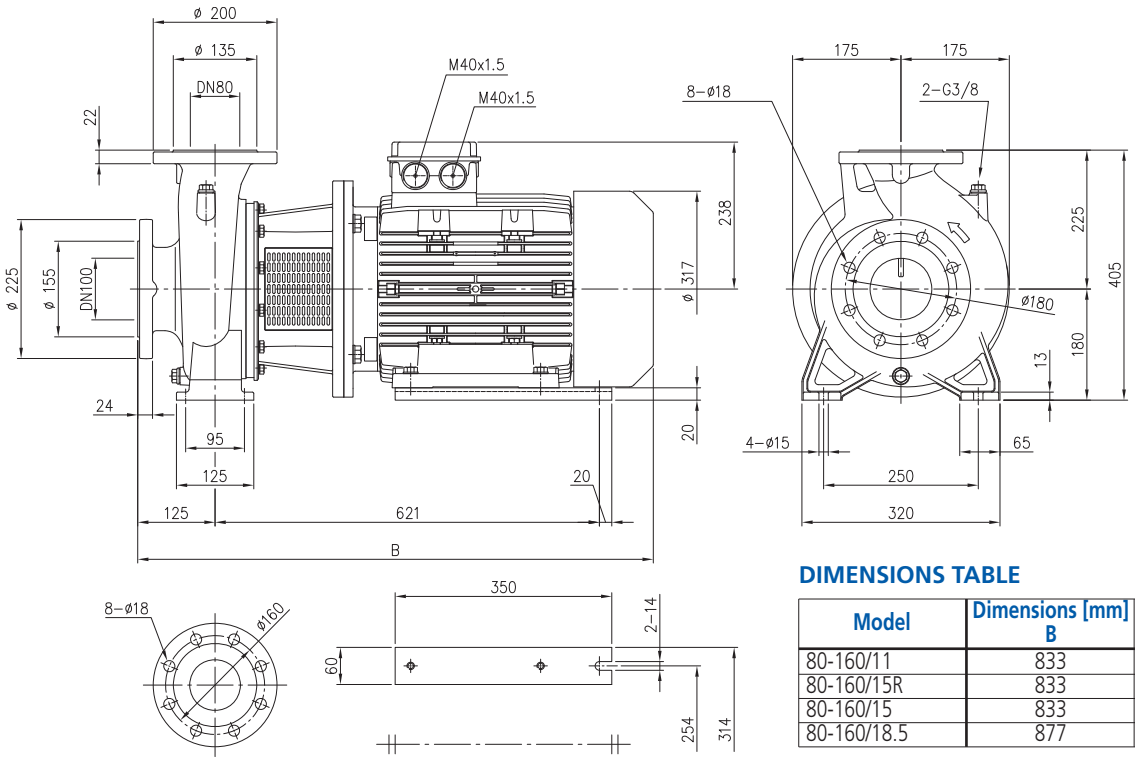
DIMENSIONS TABLE

Model	Dimensions [mm]																			Weight [kg]
	Ø DN1	Ø P1	Ø K1	Ø D1	S1	Z [1]	Z [2]	Ø DN2	Ø P2	Ø K2	Ø D2	S2	H	H1	H2	W	B	F		
40-200/11	65	115	145	185	16	4	-	40	80	110	150	14	382	160	180	110	798	833		107,0
50-200/11	65	115	145	185	16	4	-	50	95	125	165	16	402	160	200	110	798	833		107,0
50-200/15	65	115	145	185	16	4	-	50	95	125	165	16	402	160	200	110	798	833		131,0
65-160/11	80	134	160	200	18	8	4	65	115	145	185	16	402	160	200	122.5	798	846		76,0
65-160/15	80	134	160	200	18	8	4	65	115	145	185	16	402	160	200	122.5	808	856		104,0

[1] Standard
[2] On request

3LS 80-160

2 Poles

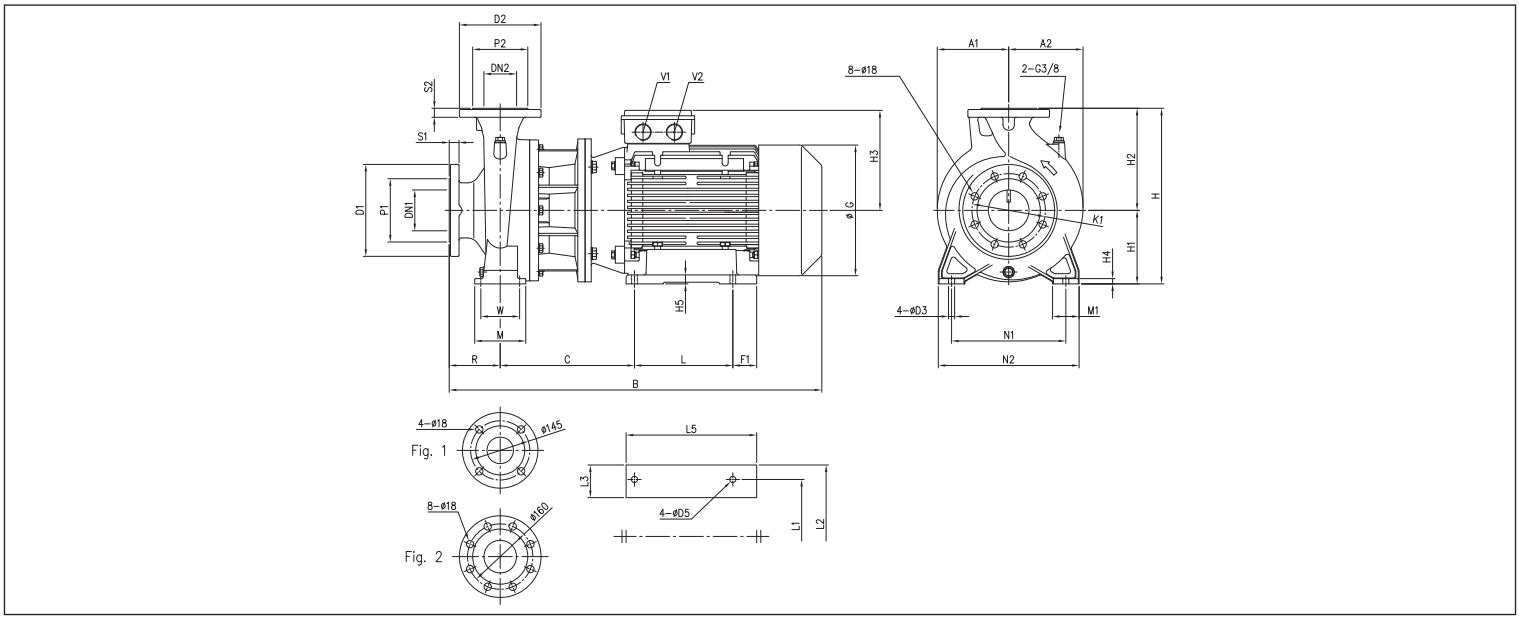


DIMENSIONS TABLE

Model	Dimensions [mm] B	Weight [kg]
80-160/11	833	135,0
80-160/15R	833	147,0
80-160/15	833	147,0
80-160/18.5	877	155,0

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

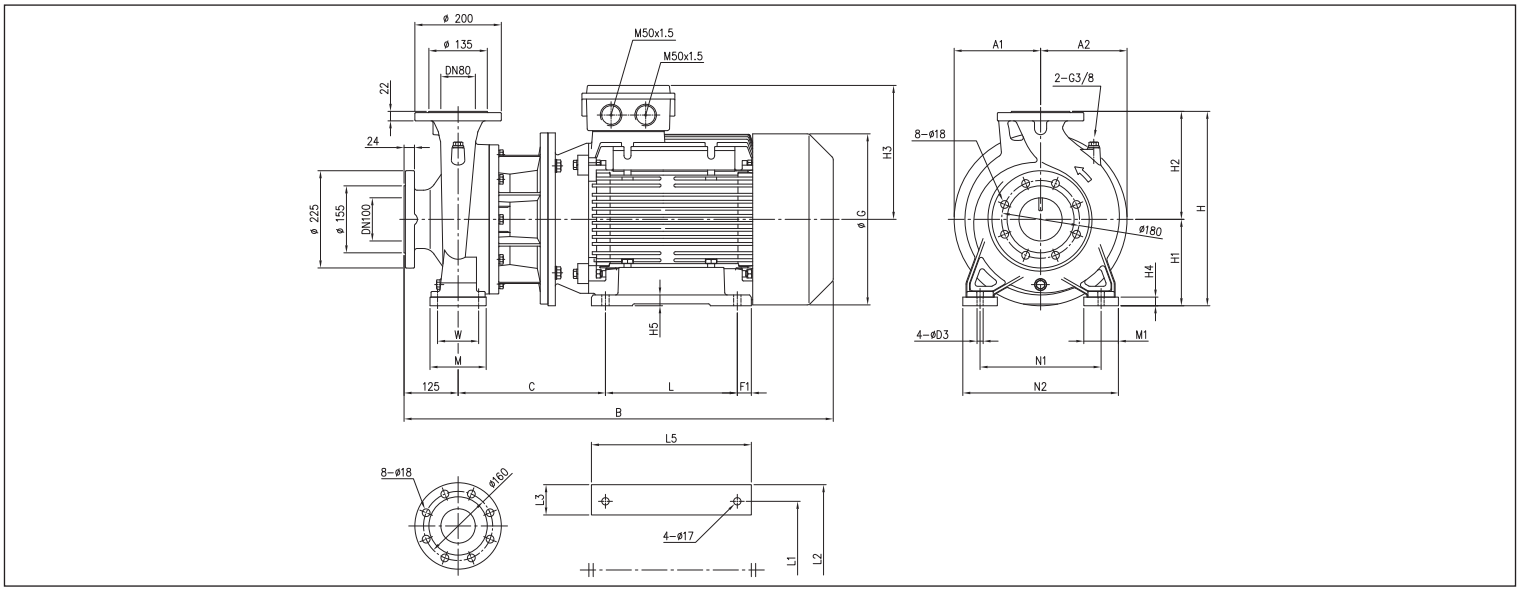
3LS 65-250, 80 — 2 Poles



DIMENSIONS 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	310	15	25	100	120	280	360	160	80	305	318	395	70	370	200	200	968	341	32.5	396	19	17	M50x1,5	M50x1,5	303,0
65-250/37	80	135	160	200	22	65 Fig. 1	120	185	20	450	200	250	310	15	25	100	120	280	360	160	80	305	318	395	70	370	200	200	968	341	32.5	396	19	17	M50x1,5	M50x1,5	320,0
80-200/22	100	155	180	225	24	65 Fig. 2	135	200	22	430	180	250	245	13	22	125	95	280	345	125	65	241	279	350	80	320	175	182	913	329	58.5	320	15	14	M40x1,5	M40x1,5	200,0
80-250/37	100	155	180	225	24	65 Fig. 2	135	200	22	480	200	280	310	15	25	125	120	315	400	160	80	305	318	395	70	370	200	200	1021	369	32.5	396	19	17	M50x1,5	M50x1,5	335,0

3LS 80 — 2 Poles



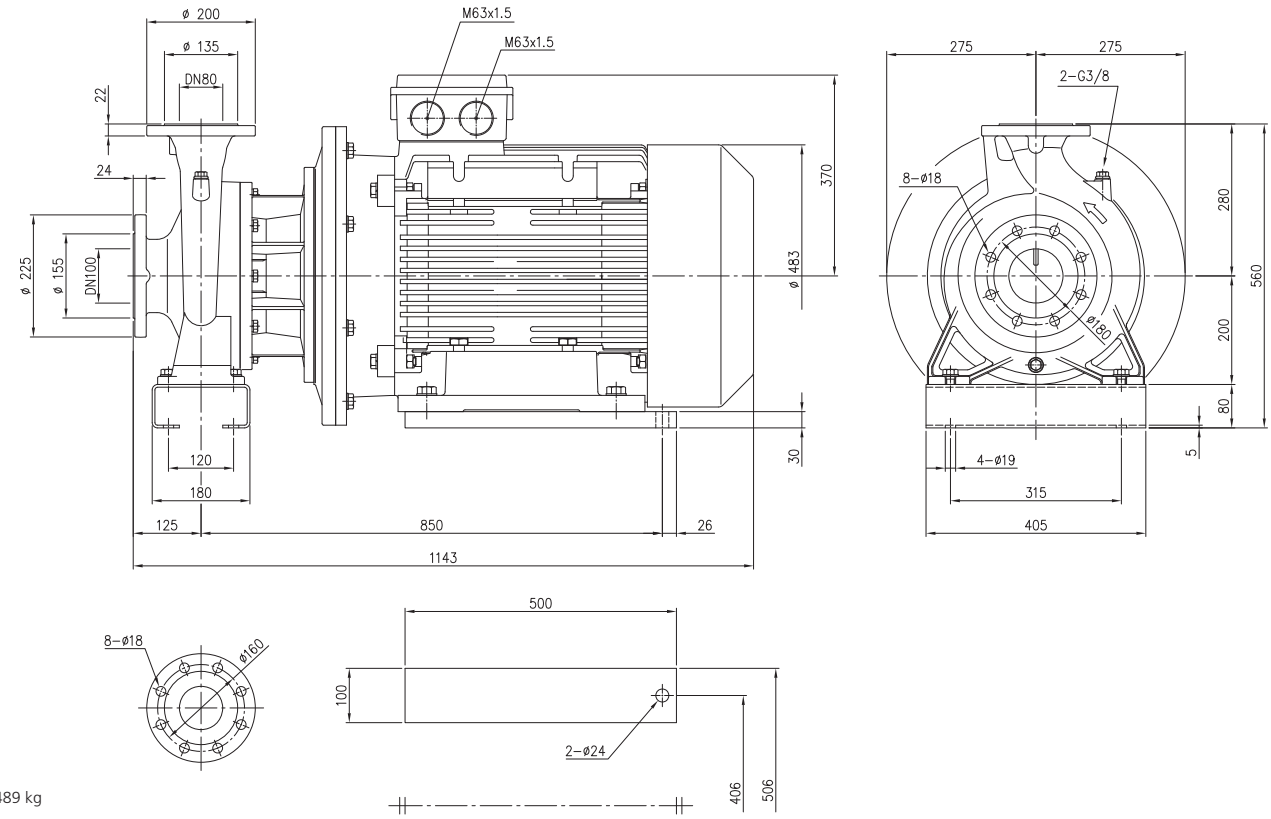
DIMENSIONS TABLE

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	
80-200/30	450	200	250	310	20	25	95	280	360	130	80	305	318	395	70	370	200	200	993	341	32.5	396	14	306,0
80-200/37	450	200	250	310	20	25	95	280	360	130	80	305	318	395	70	370	200	200	993	341	32.5	396	14	325,0
80-250/45	505	225	280	335	25	28	120	315	415	165	100	311	356	435	75	393	225	225	1051	385	41	435	18	401,0

3 - 3L SERIES

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

3LS 80-250/55 **2 Poles**

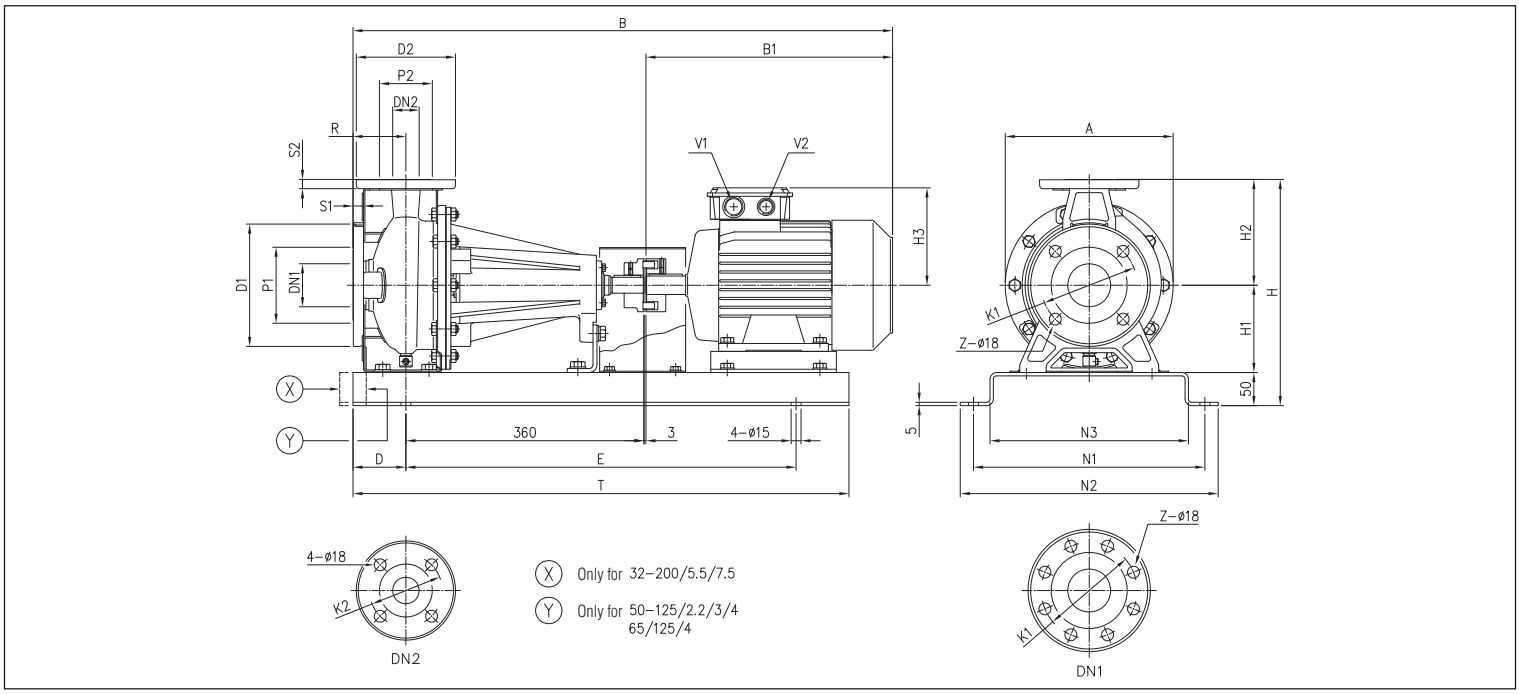


Weight
80-250/55: 489 kg

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

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

2 Poles



DIMENSIONS TABLE

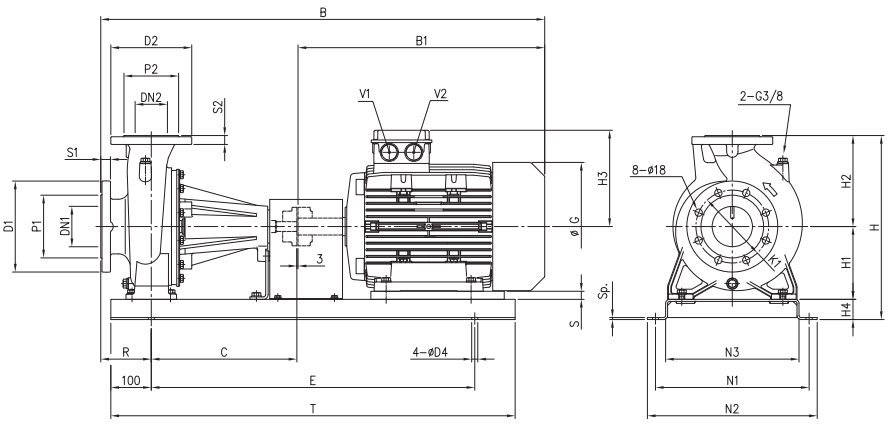
Model	Dimensions [mm]																													Weight [kg]
	Ø DN1	Ø P1	Ø K1	Ø D1	S1	Z [1]	Z [2]	Ø DN2	Ø P2	Ø K2	Ø D2	S2	H	H1	H2	H3	R	A	B	B1	D	E	N1	N2	N3	T	V1	V2	
32-125/1.1	50	95	125	165	16	4	-	32	75	100	140	14	302	112	140	129	80	213	715	272	80	550	300	340	250	710	M25x1,5	M20x1,5	43,5
32-160/1.5	50	95	125	165	16	4	-	32	75	100	140	14	342	132	160	138	80	254	760	317	80	590	350	390	300	750	M25x1,5	M20x1,5	51,0
32-160/2.2	50	95	125	165	16	4	-	32	75	100	140	14	342	132	160	138	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	145	80	296	809	366	80	590	350	390	300	750	M25x1,5	M20x1,5	68,0
32-200/4	50	95	125	165	16	4	-	32	75	100	140	14	390	160	180	161	80	296	831	388	80	590	350	390	300	750	M25x1,5	M20x1,5	72,0
32-200/5.5	50	95	125	165	16	4	-	32	75	100	140	14	390	160	180	195	80	296	885	442	100	650	350	390	300	850	M32x1,5	M32x1,5	88,0
32-200/7.5	50	95	125	165	16	4	-	32	75	100	140	14	390	160	180	195	80	296	885	442	100	650	350	390	300	850	M32x1,5	M32x1,5	99,8
40-125/1.5	65	115	145	185	16	4	-	40	80	110	150	14	302	112	140	138	80	213	760	317	80	550	300	340	250	710	M25x1,5	M20x1,5	48,5
40-125/2.2	65	115	145	185	16	4	-	40	80	110	150	14	302	112	140	138	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	145	80	254	809	366	80	590	350	390	300	750	M25x1,5	M20x1,5	77,5
40-160/4	65	115	145	185	16	4	-	40	80	110	150	14	342	132	160	161	80	254	831	388	80	590	350	390	300	750	M25x1,5	M20x1,5	64,5
40-200/5.5	65	115	145	185	16	4	-	40	80	110	150	14	390	160	180	195	100	296	905	442	100	650	350	390	300	850	M32x1,5	M32x1,5	89,0
40-200/7.5	65	115	145	185	16	4	-	40	80	110	150	14	390	160	180	195	100	296	905	442	100	650	350	390	300	850	M32x1,5	M32x1,5	94,5
40-200/11	65	115	145	185	16	4	-	40	80	110	150	14	390	160	180	238	100	296	1073	610	100	800	380	420	330	1000	M40x1,5	M40x1,5	117,0
50-125/2.2	65	115	145	185	16	4	-	50	95	125	165	16	342	132	160	138	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	145	100	254	829	366	80	590	350	390	300	750	M25x1,5	M20x1,5	79,0
50-125/4	65	115	145	185	16	4	-	50	95	125	165	16	342	132	160	161	100	254	851	388	80	590	350	390	300	750	M25x1,5	M20x1,5	81,5
50-160/5.5	65	115	145	185	16	4	-	50	95	125	165	16	390	160	180	195	100	296	905	442	100	650	350	390	300	850	M32x1,5	M32x1,5	89,0
50-160/7.5	65	115	145	185	16	4	-	50	95	125	165	16	390	160	180	195	100	296	905	442	100	650	350	390	300	850	M32x1,5	M32x1,5	94,5
50-200/9.2	65	115	145	185	16	4	-	50	95	125	165	16	410	160	200	195	100	296	945	482	100	650	350	390	300	850	M32x1,5	M32x1,5	100,0
50-200/11	65	115	145	185	16	4	-	50	95	125	165	16	410	160	200	238	100	296	1073	610	100	800	380	420	330	1000	M40x1,5	M40x1,5	117,5
50-200/15	65	115	145	185	16	4	-	50	95	125	165	16	410	160	200	238	100	296	1073	610	100	800	380	420	330	1000	M40x1,5	M40x1,5	125,4
65-125/4	80	134	160	200	18	8	4	65	115	145	185	16	390	160	180	161	100	254	851	388	80	590	350	390	300	750	M25x1,5	M20x1,5	82,0
65-125/5.5	80	134	160	200	18	8	4	65	115	145	185	16	390	160	180	195	100	254	905	442	100	650	350	390	300	850	M32x1,5	M32x1,5	90,0
65-125/7.5	80	134	160	200	18	8	4	65	115	145	185	16	390	160	180	195	100	254	905	442	100	650	350	390	300	850	M32x1,5	M32x1,5	97,0
65-160/7.5	80	134	160	200	18	8	4	65	115	145	185	16	410	160	200	195	100	296	905	442	100	650	350	390	300	850	M32x1,5	M32x1,5	103,0
65-160/9.2	80	134	160	200	18	8	4	65	115	145	185	16	410	160	200	195	100	296	945	482	100	650	350	390	300	850	M32x1,5	M32x1,5	107,0
65-160/11	80	134	160	200	18	8	4	65	115	145	185	16	410	160	200	238	100	296	1073	610	100	800	380	420	330	1000	M40x1,5	M40x1,5	114,0
65-160/15	80	134	160	200	18	8	4	65	115	145	185	16	410	160	200	238	100	296	1073	610	100	800	380	420	330	1000	M40x1,5	M40x1,5	119,0
65-200/15	80	134	160	200	18	8	4	65	115	145	185	16	455	180	225	238	100	296	1073	610	100	800	380	420	330	1000	M40x1,5	M40x1,5	127,0
65-200/18.5	80	134	160	200	18	8	4	65	115	145	185	16	455	180	225	238	100	296	1117	654	100	800	380	420	330	1000	M40x1,5	M40x1,5	139,0
65-200/22	80	134	160	200	18	8	4	65	115	145	185	16	455	180	225	245	100	296	1153	690	100	800	410	450	360	1000	M40x1,5	M40x1,5	182,0

[1] Standard
[2] On request

3 - 3L SERIES

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

3LP 65-250, 80 — 2 Poles



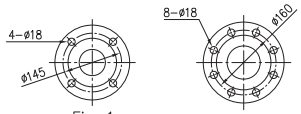


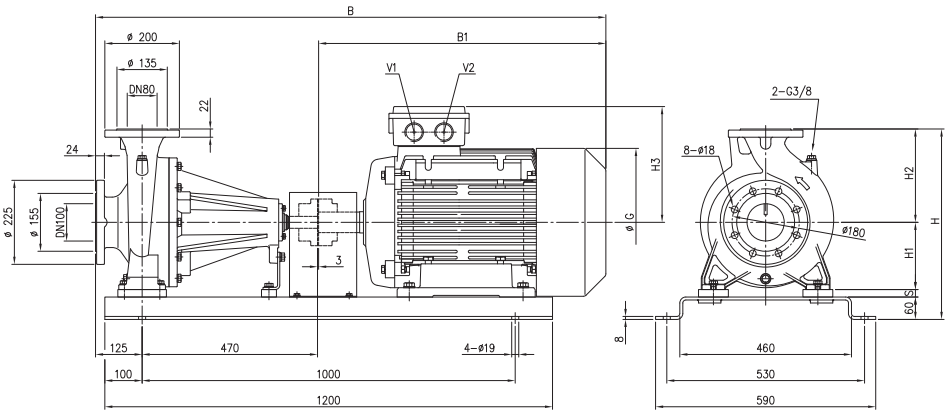
Fig. 1

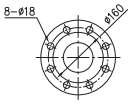
Fig. 2

DIMENSIONS TABLE

Model	Dimensions [mm]																											Weight [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	310	60	100	530	590	460	1343	770	470	396	1000	1200	-	19	8	M50x1,5	M50x1,5	354,0
65-250/37	80	135	160	200	22	65 Fig. 1	120	185	20	510	200	250	310	60	100	530	590	460	1343	770	470	396	1000	1200	-	19	8	M50x1,5	M50x1,5	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	1098	610	360	317	800	1000	20	15	5	M40x1,5	M40x1,5	164,0
80-160/15R	100	155	180	225	24	80 Fig. 2	135	200	22	455	180	225	238	50	125	380	420	330	1098	610	360	317	800	1000	20	15	5	M40x1,5	M40x1,5	176,0
80-160/15	100	155	180	225	24	80 Fig. 2	135	200	22	455	180	225	238	50	125	380	420	330	1098	610	360	317	800	1000	20	15	5	M40x1,5	M40x1,5	176,0
80-160/18.5	100	155	180	225	24	80 Fig. 2	135	200	22	455	180	225	238	50	125	380	420	330	1142	654	360	317	800	1000	20	15	5	M40x1,5	M40x1,5	185,0
80-200/22	100	155	180	225	24	80 Fig. 2	135	200	22	490	180	250	245	60	125	530	590	460	1288	690	470	320	1000	1200	-	19	8	M40x1,5	M40x1,5	252,0
80-250/37	100	155	180	225	24	80 Fig. 2	135	200	22	540	200	280	310	60	125	530	590	460	1368	770	470	396	1000	1200	-	19	8	M50x1,5	M50x1,5	377,0

3LP 80 - 30 ÷ 45 kW — 2 Poles





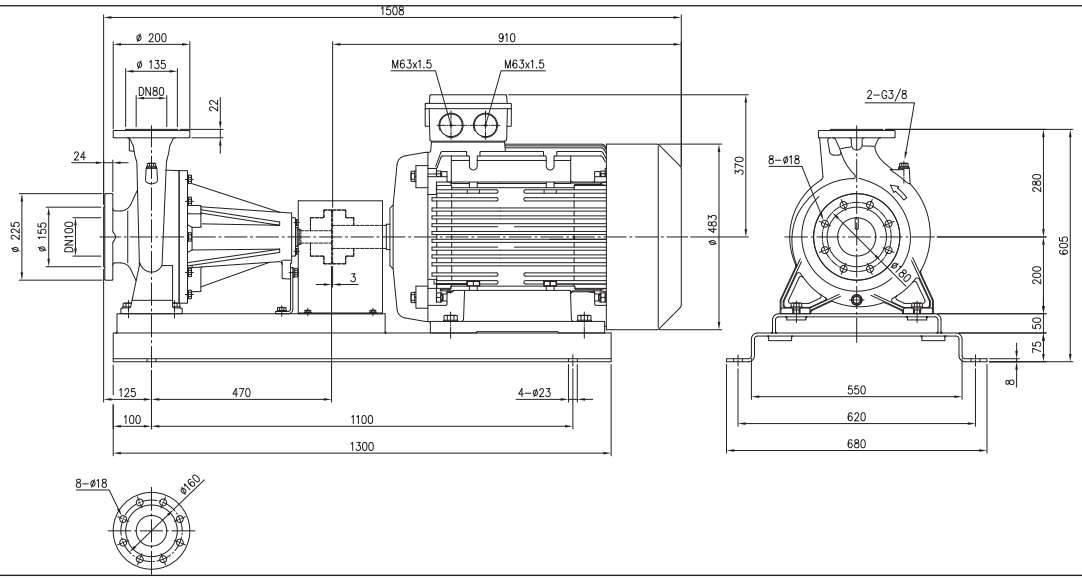
DIMENSIONS TABLE

Model	Dimensions [mm]										Weight [kg]
	H	H1	H2	H3	B	B1	G	S	V1	V2	
80-200/30	510	180	250	310	1368	770	396	20	M50x1.5	M50x1.5	356,0
80-200/37	510	180	250	310	1368	770	396	20	M50x1.5	M50x1.5	365,0
80-250/45	565	200	280	335	1398	800	435	25	M50x1.5	M50x1.5	440,0

3 - 3L SERIES

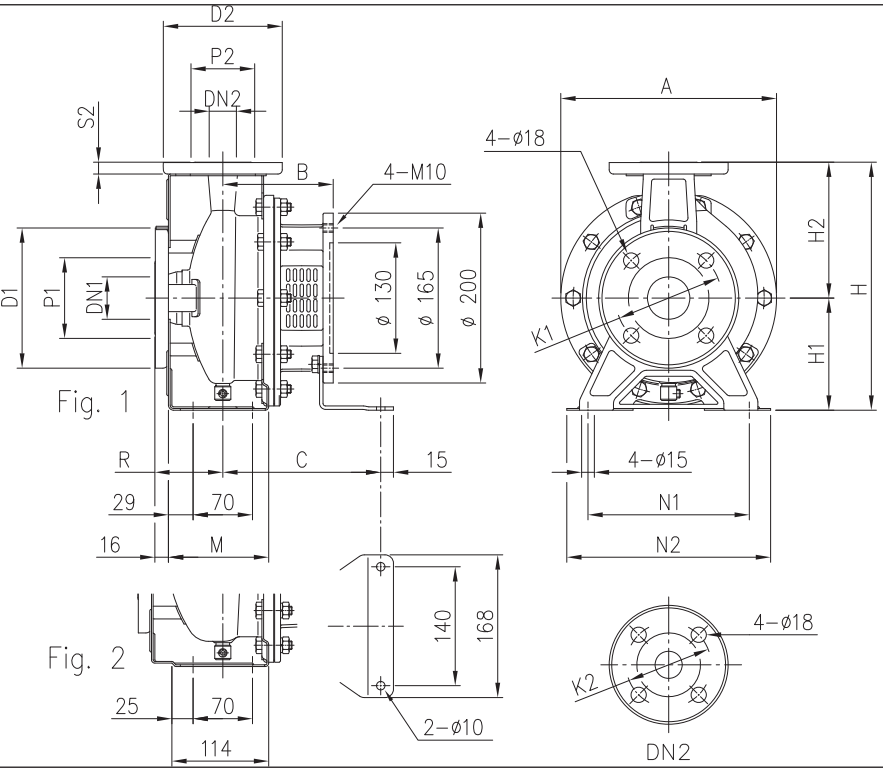
CENTRIFUGAL ELECTRIC PUMPS STANDARDISED IN COMPLIANCE WITH EN 733 (FORMER DIN 24255)

3LP 80-250/55 — 2 Poles



Weight
3LP 80-250/55: 528 kg

3(L)SF 32, 40, 50 — 2 Poles

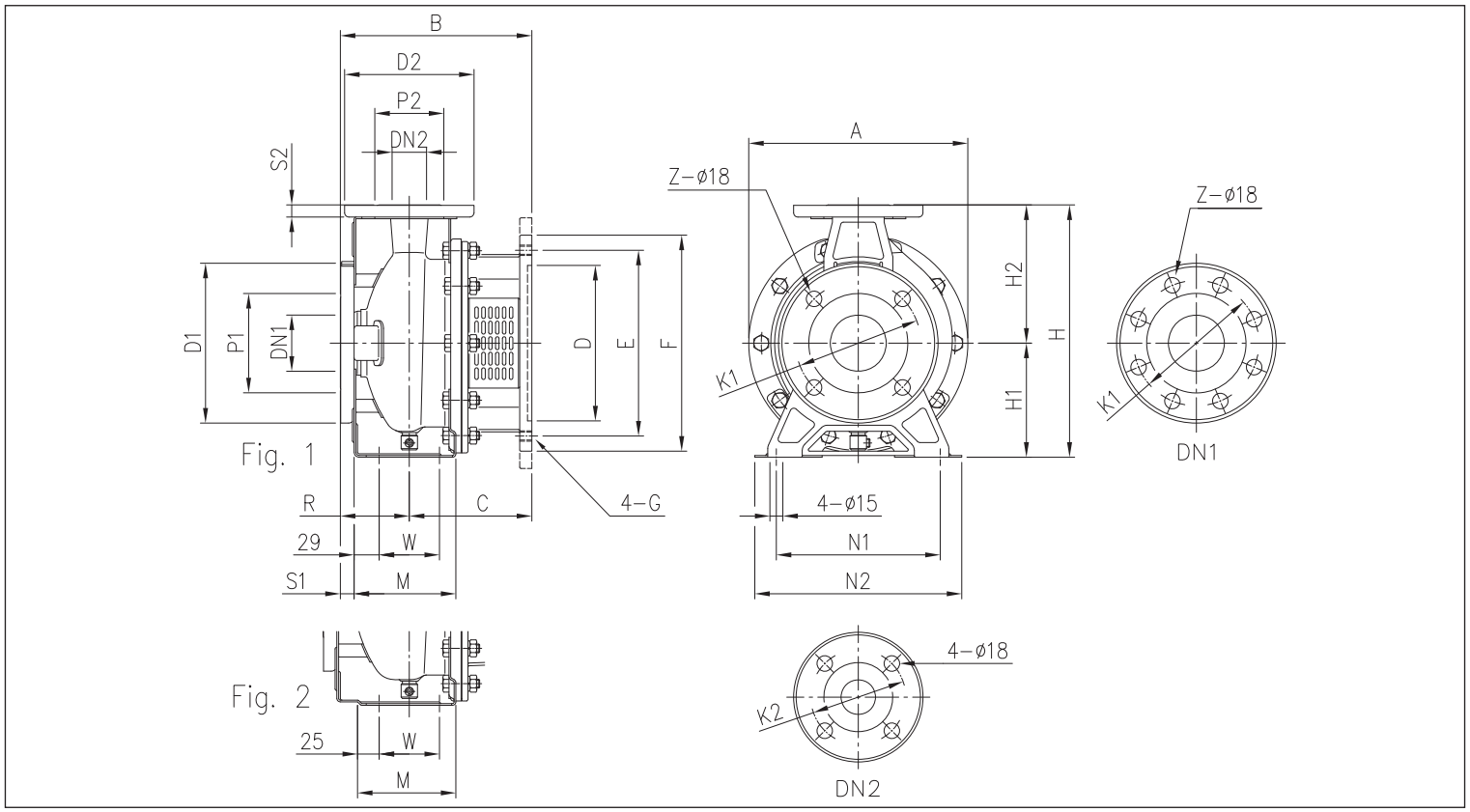


DIMENSIONS TABLE

Model	Dimensions [mm]																				Weight [kg]
	Fig.	DN1	P1	K1	D1	DN2	P2	K2	D2	S2	H	H1	H2	M	N1	N2	R	A	B	C	
32-125/1.1	1	50	95	125	165	32	75	100	140	14	252	112	140	114	140	190	80	213	118	174	13,1
32-160/1.5	1	50	95	125	165	32	75	100	140	14	292	132	160	118	190	240	80	254	130	186	17,0
32-160/2.2	1	50	95	125	165	32	75	100	140	14	292	132	160	118	190	240	80	254	130	186	17,0
40-125/1.5	1	65	115	145	185	40	80	110	150	14	252	112	140	114	160	210	80	213	130	186	14,4
40-125/2.2	1	65	115	145	185	40	80	110	150	14	252	112	140	114	160	210	80	213	130	186	14,5
50-125/2.2	2	65	115	145	185	50	95	125	165	16	292	132	160	-	190	240	100	254	130	186	20,0

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

3(L)SF 32, 40, 50, 65 **2 Poles**



DIMENSIONS TABLE

Model	Dimensions [mm]																												Weight [kg]
	Fig.	DN1	P1	K1	D1	S1	Z [1]	Z [2]	DN2	P2	K2	D2	S2	H	H1	H2	M	N1	N2	R	W	A	B	C	D	E	F	G	
32-200/3	1	50	95	125	165	16	4	-	32	75	100	140	14	340	160	180	119	190	240	80	70	296	222	142	180	215	250	M12	24,0
32-200/4	1	50	95	125	165	16	4	-	32	75	100	140	14	340	160	180	119	190	240	80	70	296	222	142	180	215	250	M12	24,0
32-200/5.5	1	50	95	125	165	16	4	-	32	75	100	140	14	340	160	180	119	190	240	80	70	296	245	165	230	265	300	M12	28,0
32-200/7.5	1	50	95	125	165	16	4	-	32	75	100	140	14	340	160	180	119	190	240	80	70	296	245	165	230	265	300	M12	28,0
40-160/3	1	65	115	145	185	16	4	-	40	80	110	150	14	292	132	160	118	190	240	80	70	254	222	142	180	215	250	M12	19,5
40-160/4	1	65	115	145	185	16	4	-	40	80	110	150	14	292	132	160	118	190	240	80	70	254	222	142	180	215	250	M12	20,0
40-200/5.5	2	65	115	145	185	16	4	-	40	80	110	150	14	340	160	180	115	212	265	100	70	296	265	165	230	265	300	M12	28,0
40-200/7.5	2	65	115	145	185	16	4	-	40	80	110	150	14	340	160	180	115	212	265	100	70	296	265	165	230	265	300	M12	28,0
40-200/11	2	65	115	145	185	16	4	-	40	80	110	150	14	340	160	180	115	212	265	100	70	296	298	198	250	300	350	M16	41,5
50-125/3	2	65	115	145	185	16	4	-	50	95	125	165	16	292	132	160	114	190	240	100	70	254	242	142	180	215	250	M12	20,0
50-125/4	2	65	115	145	185	16	4	-	50	95	125	165	16	292	132	160	114	190	240	100	70	254	242	142	180	215	250	M12	20,0
50-160/5.5	2	65	115	145	185	16	4	-	50	95	125	165	16	340	160	180	115	212	265	100	70	296	265	165	230	265	300	M12	28,5
50-160/7.5	2	65	115	145	185	16	4	-	50	95	125	165	16	340	160	180	115	212	265	100	70	296	265	165	230	265	300	M12	28,5
50-200/9.2	2	65	115	145	185	16	4	-	50	95	125	165	16	360	160	200	115	212	265	100	70	296	265	165	230	265	300	M12	29,0
50-200/11	2	65	115	145	185	16	4	-	50	95	125	165	16	360	160	200	115	212	265	100	70	296	298	198	250	300	350	M16	41,5
50-200/15	2	65	115	145	185	16	4	-	50	95	125	165	16	360	160	200	115	212	265	100	70	296	298	198	250	300	350	M16	42,5
65-125/4	2	80	134	160	200	18	8	4	65	115	145	185	16	340	160	180	140	212	280	100	95	254	242	142	180	215	250	M12	26,0
65-125/5.5	2	80	134	160	200	18	8	4	65	115	145	185	16	340	160	180	140	212	280	100	95	254	265	165	230	265	300	M12	27,5
65-125/7.5	2	80	134	160	200	18	8	4	65	115	145	185	16	340	160	180	140	212	280	100	95	254	265	165	230	265	300	M12	28,5
65-160/7.5	2	80	134	160	200	18	8	4	65	115	145	185	16	360	160	200	140	212	280	100	95	296	265	165	230	265	300	M12	27,0
65-160/9.2	2	80	134	160	200	18	8	4	65	115	145	185	16	360	160	200	140	212	280	100	95	296	265	165	230	265	300	M12	30,0
65-160/11	2	80	134	160	200	18	8	4	65	115	145	185	16	360	160	200	140	212	280	100	95	296	298	198	250	300	350	M16	40,0
65-160/15	2	80	134	160	200	18	8	4	65	115	145	185	16	360	160	200	140	212	280	100	95	296	308	208	250	300	350	M16	42,0
65-200/15	2	80	134	160	200	18	8	4	65	115	145	185	16	405	180	225	140	250	320	100	95	296	308	208	250	300	350	M16	29,5
65-200/18.5	2	80	134	160	200	18	8	4	65	115	145	185	16	405	180	225	140	250	320	100	95	296	308	208	250	300	350	M16	29,5
65-200/22	2	80	134	160	200	18	8	4	65	115	145	185	16	405	180	225	140	250	320	100	95	296	308	208	250	300	350	M16	30,0

[1] Standard
[2] On request

3 - 3L SERIES

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

3(L)SF 65-250, 80 **2 Poles**

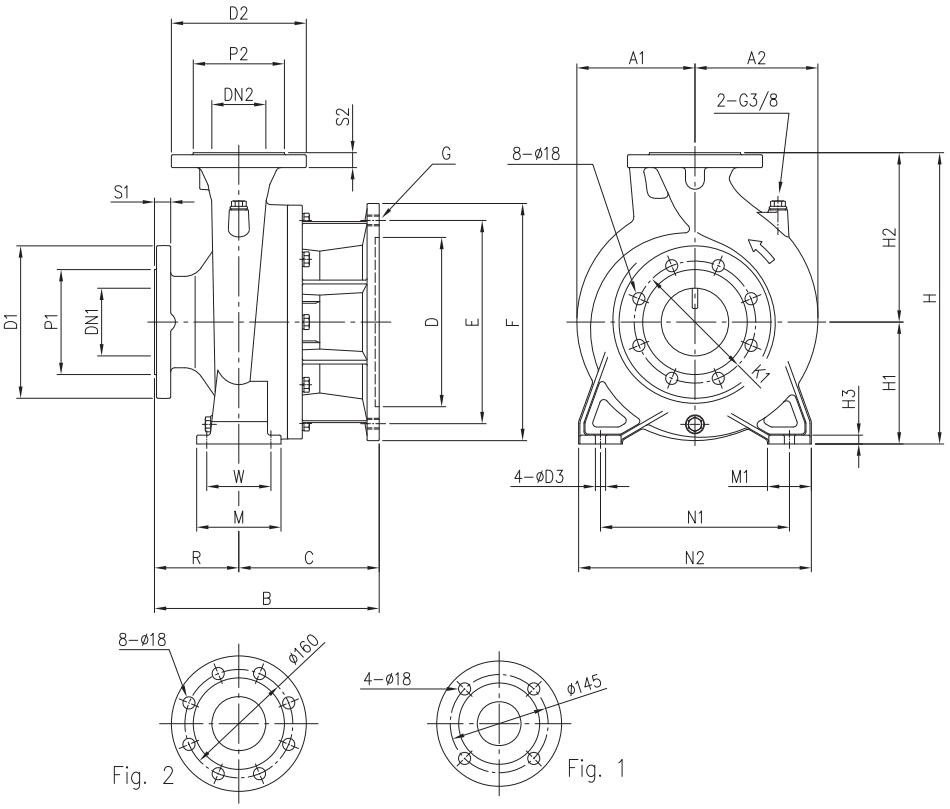


Fig. 2 Fig. 1

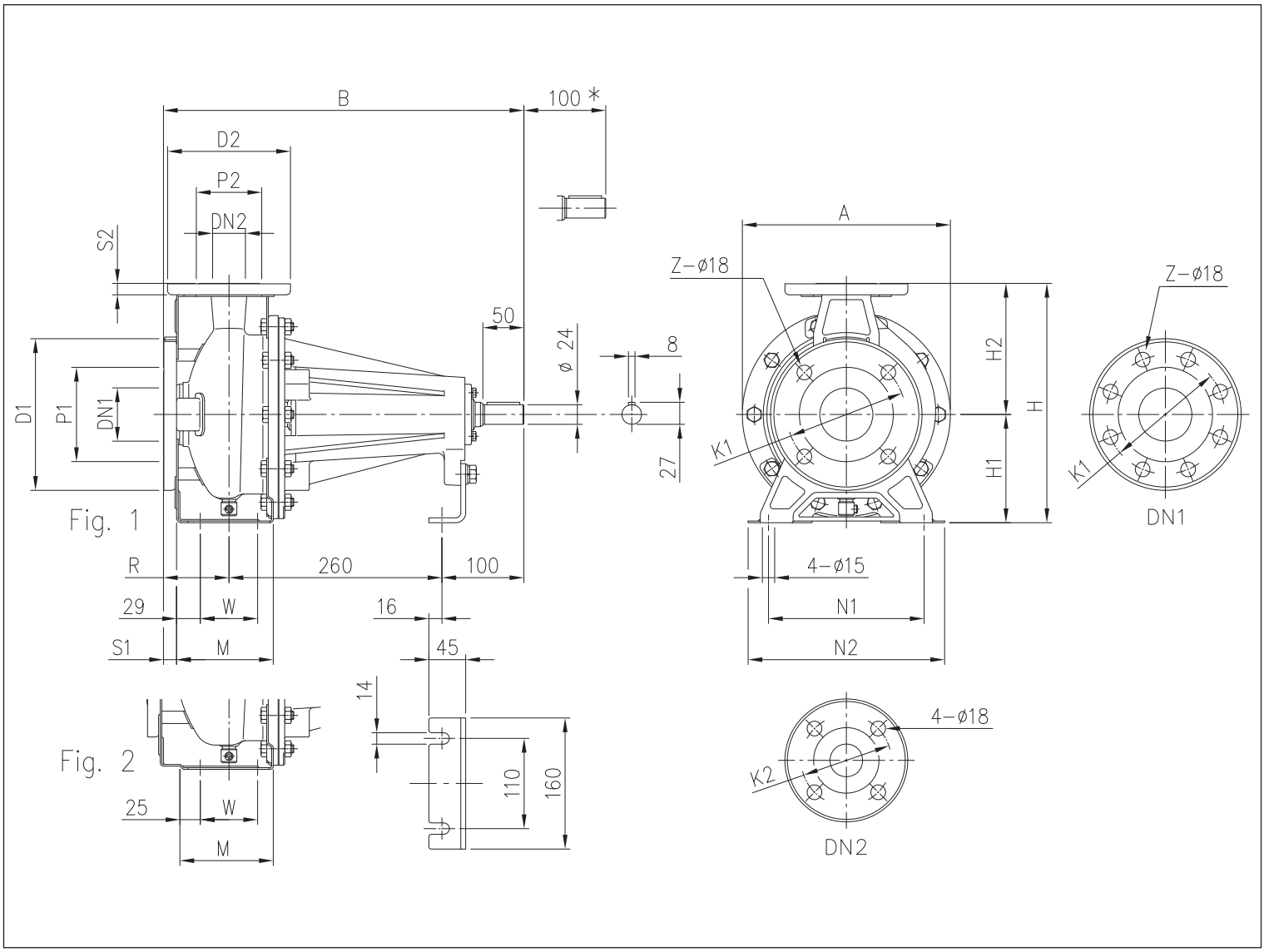
DIMENSIONS TABLE

Model	Dimensions [mm]																											Weight [kg]
	DN1	P1	K1	D1	S1	DN2	P2	D2	S2	H	H1	H2	H3	R	W	N1	N2	M	M1	D3	B	C	D	E	F	G	A1	A2	
65-250/30	80	135	160	200	22	65 Fig. 1	120	185	20	450	200	250	15	100	120	280	360	160	80	19	308	208	300	350	400	4 - M16	200	200	70,0
65-250/37	80	135	160	200	22	65 Fig. 1	120	185	20	450	200	250	15	100	120	280	360	160	80	19	308	208	300	350	400	4 - M16	200	200	71,0
80-160/11	100	155	180	225	24	80 Fig. 2	135	200	22	405	180	225	13	125	95	250	320	125	65	15	333	208	250	300	350	4 - M16	175	175	52,0
80-160/15R	100	155	180	225	24	80 Fig. 2	135	200	22	405	180	225	13	125	95	250	320	125	65	15	333	208	250	300	350	4 - M16	175	175	52,0
80-160/15	100	155	180	225	24	80 Fig. 2	135	200	22	405	180	225	13	125	95	250	320	125	65	15	333	208	250	300	350	4 - M16	175	175	52,0
80-160/18.5	100	155	180	225	24	80 Fig. 2	135	200	22	405	180	225	13	125	95	250	320	125	65	15	333	208	250	300	350	4 - M16	175	175	53,0
80-200/22	100	155	180	225	24	80 Fig. 2	135	200	22	430	180	250	13	125	95	280	345	125	65	15	333	208	250	300	350	4 - M16	175	182	68,0
80-200/30	100	155	180	225	24	80 Fig. 2	135	200	22	430	180	250	13	125	95	280	345	125	65	15	333	208	300	350	400	4 - M16	200	200	72,0
80-200/37	100	155	180	225	24	80 Fig. 2	135	200	22	430	180	250	13	125	95	280	345	125	65	15	333	208	300	350	400	4 - M16	200	200	73,0
80-250/37	100	155	180	225	24	80 Fig. 2	135	200	22	480	200	280	15	125	120	315	400	160	80	19	361	236	300	350	400	4 - M16	200	200	83,0
80-250/45	100	155	180	225	24	80 Fig. 2	135	200	22	480	200	280	15	125	120	315	400	160	80	19	361	236	350	400	450	8 - M16	225	225	88,0
80-250/55	100	155	180	225	24	80 Fig. 2	135	200	22	480	200	280	15	125	120	315	400	160	80	19	373	248	450	500	550	8 - M16	275	275	100,0

3 - 3L SERIES

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

3(L)PF 32, 40, 50, 65 **2 Poles**



DIMENSIONS TABLE

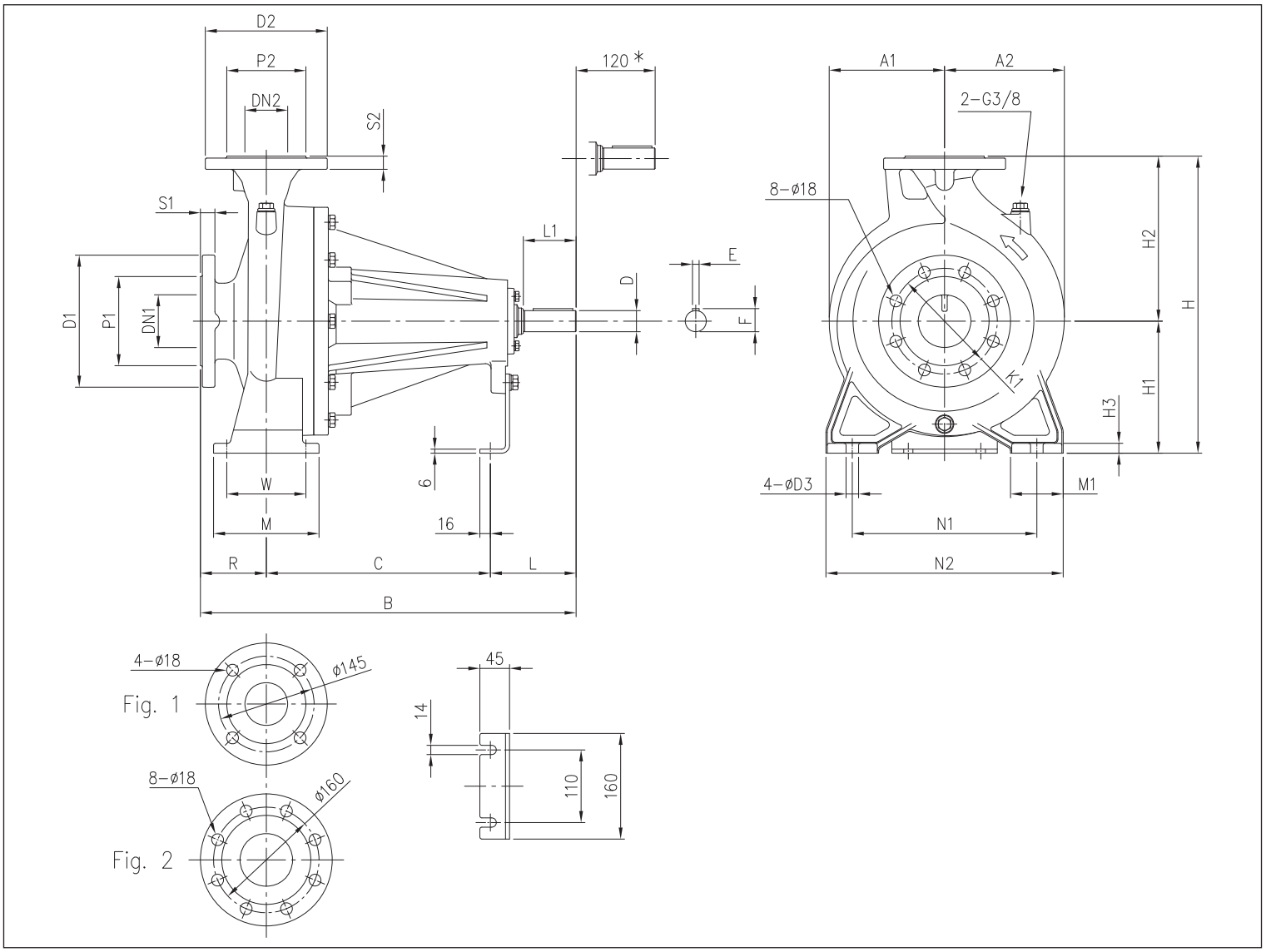
Model	Dimensions [mm]																							Weight [kg]
	Fig.	DN1	P1	K1	D1	S1	Z [1]	Z [2]	DN2	P2	K2	D2	S2	H	H1	H2	M	N1	N2	R	W	A	B	
32-125	1	50	95	125	165	16	4	-	32	75	100	140	14	252	112	140	114	140	190	80	70	213	440	17,0
32-160	1	50	95	125	165	16	4	-	32	75	100	140	14	292	132	160	118	190	240	80	70	254	440	19,0
32-200	1	50	95	125	165	16	4	-	32	75	100	140	14	340	160	180	119	190	240	80	70	296	440	27,0
40-125	1	65	115	145	185	16	4	-	40	80	110	150	14	252	112	140	114	160	210	80	70	213	440	17,0
40-160	1	65	115	145	185	16	4	-	40	80	110	150	14	292	132	160	118	190	240	80	70	254	440	19,0
40-200	2	65	115	145	185	16	4	-	40	80	110	150	14	340	160	180	115	212	265	100	70	296	460	27,0
50-125	2	65	115	145	185	16	4	-	50	95	125	165	16	292	132	160	114	190	240	100	70	254	460	19,0
50-160	2	65	115	145	185	16	4	-	50	95	125	165	16	340	160	180	115	212	265	100	70	296	460	28,0
50-200	2	65	115	145	185	16	4	-	50	95	125	165	16	360	160	200	115	212	265	100	70	296	460	27,0
65-125	2	80	134	160	200	18	8	4	65	115	145	185	16	340	160	180	140	212	280	100	95	254	460	28,0
65-160	2	80	134	160	200	18	8	4	65	115	145	185	16	360	160	200	140	212	280	100	95	296	460	29,0
65-200	2	80	134	160	200	18	8	4	65	115	145	185	16	405	180	225	140	250	320	100	95	296	460	30,0

[1] Standard
[2] On request

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

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

3(L)PF 65-250, 80 **2 Poles**



DIMENSIONS TABLE

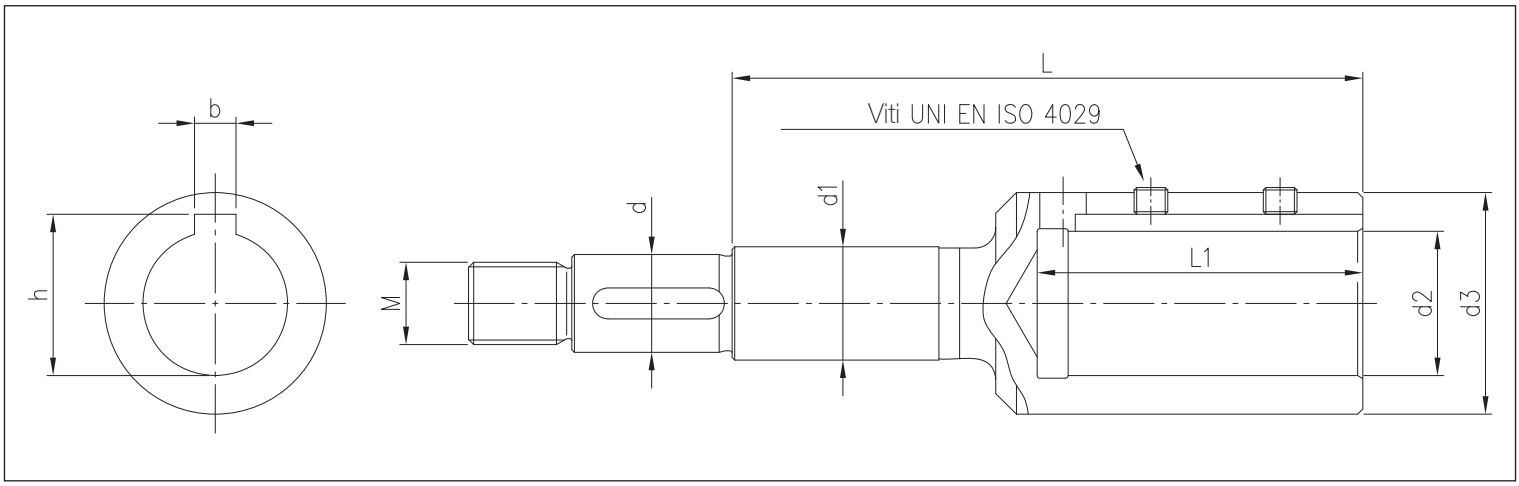
Model	Dimensions [mm]																													Weight [kg]
	DN1	P1	K1	D1	S1	DN2	P2	D2	S2	H	H1	H2	H3	R	W	N1	N2	M	M1	L	L1	D	D3	E	F	A1	A2	B	C	
65-250	80	135	160	200	22	65 Fig. 1	120	185	20	450	200	250	15	100	120	280	360	160	80	130	80	32	19	10	35	175	182	570	340	82,0
80-160	100	155	180	225	24	80 Fig. 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 (FORMER DIN 24255)

Joint for 3(L)S - 3SF Series **2 Poles**



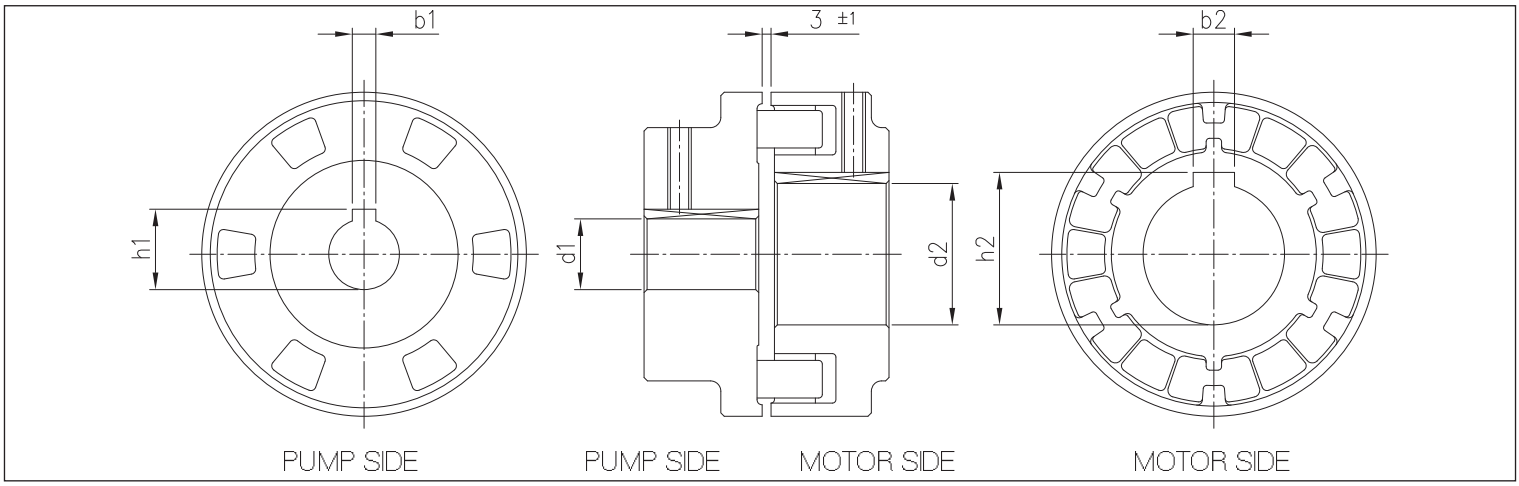
DIMENSIONS TABLE

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 (FORMER DIN 24255)

Joint for 3(L)P Series **2 Poles**



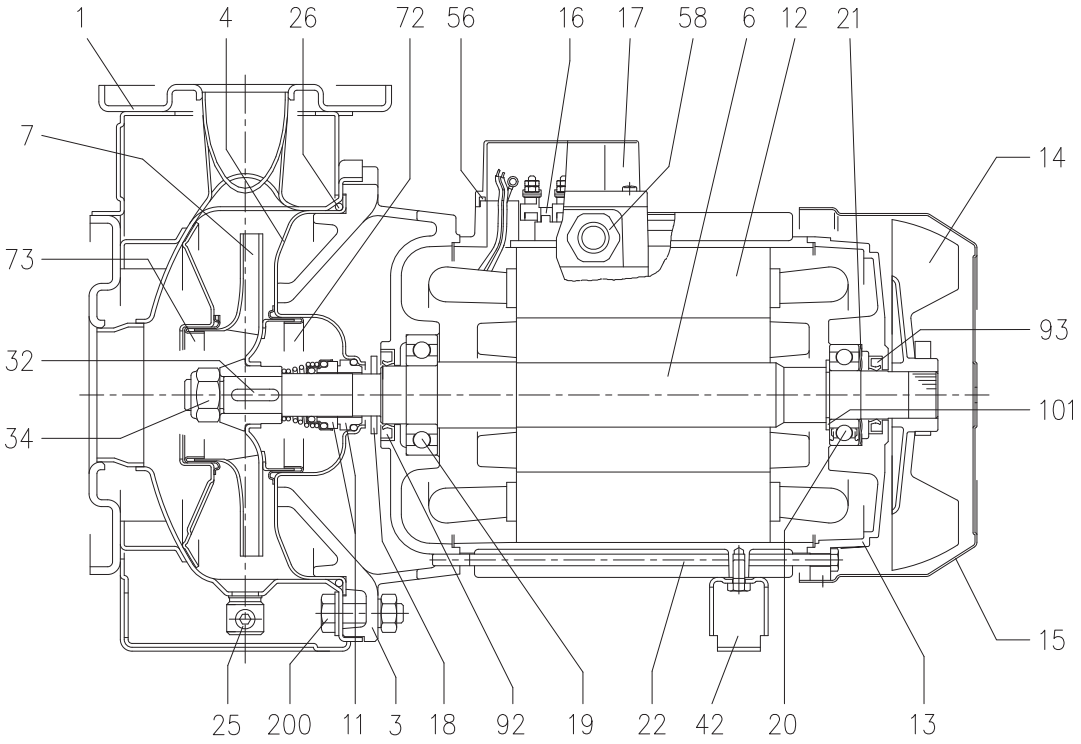
DIMENSIONS TABLE

Model	[HP]	[kW]	Motor size	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

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

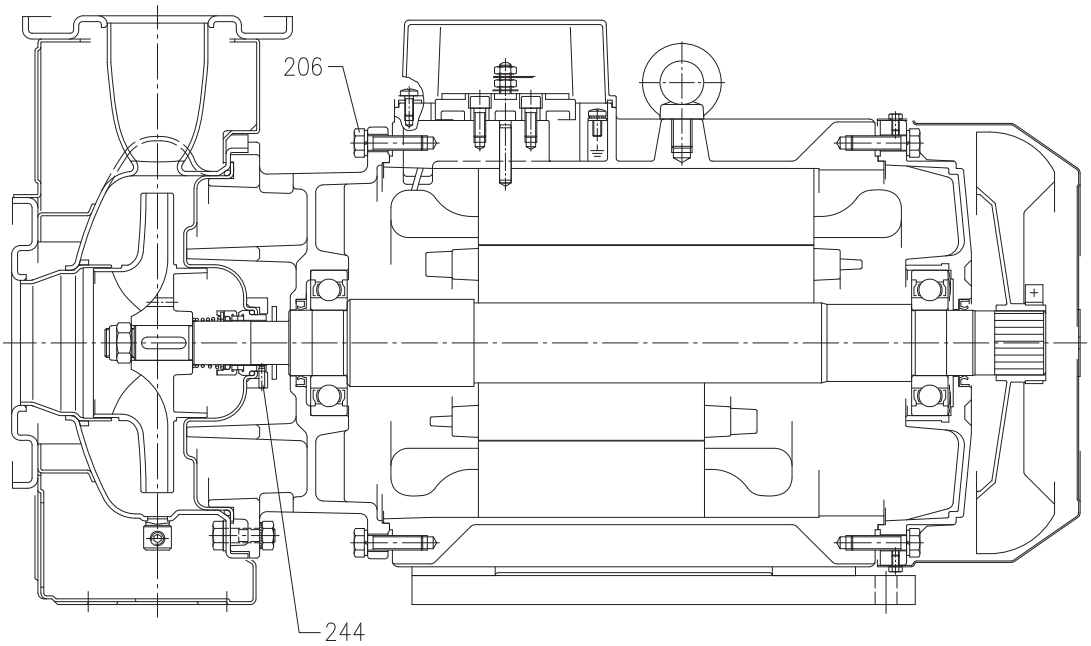
3(L)M 32, 40, 50, 65 - up to 11 kW SECTIONAL VIEW

2 Poles



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

2 Poles



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

MATERIALS TABLE

Ref.	Name	Material	
		3M	3LM
001	Pump body	EN 1.4301 (AISI 304)	EN 1.4404 (AISI 316L)
003	Motor support	Cast iron EN-GJL-200-EN 1561	
004	Seal housing disc	EN 1.4301 (AISI 304)	EN 1.4404 (AISI 316L)
006	Rotor 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	Carbon/Ceramic/NBR	SiC/SiC/FPM
012	Motor case	-	
013	Motor cover	Aluminium	
014	Fan	Polyamide	
015	Fan cover	Galvanised steel Fe P04	
016	Terminal box	-	
017	Terminal box cover	Aluminium (three phase version)	
018	Spray protector washer	NBR	-
019	Bearing (pump side)	-	
020	Bearing (motor side)	-	
021	Adjusting ring	Steel C70	
022	Tie-rod	Galvanised steel Fe 42	
	Screw	Galvanised Steel	
025	Drain plug	EN 1.4401 (AISI 316) / PTFE	
026	O-Ring	NBR	FPM
032	Key	EN 1.4401 (AISI 316)	
034	Impeller nut	EN 1.4301 (AISI 304)	EN 1.4404 (AISI 316L)
042	Foot	Aluminium / Galvanised Steel	
056	Terminal box gasket	NBR	
058	Cable gland	-	
072	Wear ring [1]	EN 1.4301 (AISI 304)	EN 1.4404 (AISI 316L)
073	Wear ring	EN 1.4301 (AISI 304)	EN 1.4404 (AISI 316L)
092	Sealing ring	-	-
093	Sealing ring	-	-
101	Seeger ring	Carbon steel TC 80	
200	Screw (pump body)	Stainless steel A270 class ISO 3506/1	
206	Support screw [2]	Galvanised Steel	
244	Plug [3]	-	EN 1.4301 (AISI 304)

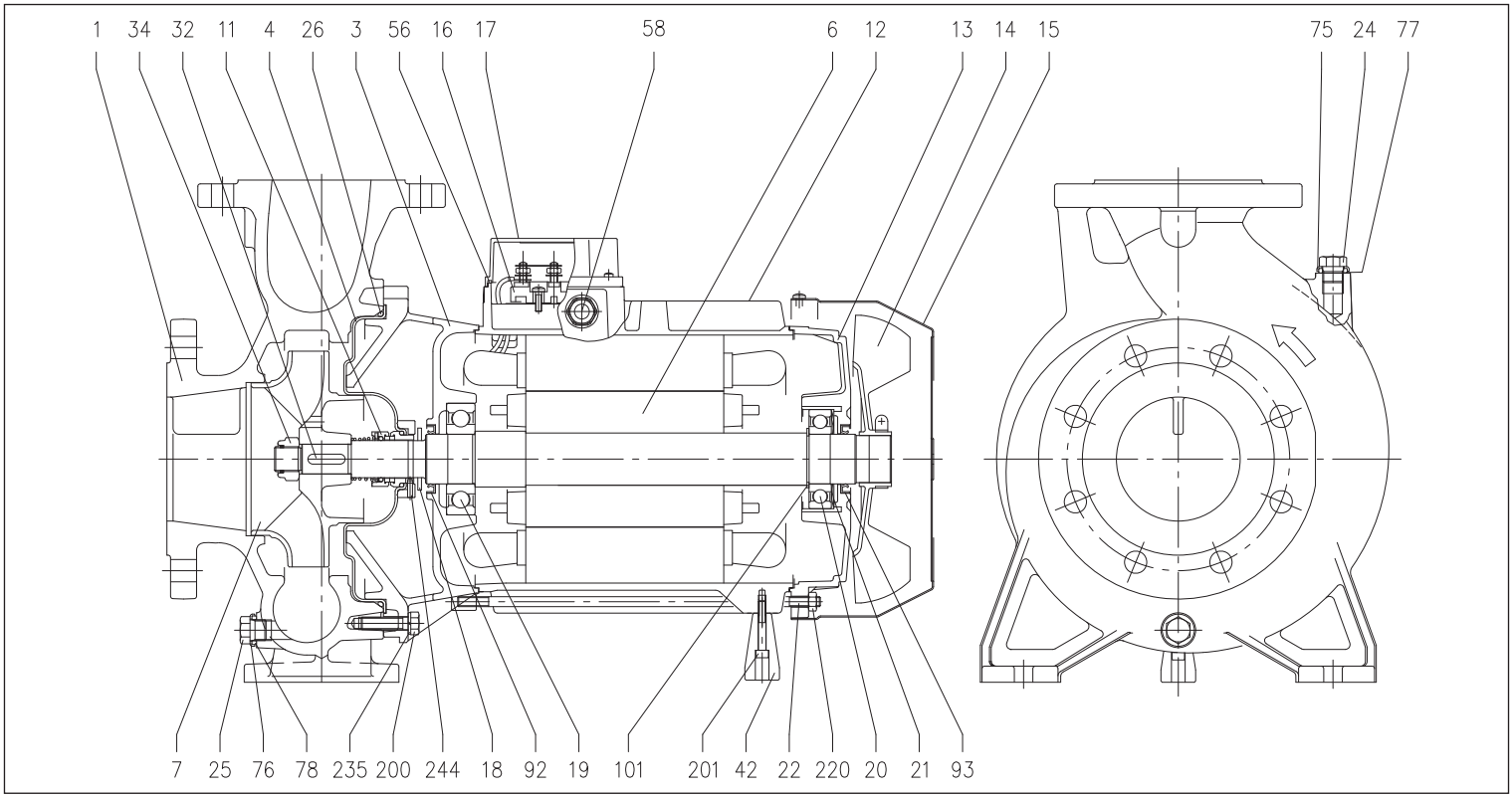
[1]= For 32-200/3, 32-200/4, 32-200/5.5, 40-200/5.5, 40-200/7.5, 40-200/11, 50-160/5.5, 50-160/7.5, 50-200/9.2, 50-200/11, 50-200/15
[2]= For 15 kW and over
[3]= For 65-160/15 and 65-200 only

3 - 3L SERIES

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

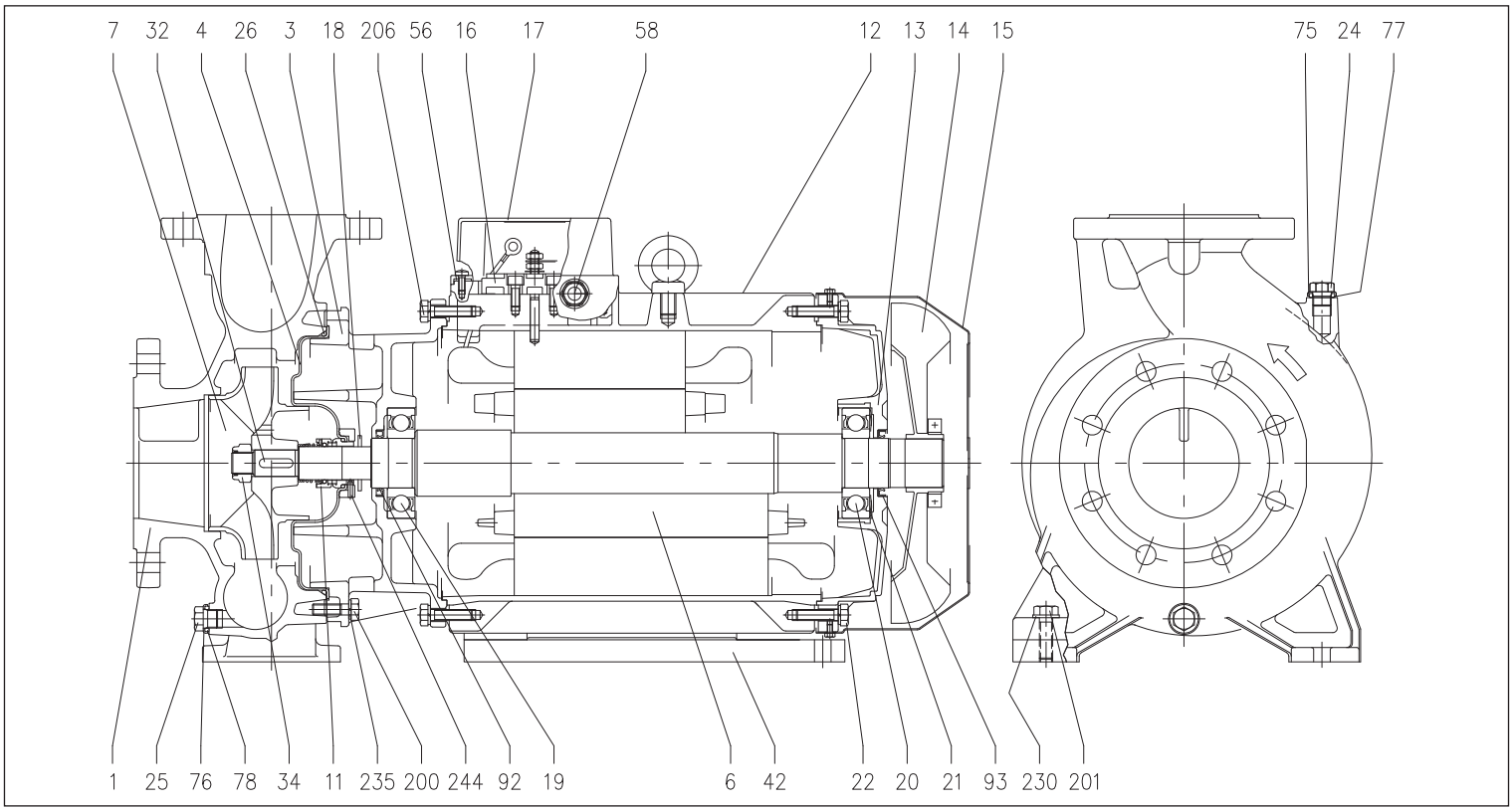
3LM 80-160/11 - 80-160/13 SECTIONAL VIEW

2 Poles



3LM 80-160/15 - 80-160/18.5 SECTIONAL VIEW

2 Poles



3 - 3L SERIES

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

MATERIALS TABLE

Ref.	Name	Material	Ref.	Name	Material
001	Pump body	EN 1.4401 (AISI 316)	032	Key	EN 1.4404 (AISI 316L)
003	Motor support	Cast iron EN-GJL-200-EN 1561	034	Impeller nut	Aluminium
004	Seal housing disc	EN 1.4404 (AISI 316L)	042	Foot	Aluminium
006	Rotor 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	SiC/SiC/FPM	075	Washer	EN 1.4404 (AISI 316L)
012	Motor case	-	076	Washer	EN 1.4404 (AISI 316L)
013	Motor cover	Aluminium	077	O-Ring	FPM
014	Fan	Polyamide	078	O-Ring	
015	Fan cover	Galvanised steel Fe P04	092	Sealing ring (11-13 kW, 15-18,5 kW)	-
016	Terminal box	-	093	Sealing ring (11-13 kW, 15-18,5 kW)	-
017	Terminal box cover	Aluminium	101	Seeger ring (for 11-13 kW only)	Carbon steel TC 80
018	Spray protector washer	NBR	200	Screw (pump body)	Stainless steel A2-70 class ISO 3506/1
019	Bearing (pump side)	-	201	Screw (11-13 kW, 15-18,5 kW)	Stainless steel A2-70 class ISO 3506/1
020	Bearing (motor side)	-	206	Motor support screw (for 15-18.5 kW only)	Galvanised Steel
021	Adjusting ring	Steel C70	220	Tie-rod nut (for 11-13 kW only)	Galvanised Steel
022	Tie-rod	Galvanised Steel	230	Washer (11-13 kW, 15-18,5 kW)	Galvanised Steel
024	Filler cap	EN 1.4404 (AISI 316L)	235	Washer	EN 1.4301(AISI 304)
025	Drain plug	EN 1.4404 (AISI 316L)	244	Plug [1]	EN 1.4301(AISI 304)
026	O-Ring	FPM			

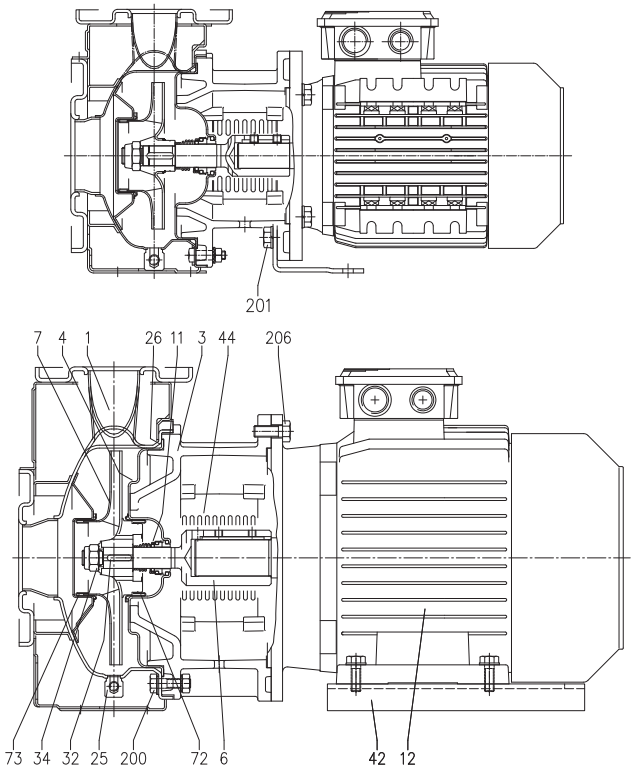
[1]= Not for H and E versions

3 - 3L SERIES

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

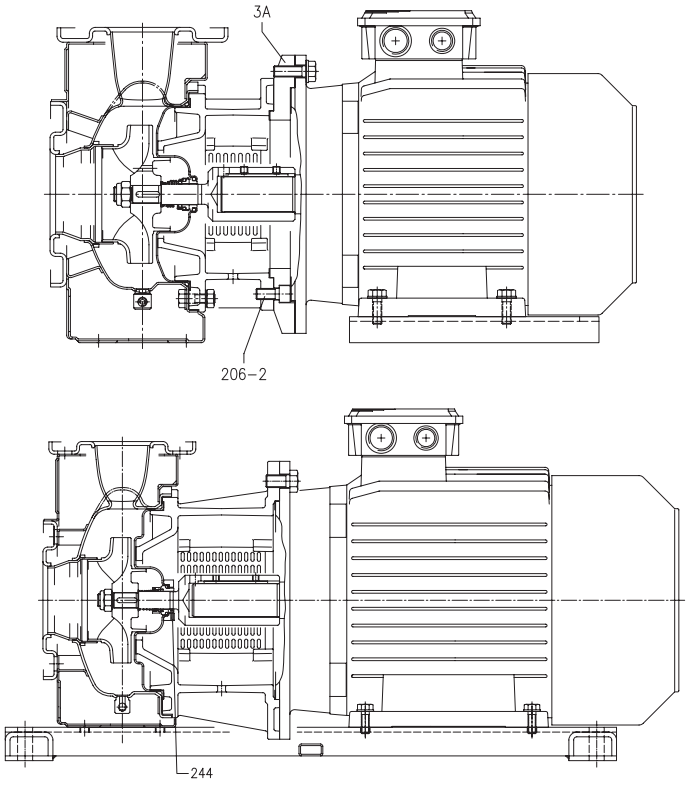
3(L)S 32, 40, 50 SECTIONAL VIEW

2 Poles



3(L)S 65 SECTIONAL VIEW

2 Poles



3 - 3L SERIES

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

MATERIALS TABLE

Ref.	Name	Material	
		3S	3LS
001	Pump body	EN 1.4301 (AISI 304)	EN 1.4404 (AISI 316L)
003	Motor support	Cast iron EN-GJL-200-EN 1561	
003A	Adapter ring [1]	Cast iron EN-GJL-200-EN 1561	
004	Seal housing disc	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	SiC/SiC/FPM
012	Motor	-	
025	Drain plug	EN 1.4401 (AISI 316) / PTFE	
026	O-Ring	NBR	FPM
032	Key	EN 1.4401 (AISI 316)	
034	Impeller nut	EN 1.4301 (AISI 304)	EN 1.4404 (AISI 316L)
042	Foot	Aluminium / Galvanised Steel	
044	Support protection	EN 1.4301 (AISI 304)	
072	Wear ring [2]	EN 1.4301 (AISI 304)	EN 1.4404 (AISI 316L)
073	Wear ring (not for 65)	EN 1.4301 (AISI 304)	EN 1.4404 (AISI 316L)
200	Screw (pump body)	Stainless steel A270 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)

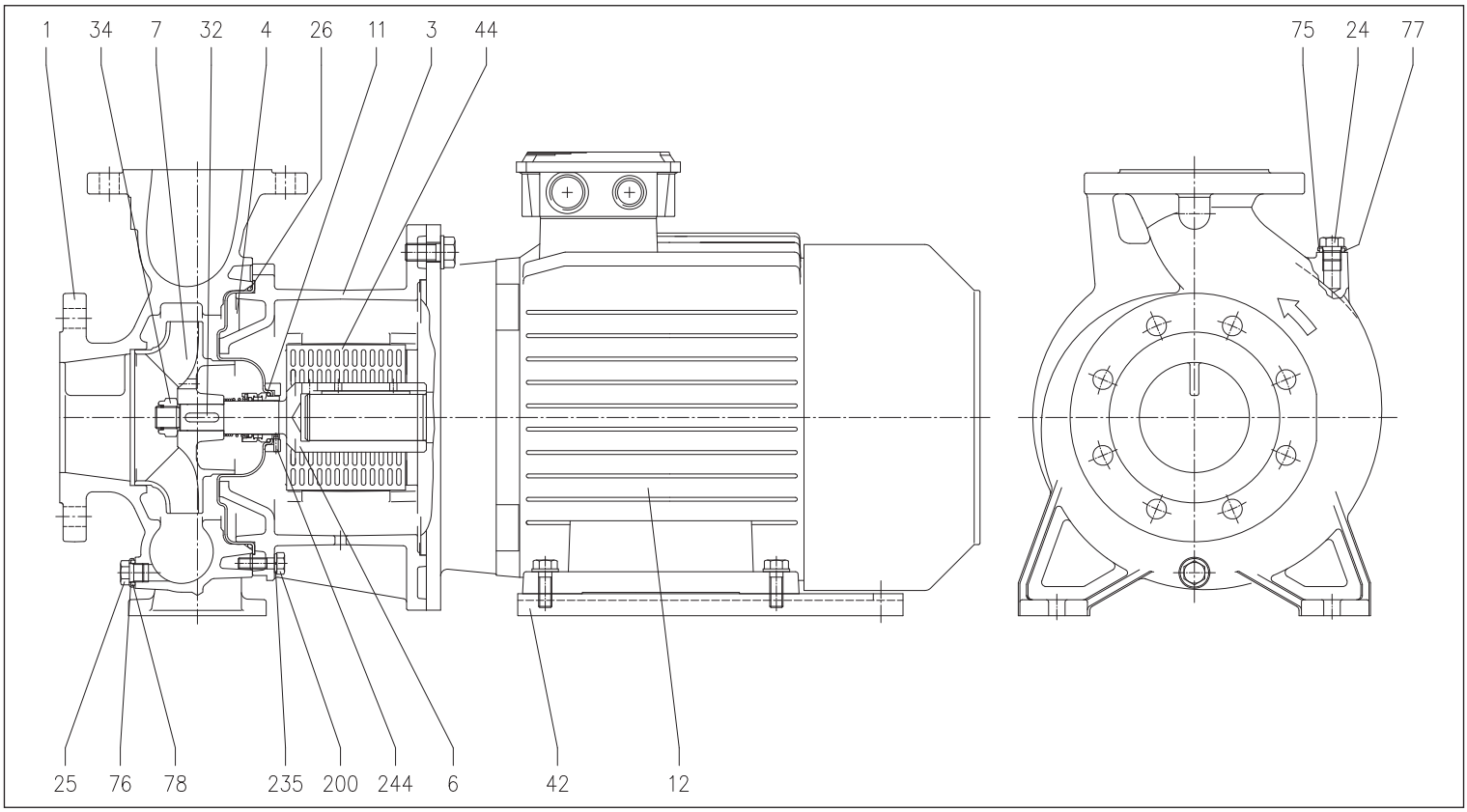
[1]= For the 65-125/5.5 and 65-125/7.5 version only
[2]= For the 32-200, 40-200, 50-160, 50-200 version only
[3]= For the 65-160/15, 65-200 version only

3 - 3L SERIES

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

3LS 80-160 SECTIONAL VIEW

2 Poles



MATERIALS TABLE

Ref.	Name	Material	Ref.	Name	Material
001	Pump body	EN 1.4401 (AISI 316)	034	Impeller nut	EN 1.4404 (AISI 316L)
003	Motor support	Cast iron EN-GJL-200-EN 1561	042	Foot	Aluminium
004	Seal housing disc	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	SiC/SiC/FPM	077	O-Ring	FPM
012	Motor	-	078	O-Ring	
024	Filler cap	EN 1.4404 (AISI 316L)	200	Screw (pump body)	Stainless steel A2-70 class ISO 3506/1
025	Drain plug	EN 1.4404 (AISI 316L)	235	Washer	EN 1.4301(AISI 304)
026	O-Ring	FPM	244	Plug [1]	EN 1.4301(AISI 304)
032	Key	EN 1.4401 (AISI 316)			

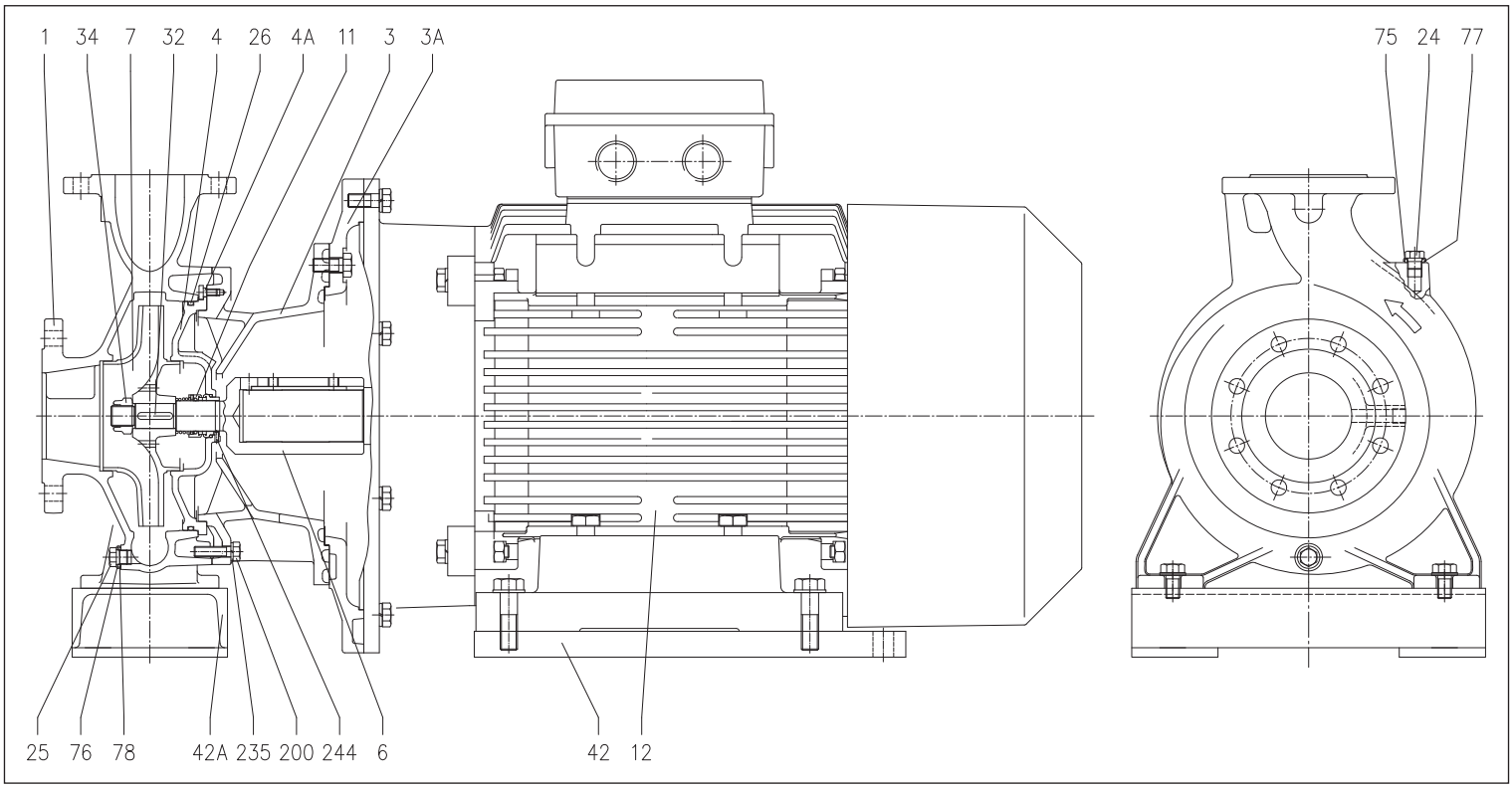
[1]= Not for H and E versions

3 - 3L SERIES

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

3LS 65-250, 80 SECTIONAL VIEW

2 Poles



MATERIALS TABLE

Ref.	Name		Material	Ref.	Name		Material
001	Pump body		EN 1.4401 (AISI 316)	032	Key	65-250 d=24 mm 80-200 d=24 mm 80-250 d=29 mm	EN 1.4401 (AISI 316)
003	Motor support		Cast iron EN-GJL-200-EN 1561				
003A	Adapter ring		Cast iron EN-GJL-200-EN 1561				
004	Seal housing disc		EN 1.4401 (AISI 316)	034	Impeller nut	65-250 d=24 mm 80-200 d=24 mm 80-250 d=29 mm	EN 1.4404 (AISI 316L)
004A	Seal housing disc screw		EN 1.4301(AISI 304)				
006	Joint	65-250 d=24 mm	EN 1.4462 (duplex steel) for 30-37 kW	042	Motor foot		Aluminium
			EN 1.4404 (AISI 316L) per 22 kW	042A	Pump foot		Aluminium/galvanised steel (for 80-250/55 only)
		80-200 d=24 mm	EN 1.4462 (duplex steel) for 30-37 kW	075	Washer		EN 1.4404 (AISI 316L)
		80-250 d=29 mm	EN 1.4462 (duplex steel)	076	Washer		
007	Impeller		EN 1.4401 (AISI 316)	077	O-Ring		FPM
011	Mechanical seal		SiC/SiC/FPM	078	O-Ring		
012	Motor		-	200	Screw (pump body)		Stainless steel A2-70 class ISO 3506/1
024	Filler cap		EN 1.4404 (AISI 316L)	235	Washer		EN 1.4301(AISI 304)
025	Drain plug		EN 1.4404 (AISI 316L)	244	Plug [1]		EN 1.4301(AISI 304)
026	O-Ring		FPM				

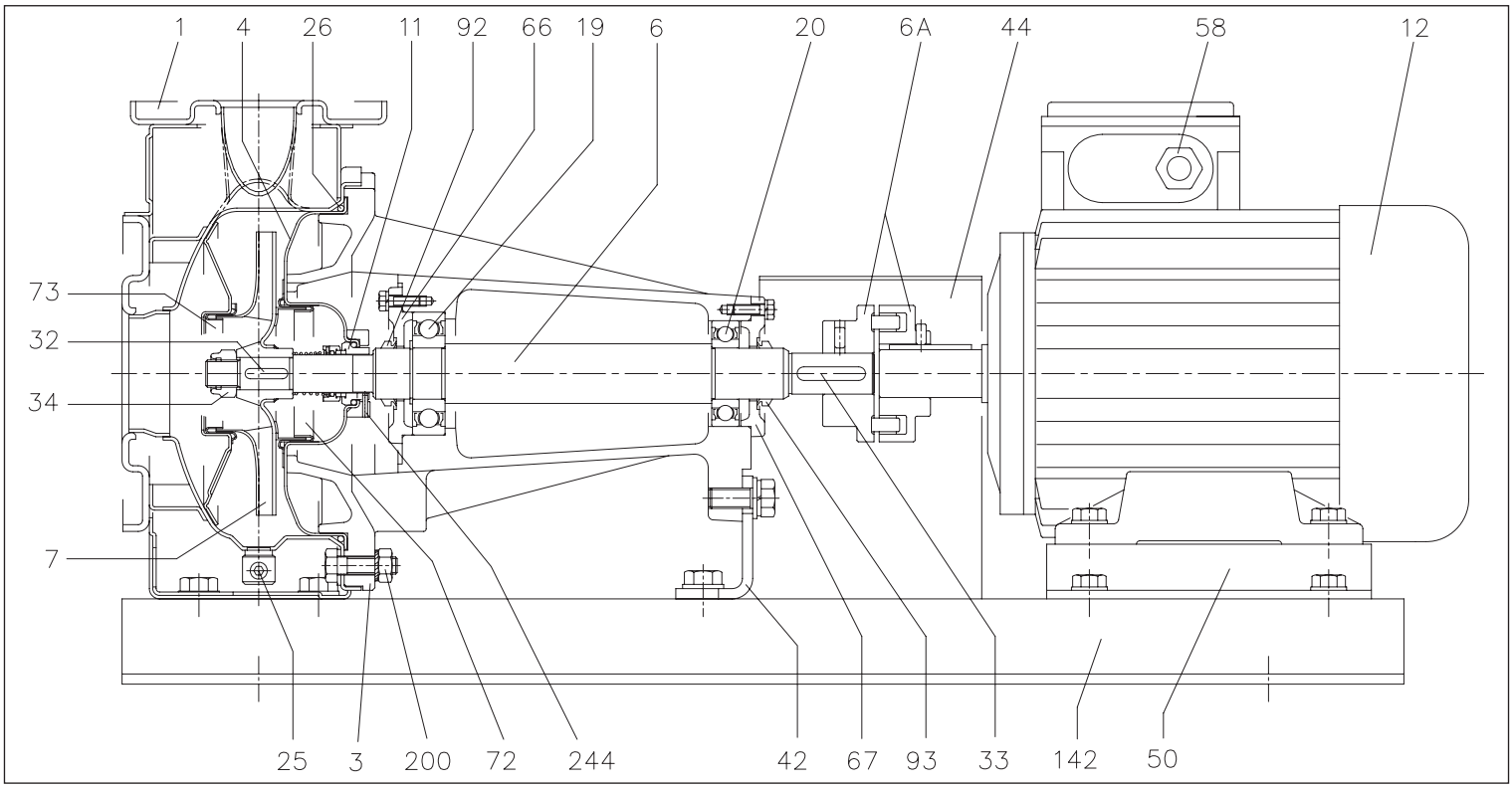
[1]= Not for H and E versions

3 - 3L SERIES

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

SECTIONAL VIEW 3(L)P 32, 40, 50, 65

2 Poles



MATERIALS TABLE

Ref.	Name		Material 3P	Material 3LP
001	Pump body		EN 1.4301 (AISI 304)	EN 1.4404 (AISI 316L)
003	Motor support		Cast iron EN-GJL-200-EN 1561	
004	Seal housing disc		EN 1.4301 (AISI 304)	EN 1.4404 (AISI 316L)
006	Shaft - Part in contact with the liquid Seal housing disc		EN 1.4301 (AISI 304)	EN 1.4404 (AISI 316L)
006A	Joint		Cast iron EN-GJL-250-EN 1561	
007	Impeller	32, 40, 50	EN 1.4301 (AISI 304)	EN 1.4404 (AISI 316L)
		65-125/160/200	EN 1.4401 (AISI 316)	
011	Mechanical seal		Carbon/Ceramic/NBR	SiC/SiC/FPM
012	Motor		-	
019	Bearing (pump side)		-	
020	Bearing (motor side)		-	
025	Drain plug		EN 1.4401 (AISI 316) / PTFE	
026	O-Ring		NBR	FPM
032	Key		EN 1.4401 (AISI 316)	
033	Key		C 40	
034	Impeller nut		EN 1.4301 (AISI 304)	EN 1.4404 (AISI 316L)
042	Foot		Galvanised steel Fe 37	
044	Joint cover		Galvanised steel Fe 37	
050	Foot		Aluminium / Galvanised Steel	
058	Cable gland		-	
066	Support cover		Cast iron EN-GJL-250-EN 1561	
067	Support cover		Cast iron EN-GJL-250-EN 1561	
072	Wear ring [1]		EN 1.4301 (AISI 304)	EN 1.4404 (AISI 316L)
073	Wear ring	not for the 65	EN 1.4301 (AISI 304)	EN 1.4404 (AISI 316L)
092	Ring V		-	
093	Ring V		-	
142	Base		Galvanised steel Fe 37	
200	Screw (pump body)		Stainless steel A270 class ISO 3506/1	
244	Plug [2]		-	EN 1.4301 (AISI 304)

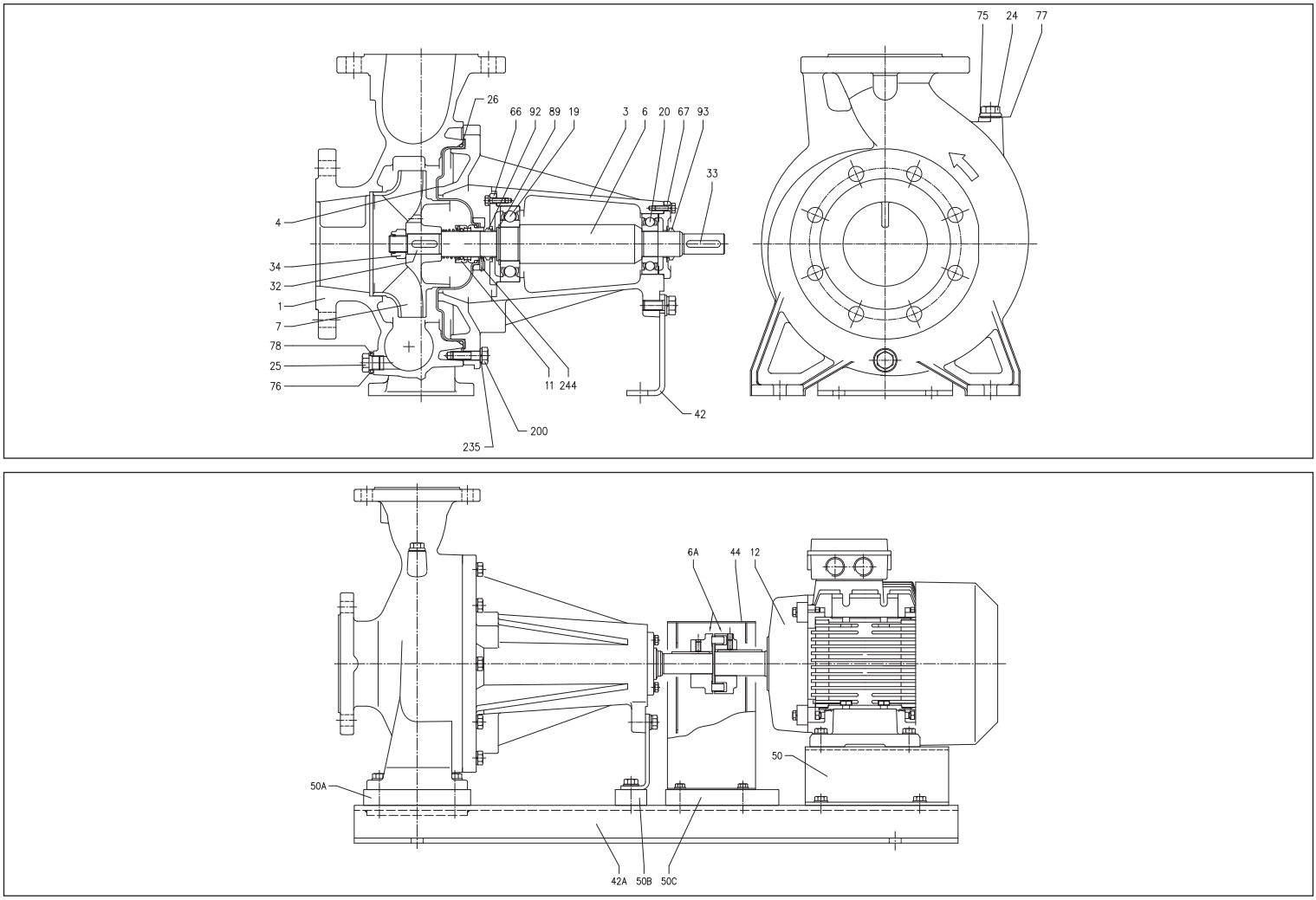
[1]= Only for 32-200/3, 32-200/4, 32-200/5.5, 40-200/5.5, 40-200/5.5, 40-200/7.5, 40-200/11, 50-160/5.5, 50-160/7.5, 50-200/9.2, 50-200/11, 50-200/15 versions
[2]= For 65-160/15 e 65-200 only

3 - 3L SERIES

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

3LP 80-160 SECTIONAL VIEW

2 Poles



MATERIALS TABLE

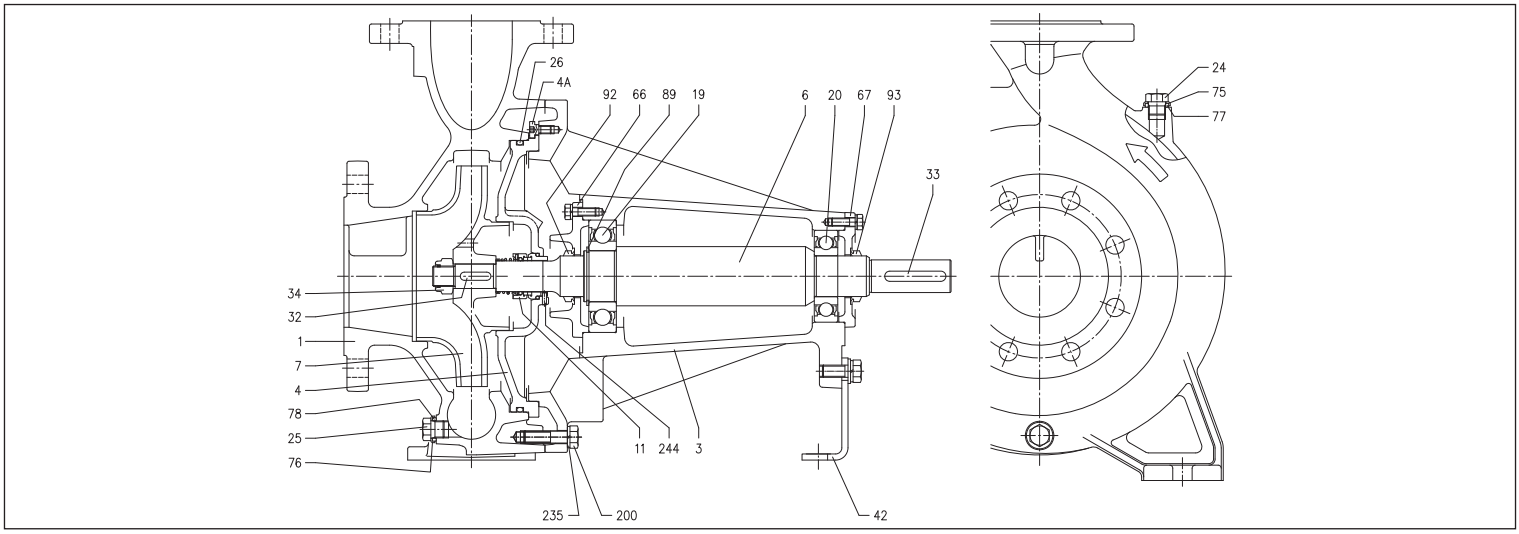
Ref.	Name	Material	Ref.	Name	Material
001	Pump body	EN 1.4401 (AISI 316)	050	Rest	Aluminium
003	Motor support	Cast iron EN-GJL-200-EN 1561	050A	Pump spacer	-
004	Seal housing disc	EN 1.4404 (AISI 316L)	050B	Pump spacer	-
006	Shaft	EN 1.4404 (AISI316L) Part in contact with the liquid	050C	Joint cover spacer	-
006A	Joint	Cast iron EN-GJL-250-EN 1561	066	Support cover	Cast iron EN-GJL-200-EN 1561
007	Impeller	EN 1.4401 (AISI 316)	067	Support cover	Cast iron EN-GJL-200-EN 1561
011	Mechanical seal	SiC/SiC/FPM	075	Washer	EN 1.4404 (AISI 316L)
012	Motor	-	076	Washer	
019	Bearing (pump side)	-	077	O-Ring	FPM
020	Bearing (motor side)	-	078	O-Ring	
024	Filler cap	EN 1.4404 (AISI 316L)	089	Seeger ring	Carbon steel TC 80
025	Drain plug	EN 1.4404 (AISI 316L)	092	Sealing ring	-
026	O-Ring	FPM	093	Sealing ring	
032	Key	EN 1.4401 (AISI 316)	200	Screw (pump body)	Stainless steel A270 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)
042	Foot	Galvanised Steel			
042A	Base	Galvanised Steel			
044	Joint cover	Galvanised Steel			

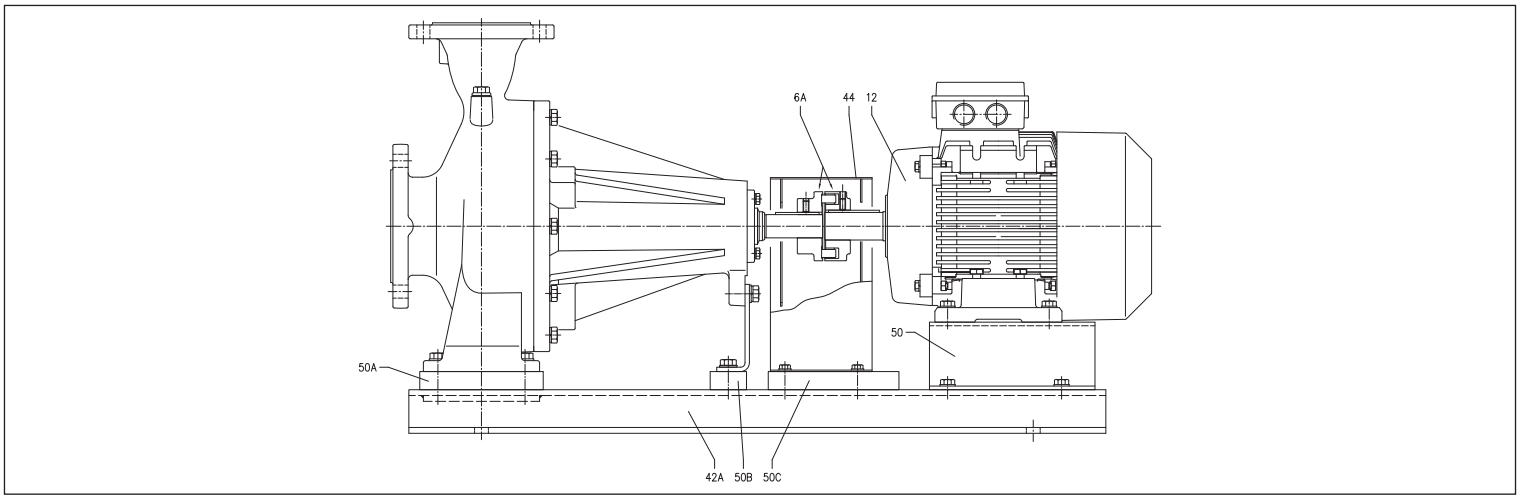
[1]= Not for H and E versions

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

3LP 65-250, 80 SECTIONAL VIEW

2 Poles





MATERIALS TABLE

Ref.	Name	Material	Ref.	Name	Material
001	Pump body	EN 1.4401 (AISI 316)	042	Foot	Galvanised Steel
003	Motor support	Cast iron EN-GJL-200-EN 1561	042A	Base	Galvanised Steel
004	Seal housing disc	EN 1.4401 (AISI 316)	044	Joint cover	Galvanised Steel
004A	Seal housing disc screw	EN 1.4301(AISI 304)	050	Foot (for 35-250/22 kW only)	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	SiC/SiC/FPM	066	Support cover	Cast iron EN-GJL-200-EN 1561
012	Motor	-	067	Support 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	Filler cap	EN 1.4404 (AISI 316L)	077	O-Ring	FPM
025	Drain plug	EN 1.4404 (AISI 316L)	078	O-Ring	
026	O-Ring	FPM	089	Seeger ring	Carbon steel TC 80
032	Key 65-250 d=24 mm 80-200 d=24 mm 80-250 d=29 mm	EN 1.4401 (AISI 316)	092	Sealing ring	-
			093	Sealing ring	-
			200	Screw (pump body)	Stainless steel A270 class ISO 3506/1
033	Key	C 40	235	Washer	EN 1.4301 (AISI 304)
034	Impeller nut 65-250 d=24 mm 80-200 d=24 mm 80-250 d=29 mm	EN 1.4404 (AISI 316L)	244	Plug [1]	EN 1.4301 (AISI 304)

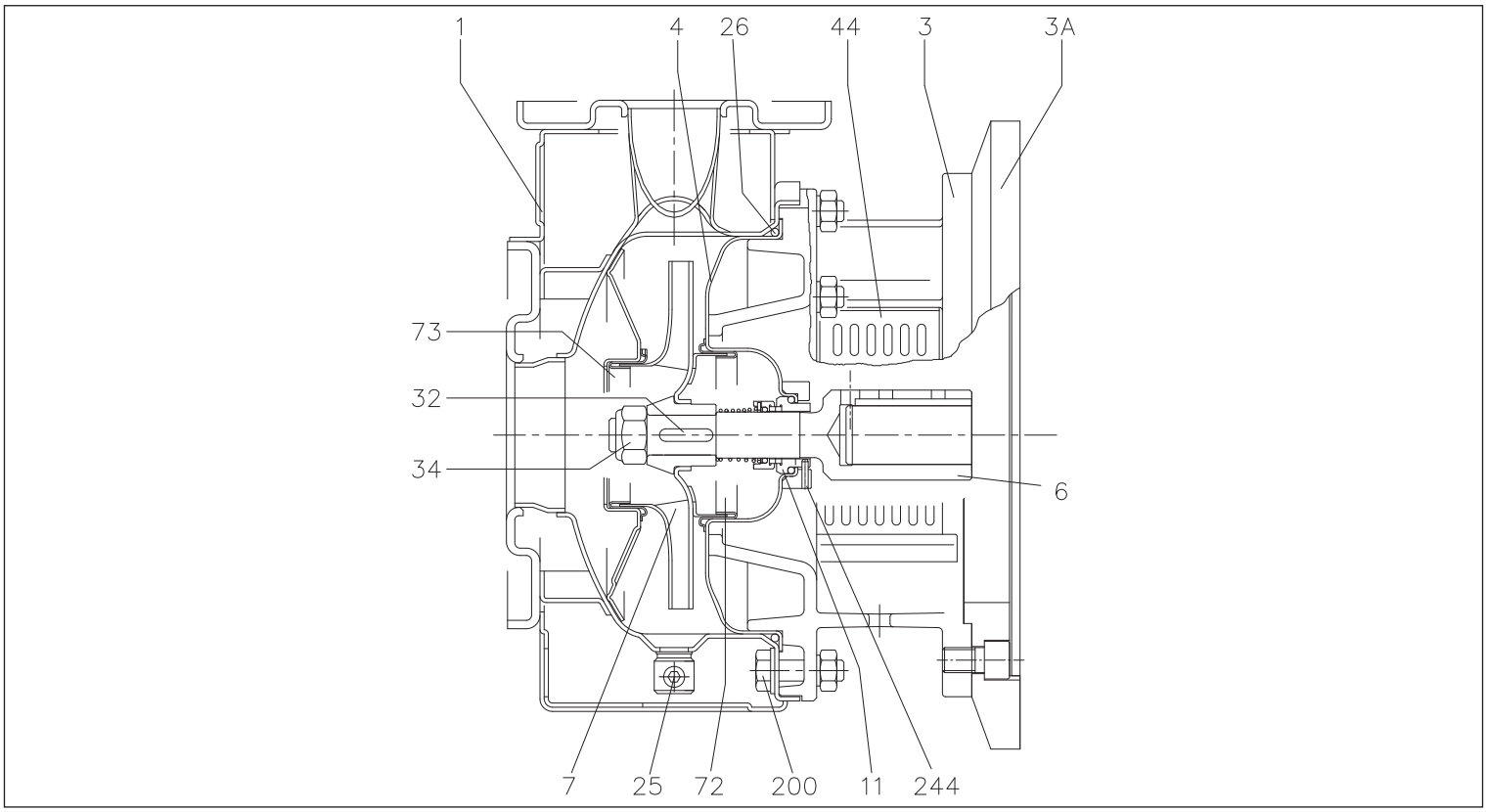
[1]= Not for H and E versions

3 - 3L SERIES

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

3(.)SF 32, 40, 50, 65 SECTIONAL VIEW

2 Poles



MATERIALS TABLE

Ref.	Name		Material 3SF	Material 3LSF
001	Pump body		EN 1.4301 (AISI 304)	EN 1.4404 (AISI 316L)
003	Motor support		Cast iron EN-GJL-200-EN 1561	
003A	Adapter ring [1]		Cast iron EN-GJL-200-EN 1561	
004	Seal housing disc		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	32, 40, 50	EN 1.4301 (AISI 304)	EN 1.4404 (AISI 316L)
		65-125/160/200	EN 1.4401 (AISI 316)	
011	Mechanical seal		Carbon/Ceramic/NBR	SiC/SiC/FPM
025	Drain plug		EN 1.4401 (AISI 316) / PTFE	
026	O-Ring		NBR	FPM
032	Key		EN 1.4301 (AISI 304)	EN 1.4401 (AISI 316)
034	Impeller nut		EN 1.4301 (AISI 304)	EN 1.4404 (AISI 316L)
044	Support protection		EN 1.4301 (AISI 304)	
072	Wear ring [2]		EN 1.4301 (AISI 304)	EN 1.4404 (AISI 316L)
073	Wear ring	not for the 65	EN 1.4301 (AISI 304)	EN 1.4404 (AISI 316L)
200	Screw (pump body)	32-125, 40-125	Stainless steel A270 class ISO 3506/1	
		40-160, 40-200, 50-125, 50-160, 50-200, 65-125, 65-160, 65-200		
244	Plug [3]		-	EN 1.4301 (AISI 304)

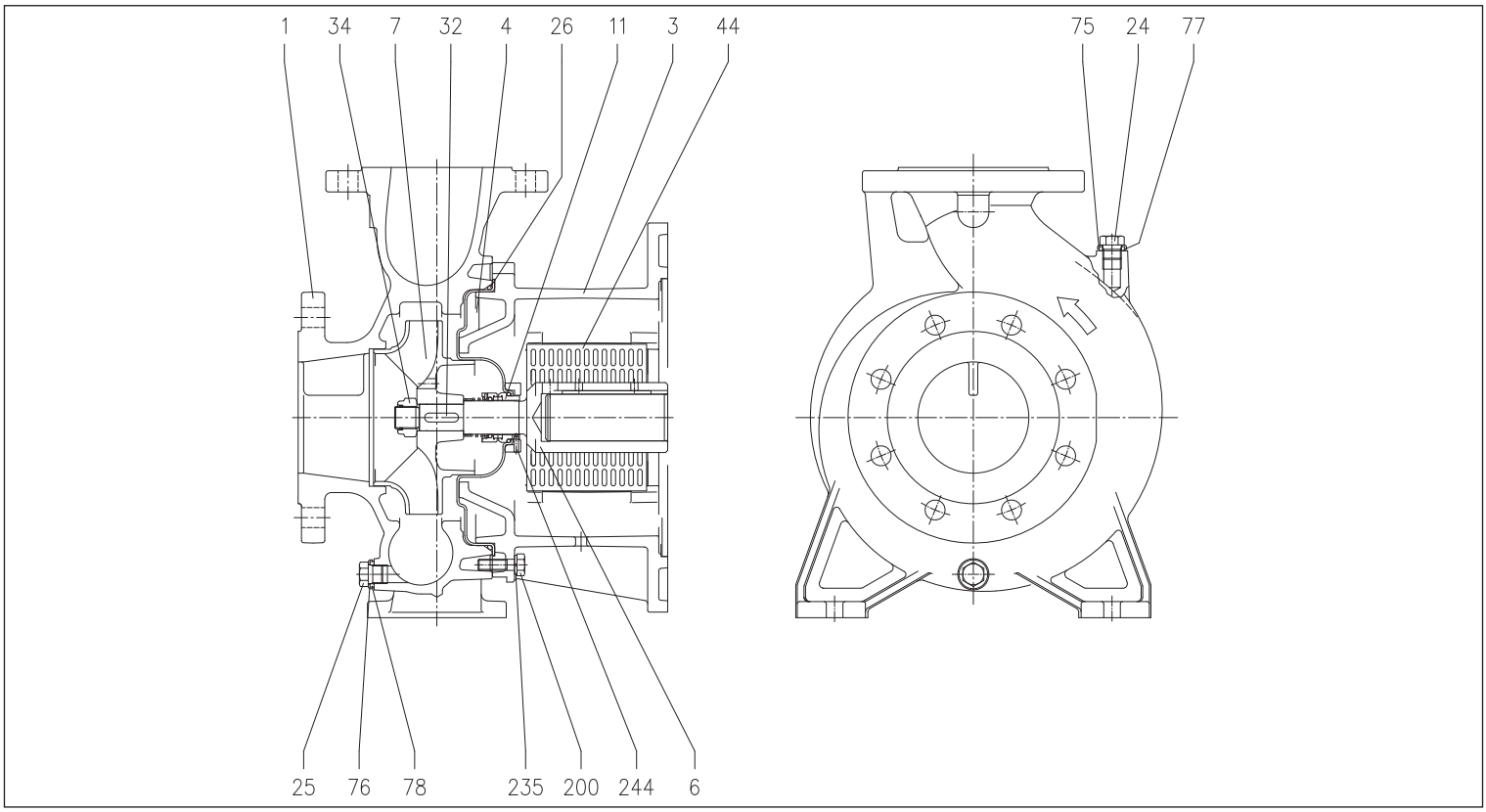
[1]= For 65-125/5.5 and 65-125/7.5 only
[2]= For the 32-200, 40-200, 50-160 , 50-200 versions
[3]= For 65-160/15 and 65-200 only

3 - 3L SERIES

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

3LSF 80-160 SECTIONAL VIEW

2 Poles



MATERIALS TABLE

Ref.	Name	Material	Ref.	Name	Material
001	Pump body	EN 1.4401 (AISI 316)	034	Impeller nut	EN 1.4404 (AISI 316L)
003	Motor support	Cast iron EN-GJL-200-EN 1561	044	Support protection	EN 1.4301 (AISI 304)
004	Seal housing disc	EN 1.4404 (AISI 316L)	075	Washer	EN 1.4404 (AISI 316L)
006	Joint	EN 1.4404 (AISI 316L)	076	Washer	
007	Impeller	EN 1.4401 (AISI 316)	077	O-Ring	FPM
011	Mechanical seal	SiC/SiC/FPM	078	O-Ring	
024	Filler cap	EN 1.4404 (AISI 316L)	200	Screw (pump body)	Stainless steel A2-70 class ISO 3506/1
025	Drain plug	EN 1.4404 (AISI 316L)	235	Washer	EN 1.4301(AISI 304)
026	O-Ring	FPM	244	Plug [1]	EN 1.4301(AISI 304)
032	Key	EN 1.4401 (AISI 316)			

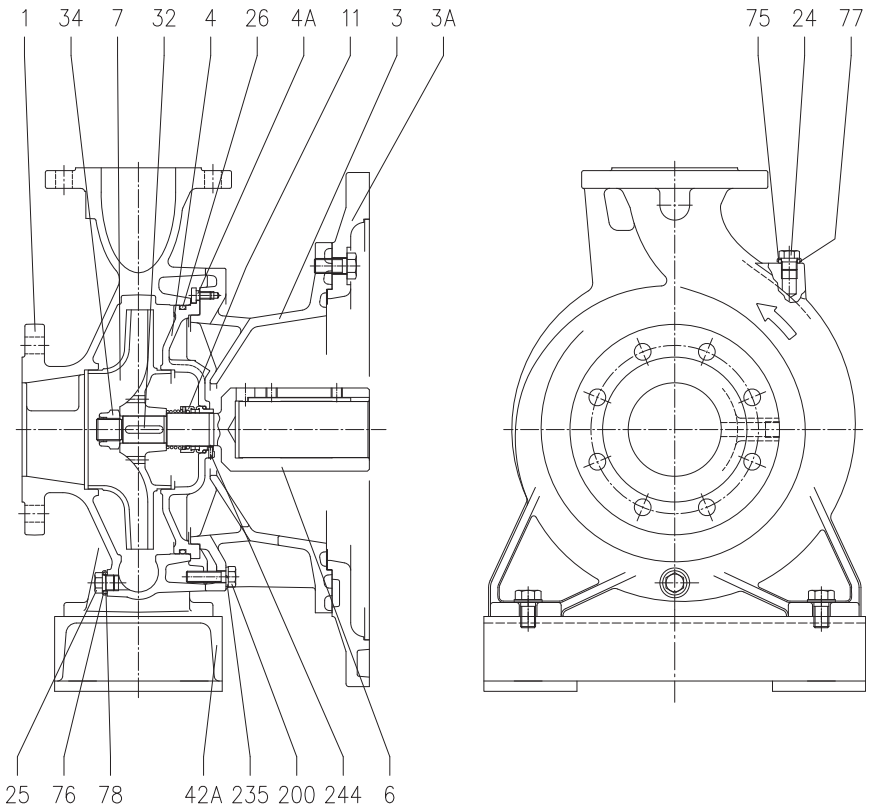
[1]= Not for H and E versions

3 - 3L SERIES

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

3LSF 65-250, 80 SECTIONAL VIEW

2 Poles



MATERIALS TABLE

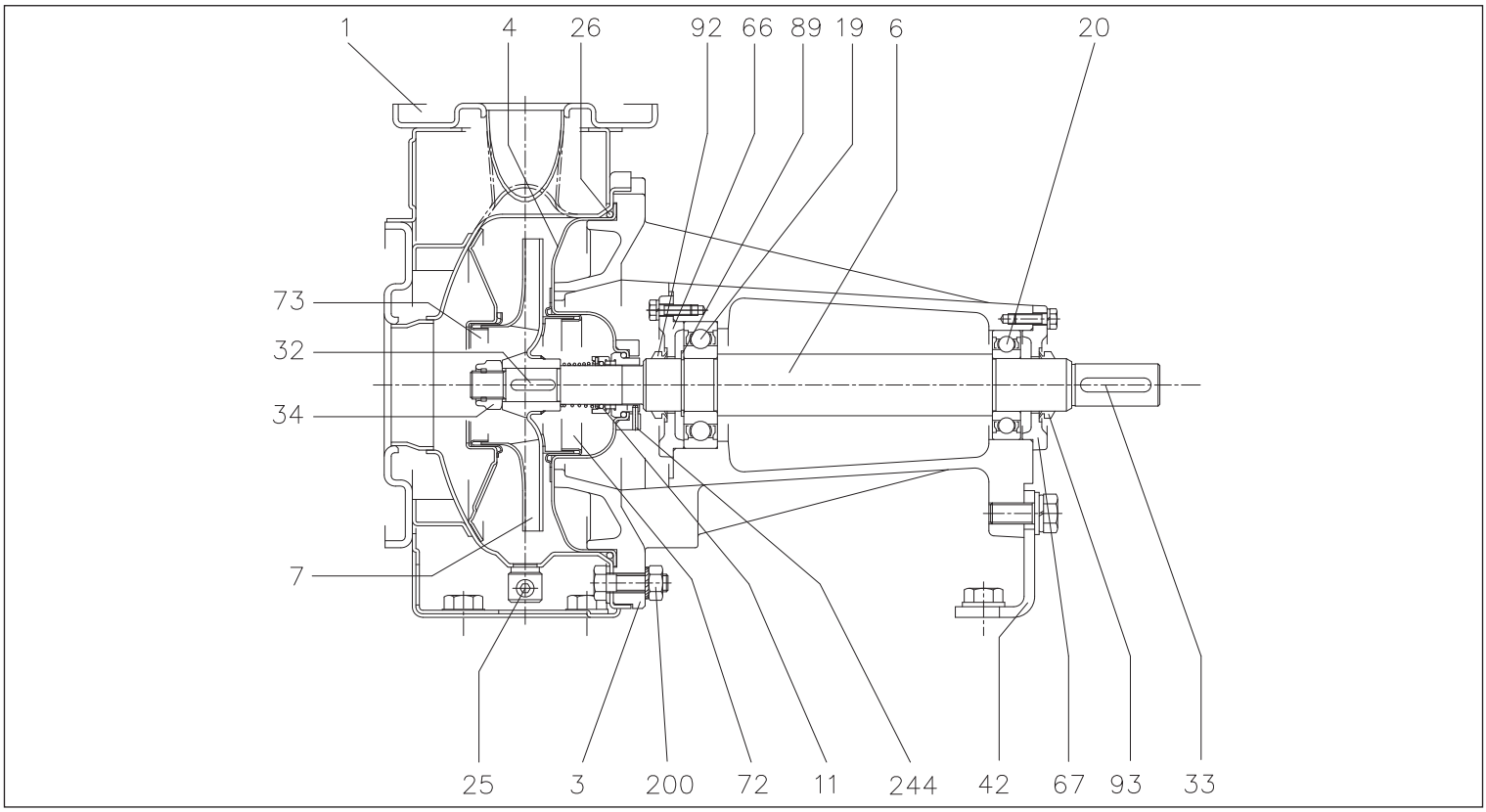
Ref.	Name		Material	Ref.	Name		Material
001	Pump body		EN 1.4401 (AISI 316)	026	O-Ring		FPM
003	Motor support		Cast iron EN-GJL-200-EN 1561				
003A	Adapter ring		Cast iron EN-GJL-200-EN 1561	032	Key	65-250 d=24 mm 80-200 d=24 mm	EN 1.4401 (AISI 316)
004	Seal housing disc		EN 1.4401 (AISI 316)			80-250 d=29 mm	
004A	Seal housing disc screw		EN 1.4301(AISI 304)				
006	Joint	65-250 d=24 mm	EN 1.4404 (AISI 316L) per 22 kW EN 1.4462 (duplex steel) for 30-37 kW	034	Impeller nut	65-250 d=24 mm 80-200 d=24 mm	EN 1.4404 (AISI 316L)
		80-200 d=24 mm	EN 1.4404 (AISI 316L) per 22 kW EN 1.4462 (duplex steel)			80-250 d=29 mm	
		80-250 d=29 mm	EN 1.4462 (duplex steel)	042A	Pump spacer		Aluminium/galvanised steel (for 80-250/55 only)
007	Impeller		EN 1.4401 (AISI 316)	075	Washer		EN 1.4404 (AISI 316L)
				076	Washer		
011	Mechanical seal		SiC/SiC/FPM	077	O-Ring		FPM
				078	O-Ring		
				200	Screw (pump body)		Stainless steel A2-70 class ISO 3506/1
024	Filler cap		EN 1.4404 (AISI 316L)	235	Washer		EN 1.4301(AISI 304)
025	Drain plug		EN 1.4404 (AISI 316L)	244	Plug [1]		EN 1.4301(AISI 304)

[1]= Not for H and E versions

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

3(L)P 32, 40, 50, 65 SECTIONAL VIEW

2 Poles



MATERIALS TABLE

Ref.	Name	Material 3P	Material 3LP
001	Pump body	EN 1.4301 (AISI 304)	EN 1.4404 (AISI 316L)
003	Motor support	Cast iron EN-GJL-200-EN 1561	
004	Seal housing disc	EN 1.4301 (AISI 304)	EN 1.4404 (AISI 316L)
006	Shaft - Part in contact with the liquid Seal housing disc	EN 1.4301 (AISI 304)	EN 1.4404 (AISI 316L)
007	Impeller 32, 40, 50	EN 1.4301 (AISI 304)	EN 1.4404 (AISI 316L)
	Impeller 65-125/160/200	EN 1.4401 (AISI 316)	
011	Mechanical seal	Carbon/Ceramic/NBR	SiC/SiC/FPM
019	Bearing (pump side)	-	
020	Bearing (motor side)	-	
025	Drain plug	EN 1.4401 (AISI 316) / PTFE	
026	O-Ring	NBR	FPM
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	Foot	Galvanised steel Fe 37	
066	Support cover	Cast iron EN-GJL-250-EN 1561	
067	Support cover	Cast iron EN-GJL-250-EN 1561	
072	Wear ring [1]	EN 1.4301 (AISI 304)	EN 1.4404 (AISI 316L)
073	Wear ring not for the 65	EN 1.4301 (AISI 304)	EN 1.4404 (AISI 316L)
089	Seeger ring	Carbon steel TC 80	
092	Sealing ring	-	
093	Sealing ring	-	
200	Screw (pump body)	Stainless steel A270 class ISO 3506/1	
244	Plug [2]	-	EN 1.4301 (AISI 304)

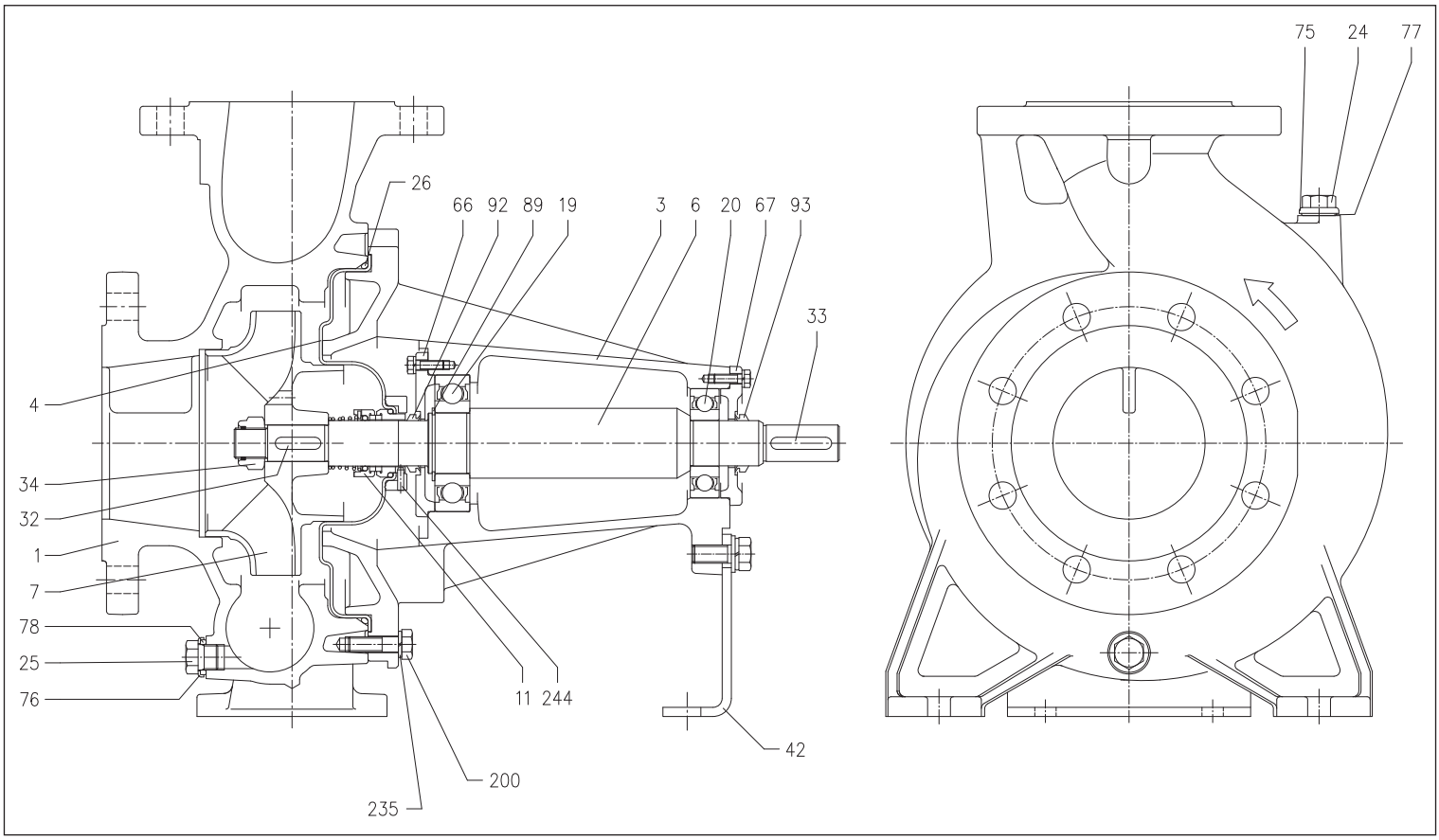
[1]= Only for 32-200/3, 32-200/4, 32-200/5.5, 40-200/5.5, 40-200/5.5, 40-200/7.5, 40-200/11, 50-160/5.5, 50-160/7.5, 50-200/9.2, 50-200/11, 50-200/15 versions
[2]= For 65-160/15 e 65-200 only

3 - 3L SERIES

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

3LP 80-160 SECTIONAL VIEW

2 Poles



MATERIALS TABLE

Ref.	Name	Material	Ref.	Name	Material
001	Pump body	EN 1.4401 (AISI 316)	034	Impeller nut	EN 1.4404 (AISI 316L)
003	Motor support	Cast iron EN-GJL-200-EN 1561	042	Foot	Galvanised Steel
004	Seal housing disc	EN 1.4404 (AISI 316L)	066	Support cover	Cast iron EN-GJL-200-EN 1561
006	Shaft	EN 1.4404 (AISI316L) Part in contact with the liquid	067	Support cover	Cast iron EN-GJL-200-EN 1561
007	Impeller	EN 1.4401 (AISI 316)	075	Washer	EN 1.4404 (AISI 316L)
011	Mechanical seal	SiC/SiC/FPM	076	Washer	
			077	O-Ring	FPM
			078	O-Ring	
019	Bearing (pump side)	-	089	Seeger ring	Carbon steel TC 80
020	Bearing (motor side)	-	092	Sealing ring	-
024	Filler cap	EN 1.4404 (AISI 316L)	093	Sealing ring	
025	Drain plug	EN 1.4404 (AISI 316L)	200	Body screw	Stainless steel A270 class ISO 3506/1
026	O-Ring	FPM	235	Washer	EN 1.4301(AISI 304)
032	Key	EN 1.4401 (AISI 316)	244	Plug [1]	EN 1.4301(AISI 304)
033	Key	C 40			

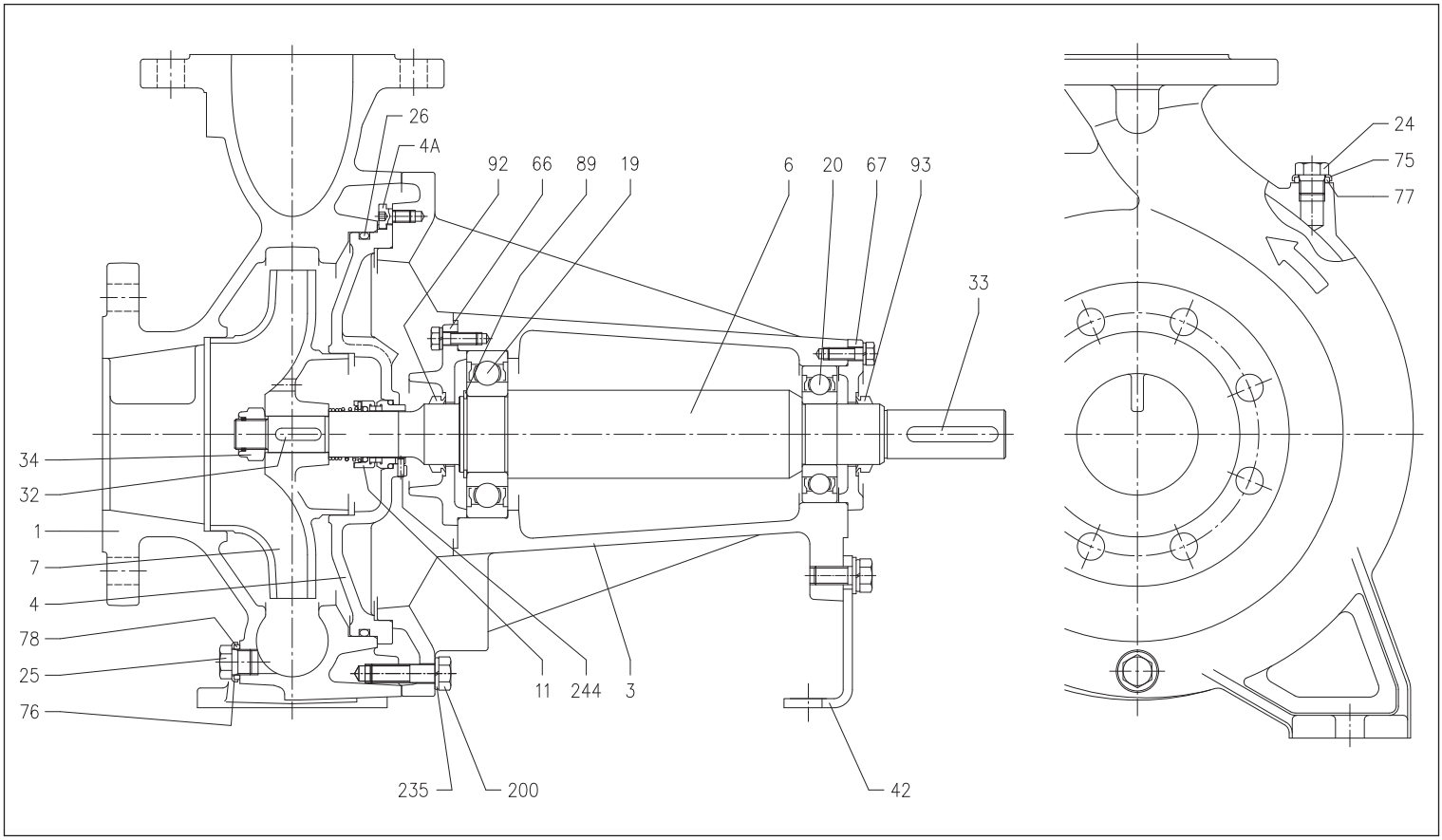
[1]= Not for H and E versions

3 - 3L SERIES

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

3LPF 65-250, 80 SECTIONAL VIEW

2 Poles



MATERIALS TABLE

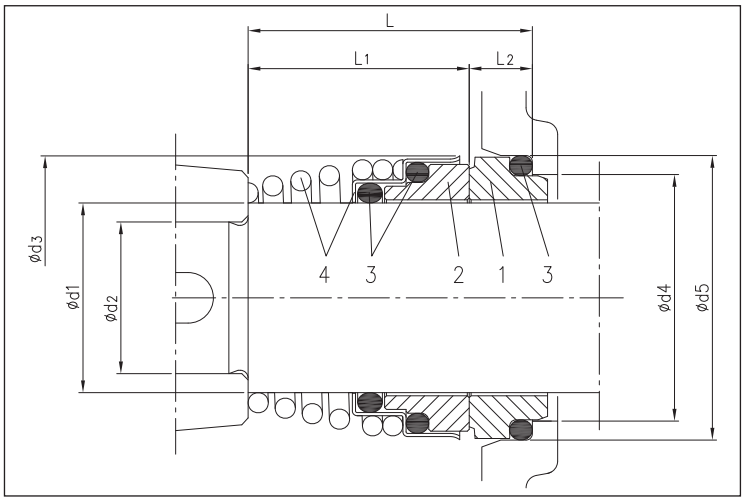
Ref.	Name	Material	Ref.	Name	Material
001	Pump body	EN 1.4401 (AISI 316)	033	Key	C 40
003	Motor support	Cast iron EN-GJL-200-EN 1561	034	Impeller nut 65-250 d=24 mm 80-200 d=24 mm 80-250 d=29 mm	EN 1.4404 (AISI 316L)
004	Seal housing disc	EN 1.4401 (AISI 316)			
004A	Seal housing disc screw	EN 1.4301(AISI 304)			
006	Shaft	EN 1.4462 (duplex steel) per 30-37 kW	042	Foot	Galvanised Steel
007	Impeller	EN 1.4401 (AISI316)	066	Support cover	Cast iron EN-GJL-200-EN 1561
011	Mechanical seal	SiC/SiC/FPM	067	Support cover	Cast iron EN-GJL-200-EN 1561
			075	Washer	EN 1.4404 (AISI 316L)
			076	Washer	
019	Bearing (pump side)	-	077	O-Ring	FPM
020	Bearing (motor side)	-	078	O-Ring	
024	Filler cap	EN 1.4404 (AISI 316L)	089	Seeger ring	Carbon steel TC 80
025	Drain plug	EN 1.4404 (AISI 316L)	092	Sealing ring	-
026	O-Ring	FPM	093	Sealing ring	
			200	Screw (pump body)	Stainless steel A270 class ISO 3506/1
032	Key 65-250 d=24 mm 80-200 d=24 mm 80-250 d=29 mm	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 (FORMER DIN 24255)

MECHANICAL SEAL standard version



MATERIALS TABLE

Ref.	Name	Material	
		Standard	H
1	Fixed part	Carbon	Carbon
2	Rotating part	Ceramic	Ceramic
3	Gasket	NBR	FPM
4	Frame + spring	EN 1.4401 (AISI 316)	EN 1.4401 (AISI 316)

SPECIAL MECHANICAL SEALS (on request)

Name	Material				
	H version	HS version	HW version	HSW version	E version
Fixed Part	Carbon	SiC	Tungsten Carbide	Tungsten Carbide	Carbon
Rotating Part	Ceramic	SiC	Tungsten Carbide	SiC	SiC
Elastomers	FPM	FPM	FPM	FPM	EPDM
Spring	AISI 316	AISI 316	AISI 316	AISI 316	AISI 316
Structure/Frame	AISI 304	AISI 316	AISI 304	AISI 304	AISI 316

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

ELECTRIC DATA TABLE

2 Poles

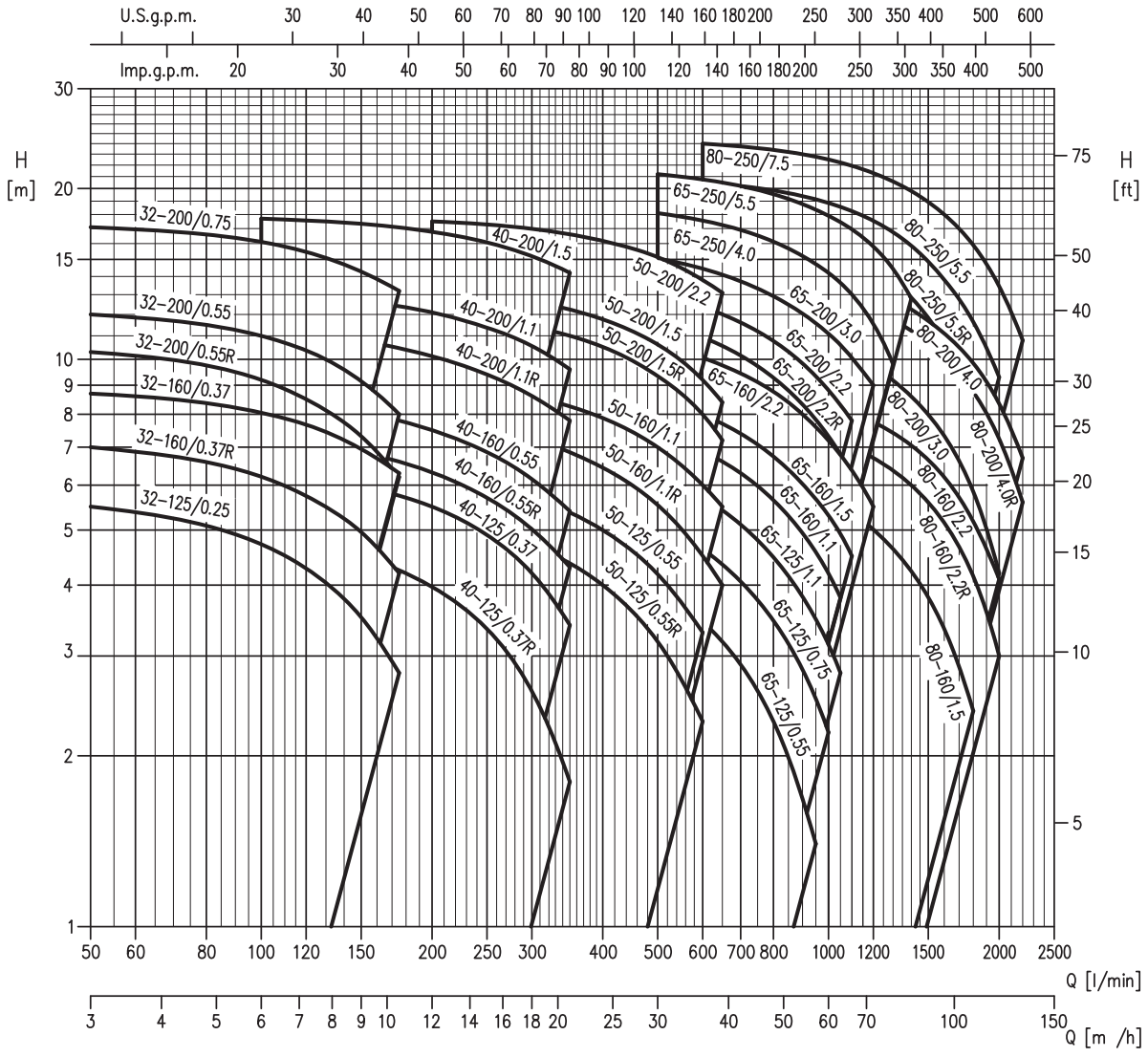
Model	P_2		Mec	Capacitor		P_1	Absorbed Current [A]		
	[HP]	[kW]	Motor	µF	V_c	[kW]	230V	400V	690V
3(.)M 32-125/1.1 M	1,5	1,1	90	31,5	450	1,51	6,7	-	-
3(.)M 32-125/1.1	2	1,5	90	-	-	2	5,9	3,4	-
3(.)M 32-160/1.5 M	2	1,5	90	40	450	2,1	9,6	-	-
3(.)M 32-160/1.5	2	1,5	90	-	-	2	5,9	3,4	-
3(.)M 32-160/2.2 M	3	2,2	90	50	450	2,95	13,3	-	-
3(.)M 32-160/2.2	3	2,2	90	-	-	2,8	8,3	4,8	-
3(.)M 32-200/3.0	4	3	90	-	-	3,75	11,3	6,5	-
3(.)M 32-200/4.0	5,5	4	100	-	-	5,1	15,9	9,2	-
3(.)M 32-200/5.5	7,5	5,5	112	-	-	6,7	-	11,8	6,8
3(.)M 32-200/7.5	10	7,5	112	-	-	9,1	-	15,7	9,1
3(.)M 40-125/1,5 M	2	1,5	90	40	450	2,1	9,6	-	-
3(.)M 40-125/1.5	2	1,5	90	-	-	2	5,9	3,4	-
3(.)M 40-125/2.2 M	3	2,2	90	50	450	2,95	13,3	-	-
3(.)M 40-125/2.2	3	2,2	90	-	-	2,8	8,3	4,8	-
3(.)M 40-160/3.0	4	3	90	-	-	3,75	11,3	6,5	-
3(.)M 40-160/4.0	5,5	4	100	-	-	5,1	15,9	9,2	-
3(.)M 40-200/5.5	7,5	5,5	112	-		6,7	-	11,8	6,8
3(.)M 40-200/7.5	10	7,5	112	-	-	9,1	-	15,7	9,1
3(.)M 40-200/11	15	11	132	-	-	13,1	-	22	12,7
3(.)M 50-125/2.2 M	3	2,2	90	50	450	2,95	13,3	-	-
3(.)M 50-125/2.2	3	2,2	90	-	-	2,8	8,3	4,8	-
3(.)M 50-125/3.0	4	3	90	-	-	3,75	11,3	6,5	-
3(.)M 50-125/4.0	5,5	4	100	-	-	5,1	15,9	9,2	-
3(.)M 50-160/5.5	7,5	5,5	112	-	-	6,7	-	11,8	6,8
3(.)M 50-160/7.5	10	7,5	112	-	-	9,1	-	15,7	9,1
3(.)M 50-200/9.2	12,5	9,2	132	-	-	11	-	18,8	10,8
3(.)M 50-200/11	15	11	132	-	-	13,1	-	22	12,7
3(.)M 50-200/15	20	15	160	-	-	17,5	-	30	17,3
3(.)M 65-125/4	5,5	4	100	-	-	5,1	15,9	9,2	-
3(.)M 65-125/5.5	7,5	5,5	112	-	-	6,7	-	11,8	6,8
3(.)M 65-125/7.5	10	7,5	112	-	-	9,1	-	15,7	9,1
3(.)M 65-160/7.5	10	7,5	112	-	-	9,1	-	15,7	9,1
3(.)M 65-160/9.2	12,5	9,2	132	-	-	11	-	18,8	10,8
3(.)M 65-160/11	15	11	132	-	-	13,1	-	22	12,7
3(.)M 65-160/15	20	15	160	-	-	17,5	-	30	17,3
3(.)M 65-200/15	20	15	160	-	-	17,5	-	30	17,3
3(.)M 65-200/18.5	25	18,5	160	-	-	21,3	-	39	22,5
3(.)M 65-200/22	30	22	160	-	-	25	-	42,3	24,4
3LM 80-160/11	15	11	132	-	-	13,1	-	22	12,7
3LM 80-160/13	17,5	13	132	-	-	15	-	25	14,4
3LM 80-160/15	20	15	160	-	-	17,5	-	30	17,3
3LM 80-160/18.5	25	18,5	160	-	-	21,3	-	39	22,5

Model		P_2		Mec	P_1	Absorbed Current [A]		
		[HP]	[kW]	Motor	[kW]	230V	400V	690V
3(.)S 32-125/1.1	3(.)P 32-125/1.1	1,5	1,1	80	1,42	4,3	2,5	-
3(.)S 32-160/1.5	3(.)P 32-160/1.5	2	1,5	90	1,91	5,9	3,4	-
3(.)S 32-160/2.2	3(.)P 32-160/2.2	3	2,2	90	2,69	8,5	4,9	-
3(.)S 32-200/3.0	3(.)P 32-200/3.0	4	3	100	3,63	11,1	6,4	-
3(.)S 32-200/4.0	3(.)P 32-200/4.0	5,5	4	112	4,71	14,4	8,3	-
3(.)S 32-200/5.5	3(.)P 32-200/5.5	7,5	5,5	132	6,35	-	10,5	6,1
3(.)S 32-200/7.5	3(.)P 32-200/7.5	10	7,5	132	8,36	-	14,6	8,4
3(.)S 40-125/1.5	3(.)P 40-125/1.5	2	1,5	90	1,91	5,9	3,4	-
3(.)S 40-125/2.2	3(.)P 40-125/2.2	3	2,2	90	2,69	8,5	4,9	-
3(.)S 40-160/3.0	3(.)P 40-160/3.0	4	3	100	3,63	11,1	6,4	-
3(.)S 40-160/4.0	3(.)P 40-160/4.0	5,5	4	112	4,71	14,4	8,3	-
3(.)S 40-200/5.5	3(.)P 40-200/5.5	7,5	5,5	132	6,35	-	10,5	6,1
3(.)S 40-200/7.5	3(.)P 40-200/7.5	10	7,5	132	8,36	-	14,6	8,4
3(.)S 40-200/11	3(.)P 40-200/11	15	11	160	12,46	-	21,7	12,5
3(.)S 50-125/2.2	3(.)P 50-125/2.2	3	2,2	90	2,69	8,5	4,9	-
3(.)S 50-125/3.0	3(.)P 50-125/3.0	4	3	100	3,63	11,1	6,4	-
3(.)S 50-125/4.0	3(.)P 50-125/4.0	5,5	4	112	4,71	14,4	8,3	-
3(.)S 50-160/5.5	3(.)P 50-160/5.5	7,5	5,5	132	6,35	-	10,5	6,1
3(.)S 50-160/7.5	3(.)P 50-160/7.5	10	7,5	132	8,36	-	14,6	8,4
3(.)S 50-200/9.2	3(.)P 50-200/9.2	12,5	9,2	132	10,55	-	17,3	10
3(.)S 50-200/11	3(.)P 50-200/11	15	11	160	12,46	-	21,7	12,5
3(.)S 50-200/15	3(.)P 50-200/15	20	15	160	16,78	-	28,5	16,4
3(.)S 65-125/4	3(.)P 65-125/4	5,5	4	112	4,71	14,4	8.3	-
3(.)S 65-125/5.5	3(.)P 65-125/5.5	7,5	5,5	132	6,35	-	10,5	6,1
3(.)S 65-125/7.5	3(.)P 65-125/7.5	10	7,5	132	8,36	-	14,6	8,4
3(.)S 65-160/7.5	3(.)P 65-160/7.5	10	7,5	132	8,36	-	14,6	8,4
3(.)S 65-160/9.2	3(.)P 65-160/9.2	12,5	9,2	132	10,55	-	17,3	10
3(.)S 65-160/11	3(.)P 65-160/11	15	11	160	12,46	-	21,7	12,5
3(.)S 65-160/15	3(.)P 65-160/15	20	15	160	16,78	-	28,5	16,4
3(.)S 65-200/15	3(.)P 65-200/15	20	15	160	16,78	-	28,5	16,4
3(.)S 65-200/18.5	3(.)P 65-200/18.5	25	18,5	160	20,56	-	34,1	19,7
3(.)S 65-200/22	3(.)P 65-200/22	30	22	180	24,5	-	42,5	24,5
3LS 65-250/30	3LP 65-250/30	40	30	200	32,88	-	54,6	31,5
3LS 65-250/37	3LP 65-250/37	50	37	200	40,45	-	66,7	38,5
3LS 80-160/11	3LP 80-160/11	15	11	160	12,46	-	21,7	12,5
3LS 80-160/15R	3LP 80-160/15R	20	15	160	16,78	-	28,5	16,4
3LS 80-160/15	3LP 80-160/15	20	15	160	16,78	-	28,5	16,4
3LS 80-160/18.5	3LP 80-160/18.5	25	18,5	160	20,56	-	34,1	19,7
3LS 80-200/22	3LP 80-200/22	30	22	180	24,5	-	42,5	24,5
3LS 80-200/30	3LP 80-200/30	40	30	200	32,88	-	54,6	31,5
3LS 80-200/37	3LP 80-200/37	50	37	200	40,45	-	66,7	37,1
3LS 80-250/37	3LP 80-250/37	50	37	200	40,45	-	66,7	37,1
3LS 80-250/45	3LP 80-250/45	60	45	225	48,86	-	79,8	46,1
3LS 80-250/55	3LP 80-250/55	75	55	250	59,3	-	99,4	57,4

3 - 3L SERIES

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

3 SERIES PERFORMANCE RANGE 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 the H and HS version for 32, 40, 50, 65-125/160/200
• = Models also available in the H and E version for 65-250, 80

3 - 3L SERIES

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

32-40-50 PERFORMANCE TABLE

4 Poles

Model	P_2		Q=Flow rate											
	[HP]	[kW]	l/min 50	100	150	175	200	250	300	350	400	500	600	650
			m^3/h 3	6	9	10,5	12	15	18	21	24	30	36	39
			H=Head [m]											
32-125/0.25	0,33	0,25	5,5	4,7	3,5	2,8	-	-	-	-	-	-	-	-
32-160/0.37R	0,5	0,37	7,0	6,2	5,0	4,2	-	-	-	-	-	-	-	-
32-160/0.37	0,5	0,37	8,7	8,1	7,0	6,3	-	-	-	-	-	-	-	-
32-200/0.55R	0,75	0,55	10,3	9,2	7,3	6,2	-	-	-	-	-	-	-	-
32-200/0.55	0,75	0,55	12,0	11,0	9,2	8,0	-	-	-	-	-	-	-	-
32-200/0.75	1	0,75	17,1	16,1	14,3	13,2	-	-	-	-	-	-	-	-
40-125/0.37R	0,5	0,37	-	4,8	4,5	4,3	4,0	3,4	2,6	1,8	-	-	-	-
40-125/0.37	0,5	0,37	-	6,3	6,0	5,8	5,5	4,9	4,2	3,4	-	-	-	-
40-160/0.55R	0,75	0,55	-	7,3	6,9	6,6	6,3	5,7	5,0	4,3	-	-	-	-
40-160/0.55	0,75	0,55	-	8,6	8,1	7,8	7,5	6,9	6,2	5,4	-	-	-	-
40-200/1.1R	1,5	1,1	-	11,2	10,8	10,5	10,1	9,4	8,6	7,8	-	-	-	-
40-200/1.1	1,5	1,1	-	13,2	12,7	12,4	12,1	11,4	10,6	9,6	-	-	-	-
40-200/1.5	2	1,5	-	17,7	17,3	17,1	16,8	16,1	15,2	14,2	-	-	-	-
50-125/0.55R	0,75	0,55	-	-	-	-	5,2	5,0	4,7	4,4	4,0	3,2	2,3	-
50-125/0.55	0,75	0,55	-	-	-	-	6,2	6,0	5,7	5,4	5,0	4,2	3,3	-
50-160/1.1R	1,5	1,1	-	-	-	-	7,8	7,6	7,2	6,9	6,4	5,5	4,5	4,0
50-160/1.1	1,5	1,1	-	-	-	-	9,1	8,9	8,6	8,3	7,9	7,0	6,0	5,5
50-200/1.5R	2	1,5	-	-	-	-	12,1	11,8	11,4	11,0	10,5	9,3	8,0	7,2
50-200/1.5	2	1,5	-	-	-	-	13,3	13,0	12,7	12,2	11,8	10,6	9,2	8,4
50-200/2.2	3	2,2	-	-	-	-	17,5	17,3	17,0	16,6	16,2	15,1	13,8	13,1

65-80 PERFORMANCE TABLE

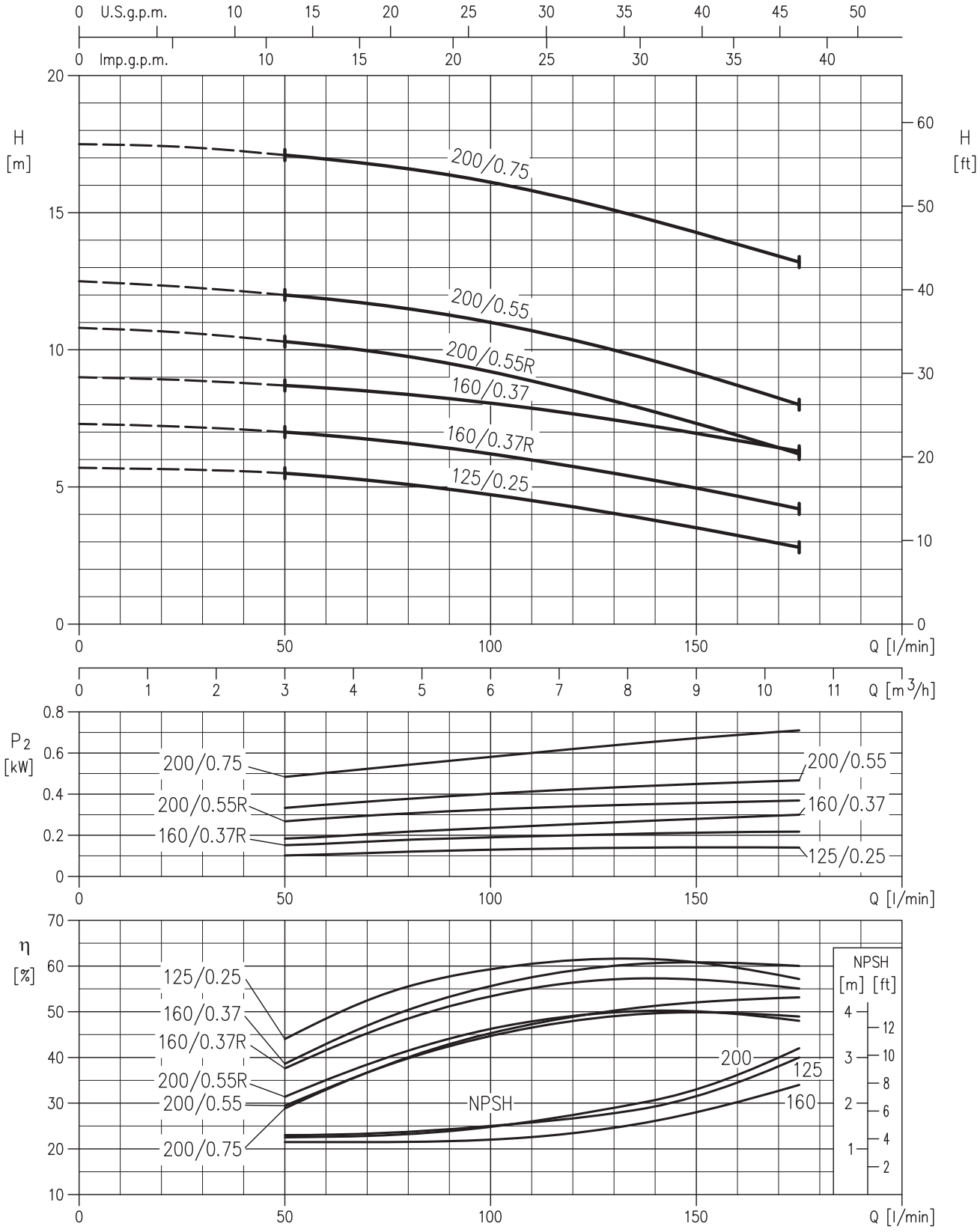
4 Poles

Model	P_2		Q=Flow rate															
	[HP]	[kW]	l/min 300	350	500	600	800	950	1000	1050	1100	1200	1300	1400	1600	1800	2000	2200
			m^3/h 18	21	30	36	48	57	60	63	66	72	78	84	96	108	120	132
			H=Head [m]															
65-125/0.55	0,75	0,55	4,8	4,6	4,0	3,5	2,3	1,4	-	-	-	-	-	-	-	-	-	-
65-125/0.75	1	0,75	6,0	5,8	5,2	4,6	3,5	2,5	2,2	-	-	-	-	-	-	-	-	-
65-125/1.1	1,5	1,1	7,2	7,0	6,3	5,7	4,5	3,5	3,2	2,8	-	-	-	-	-	-	-	-
65-160/1.1	1,5	1,1	-	8,1	7,4	6,9	5,7	4,6	4,2	3,8	-	-	-	-	-	-	-	-
65-160/1.5	2	1,5	-	9,2	8,5	8,0	6,7	5,7	5,3	4,9	4,5	-	-	-	-	-	-	-
65-160/2.2	3	2,2	-	11,3	10,6	10,1	8,8	7,6	7,2	6,8	6,4	5,5	-	-	-	-	-	-
65-200/2.2R	3	2,2	-	12,4	11,6	10,9	9,3	7,8	7,3	6,8	-	-	-	-	-	-	-	-
65-200/2.2	3	2,2	-	13,9	13,0	12,4	10,8	9,3	8,8	8,3	7,8	-	-	-	-	-	-	-
65-200/3	4	3	-	15,8	15,1	14,4	12,9	11,6	11,1	10,6	10,1	9,0	-	-	-	-	-	-
65-250/4	5,5	4	-	-	18,1	17,6	16,1	14,7	14,2	13,7	13,0	11,6	9,8	-	-	-	-	-
65-250/5.5	7,5	5,5	-	-	21,2	20,8	19,6	18,4	17,9	17,5	17,0	15,8	14,4	12,8	-	-	-	-
80-160/1.5	2	1,5	-	-	-	6,8	6,3	5,9	5,7	5,6	5,4	5,0	4,6	4,2	3,4	2,4	-	-
80-160/2.2R	3	2,2	-	-	-	8,1	7,8	7,4	7,3	7,1	7,0	6,7	6,4	6,0	5,2	4,2	3,0	-
80-160/2.2	3	2,2	-	-	-	9,1	8,8	8,4	8,3	8,2	8,0	7,8	7,4	7,1	6,2	5,2	4,1	-
80-200/3	4	3	-	-	-	12,0	11,5	10,9	10,7	10,4	10,2	9,7	9,2	8,6	7,3	5,9	4,2	-
80-200/4R	5,5	4	-	-	-	14,4	13,9	13,4	13,2	12,9	12,7	12,2	11,7	11,2	10,1	8,8	7,2	5,6
80-200/4	5,5	4	-	-	-	15,4	14,9	14,3	14,1	13,9	13,7	13,2	12,8	12,3	11,1	9,9	8,4	6,7
80-250/5.5R	7,5	5,5	-	-	-	17,7	17,0	16,3	16,0	15,7	15,4	14,6	13,8	12,9	10,7	8,4	-	-
80-250/5.5	7,5	5,5	-	-	-	20,5	19,9	19,1	18,9	18,6	18,2	17,6	16,8	15,9	13,8	11,7	9,3	-
80-250/7.5	10	7,5	-	-	-	24,0	23,4	22,8	22,5	22,2	21,9	21,3	20,6	19,8	18,0	15,9	13,5	10,8

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

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

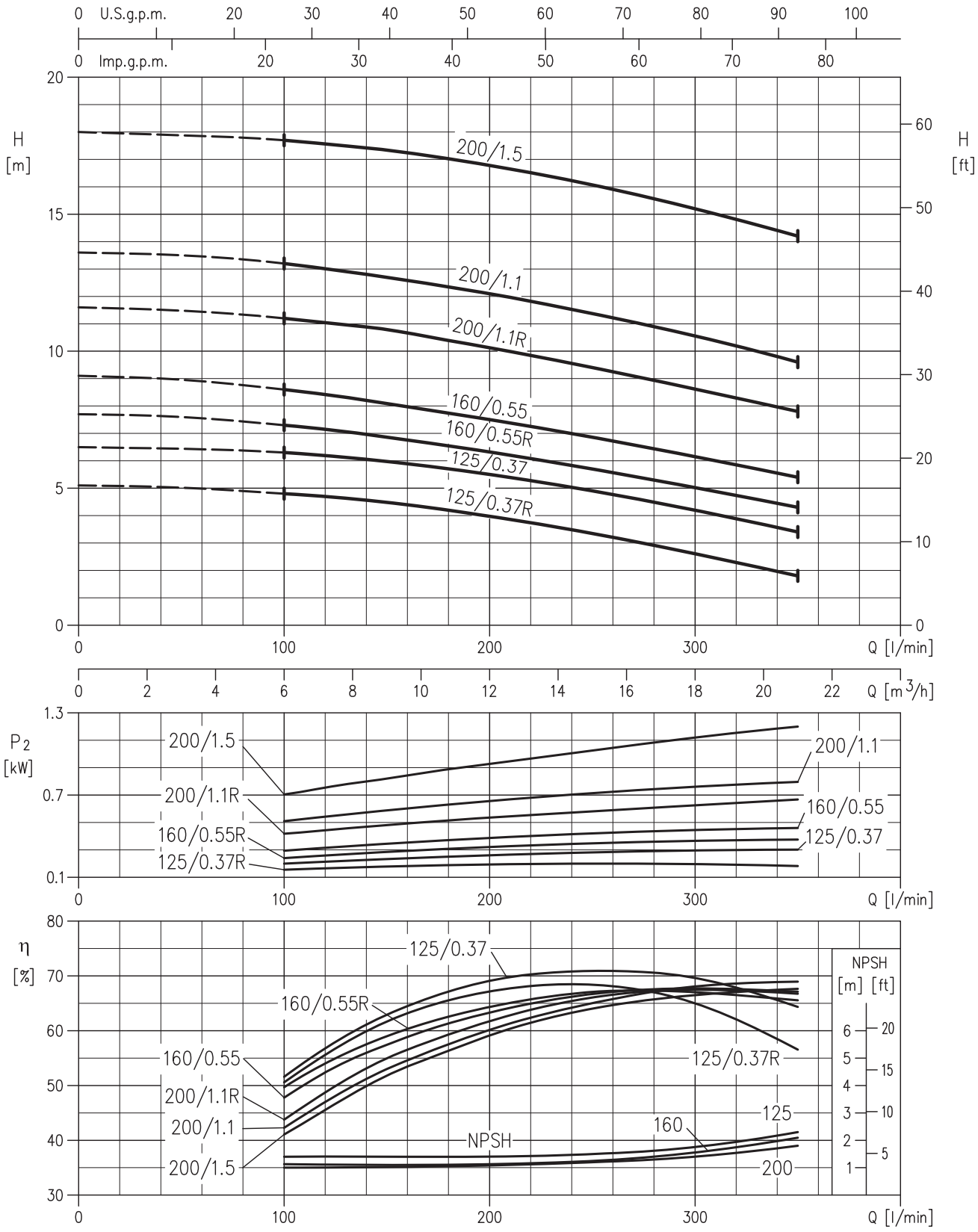
4 Poles



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

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

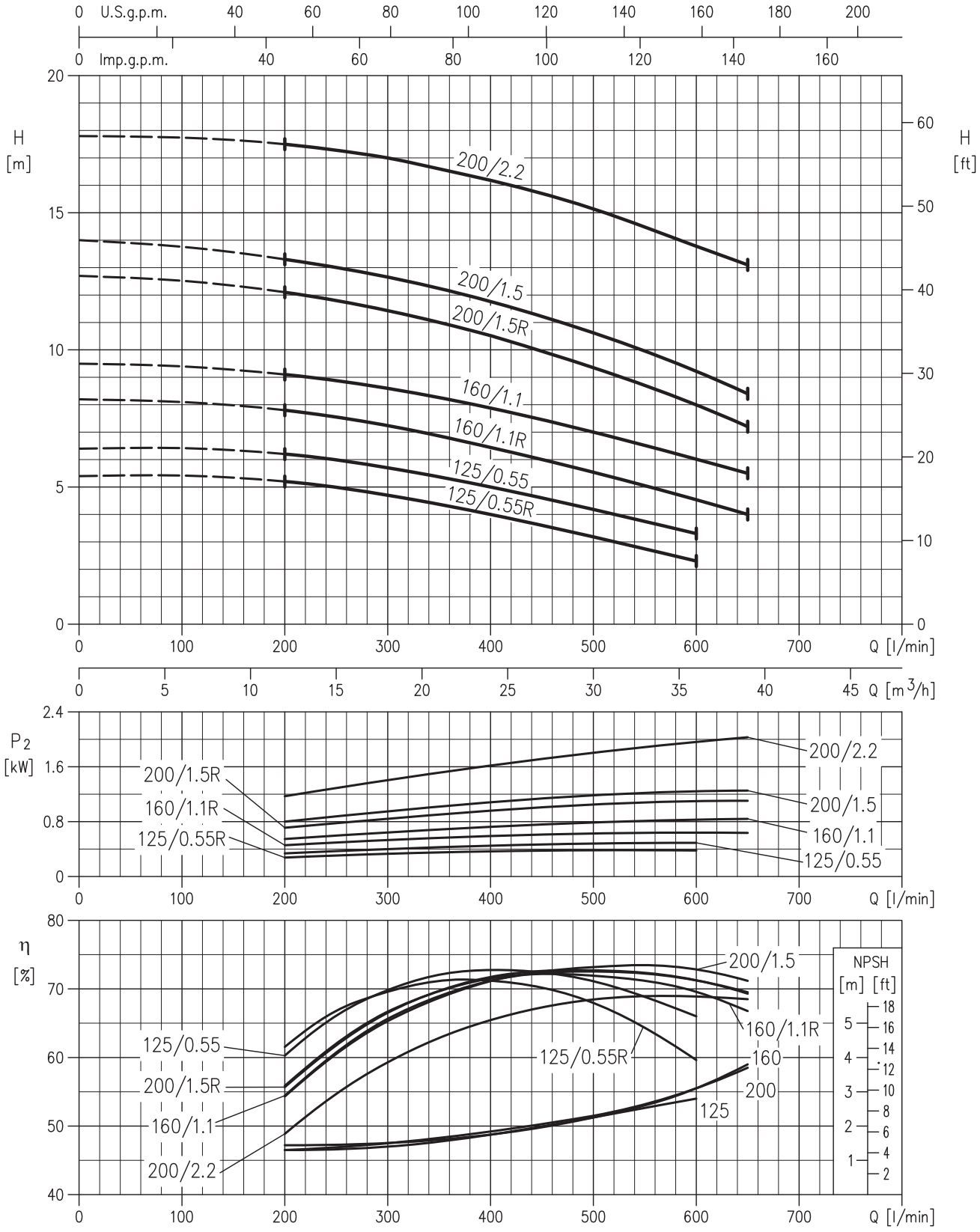
4 Poles



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

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

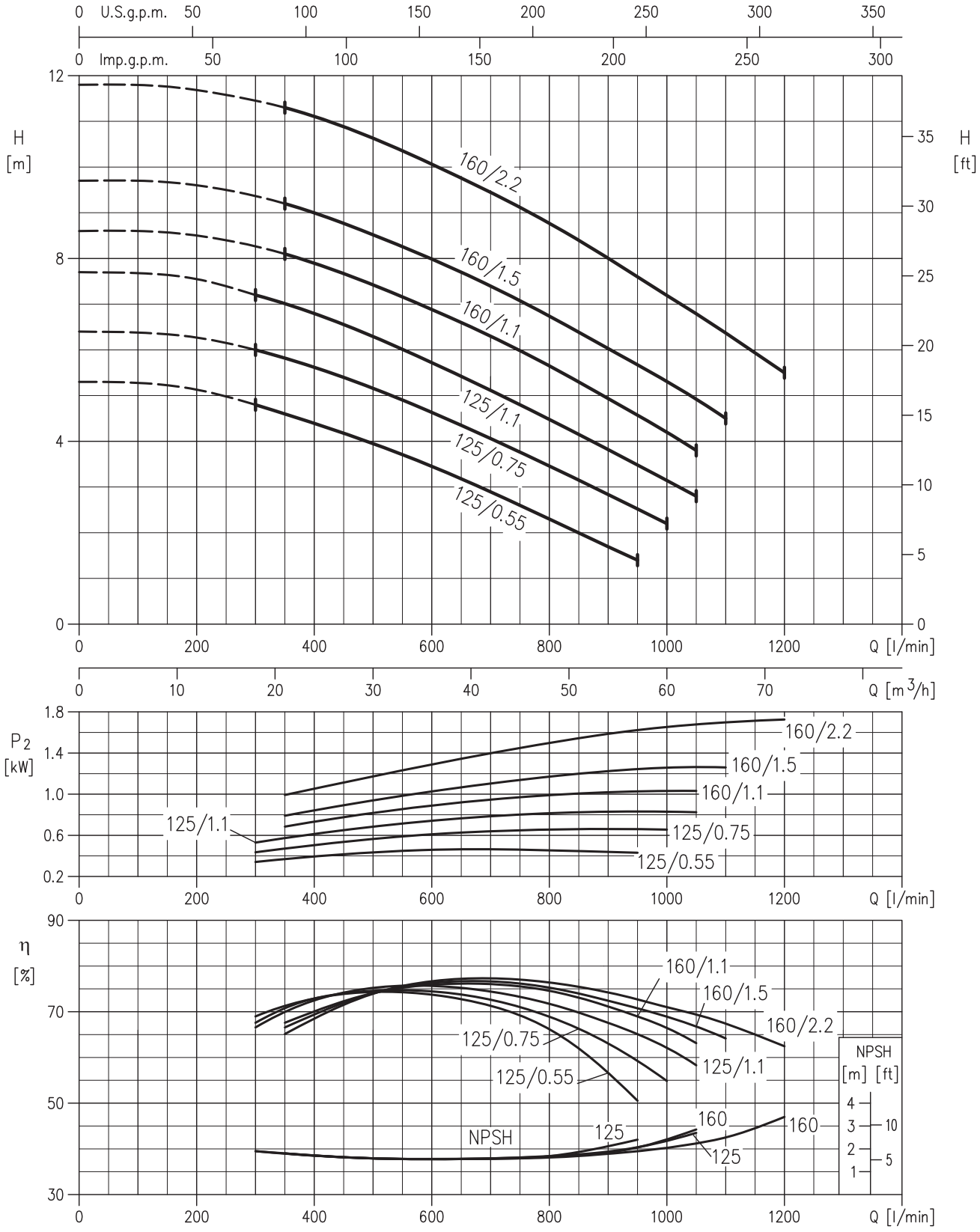
4 Poles



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

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

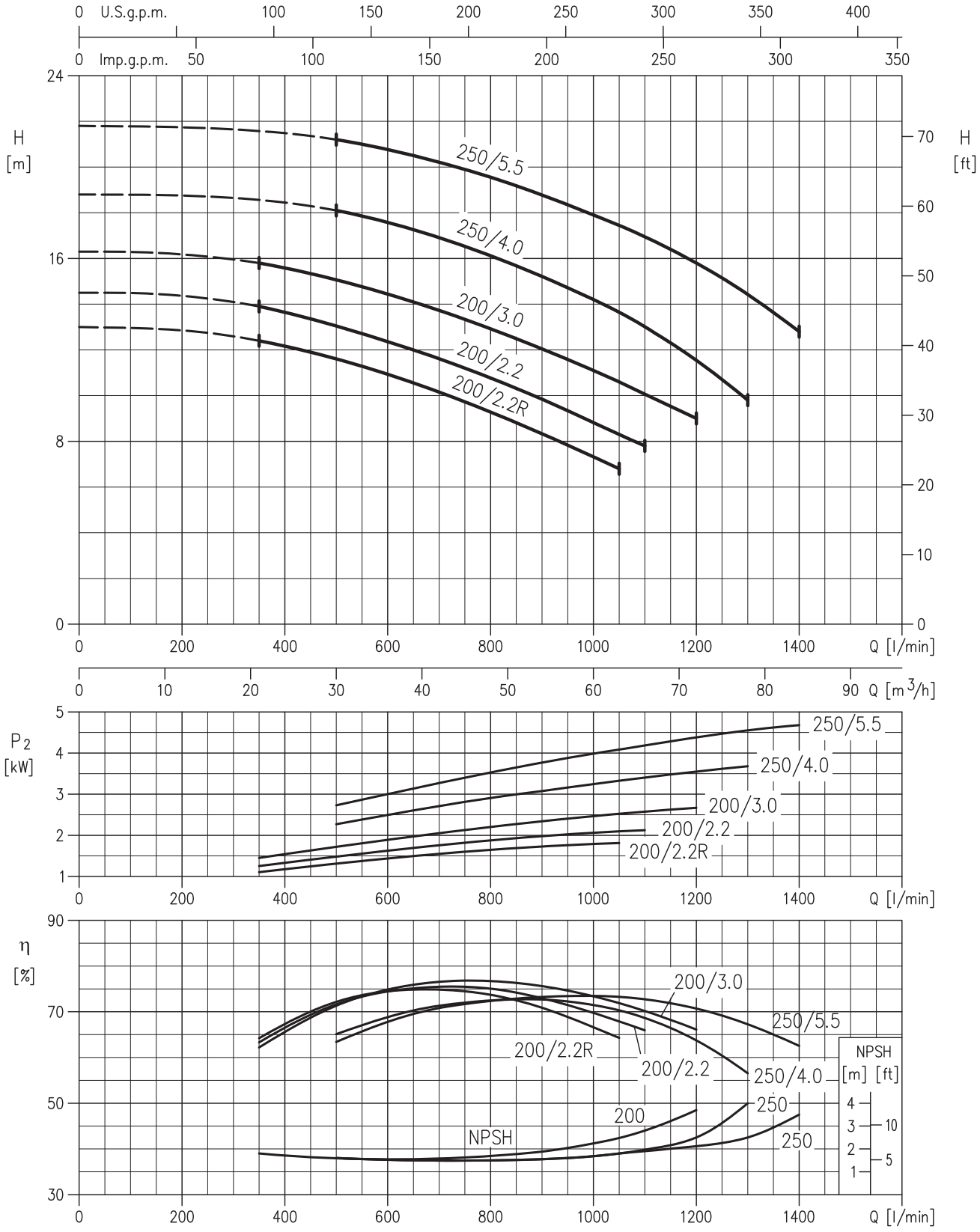
4 Poles



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

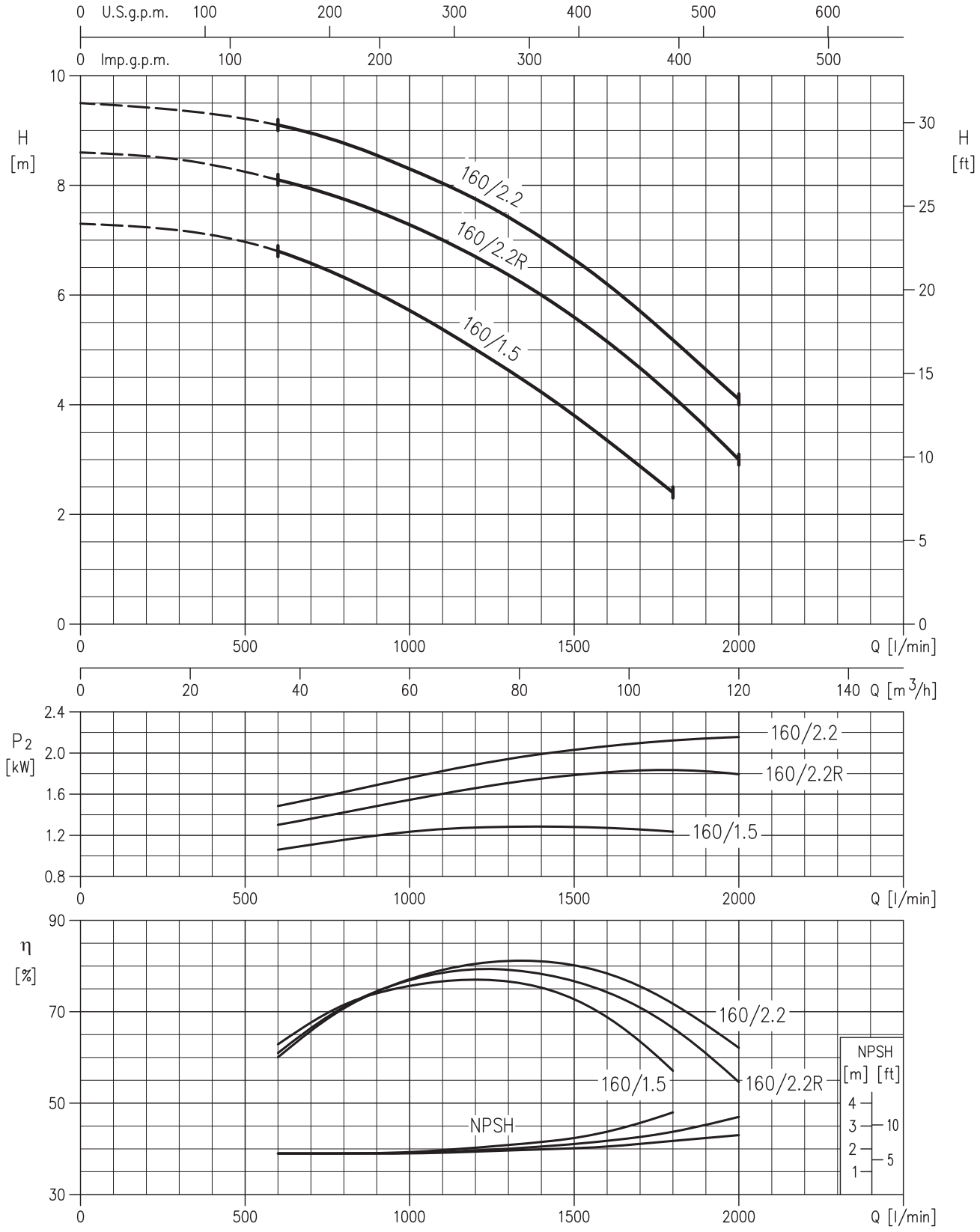
3L 65 PERFORMANCE CURVES at 1450 min^{-1} (according to ISO 9906 Attachment A)

4 Poles



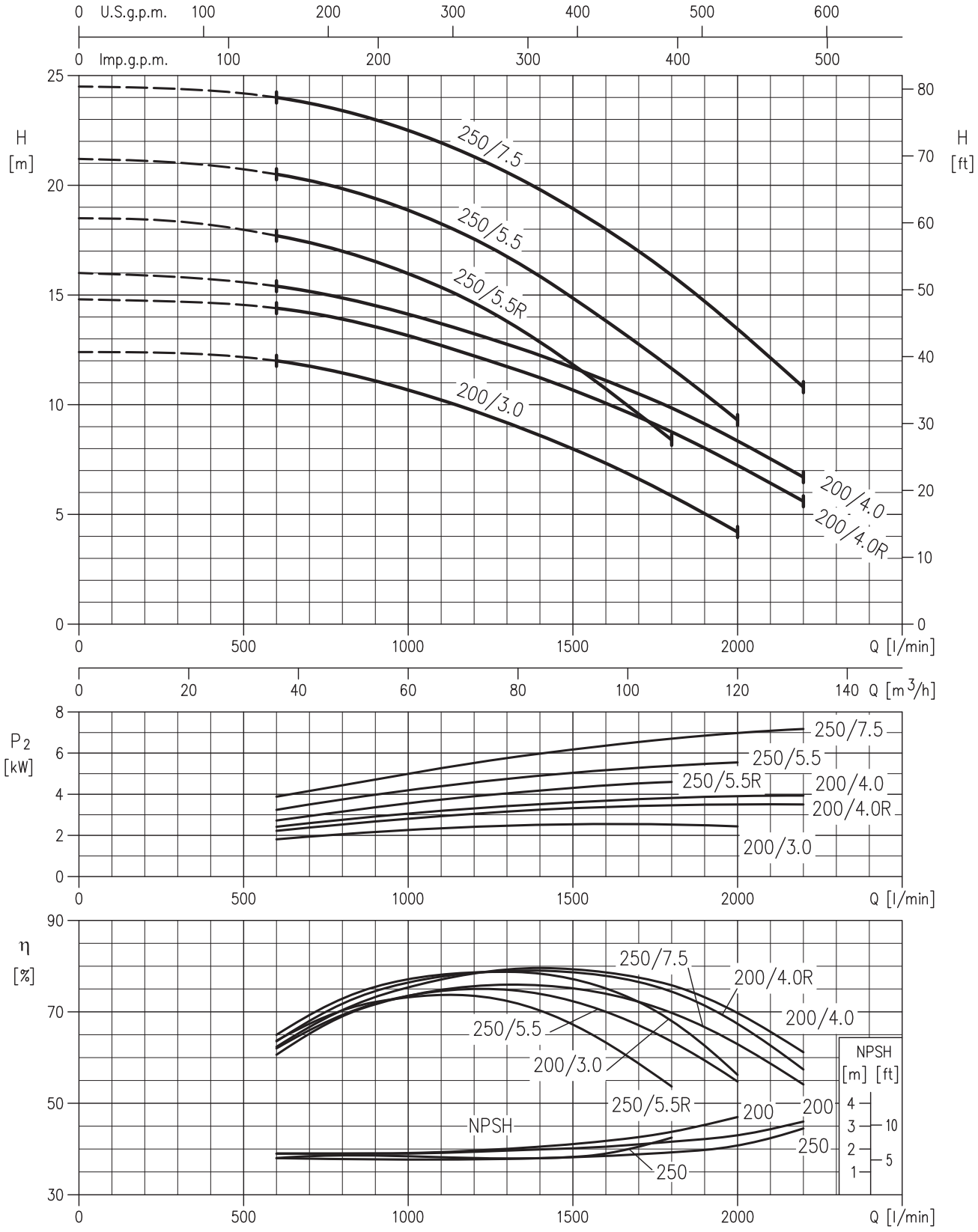
CENTRIFUGAL ELECTRIC PUMPS STANDARDISED IN COMPLIANCE WITH EN 733 (FORMER DIN 24255)

3L 80 PERFORMANCE CURVES at 1450 min^{-1} (according to ISO 9906 Attachment A) **4 Poles**



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

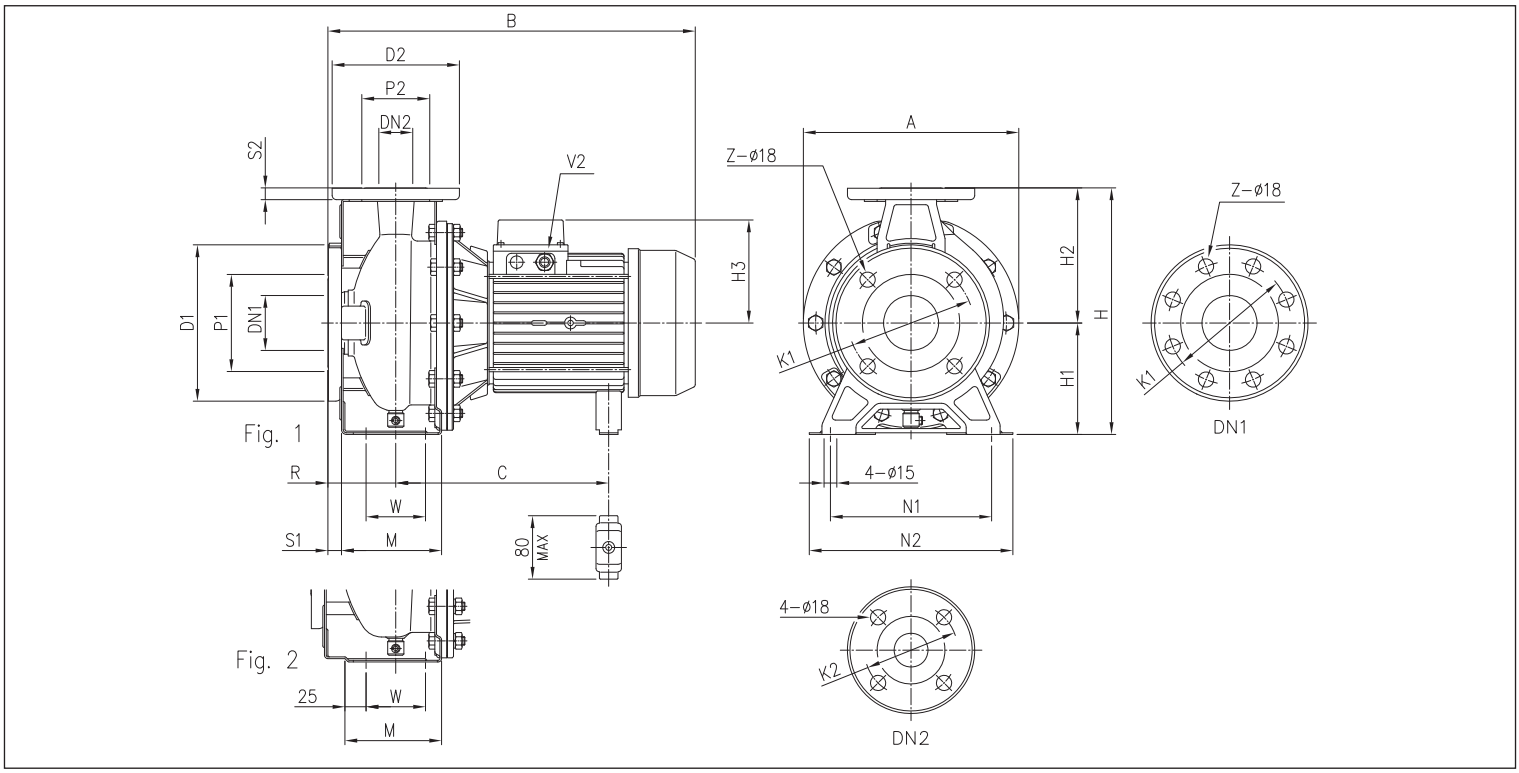
3L 80 PERFORMANCE CURVES at 1450 min^{-1} (according to ISO 9906 Attachment A) **4 Poles**



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

3(L)M4 32, 40, 50, 65 - up to 65-200

4 Poles



DIMENSIONS TABLE

Model	Dimensions [mm]																										Weight [kg]
	Ø DN1	Ø P1	Ø K1	Ø D1	S1	Z [1]	Z [2]	Ø DN2	Ø P2	Ø K2	Ø D2	S2	Fig.	H	H1	H2	H3	R	W	M	N1	N2	A	B	C	V2	
32-125/0.25	50	95	125	165	16	4	-	32	75	100	140	14	1	252	112	140	102	80	70	114	140	190	213	371	205	PG 11	15,0
32-160/0.37R	50	95	125	165	16	4	-	32	75	100	140	14	1	292	132	160	119	80	70	118	190	240	254	395	219	PG 11	20,0
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	395	219	PG 11	20,0
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	395	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	395	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	408	219÷230	PG 13,5	28,0
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	15,5
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	15,5
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	395	219	PG 11	20,5
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	395	219	PG 11	20,5
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	428	219÷230	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	428	219÷230	PG 13,5	28,5
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	428	219÷230	PG 13,5	30,5
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	415	219	PG 11	20,5
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	415	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	428	219÷230	PG 13,5	28,5
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	428	219÷230	PG 13,5	25,5
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	428	219÷230	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	428	219÷230	PG 13,5	31,5
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	36,0
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	415	219	PG 11	18,5
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	428	219÷230	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	428	219÷230	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	428	219÷230	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	428	219÷230	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	37,0
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	34,5
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	35,0
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	474	253	PG 16	40,0

[1] Standard
[2] On request

3 - 3L SERIES

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

3LM4 65-250, 80 **4 Poles**

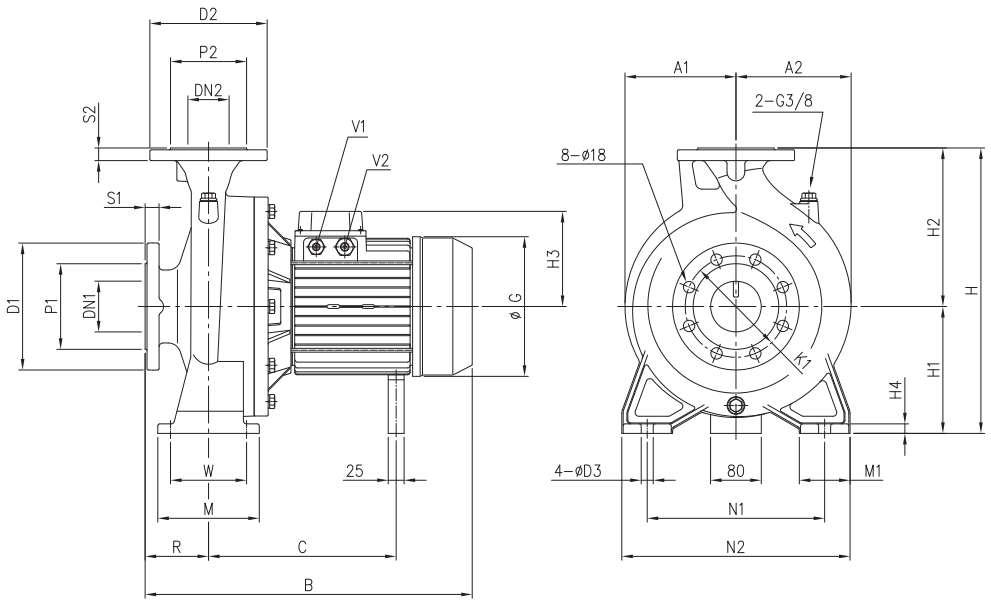


Fig. 1

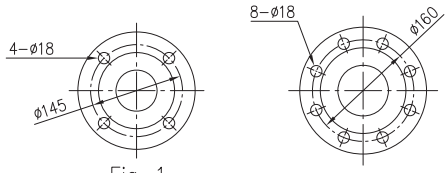


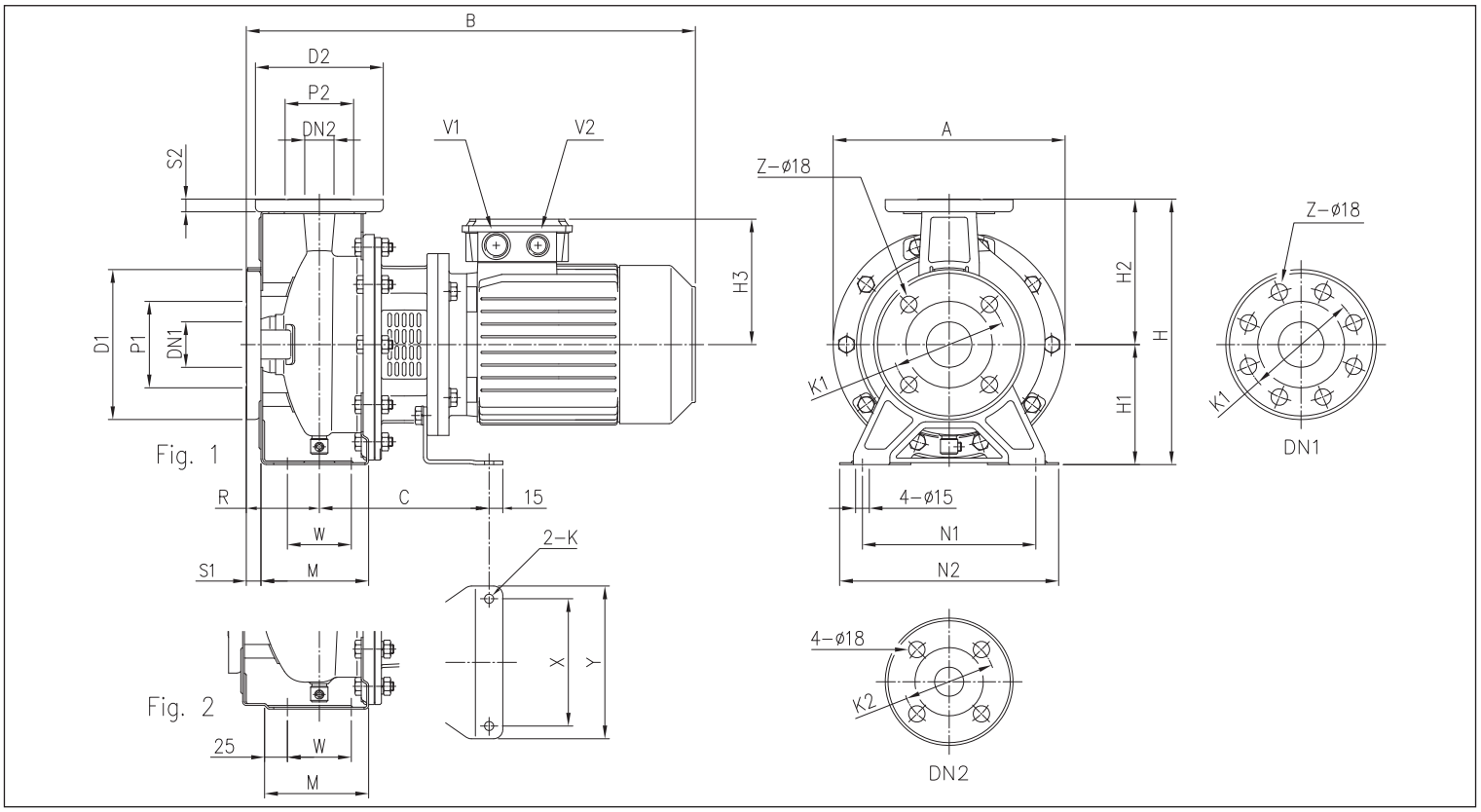
Fig. 2

DIMENSIONS 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	515	295	220	19	PG13,5	PG16	82,0
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	611	376	259	19	PG13,5	PG21	94,5
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	453	219÷230	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	56,0
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	59,0
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	521	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	540	295	220	15	PG13,5	PG16	81,0
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	540	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	636	376	259	19	PG13,5	PG21	95,0
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	636	376	259	19	PG13,5	PG21	95,0
80-250/7.5	100	155	180	225	24	80 Fig. 2	135	200	22	480	200	280	178	15	125	120	315	400	160	80	175	192	636	376	259	19	PG13,5	PG21	100,0

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

3(L)S4 32, 40, 50, 65 - up to 1.5 kW **4 Poles**



DIMENSIONS TABLE

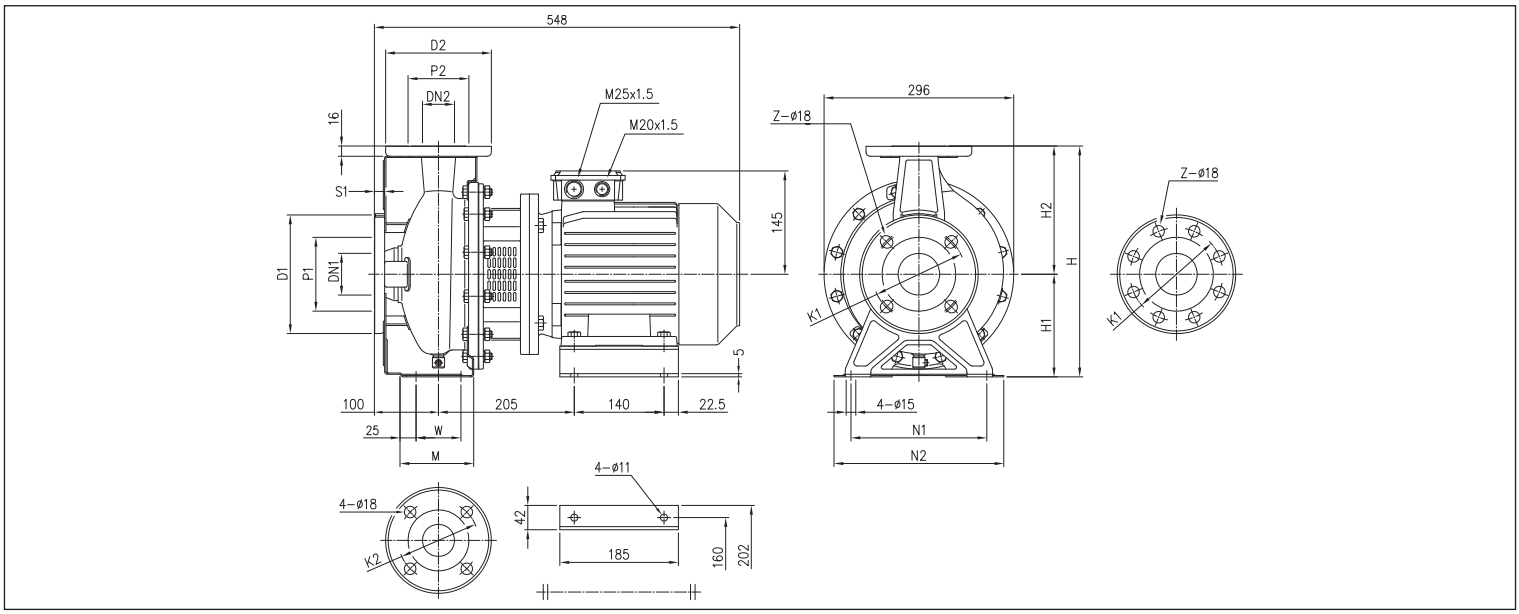
Model	Dimensions [mm]																													Weight [kg]
	Ø DN1	Ø P1	Ø K1	Ø D1	S1	Z [1]	Z [2]	Ø DN2	Ø P2	Ø K2	Ø D2	S2	Fig.	H	H1	H2	H3	R	W	M	N1	N2	A	B	C	X	Y	K	V1	V2	
32-125/0.25	50	95	125	165	16	4	-	32	75	100	140	14	1	252	112	140	112	80	70	114	140	190	213	403	153	112	140	8	M20x1,5	M16x1,5	15,5
32-160/0.37R	50	95	125	165	16	4	-	32	75	100	140	14	1	292	132	160	112	80	70	118	190	240	254	403	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	112	80	70	118	190	240	254	403	153	112	140	8	M20x1,5	M16x1,5	18,5
32-200/0.55R	50	95	125	165	16	4	-	32	75	100	140	14	1	340	160	180	129	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	129	80	70	119	190	240	296	430	174	140	168	10	M25x1,5	M20x1,5	28,0
32-200/0.75	50	95	125	165	16	4	-	32	75	100	140	14	1	340	160	180	129	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	112	80	70	114	160	210	213	403	153	112	140	8	M20x1,5	M16x1,5	16,0
40-125/0.37	65	115	145	185	16	4	-	40	80	110	150	14	1	252	112	140	112	80	70	114	160	210	213	403	153	112	140	8	M20x1,5	M16x1,5	16,0
40-160/0.55R	65	115	145	185	16	4	-	40	80	110	150	14	1	292	132	160	129	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	129	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	138	100	70	115	212	265	296	497	186	140	168	10	M25x1,5	M20x1,5	34,5
40-200/1.1	65	115	145	185	16	4	-	40	80	110	150	14	2	340	160	180	138	100	70	115	212	265	296	497	186	140	168	10	M25x1,5	M20x1,5	34,5
40-200/1.5	65	115	145	185	16	4	-	40	80	110	150	14	2	340	160	180	138	100	70	115	212	265	296	497	186	140	168	10	M25x1,5	M20x1,5	35,5
50-125/0.55R	65	115	145	185	16	4	-	50	95	125	165	16	2	292	132	160	129	100	70	114	190	240	254	450	174	140	168	10	M25x1,5	M20x1,5	23,5
50-125/0.55	65	115	145	185	16	4	-	50	95	125	165	16	2	292	132	160	129	100	70	114	190	240	254	450	174	140	168	10	M25x1,5	M20x1,5	23,5
50-160/1.1R	65	115	145	185	16	4	-	50	95	125	165	16	2	340	160	180	138	100	70	115	212	265	296	497	186	140	168	10	M25x1,5	M20x1,5	34,0
50-160/1.1	65	115	145	185	16	4	-	50	95	125	165	16	2	340	160	180	138	100	70	115	212	265	296	497	186	140	168	10	M25x1,5	M20x1,5	34,0
50-200/1.5R	65	115	145	185	16	4	-	50	95	125	165	16	2	360	160	200	138	100	70	115	212	265	296	497	186	140	168	10	M25x1,5	M20x1,5	37,0
50-200/1.5	65	115	145	185	16	4	-	50	95	125	165	16	2	360	160	200	138	100	70	115	212	265	296	497	186	140	168	10	M25x1,5	M20x1,5	37,0
65-125/0.55	80	134	160	200	18	8	4	65	115	145	185	16	2	340	160	180	129	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	129	100	95	140	212	280	254	450	174	140	168	10	M25x1,5	M20x1,5	23,0
65-125/1.1	80	134	160	200	18	8	4	65	115	145	185	16	2	340	160	180	138	100	95	140	212	280	254	497	186	140	168	10	M25x1,5	M20x1,5	32,0
65-160/1.1	80	134	160	200	18	8	4	65	115	145	185	16	2	360	160	200	138	100	95	140	212	280	296	497	186	140	168	10	M25x1,5	M20x1,5	36,0
65-160/1.5	80	134	160	200	18	8	4	65	115	145	185	16	2	360	160	200	138	100	95	140	212	280	296	497	186	140	168	10	M25x1,5	M20x1,5	37,0

[1] Standard
[2] On request

3 - 3L SERIES

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

3(L)S4 50, 65 - 2.2 ÷ 3 kW — 4 Poles

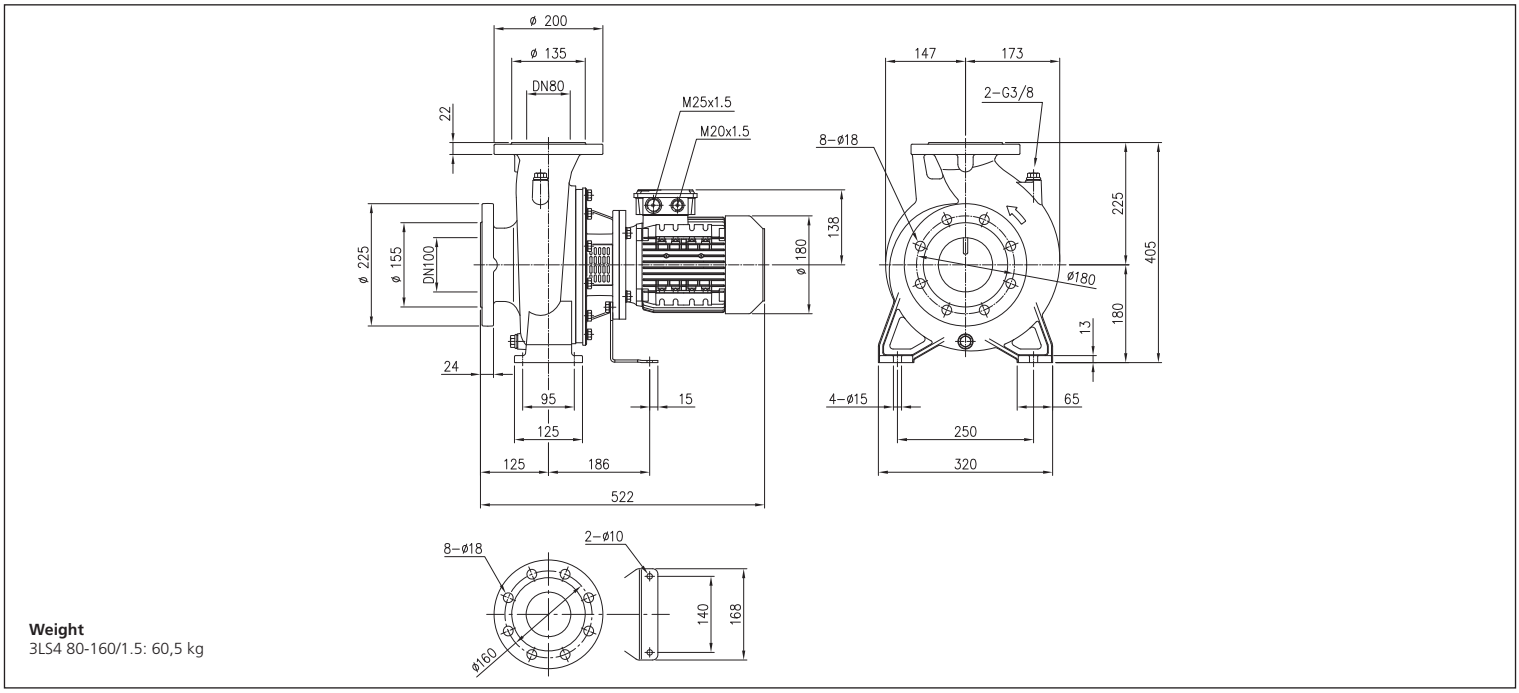


DIMENSIONS TABLE

Model	Dimensions [mm]																		Weight [kg]
	Ø DN1	Ø P1	Ø K1	Ø D1	S1	Z [1]	Z [2]	Ø DN2	Ø P2	Ø K2	Ø D2	H	H1	H2	W	M	N1	N2	
50-200/2.2	65	115	145	185	16	4	-	50	95	125	165	360	160	200	70	115	212	265	43,0
65-160/2.2	80	134	160	200	18	8	4	65	115	145	185	360	160	200	95	140	212	280	46,0
65-200/2.2R	80	134	160	200	18	8	4	65	115	145	185	405	180	225	95	140	250	320	42,5
65-200/2.2	80	134	160	200	18	8	4	65	115	145	185	405	180	225	95	140	250	320	43,0
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

3LS4 80-160/1,5 — 4 Poles

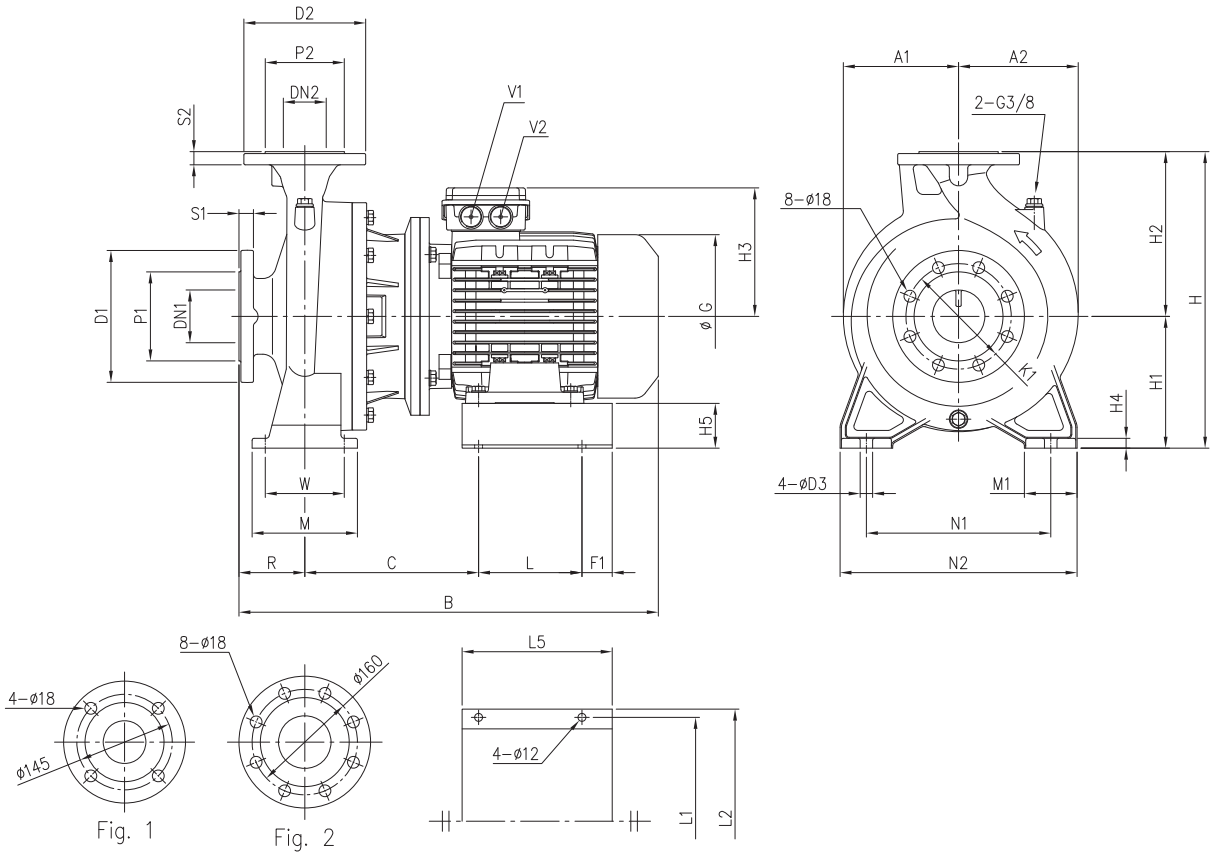


Weight
3LS4 80-160/1.5: 60,5 kg

3 - 3L SERIES

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

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



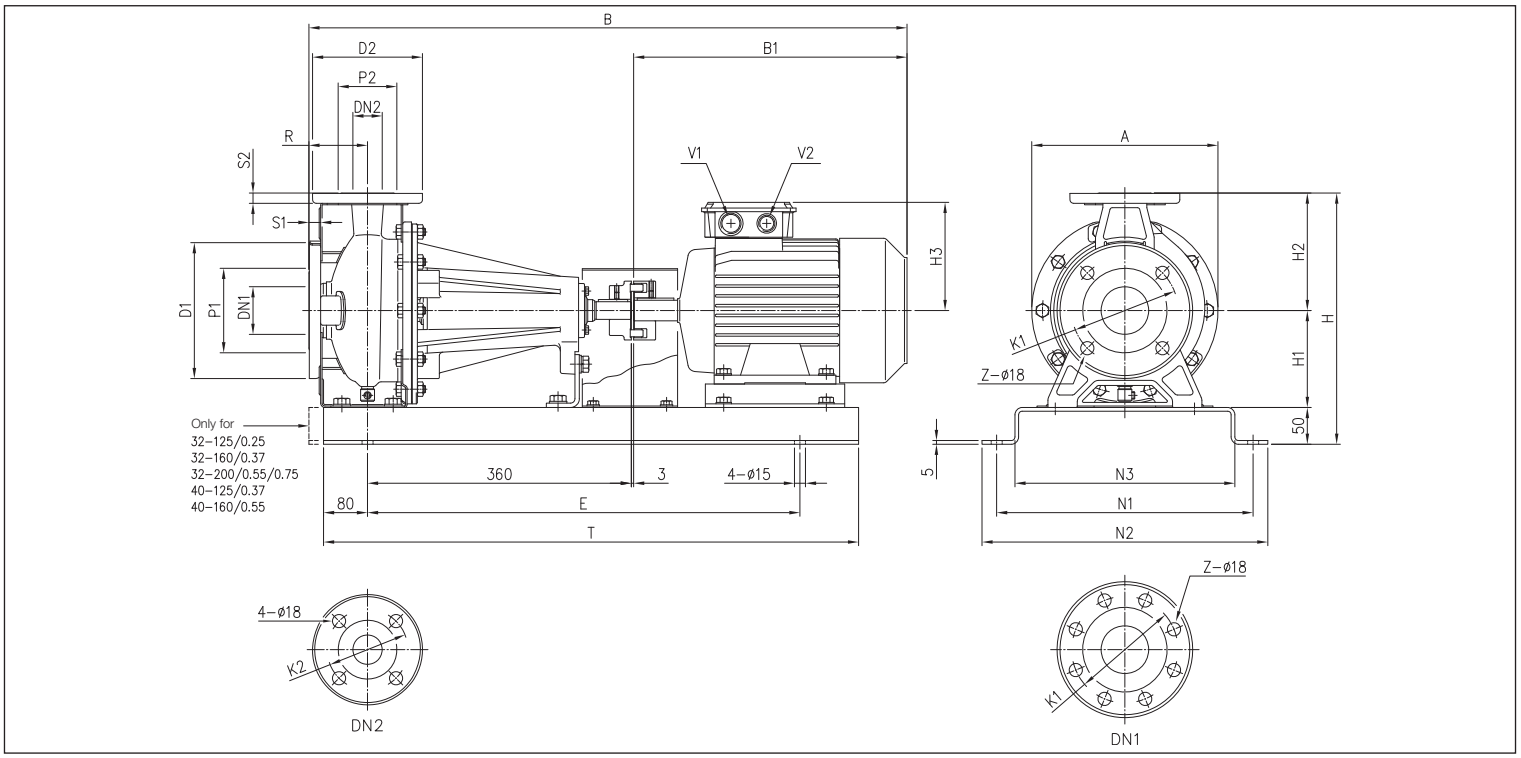
DIMENSIONS TABLE

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	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	161	15	88	100	120	280	360	160	80	147	265	290	187	175	182	580	215	20	225	19	M25x1,5	M20x1,5	86,0
65-250/5.5	80	135	160	200	22	65 Fig. 1	120	185	20	450	200	250	195	15	68	100	120	280	360	160	80	157	315	340	228	175	182	637	264	46	248	19	M32x1,5	M32x1,5	99,5
80-160/2.2R	100	155	180	225	24	80 Fig. 2	135	200	22	405	180	225	145	13	80	125	95	250	320	125	65	140	250	275	190	147	173	573	205	25	196	15	M25x1,5	M20x1,5	69,7
80-160/2.2	100	155	180	225	24	80 Fig. 2	135	200	22	405	180	225	145	13	80	125	95	250	320	125	65	140	250	275	190	147	173	573	205	25	196	15	M25x1,5	M20x1,5	70,0
80-200/3	100	155	180	225	24	80 Fig. 2	135	200	22	430	180	250	145	13	80	125	95	280	345	125	65	140	250	275	190	175	182	583	215	25	196	15	M25x1,5	M20x1,5	81,5
80-200/4R	100	155	180	225	24	80 Fig. 2	135	200	22	430	180	250	161	13	68	125	95	280	345	125	65	157	315	340	228	175	182	605	198	46	225	15	M25x1,5	M20x1,5	89,5
80-200/4	100	155	180	225	24	80 Fig. 2	135	200	22	430	180	250	161	13	68	125	95	280	345	125	65	157	315	340	228	175	182	605	198	46	225	15	M25x1,5	M20x1,5	90,0
80-250/5.5R	100	155	180	225	24	80 Fig. 2	135	200	22	480	200	280	195	15	68	125	120	315	400	160	80	157	315	340	228	175	192	662	264	46	248	19	M32x1,5	M32x1,5	104,0
80-250/5.5	100	155	180	225	24	80 Fig. 2	135	200	22	480	200	280	195	15	68	125	120	315	400	160	80	157	315	340	228	175	192	662	264	46	248	19	M32x1,5	M32x1,5	104,5
80-250/7.5	100	155	180	225	24	80 Fig. 2	135	200	22	480	200	280	195	15	68	125	120	315	400	160	80	157	315	340	228	175	192	702	264	46	248	19	M32x1,5	M32x1,5	109,5

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

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

4 Poles



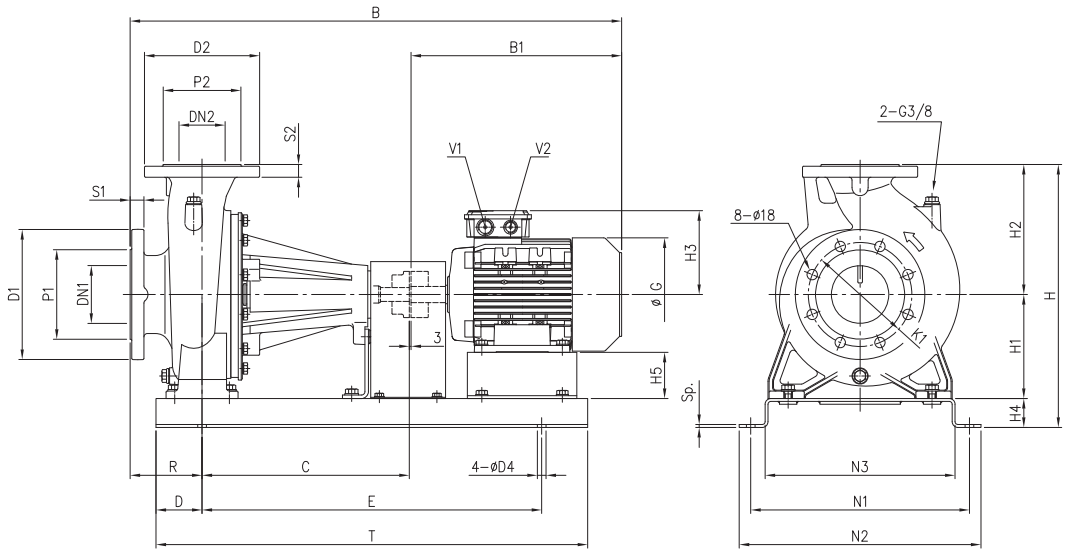
DIMENSIONS TABLE

Model	Dimensions [mm]																											Weight [kg]
	Ø DN1	Ø P1	Ø K1	Ø D1	S1	Z [1]	Z [2]	Ø DN2	Ø P2	Ø K2	Ø D2	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	112	80	213	688	245	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	112	80	254	688	245	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	112	80	254	688	245	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	129	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	129	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	129	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	112	80	213	688	245	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	112	80	213	688	245	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	129	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	129	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	138	100	296	780	317	590	350	390	300	750	M25x1,5	M20x1,5	61,5
40-200/1.1	65	115	145	185	16	4	-	40	80	110	150	14	390	160	180	138	100	296	780	317	590	350	390	300	750	M25x1,5	M20x1,5	61,5
40-200/1.5	65	115	145	185	16	4	-	40	80	110	150	14	390	160	180	138	100	296	780	317	590	350	390	300	750	M25x1,5	M20x1,5	64,0
50-125/0.55R	65	115	145	185	16	4	-	50	95	125	165	16	342	132	160	129	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	129	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	138	100	296	780	317	590	350	390	300	750	M25x1,5	M20x1,5	52,5
50-160/1.1	65	115	145	185	16	4	-	50	95	125	165	16	390	160	180	138	100	296	780	317	590	350	390	300	750	M25x1,5	M20x1,5	52,5
50-200/1.5R	65	115	145	185	16	4	-	50	95	125	165	16	410	160	200	138	100	296	780	317	590	350	390	300	750	M25x1,5	M20x1,5	64,0
50-200/1.5	65	115	145	185	16	4	-	50	95	125	165	16	410	160	200	138	100	296	780	317	590	350	390	300	750	M25x1,5	M20x1,5	64,0
50-200/2.2	65	115	145	185	16	4	-	50	95	125	165	16	410	160	200	145	100	296	829	366	590	350	390	300	750	M25x1,5	M20x1,5	70,0
65-125/0.55	80	134	160	200	18	8	4	65	115	145	185	16	390	160	180	129	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	129	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	138	100	254	780	317	590	350	390	300	750	M25x1,5	M20x1,5	56,0
65-160/1.1	80	134	160	200	18	8	4	65	115	145	185	16	410	160	200	138	100	296	780	317	590	350	390	300	750	M25x1,5	M20x1,5	62,5
65-160/1.5	80	134	160	200	18	8	4	65	115	145	185	16	410	160	200	138	100	296	780	317	590	350	390	300	750	M25x1,5	M20x1,5	63,5
65-160/2.2	80	134	160	200	18	8	4	65	115	145	185	16	410	160	200	145	100	296	829	366	590	350	390	300	750	M25x1,5	M20x1,5	71,5
65-200/2.2R	80	134	160	200	18	8	4	65	115	145	185	16	455	180	225	145	100	296	829	366	590	380	420	330	750	M25x1,5	M20x1,5	74,0
65-200/2.2	80	134	160	200	18	8	4	65	115	145	185	16	455	180	225	145	100	296	829	366	590	380	420	330	750	M25x1,5	M20x1,5	74,0
65-200/3	80	134	160	200	18	8	4	65	115	145	185	16	455	180	225	145	100	296	829	366	590	380	420	330	750	M25x1,5	M20x1,5	77,5

[1] Standard
[2] On request

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

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



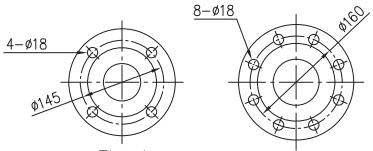


Fig. 1

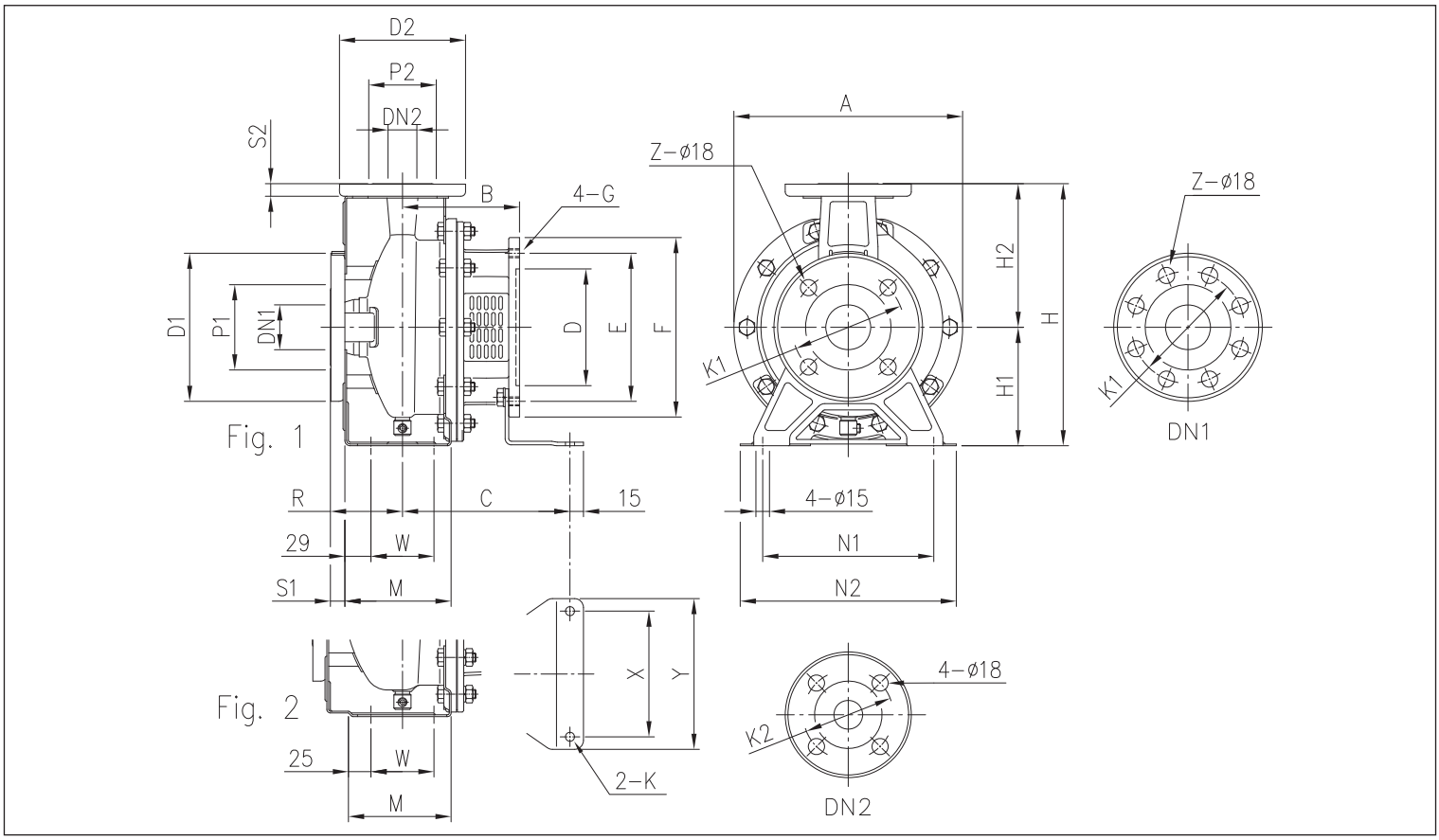
Fig. 2

DIMENSIONS TABLE

Model	Dimensions [mm]																												Weight [kg]
	DN1	P1	D1	S1	DN2	P2	D2	S2	H	H1	H2	H3	H4	H5	R	N1	N2	N3	B	B1	C	D	G	E	T	D4	Sp.	V1	V2	
65-250/4	80	135	200	22	65	120	185	20	510	200	250	161	60	88	100	510	570	440	961	388	470	100	225	760	960	19	8	M25x1,5	M20x1,5	113,5
65-250/5.5	80	135	200	22	65	120	185	20	510	200	250	195	60	68	100	510	570	440	1015	442	470	100	248	760	960	19	8	M32x1,5	M32x1,5	130,0
80-160/1.5	100	155	225	24	80	135	200	22	455	180	225	138	50	90	125	380	420	330	805	317	360	80	180	590	750	15	5	M25x1,5	M20x1,5	80,0
80-160/2.2R	100	155	225	24	80	135	200	22	455	180	225	145	50	80	125	380	420	330	854	366	360	80	196	590	750	15	5	M25x1,5	M20x1,5	86,0
80-160/2.2	100	155	225	24	80	135	200	22	455	180	225	145	50	80	125	380	420	330	854	366	360	80	196	590	750	15	5	M25x1,5	M20x1,5	100,5
80-200/3	100	155	225	24	80	135	200	22	490	180	250	145	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	135	200	22	490	180	250	161	60	68	125	460	520	390	986	388	470	100	225	700	900	19	8	M25x1,5	M20x1,5	116,5
80-200/4	100	155	225	24	80	135	200	22	490	180	250	161	60	68	125	460	520	390	986	388	470	100	225	700	900	19	8	M25x1,5	M20x1,5	117,0
80-250/5.5R	100	155	225	24	80	135	200	22	540	200	280	195	60	68	125	510	570	440	1040	442	470	100	248	760	960	19	8	M32x1,5	M32x1,5	134,0
80-250/5.5	100	155	225	24	80	135	200	22	540	200	280	195	60	68	125	510	570	440	1040	442	470	100	248	760	960	19	8	M32x1,5	M32x1,5	134,5
80-250/7.5	100	155	225	24	80	135	200	22	540	200	280	195	60	68	125	510	570	440	1080	482	470	100	248	760	960	19	8	M32x1,5	M32x1,5	143,5

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

3(L)SF4 32, 40, 50, 65 - up to 1.5 kW **4 Poles**



DIMENSIONS TABLE

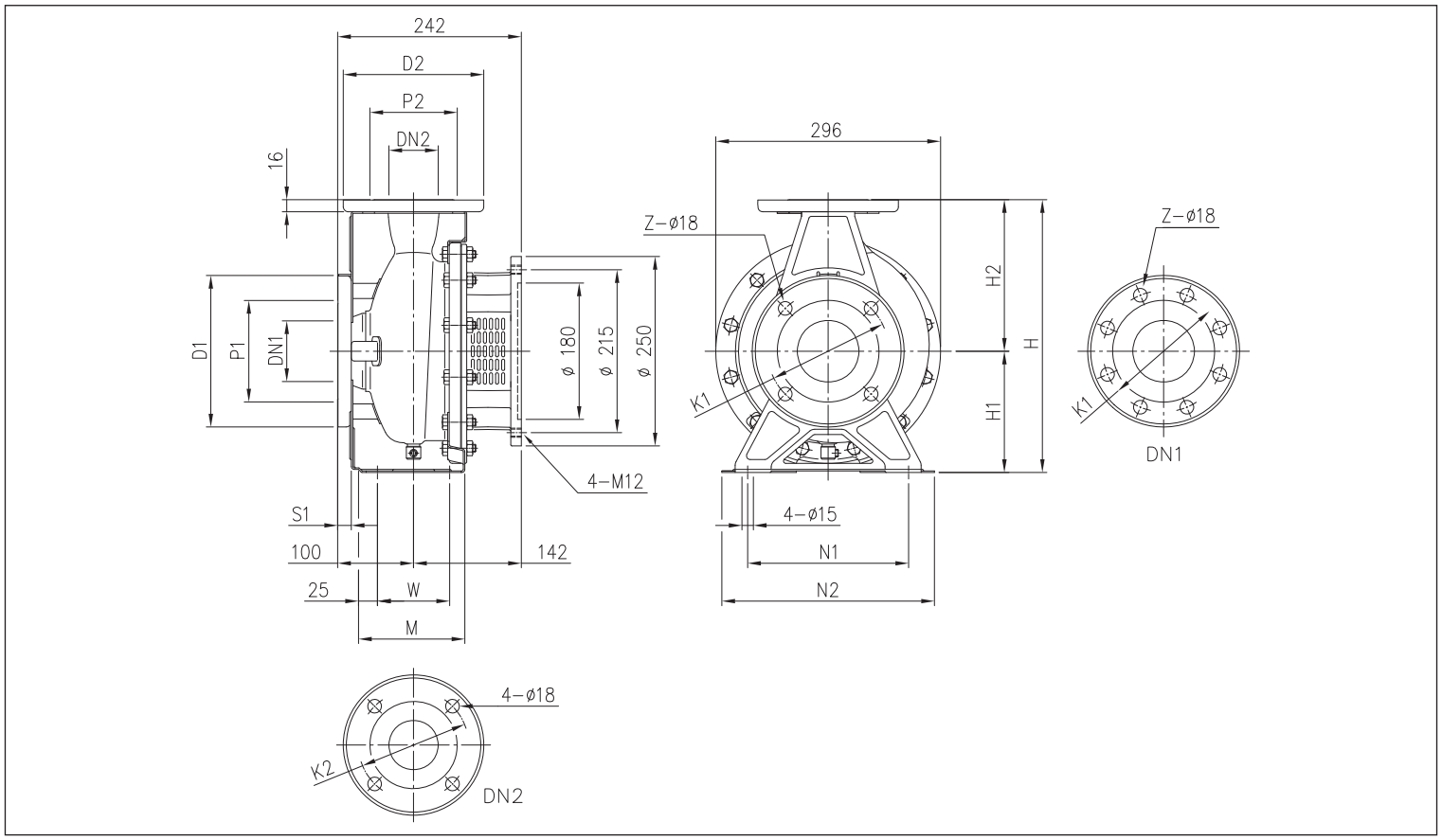
Model	Dimensions [mm]																															Weight [kg]
	Fig.	DN1	P1	K1	D1	S1	Z [1]	Z [2]	DN2	P2	K2	D2	S2	H	H1	H2	M	N1	N2	R	W	A	B	C	D	E	F	G	X	Y	K	
32-125/0.25	1	50	95	125	165	16	4	-	32	75	100	140	14	252	112	140	114	140	190	80	70	213	108	153	110	130	160	M8	112	140	8	15,0
32-160/0.37R	1	50	95	125	165	16	4	-	32	75	100	140	14	292	132	160	118	190	240	80	70	254	108	153	110	130	160	M8	112	140	8	19,5
32-160/0.37	1	50	95	125	165	16	4	-	32	75	100	140	14	292	132	160	118	190	240	80	70	254	108	153	110	130	160	M8	112	140	8	19,5
32-200/0.55R	1	50	95	125	165	16	4	-	32	75	100	140	14	340	160	180	119	190	240	80	70	296	118	174	130	165	200	M10	140	168	10	24,0
32-200/0.55	1	50	95	125	165	16	4	-	32	75	100	140	14	340	160	180	119	190	240	80	70	296	118	174	130	165	200	M10	140	168	10	24,0
32-200/0.75	1	50	95	125	165	16	4	-	32	75	100	140	14	340	160	180	119	190	240	80	70	296	118	174	130	165	200	M10	140	168	10	24,0
40-125/0.37R	1	65	115	145	185	16	4	-	40	80	110	150	14	252	112	140	114	160	210	80	70	213	108	153	110	130	160	M8	112	140	8	16,5
40-125/0.37	1	65	115	145	185	16	4	-	40	80	110	150	14	252	112	140	114	160	210	80	70	213	108	153	110	130	160	M8	112	140	8	16,5
40-160/0.55R	1	65	115	145	185	16	4	-	40	80	110	150	14	292	132	160	118	190	240	80	70	254	118	174	130	165	200	M10	140	168	10	20,0
40-160/0.55	1	65	115	145	185	16	4	-	40	80	110	150	14	292	132	160	118	190	240	80	70	254	118	174	130	165	200	M10	140	168	10	20,0
40-200/1.1R	2	65	115	145	185	16	4	-	40	80	110	150	14	340	160	180	115	212	265	100	70	296	130	186	130	165	200	M10	140	168	10	27,0
40-200/1.1	2	65	115	145	185	16	4	-	40	80	110	150	14	340	160	180	115	212	265	100	70	296	130	186	130	165	200	M10	140	168	10	27,0
40-200/1.5	2	65	115	145	185	16	4	-	40	80	110	150	14	340	160	180	115	212	265	100	70	296	130	186	130	165	200	M10	140	168	10	27,0
50-125/0.55R	2	65	115	145	185	16	4	-	50	95	125	165	16	292	132	160	114	190	240	100	70	254	118	174	130	165	200	M10	140	168	10	21,0
50-125/0.55	2	65	115	145	185	16	4	-	50	95	125	165	16	292	132	160	114	190	240	100	70	254	118	174	130	165	200	M10	140	168	10	21,0
50-160/1.1R	2	65	115	145	185	16	4	-	50	95	125	165	16	340	160	180	115	212	265	100	70	296	130	186	130	165	200	M10	140	168	10	26,0
50-160/1.1	2	65	115	145	185	16	4	-	50	95	125	165	16	340	160	180	115	212	265	100	70	296	130	186	130	165	200	M10	140	168	10	26,0
50-200/1.5R	2	65	115	145	185	16	4	-	50	95	125	165	16	360	160	200	115	212	265	100	70	296	130	186	130	165	200	M10	140	168	10	29,5
50-200/1.5	2	65	115	145	185	16	4	-	50	95	125	165	16	360	160	200	115	212	265	100	70	296	130	186	130	165	200	M10	140	168	10	29,5
65-125/0.55	2	80	134	160	200	18	8	4	65	115	145	185	16	340	160	180	140	212	280	100	95	254	118	174	130	165	200	M10	140	168	10	26,0
65-125/0.75	2	80	134	160	200	18	8	4	65	115	145	185	16	340	160	180	140	212	280	100	95	254	118	174	130	165	200	M10	140	168	10	27,5
65-125/1.1	2	80	134	160	200	18	8	4	65	115	145	185	16	340	160	180	140	212	280	100	95	254	130	186	130	165	200	M10	140	168	10	28,5
65-160/1.1	2	80	134	160	200	18	8	4	65	115	145	185	16	360	160	200	140	212	280	100	95	296	130	186	130	165	200	M10	140	168	10	29,5
65-160/1.5	2	80	134	160	200	18	8	4	65	115	145	185	16	360	160	200	140	212	280	100	95	296	130	186	130	165	200	M10	140	168	10	30,0

[1] Standard
[2] On request

3 - 3L SERIES

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

3(L)SF4 50, 65 - up to 3 kW **4 Poles**



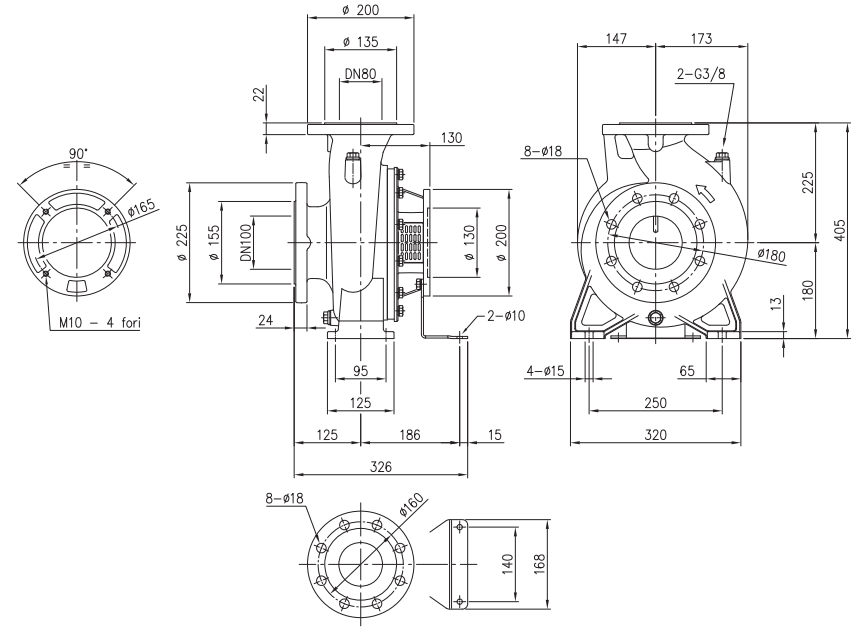
DIMENSIONS TABLE

Model	Dimensions [mm]																		Weight [kg]
	DN1	P1	K1	D1	S1	Z [1]	Z [2]	DN2	P2	K2	D2	H	H1	H2	M	N1	N2	W	
50-200/2.2	65	115	145	185	16	4	-	50	95	125	165	360	160	200	115	212	265	70	29,5
65-160/2.2	80	134	160	200	18	8	4	65	115	145	185	360	160	200	140	212	280	95	30,0
65-200/2.2R	80	134	160	200	18	8	4	65	115	145	185	405	180	225	140	250	320	95	29,5
65-200/2.2	80	134	160	200	18	8	4	65	115	145	185	405	180	225	140	250	320	95	29,5
65-200/3	80	134	160	200	18	8	4	65	115	145	185	405	180	225	140	250	320	95	30,0

[1] Standard
[2] On request

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

3LSF4 80-160/1.5 kW — 4 Poles



Weight
3LSF4 80-160/1.5: 50,2 kg

3LSF4 65-250, 80 - up to 7.5 kW — 4 Poles

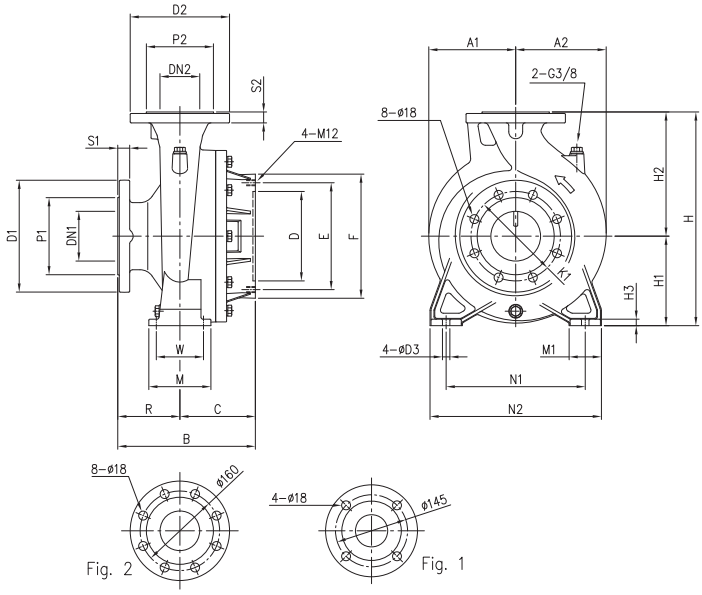


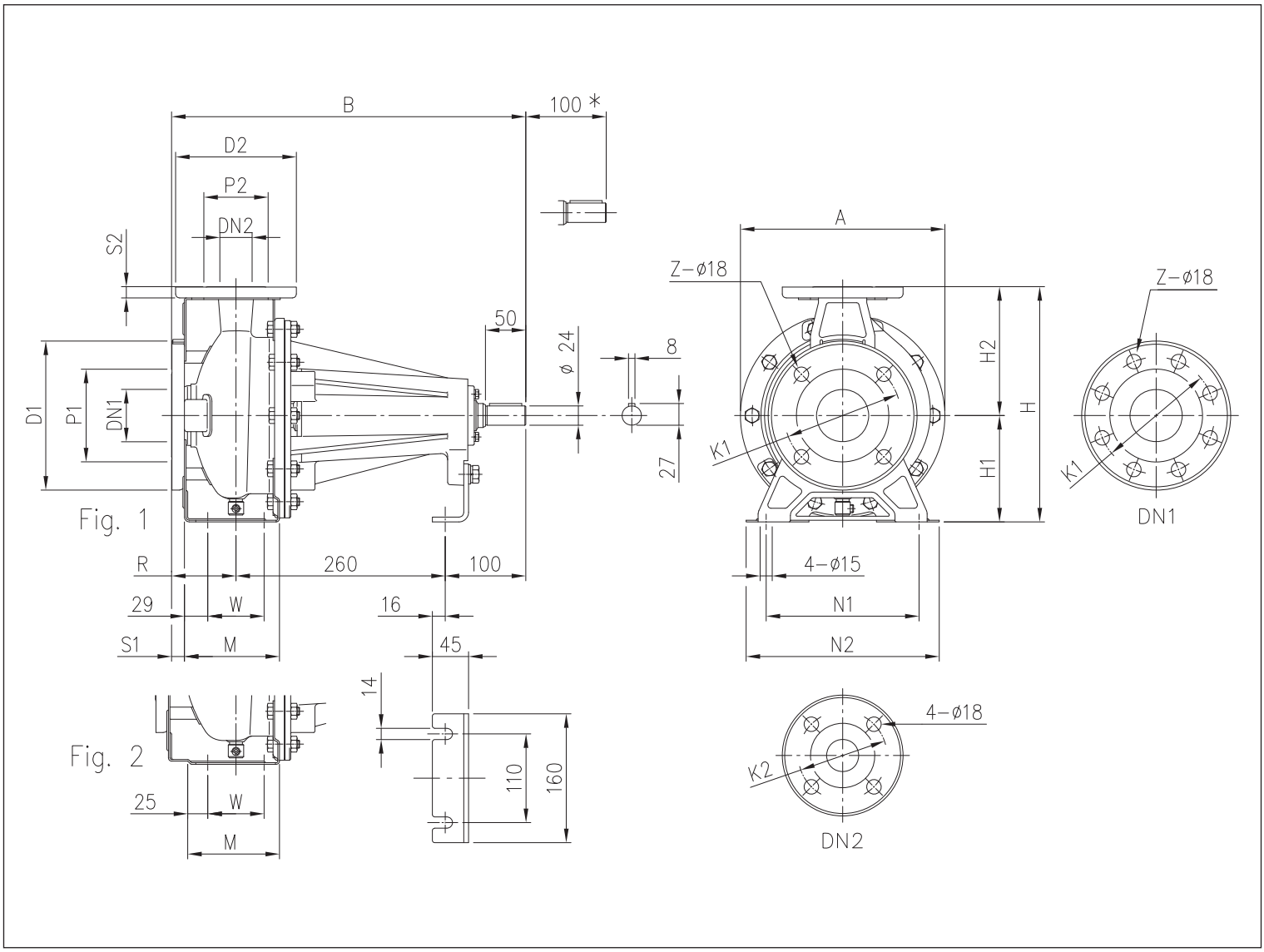
Fig. 2 Fig. 1

DIMENSIONS 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	D3	B	C	D	E	F	A1	A2	
65-250/4	80	135	160	200	22	65 Fig. 1	120	185	20	450	200	250	15	100	120	280	360	160	80	19	252	152	180	215	250	175	182	56,5
65-250/5.5	80	135	160	200	22	65 Fig. 1	120	185	20	450	200	250	15	100	120	280	360	160	80	19	252	152	230	265	300	175	182	53,5
80-160/2.2R	100	155	180	225	24	80 Fig. 2	135	200	22	405	180	225	13	125	95	250	320	125	65	15	267	142	180	215	250	147	173	50,5
80-160/2.2	100	155	180	225	24	80 Fig. 2	135	200	22	405	180	225	13	125	95	250	320	125	65	15	267	142	180	215	250	147	173	50,5
80-200/3	100	155	180	225	24	80 Fig. 2	135	200	22	430	180	250	13	125	95	280	345	125	65	15	277	152	180	215	250	175	182	59,0
80-200/4R	100	155	180	225	24	80 Fig. 2	135	200	22	430	180	250	13	125	95	280	345	125	65	15	277	152	180	215	250	175	182	60,5
80-200/4	100	155	180	225	24	80 Fig. 2	135	200	22	430	180	250	13	125	95	280	345	125	65	15	277	152	180	215	250	175	182	60,5
80-250/5.5R	100	155	180	225	24	80 Fig. 2	135	200	22	480	200	280	15	125	120	315	400	160	80	19	300	175	230	265	300	175	192	58,0
80-250/5.5	100	155	180	225	24	80 Fig. 2	135	200	22	480	200	280	15	125	120	315	400	160	80	19	300	175	230	265	300	175	192	58,0
80-250/7.5	100	155	180	225	24	80 Fig. 2	135	200	22	480	200	280	15	125	120	315	400	160	80	19	300	175	230	265	300	175	192	59,0

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

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



DIMENSIONS TABLE

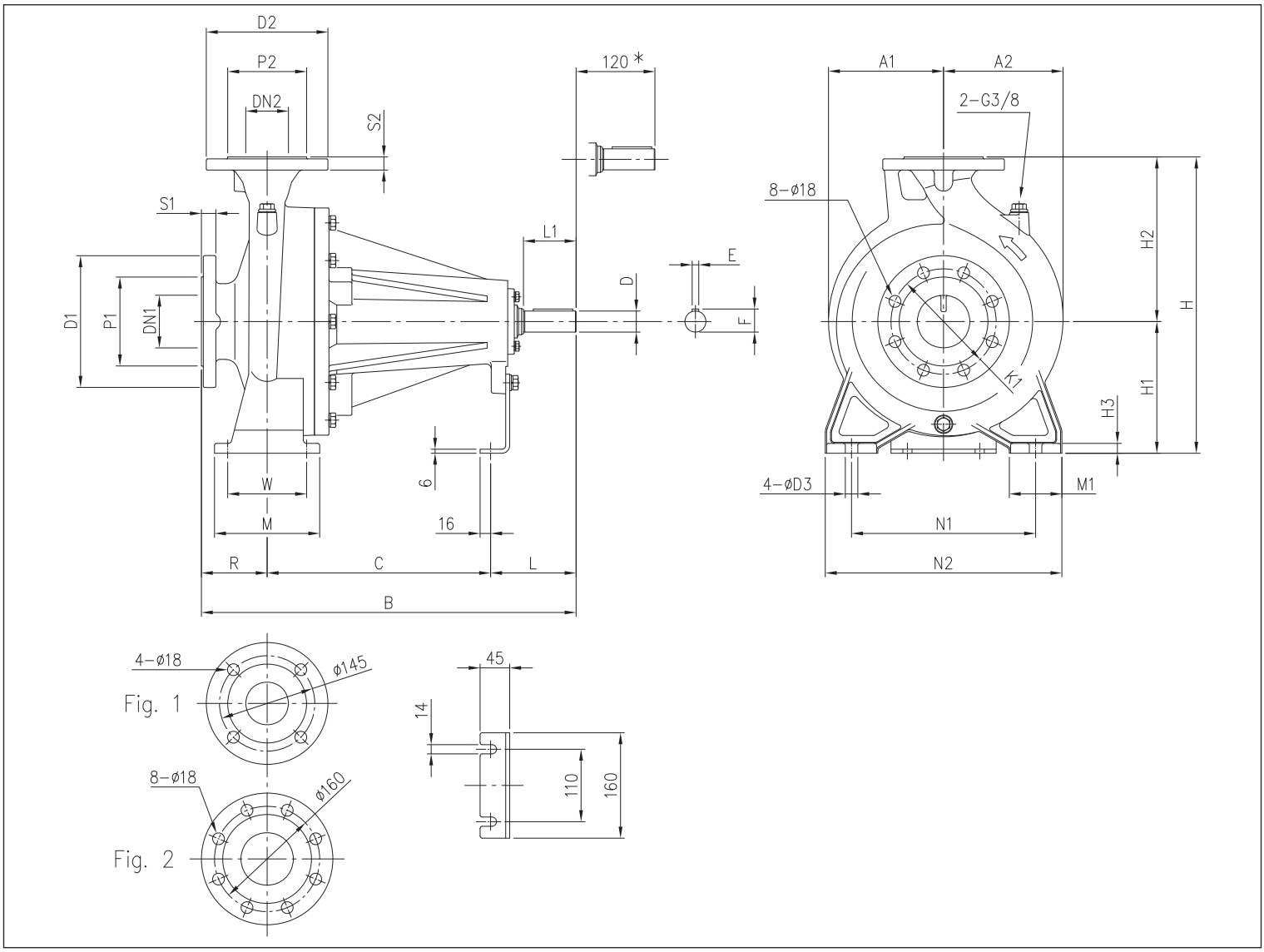
Model	Dimensions [mm]																							Weight [kg]
	Fig.	DN1	P1	K1	D1	S1	Z [1]	Z [2]	DN2	P2	K2	D2	S2	H	H1	H2	M	N1	N2	R	W	A	B	
32-125	1	50	95	125	165	16	4	-	32	75	100	140	14	252	112	140	114	140	190	80	70	213	440	17,0
32-160	1	50	95	125	165	16	4	-	32	75	100	140	14	292	132	160	118	190	240	80	70	254	440	19,0
32-200	1	50	95	125	165	16	4	-	32	75	100	140	14	340	160	180	119	190	240	80	70	296	440	27,0
40-125	1	65	115	145	185	16	4	-	40	80	110	150	14	252	112	140	114	160	210	80	70	213	440	17,0
40-160	1	65	115	145	185	16	4	-	40	80	110	150	14	292	132	160	118	190	240	80	70	254	440	19,0
40-200	2	65	115	145	185	16	4	-	40	80	110	150	14	340	160	180	115	212	265	100	70	296	460	27,0
50-125	2	65	115	145	185	16	4	-	50	95	125	165	16	292	132	160	114	190	240	100	70	254	460	19,0
50-160	2	65	115	145	185	16	4	-	50	95	125	165	16	340	160	180	115	212	265	100	70	296	460	28,0
50-200	2	65	115	145	185	16	4	-	50	95	125	165	16	360	160	200	115	212	265	100	70	296	460	27,0
65-125	2	80	134	160	200	18	8	4	65	115	145	185	16	340	160	180	140	212	280	100	95	254	460	28,0
65-160	2	80	134	160	200	18	8	4	65	115	145	185	16	360	160	200	140	212	280	100	95	296	460	29,0
65-200	2	80	134	160	200	18	8	4	65	115	145	185	16	405	180	225	140	250	320	100	95	296	460	30,0

[1] Standard
[2] On request

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

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

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



DIMENSIONS TABLE

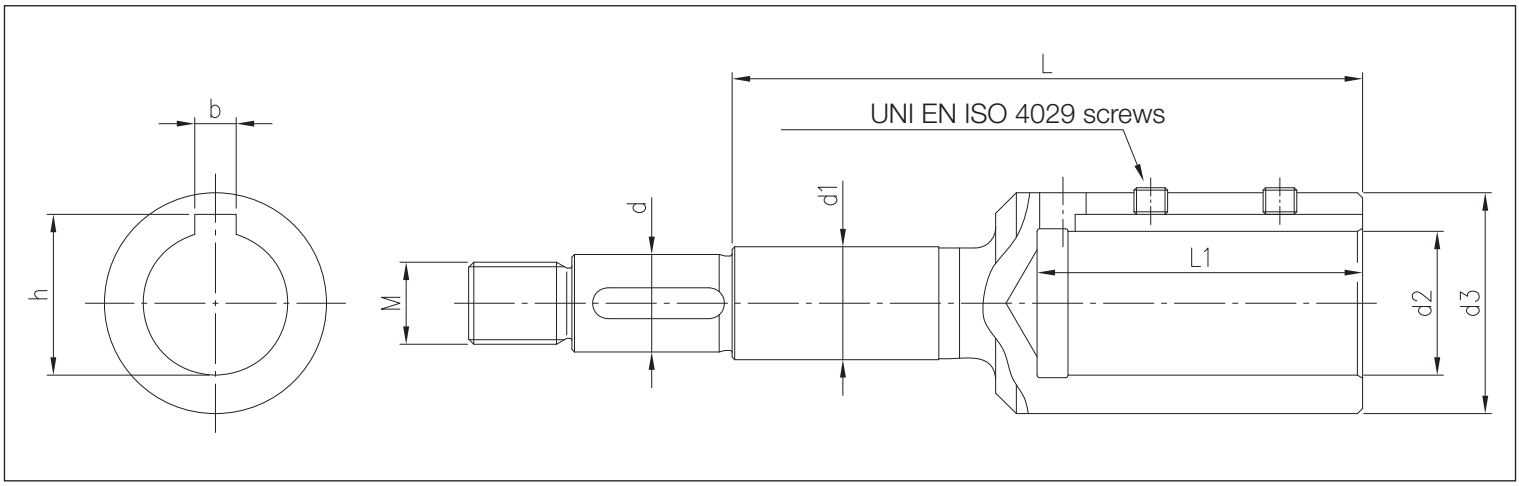
Model	Dimensions [mm]																													Weight [kg]
	DN1	P1	K1	D1	S1	DN2	P2	D2	S2	H	H1	H2	H3	R	W	N1	N2	M	M1	L	L1	D	D3	E	F	A1	A2	B	C	
65-250	80	135	160	200	22	65 Fig. 1	120	185	20	450	200	250	15	100	120	280	360	160	80	130	80	32	19	10	35	175	182	570	340	82,0
80-160	100	155	180	225	24	80 Fig. 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 (FORMER DIN 24255)

Joint for 3(L)S4 - 3SF4 Series **4 Poles**



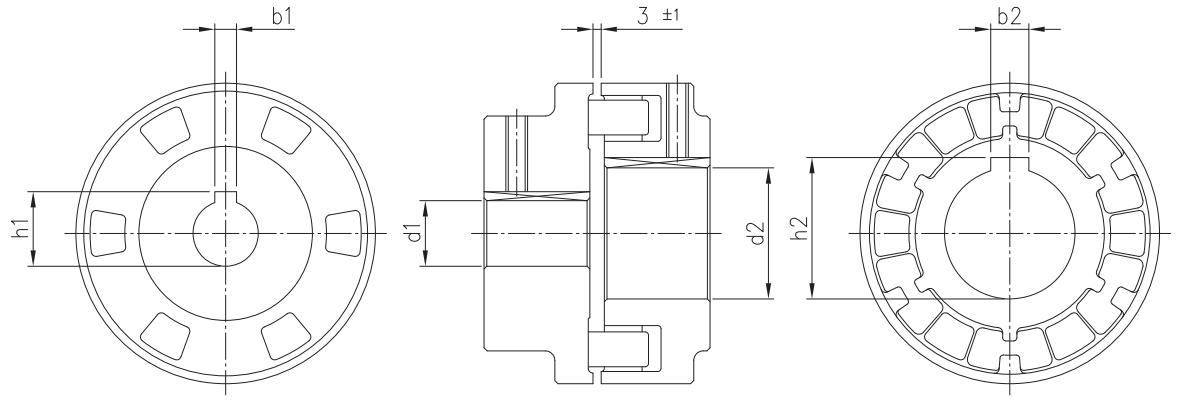
DIMENSIONS TABLE

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

3 - 3L SERIES

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

Joint for 3(L)P4 Series **4 Poles**



DIMENSIONS TABLE

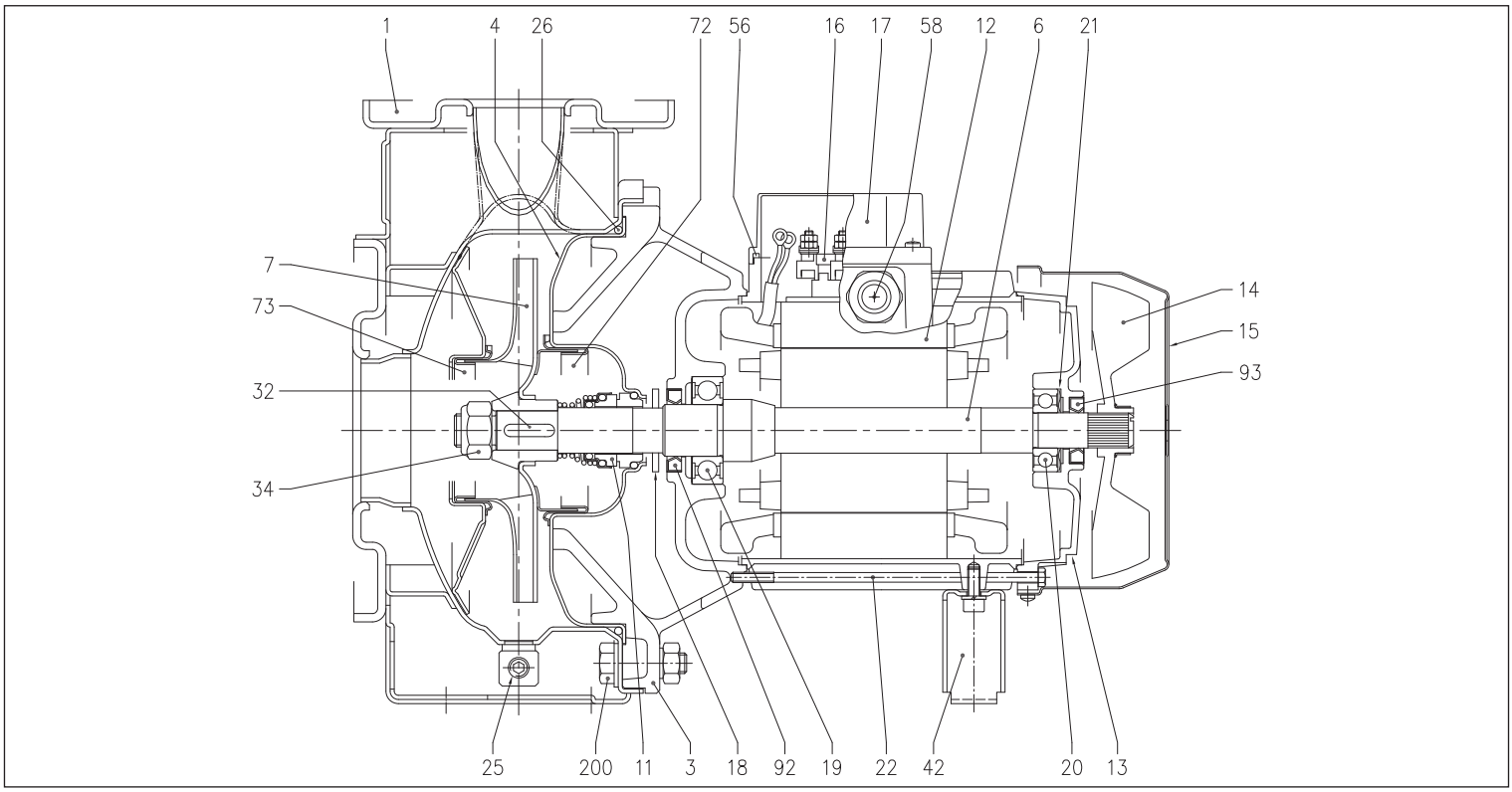
Model	[HP]	[kW]	Motor size	Dimensions [mm]					
				d1	b1	h1	d2	b2	h2
32-125/0.25	0,33	0,25	71	24	8	27,3	14	5	16,3
32-160/0.37R	0,5	0,37	71	24	8	27,3	14	5	16,3
32-160/0.37	0,5	0,37	71	24	8	27,3	14	5	16,3
32-200/0.55R	0,75	0,55	80	24	8	27,3	19	6	21,8
32-200/0.55	0,75	0,55	80	24	8	27,3	19	6	21,8
32-200/0.75	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

3 - 3L SERIES

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

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

4 Poles



MATERIALS TABLE

Ref.	Name	Material 3M4	Material 3LM4
001	Pump body	EN 1.4301 (AISI 304)	EN 1.4404 (AISI 316L)
003	Motor support	Cast iron EN-GJL-200-EN 1561	
004	Seal housing disc	EN 1.4301 (AISI 304)	EN 1.4404 (AISI 316L)
006	Rotor shaft (part in contact with the liquid)	EN 1.4301 (AISI 304)	EN 1.4404 (AISI 316L)
007	Impeller 32, 40, 50	EN 1.4301 (AISI 304)	EN 1.4404 (AISI 316L)
	Impeller 65-125/160/200	EN 1.4401 (AISI 316)	
011	Mechanical seal	Carbon/Ceramic/NBR	SiC/SiC/FPM
012	Motor case	-	
013	Motor cover	Aluminium	
014	Fan	Polyamide	
015	Fan cover	Galvanised steel Fe P04	
016	Terminal box	-	
017	Terminal box cover	Aluminium (three phase version)	
018	Spray protector washer	NBR	-
019	Bearing (pump side)	-	
020	Bearing (motor side)	-	
021	Adjusting ring	Steel C70	
022	Tie-rod	Galvanised steel Fe 42	
025	Drain plug	EN 1.4401 (AISI 316) / PTFE	
026	O-Ring	NBR	FPM
032	Key	EN 1.4401 (AISI 316)	
034	Impeller nut	EN 1.4301 (AISI 304)	EN 1.4404 (AISI 316L)
042	Foot	Aluminium / Galvanised Steel	
056	Terminal box cover gasket	NBR	
058	Cable gland	-	
072	Wear ring [1]	EN 1.4301 (AISI 304)	EN 1.4404 (AISI 316L)
073	Wear ring	EN 1.4301 (AISI 304)	EN 1.4404 (AISI 316L)
092	Sealing ring	-	-
093	Sealing ring	-	-
200	Screw (pump body)	Stainless steel A270 class ISO 3506/1	

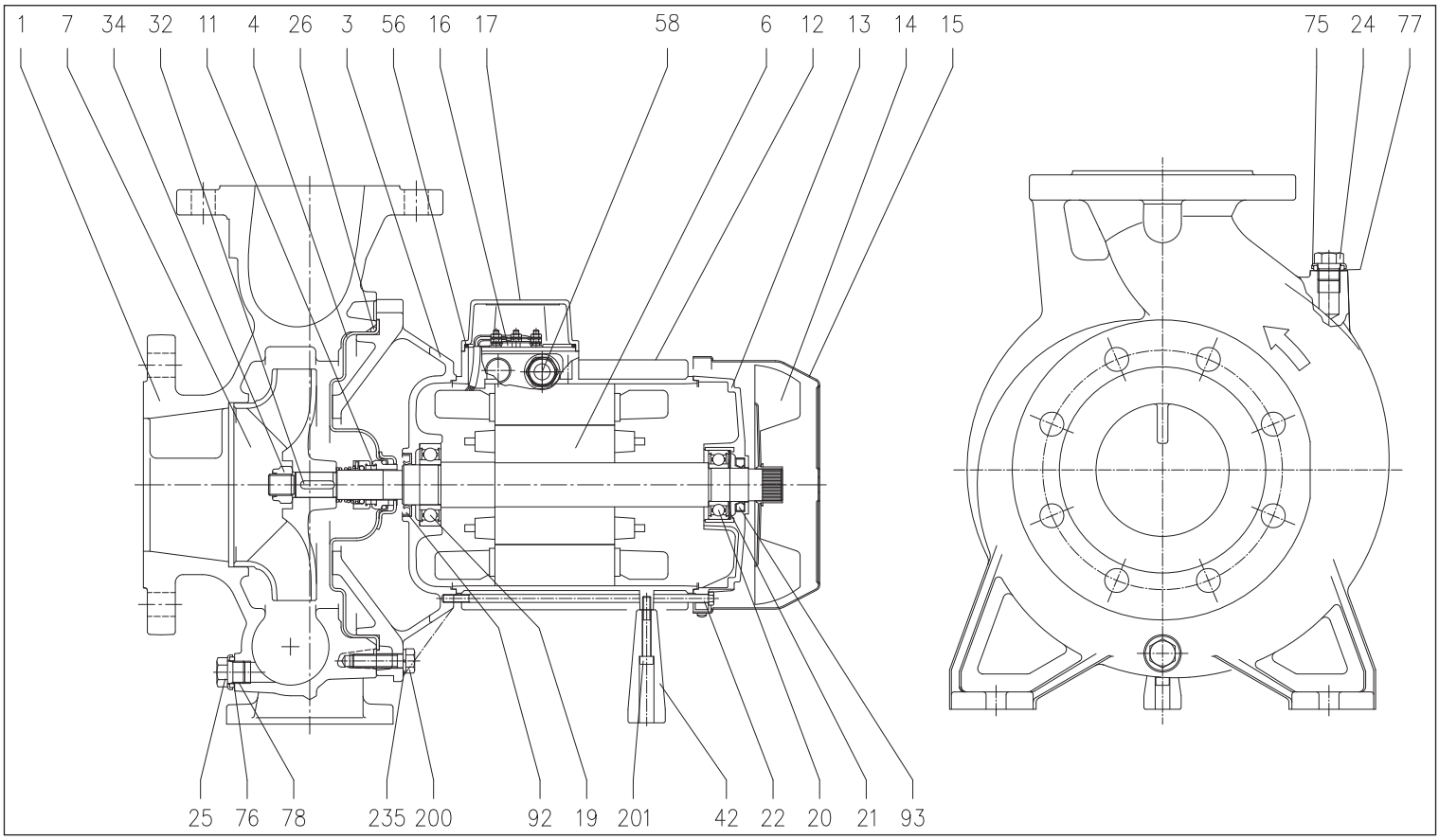
[1]= For 32-200, 40-200, 50-160 , 50-200 versions

3 - 3L SERIES

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

3LM4 80-160 SECTIONAL VIEW

4 Poles



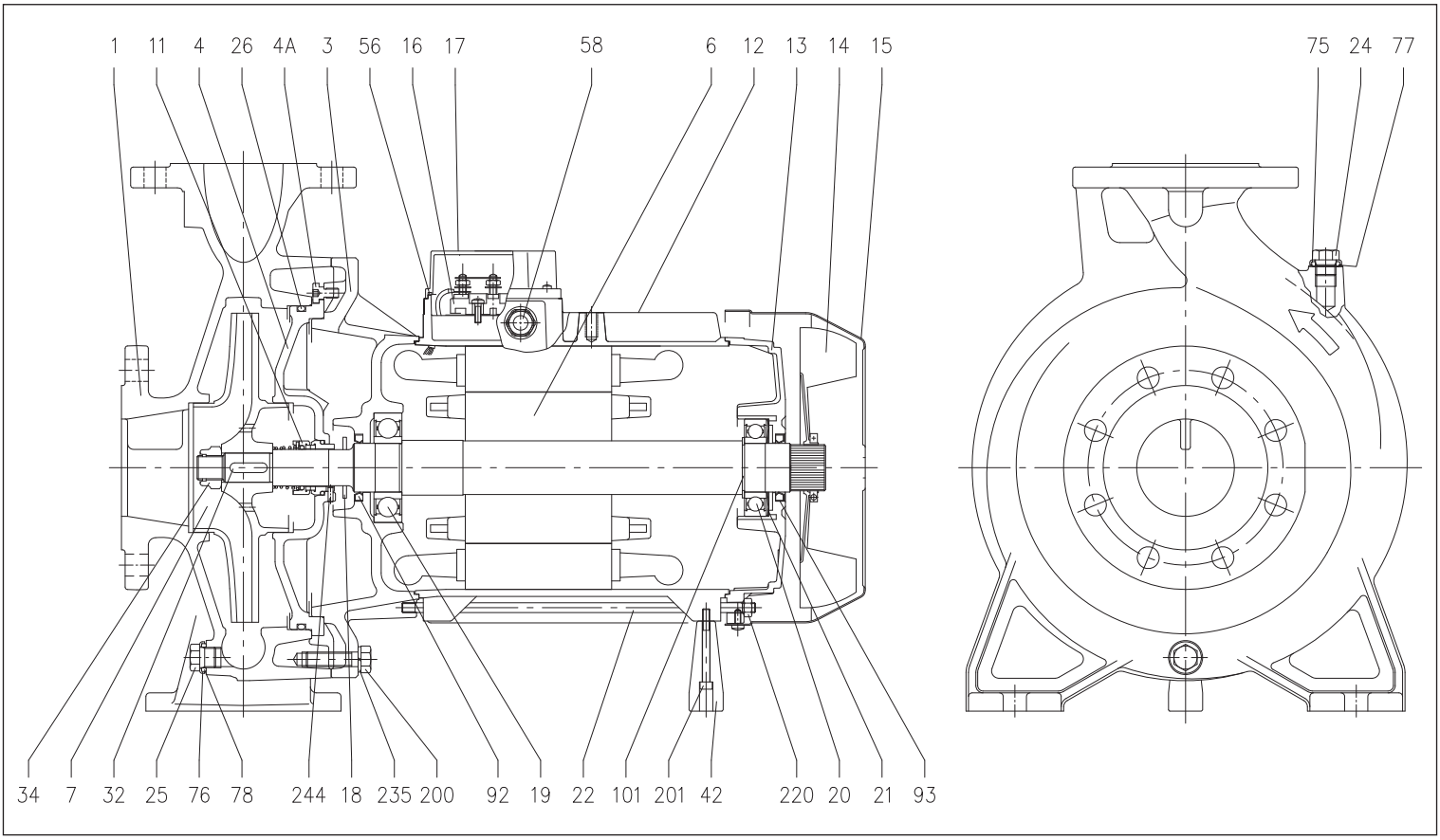
MATERIALS TABLE

Ref.	Name	Material	Ref.	Name	Material
001	Pump body	EN 1.4401 (AISI 316)	025	Drain plug	EN 1.4404 (AISI 316L)
003	Motor support	Cast iron EN-GJL-200-EN 1561	026	O-Ring	FPM
004	Seal housing disc	EN 1.4404 (AISI 316L)	032	Key	EN 1.4404 (AISI 316L)
006	Rotor 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	Foot	Aluminium
011	Mechanical seal	SiC/SiC/FPM	056	Terminal box cover gasket	NBR
012	Motor case	-	058	Cable gland	-
013	Motor cover	Aluminium	075	Washer	EN 1.4404 (AISI 316L)
014	Fan	Polyamide	076	Washer	EN 1.4404 (AISI 316L)
015	Fan cover	Galvanised steel Fe P04	077	O-Ring	FPM
016	Terminal box	-	078	O-Ring	
017	Terminal box cover	Aluminium	092	Sealing ring	-
019	Bearing (pump side)	-			
020	Bearing (motor side)	-	093	Sealing ring	-
021	Adjusting ring	Steel C70	200	Screw (pump body)	Stainless steel A2-70 class ISO 3506/1
022	Tie-rod	Galvanised steel Fe 42	201	Foot screw	Stainless steel A2-70 class ISO 3506/1
024	Filler cap	EN 1.4404 (AISI 316L)	235	Washer	EN 1.4301 (AISI 304)

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

3LM4 65-250, 80 SECTIONAL VIEW

4 Poles



MATERIALS TABLE

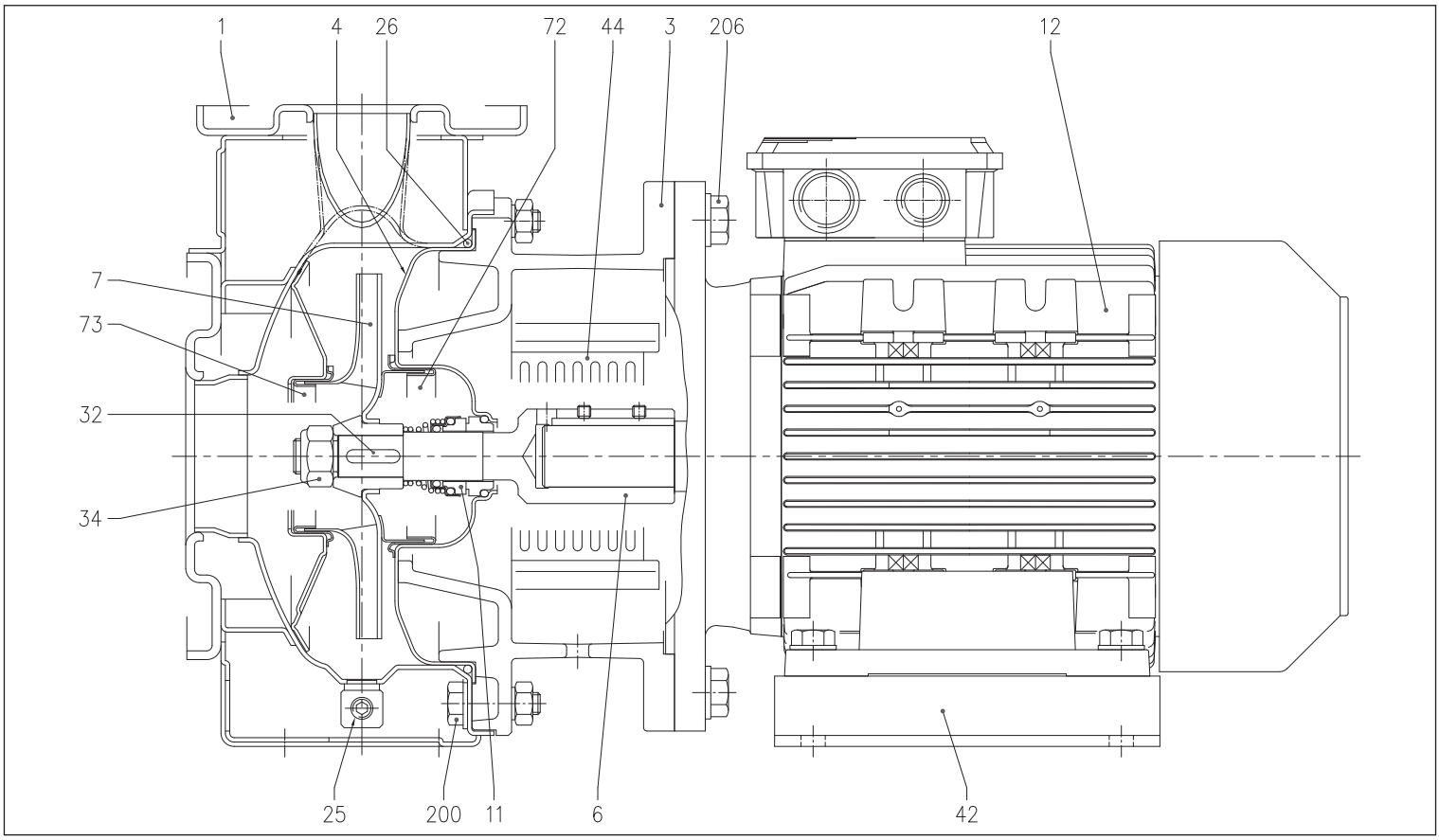
Ref.	Name	Material	Ref.	Name	Material
001	Pump body	EN 1.4401 (AISI 316)	032	Key	EN 1.4404 (AISI 316L)
003	Motor support	Cast iron EN-GJL-200-EN 1561	034	Impeller nut	Aluminium
004	Seal housing disc	EN 1.4401 (AISI 316)	042	Foot	Aluminium
004A	Screw for seal housing disc	EN 1.4301 (AISI 304)	056	Terminal box cover gasket	NBR
006	Rotor 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	SiC/SiC/FPM	076	Washer	
012	Motor case	-	077	O-Ring	FPM
013	Motor cover	Aluminium	078	O-Ring	
014	Fan	Polyamide	092	Sealing ring (3-4 kW, 5,5-7,5 kW)	-
015	Fan cover	Galvanised steel Fe P04			
016	Terminal box	-	093	Sealing ring (3 kW, 4 kW, 5,5-7,5 kW)	-
017	Terminal box cover	Aluminium			
018	Spray protector washer	NBR			
019	Bearing (pump side)	-	101	Seeger ring (for 5.5-7.5 kW only)	Carbon steel TC 80
020	Bearing (motor side)	-	200	Screw (pump body)	Stainless steel A2-70 class ISO 3506/1
021	Adjusting ring	Steel C70	201	Foot screw	Stainless steel A2-70 class ISO 3506/1
022	Tie-rod	Galvanised steel Fe 42	220	Nut for tie-rod	Galvanised Steel
024	Filler cap	EN 1.4404 (AISI 316L)	235	Washer	EN 1.4301(AISI 304)
025	Drain plug	EN 1.4404 (AISI 316L)	244	Plug [1]	EN 1.4301(AISI 304)
026	O-Ring	FPM			

[1]=Not for H and E versions

3 - 3L SERIES

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

3(L)S4 32, 40, 50, 65 SECTIONAL VIEW



MATERIALS TABLE

Ref.	Name		Material 3S4	Material 3LS4
001	Pump body		EN 1.4301 (AISI 304)	EN 1.4404 (AISI 316L)
003	Motor support		Cast iron EN-GJL-200-EN 1561	
004	Seal housing disc		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	32, 40, 50	EN 1.4301 (AISI 304)	EN 1.4404 (AISI 316L)
		65-125/160/200	EN 1.4401 (AISI 316)	
011	Mechanical seal		Carbon/Ceramic/NBR	SiC/SiC/FPM
012	Motor		-	
025	Drain plug		EN 1.4401 (AISI 316) / PTFE	
026	O-Ring		NBR	FPM
032	Key	fino a 1 kW	EN 1.4401 (AISI 316)	
034	Impeller nut		EN 1.4301 (AISI 304)	EN 1.4404 (AISI 316L)
042	Foot		Galvanised Steel	
044	Support protection		EN 1.4301 (AISI 304)	
072	Wear ring [1]	not for the 65	EN 1.4301 (AISI 304)	EN 1.4404 (AISI 316L)
073	Wear ring	not for the 65	EN 1.4301 (AISI 304)	EN 1.4404 (AISI 316L)
200	Screw (pump body)		Stainless steel A270 class ISO 3506/1	
206	Screw		Galvanised Steel	

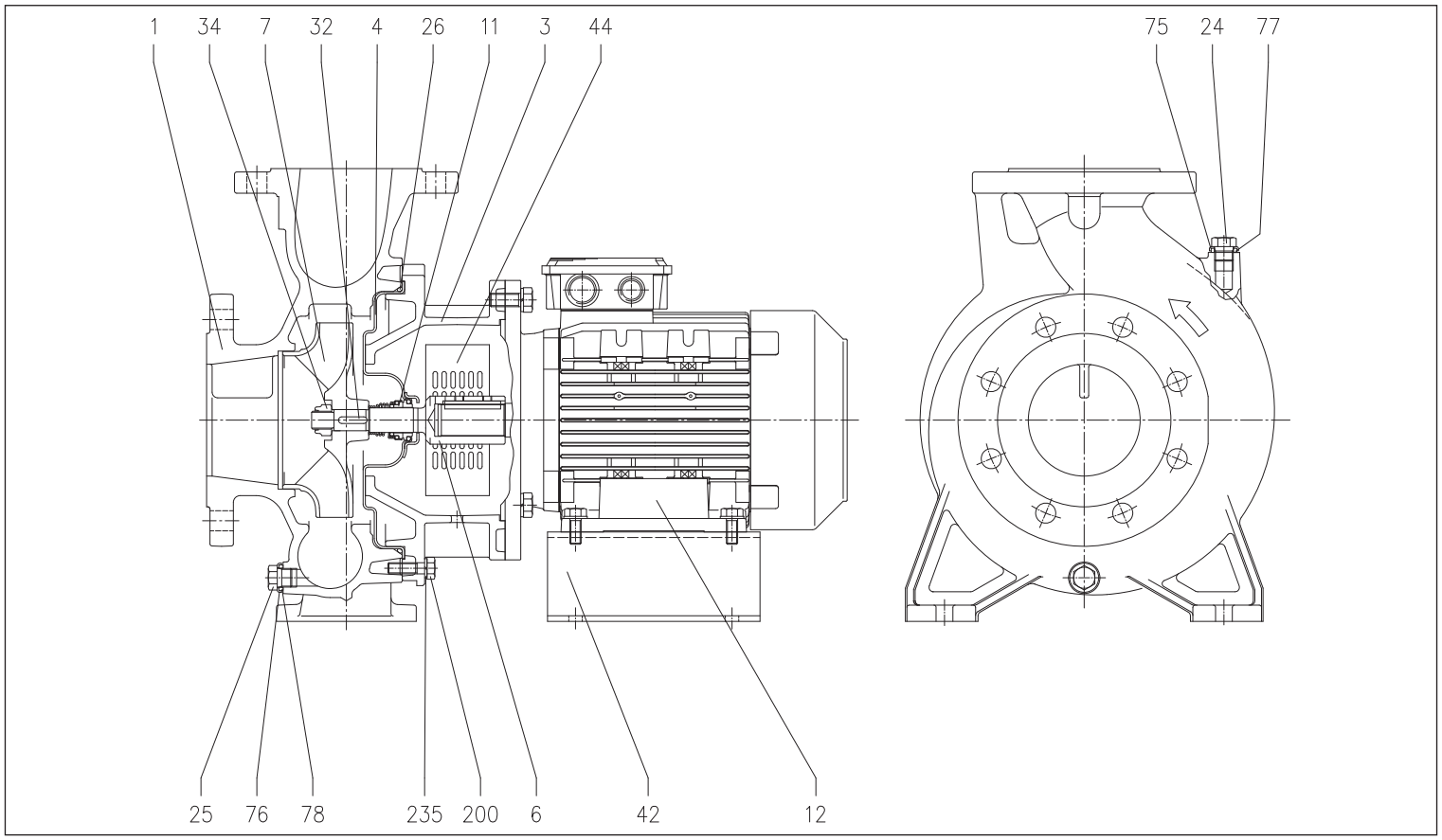
[1]= For 32-200, 40-200, 50-160, 50-200 only

3 - 3L SERIES

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

3LS4 80-160 SECTIONAL VIEW

4 Poles



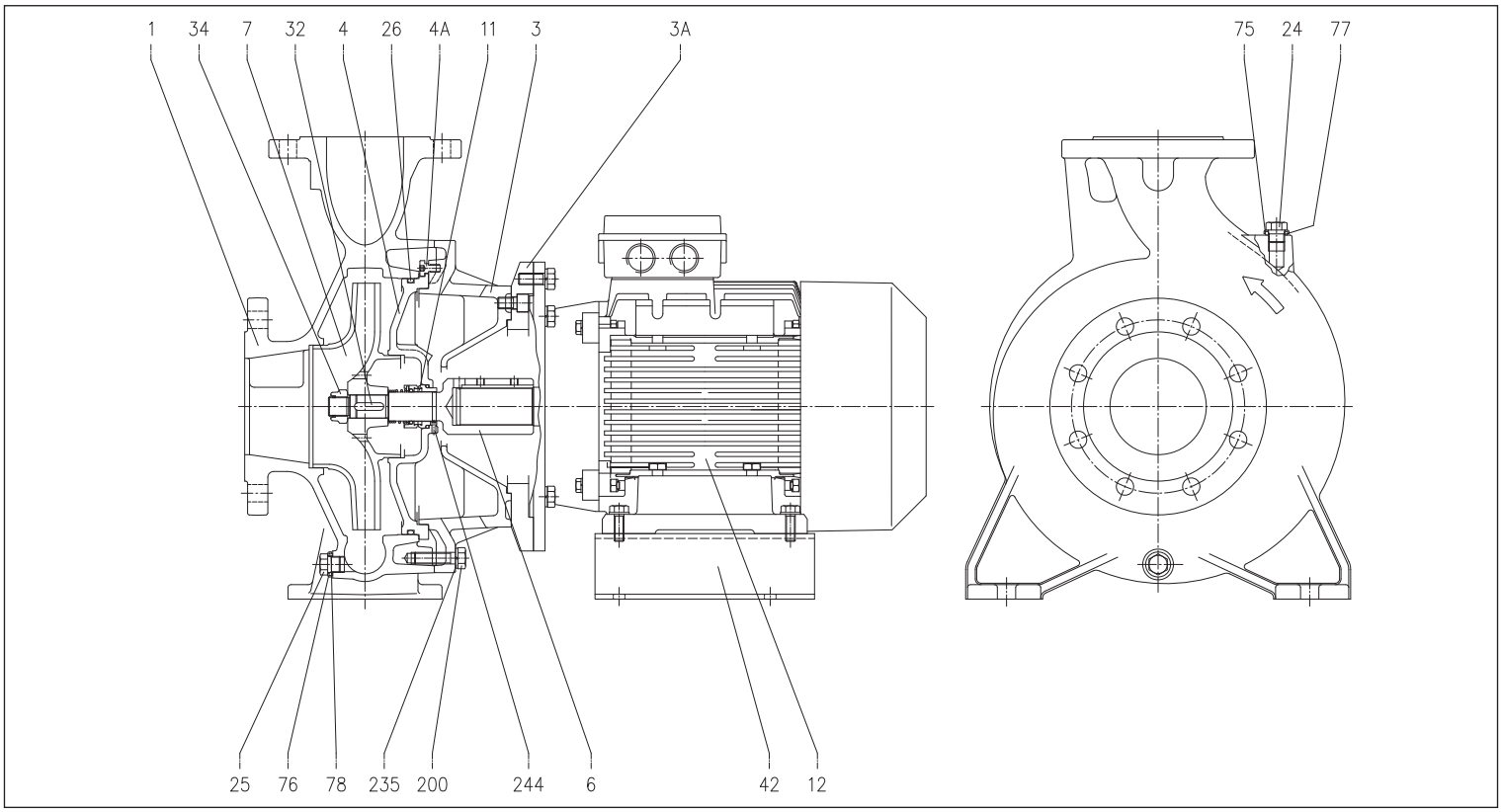
MATERIALS TABLE

Ref.	Name	Material	Ref.	Name	Material
001	Pump body	EN 1.4401 (AISI 316)	032	Key	EN 1.4401 (AISI 316)
003	Motor support	Cast iron EN-GJL-200-EN 1561	034	Impeller nut	EN 1.4404 (AISI 316L)
004	Seal housing disc	EN 1.4404 (AISI 316L)	042	Foot	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	SiC/SiC/FPM	076	Washer	
012	Motor	-	077	O-Ring	FPM
024	Filler cap	EN 1.4404 (AISI 316L)	078	O-Ring	
025	Drain plug	EN 1.4404 (AISI 316L)	200	Screw (pump body)	Stainless steel A2-70 class ISO 3506/1
026	O-Ring	FPM	235	Washer	EN 1.4301(AISI 304)

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

3LS4 65-250, 80 RANGE SECTIONAL VIEW

4 Poles



MATERIALS TABLE

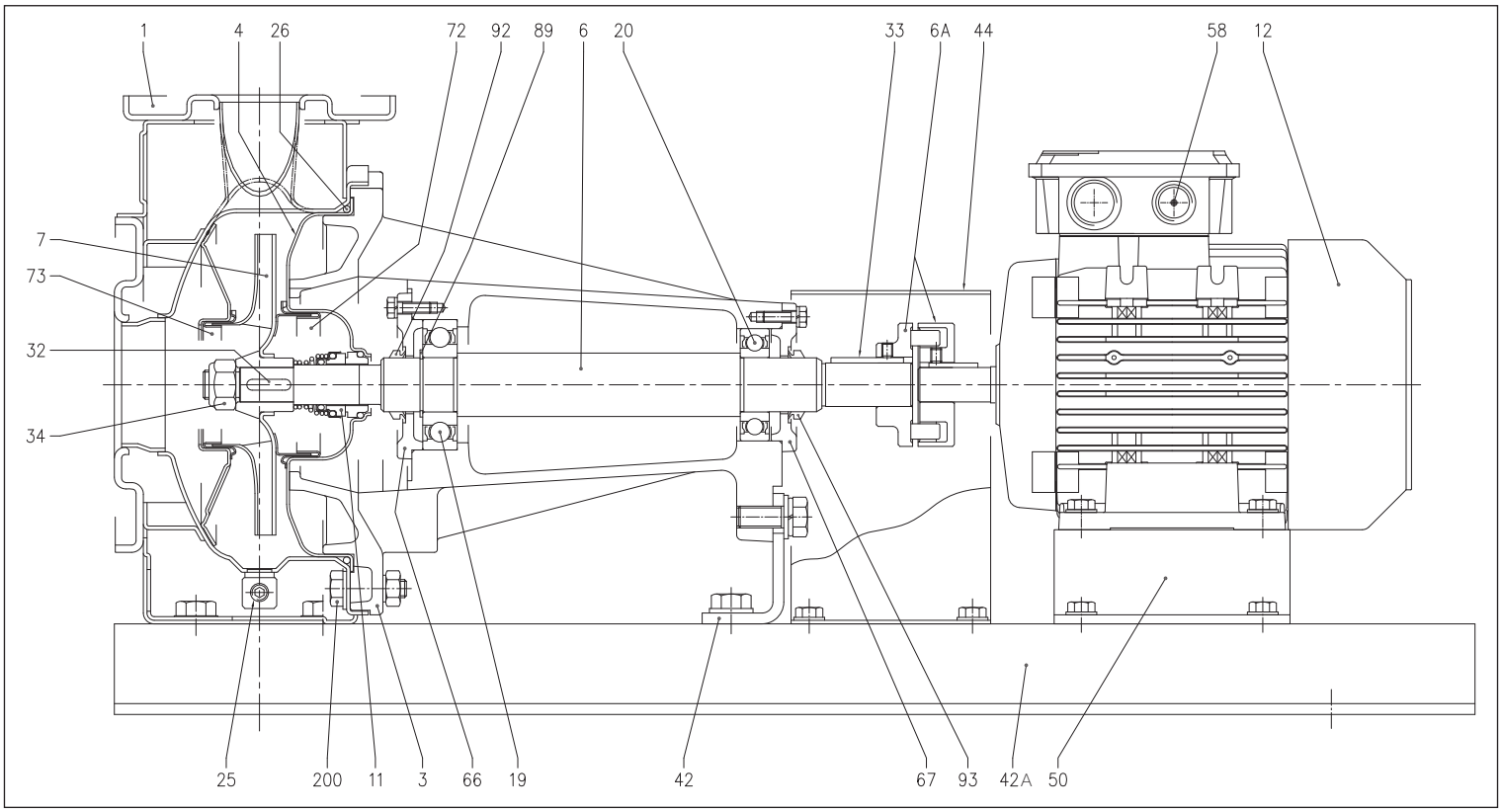
Ref.	Name	Material	Ref.	Name	Material
001	Pump body	EN 1.4401 (AISI 316)	032	Key	EN 1.4401 (AISI 316)
003	Motor support	Cast iron EN-GJL-200-EN 1561	034	Impeller nut	EN 1.4404 (AISI 316L)
003A	Adapter ring [1]	Cast iron EN-GJL-200-EN 1561	042	Motor foot	Galvanised Steel
004	Seal housing disc	EN 1.4401 (AISI 316)	075	Washer	EN 1.4404 (AISI 316L)
004A	Seal housing disc screw	EN 1.4301(AISI 304)	076	Washer	
006	Joint	EN 1.4404 (AISI 316L)	077	O-Ring	FPM
007	Impeller	EN 1.4401 (AISI 316)	078	O-Ring	
011	Mechanical seal	SiC/SiC/FPM	200	Screw (pump body)	Stainless steel A2-70 class ISO 3506/1
012	Motor	-	235	Washer	EN 1.4301(AISI 304)
024	Filler cap	EN 1.4404 (AISI 316L)	244	Plug [2]	EN 1.4301(AISI 304)
025	Drain plug	EN 1.4404 (AISI 316L)			
026	O-Ring	FPM			

[1]= For 65-250/5.5 kW only
[2]= Not for H and E versions

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

3(L)P4 32, 40, 50, 65 SECTIONAL VIEW

4 Poles



MATERIALS TABLE

Ref.	Name		Material 3P4	Material 3LP4
001	Pump body		EN 1.4301 (AISI 304)	EN 1.4404 (AISI 316L)
003	Motor support		Cast iron EN-GJL-200-EN 1561	
004	Seal housing disc		EN 1.4301 (AISI 304)	EN 1.4404 (AISI 316L)
006	Shaft - Part in contact with the liquid Seal housing disc		EN 1.4301 (AISI 304)	EN 1.4404 (AISI 316L)
006A	Joint		Cast iron EN-GJL-250-EN 1561	
007	Impeller	32, 40, 50	EN 1.4301 (AISI 304)	EN 1.4404 (AISI 316L)
		65-125/160/200	EN 1.4401 (AISI 316)	
011	Mechanical seal		Carbon/Ceramic/NBR	SiC/SiC/FPM
012	Motor		-	
019	Bearing (pump side)		-	
020	Bearing (motor side)		-	
025	Drain plug		EN 1.4401 (AISI 316) / PTFE	
026	O-Ring		NBR	FPM
032	Key		EN 1.4401 (AISI 316)	
033	Key		C 40	
034	Impeller nut		EN 1.4301 (AISI 304)	EN 1.4404 (AISI 316L)
042	Foot		Galvanised Steel	
042A	Base		Galvanised steel Fe 37	
044	Joint cover		Galvanised Steel	
050	Foot		Galvanised Steel	
058	Cable gland		-	
066	Support cover		Cast iron EN-GJL-250-EN 1561	
067	Support cover		Cast iron EN-GJL-250-EN 1561	
072	Wear ring [1]	not for the 65	EN 1.4301 (AISI 304)	EN 1.4404 (AISI 316L)
073	Wear ring	not for the 65	EN 1.4301 (AISI 304)	EN 1.4404 (AISI 316L)
089	Seeger ring		Carbon steel TC 80	
092	Sealing ring		-	
093	Sealing ring		-	
200	Screw (pump body)		Stainless steel A270 class ISO 3506/1	

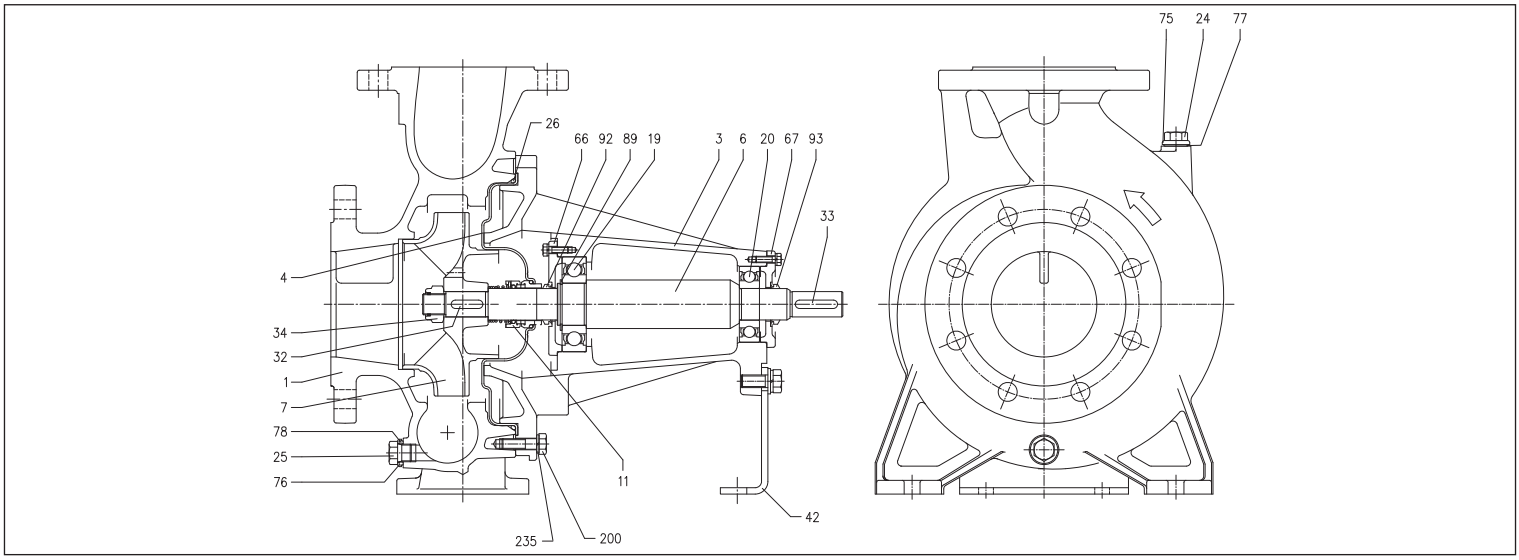
[1]= For the versions: 32-200/3, 32-200/4, 32-200/5.5, 40-200/5.5, 40-200/5.5, 40-200/7.5, 40-200/11, 50-160/5.5, 50-160/7.5, 50-200/9.2, 50-200/11, 50-200/15

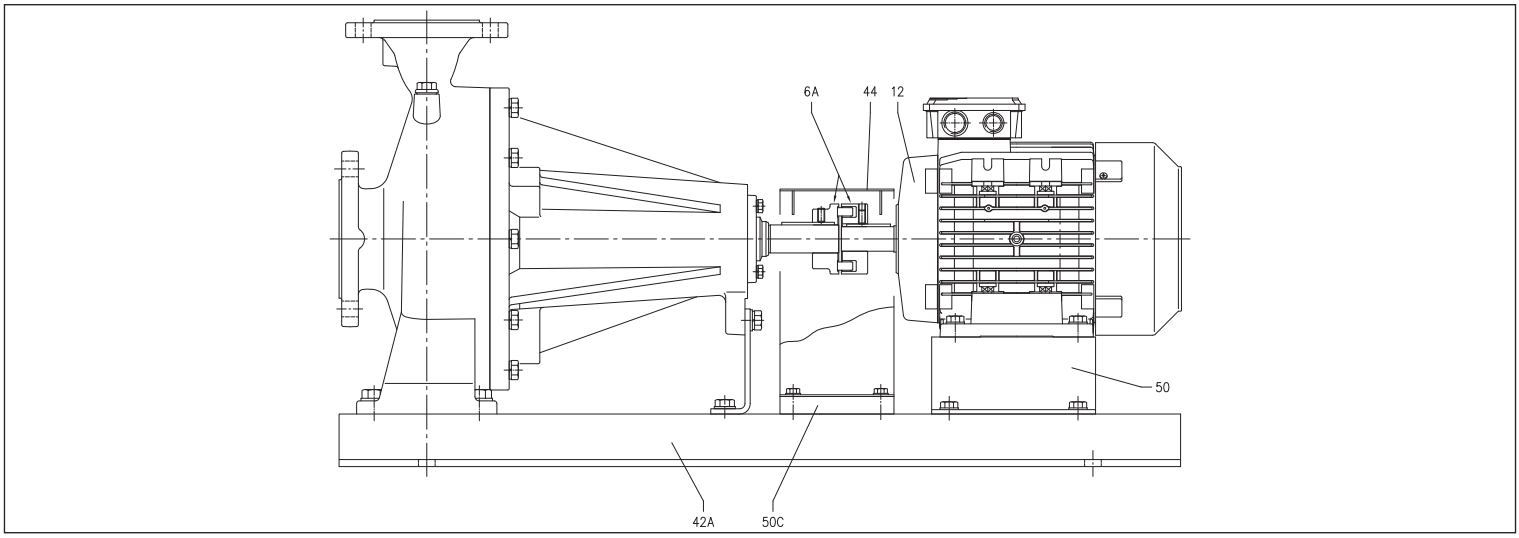
3 - 3L SERIES

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

3LP4 80-160 SECTIONAL VIEW

4 Poles





MATERIALS TABLE

Ref.	Name	Material	Ref.	Name	Material
001	Pump body	EN 1.4401 (AISI 316)	042	Pump support	Galvanised Steel
003	Motor support	Cast iron EN-GJL-200-EN 1561	042A	Base	Galvanised Steel
004	Seal housing disc	EN 1.4404 (AISI 316L)	044	Protection	Galvanised Steel
006	Shaft	EN 1.4404 (AISI316L) Part in contact with the liquid	050	Foot	Aluminium
006A	Joint	Cast iron EN-GJL-250-EN 1561	050C	Protection spacer	-
007	Impeller	EN 1.4401 (AISI 316)	066	Support cover	Cast iron EN-GJL-200-EN 1561
011	Mechanical seal	SiC/SiC/FPM	067	Support 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	FPM
024	Filler cap	EN 1.4404 (AISI 316L)	078	O-Ring	
025	Drain plug	EN 1.4404 (AISI 316L)	089	Seeger ring	Carbon steel TC 80
026	O-Ring	FPM	092	Ring V	-
032	Key	EN 1.4401 (AISI 316)	093	Ring V	Stainless steel A270 class ISO 3506/1
033	Key	C 40	200	Screw (pump body)	EN 1.4301(AISI 304)
034	Impeller nut	EN 1.4404 (AISI 316L)	235	Washer	

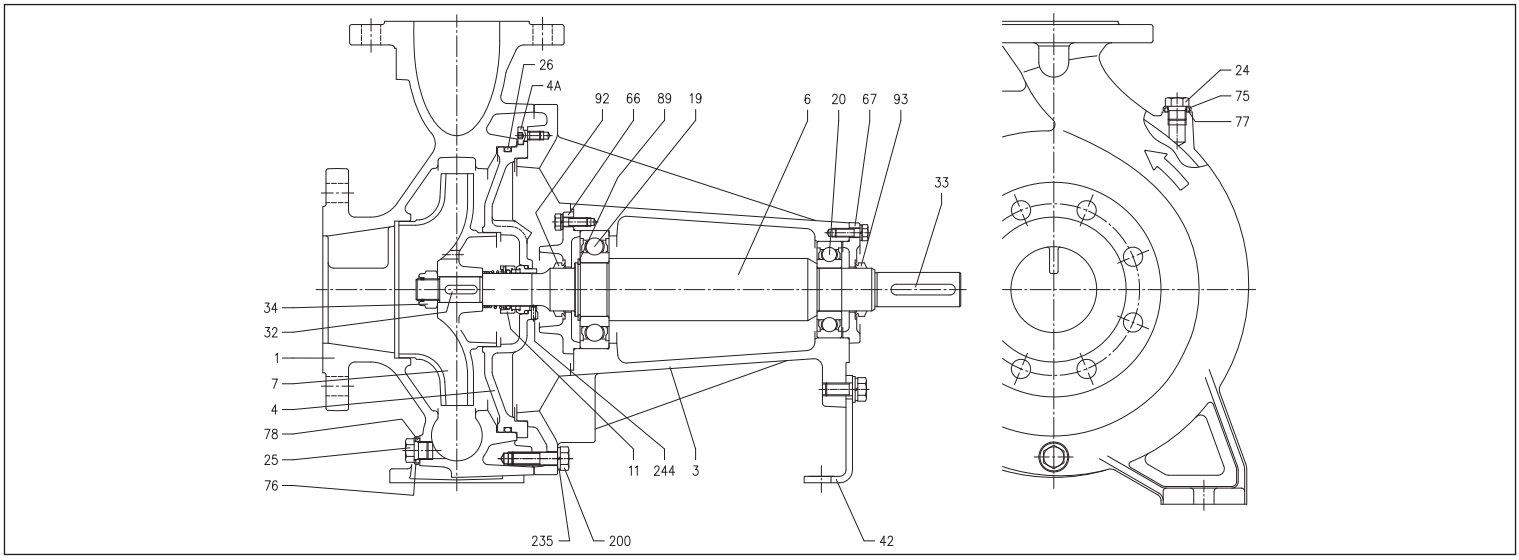
[1]= Not for H and E versions

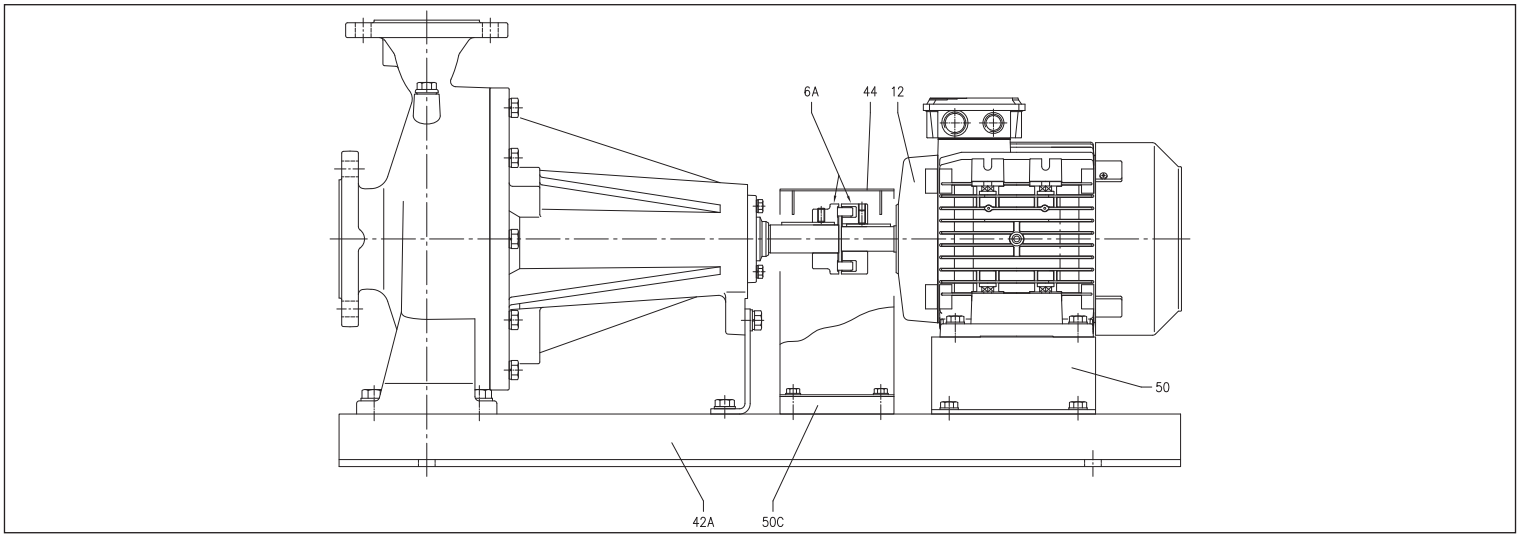
3 - 3L SERIES

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

3LP4 65-250, 80 SECTIONAL VIEW

4 Poles





MATERIALS TABLE

Ref.	Name	Material	Ref.	Name	Material
001	Pump body	EN 1.4401 (AISI 316)	042	Foot	Galvanised Steel
003	Motor support	Cast iron EN-GJL-200-EN 1561	042A	Base	Galvanised Steel
004	Seal housing disc	EN 1.4401 (AISI 316)	044	Joint cover	Galvanised Steel
004A	Seal housing disc screw	EN 1.4301(AISI 304)	050C	Joint cover spacer [1]	Aluminium
006	Shaft	EN 1.4462 (duplex steel) per 30-37 kW	066	Support cover	Cast iron EN-GJL-200-EN 1561
006A	Joint	Cast iron EN-GJL-200-EN 1561	067	Support cover	Cast iron EN-GJL-200-EN 1561
007	Impeller	EN 1.4401 (AISI316)	075	Washer	EN 1.4404 (AISI 316L)
011	Mechanical seal	SiC/SiC/FPM	076	Washer	
012	Motor	-	077	O-Ring	FPM
019	Bearing (pump side)	-	078	O-Ring	
020	Bearing (motor side)	-	089	Seeger ring	Carbon steel TC 80
024	Filler cap	EN 1.4404 (AISI 316L)	092	Sealing ring	-
025	Drain plug	EN 1.4404 (AISI 316L)	093	Sealing ring	-
026	O-Ring	FPM	200	Screw (pump body)	Stainless steel A270 class ISO 3506/1
032	Key	EN 1.4401 (AISI 316)	235	Washer	EN 1.4301 (AISI 304)
033	Key	C 40	244	Plug [2]	EN 1.4301 (AISI 304)
034	Impeller nut	EN 1.4404 (AISI 316L)			

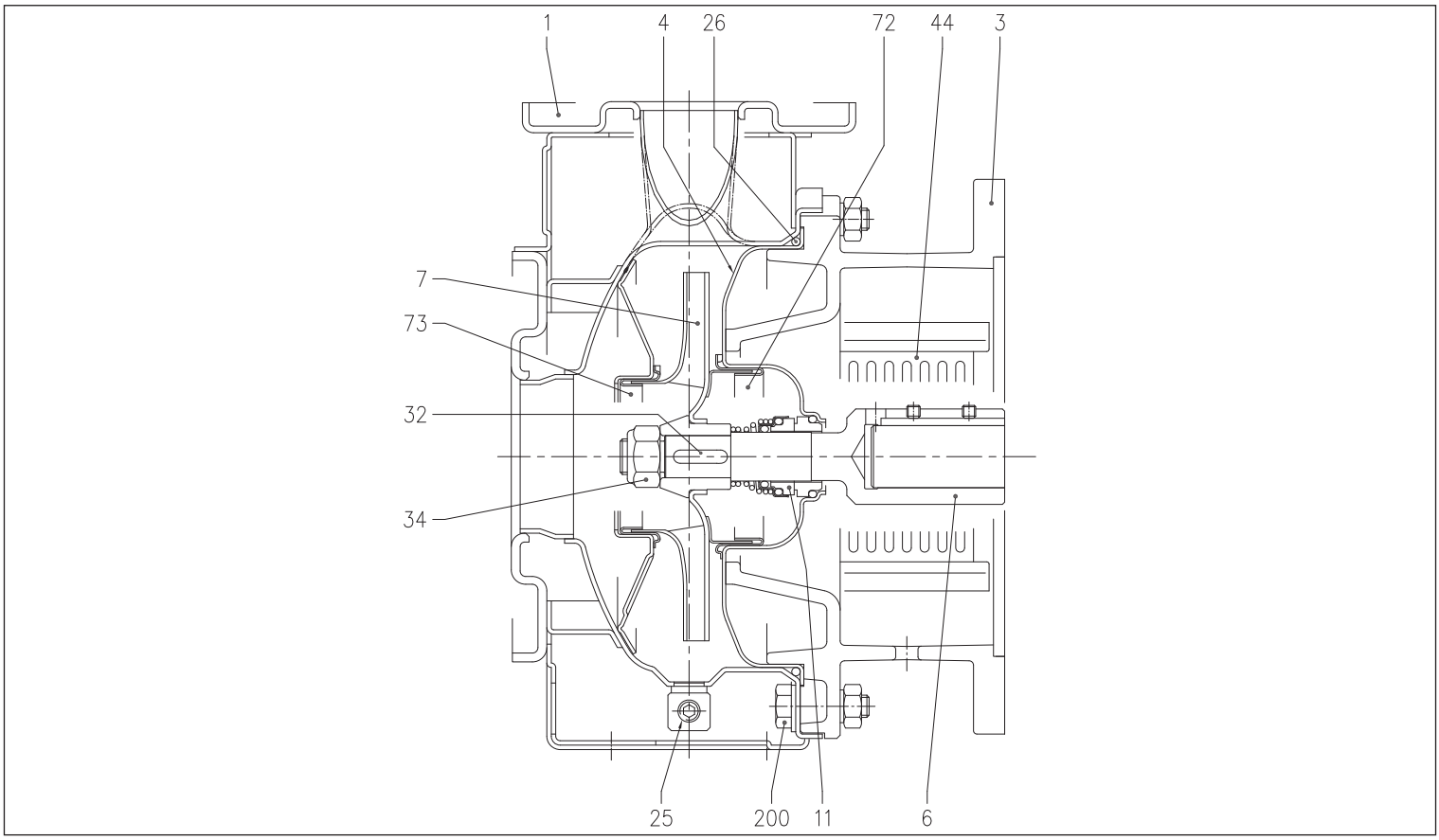
[1]= For 65-250/3-4 kW only
[2]= Not for H and E versions

3 - 3L SERIES

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

3(L)SF4 32, 40, 50, 65 SECTIONAL VIEW

4 Poles



MATERIALS TABLE

Ref.	Name		Material	
			3SF4	3LSF4
001	Pump body		EN 1.4301 (AISI 304)	EN 1.4404 (AISI 316L)
003	Motor support		Cast iron EN-GJL-200-EN 1561	
004	Seal housing disc		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	32, 40, 50	EN 1.4301 (AISI 304)	EN 1.4404 (AISI 316L)
		65-125/160/200	EN 1.4401 (AISI 316)	
011	Mechanical seal		Carbon/Ceramic/NBR	SiC/SiC/FPM
025	Drain plug		EN 1.4401 (AISI 316) / PTFE	
026	O-Ring		NBR	FPM
032	Key		EN 1.4401 (AISI 316)	
034	Impeller nut		EN 1.4301 (AISI 304)	EN 1.4404 (AISI 316L)
044	Support protection		EN 1.4301 (AISI 304)	
072	Wear ring [1]	not for the 65	EN 1.4301 (AISI 304)	EN 1.4404 (AISI 316L)
073	Wear ring	not for the 65	EN 1.4301 (AISI 304)	EN 1.4404 (AISI 316L)
200	Screw (pump body)		Stainless steel A270 class ISO 3506/1	

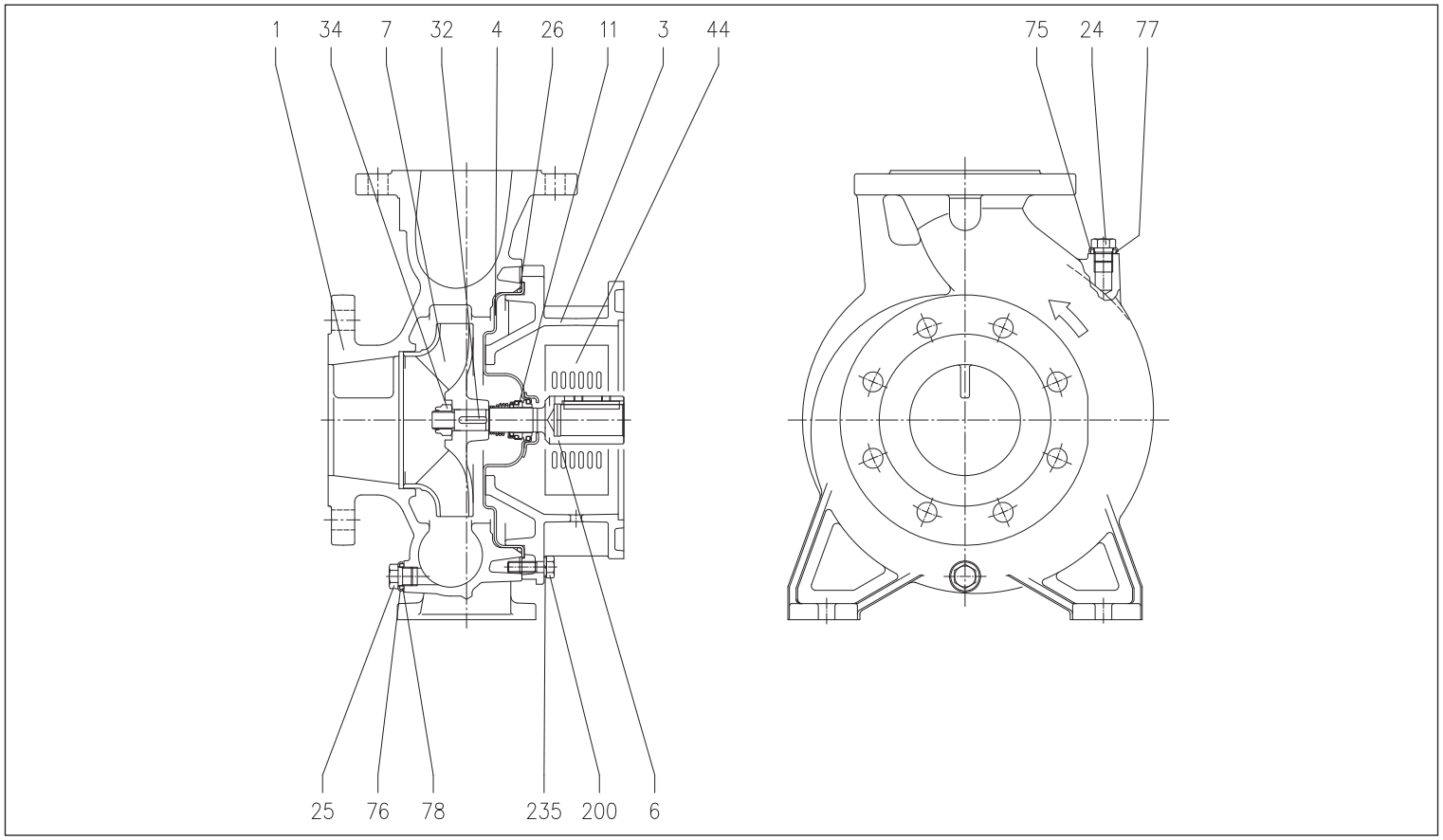
[1]= For 32-200, 40-200, 50-160, 50-200 only

3 - 3L SERIES

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

3LSF4 80-160 SECTIONAL VIEW

4 Poles



MATERIALS TABLE

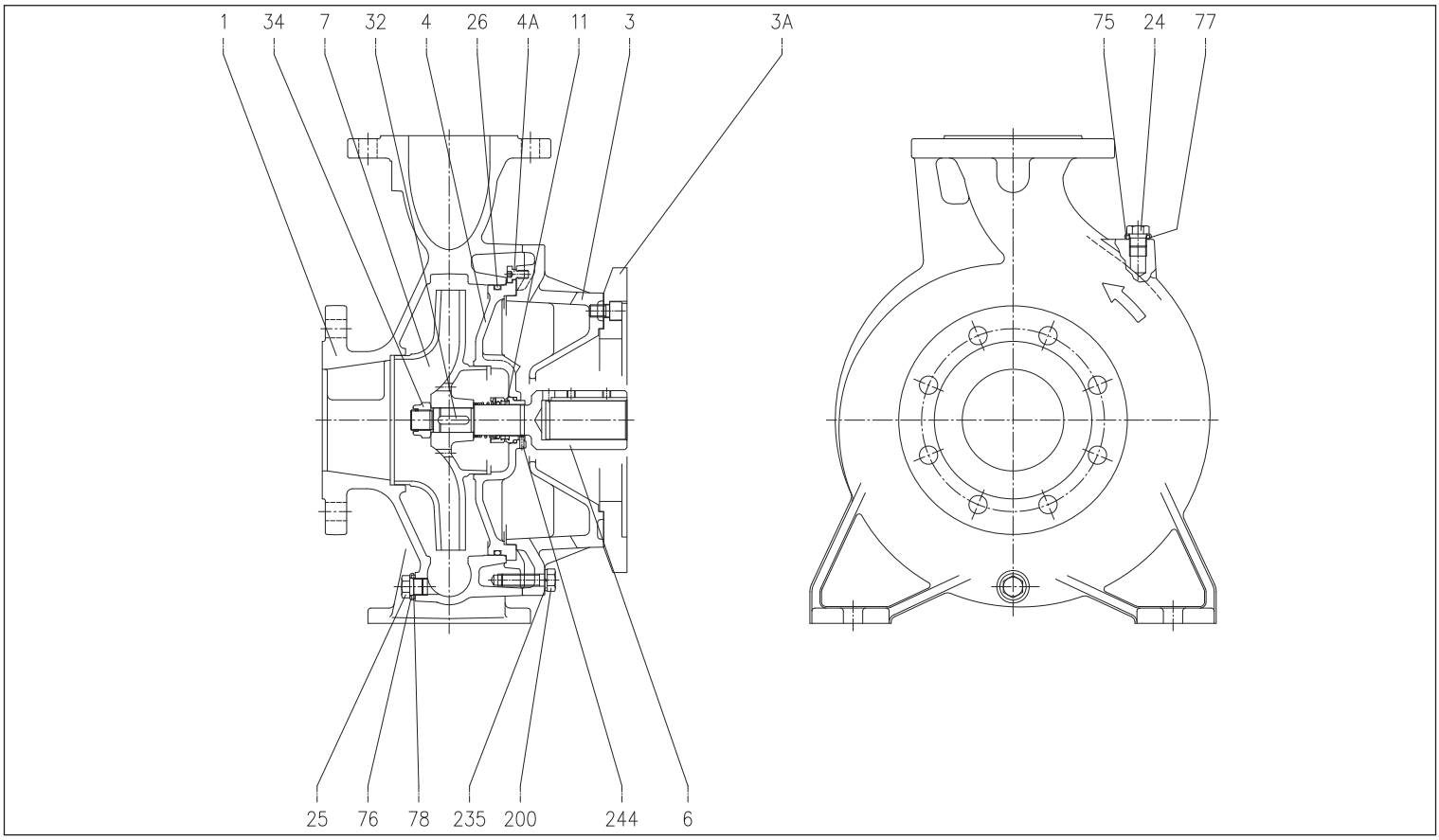
Ref.	Name	Material	Ref.	Name	Material
001	Pump body	EN 1.4401 (AISI 316)	032	Key	EN 1.4401 (AISI 316)
003	Motor support	Cast iron EN-GJL-200-EN 1561	034	Impeller nut	EN 1.4404 (AISI 316L)
004	Seal housing disc	EN 1.4404 (AISI 316L)	044	Support protection	EN 1.4301 (AISI 304)
006	Joint	EN 1.4404 (AISI 316L)	075	Washer	EN 1.4404 (AISI 316L)
007	Impeller	EN 1.4401 (AISI 316)	076	Washer	EN 1.4404 (AISI 316L)
011	Mechanical seal	SiC/SiC/FPM	077	O-Ring	FPM
024	Filler cap	EN 1.4404 (AISI 316L)	078	O-Ring	
025	Drain plug	EN 1.4404 (AISI 316L)	200	Screw (pump body)	Stainless steel A2-70 class ISO 3506/1
026	O-Ring	FPM	235	Washer	EN 1.4301(AISI 304)

3 - 3L SERIES

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

3LSF4 65-250, 80 SECTIONAL VIEW

4 Poles



MATERIALS TABLE

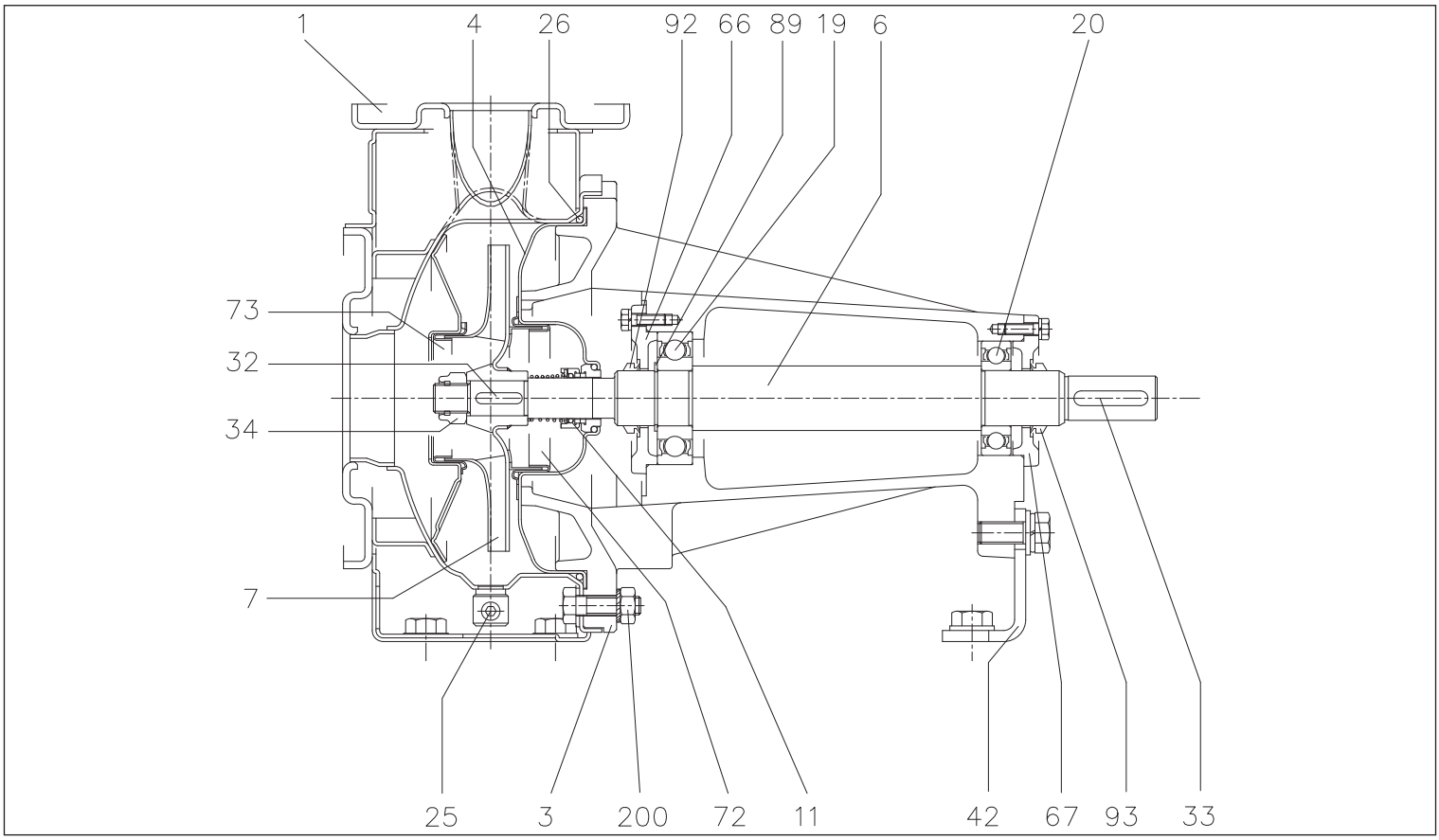
Ref.	Name	Material	Ref.	Name	Material
001	Pump body	EN 1.4401 (AISI 316)	026	O-Ring	FPM
003	Motor support	Cast iron EN-GJL-200-EN 1561	032	Key	EN 1.4401 (AISI 316)
003A	Adapter ring [1]	Cast iron EN-GJL-200-EN 1561	034	Impeller nut	EN 1.4404 (AISI 316L)
004	Seal housing disc	EN 1.4401 (AISI 316)	075	Washer	EN 1.4404 (AISI 316L)
004A	Seal housing disc screw	EN 1.4301(AISI 304)	076	Washer	EN 1.4404 (AISI 316L)
006	Joint	EN 1.4404 (AISI 316L)	077	O-Ring	FPM
007	Impeller	EN 1.4401 (AISI 316)	078	O-Ring	
011	Mechanical seal	SiC/SiC/FPM	200	Screw (pump body)	Stainless steel A2-70 class ISO 3506/1
024	Filler cap	EN 1.4404 (AISI 316L)	235	Washer	EN 1.4301(AISI 304)
025	Drain plug	EN 1.4404 (AISI 316L)	244	Plug [2]	EN 1.4301(AISI 304)

[1]= For 65-250/5.5 kW only
[2]= Not for H and E versions

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

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

4 Poles



MATERIALS TABLE

Ref.	Name		Material 3PF4	Material 3LPF4
001	Pump body		EN 1.4301 (AISI 304)	EN 1.4404 (AISI 316L)
003	Motor support		Cast iron EN-GJL-200-EN 1561	
004	Seal housing disc		EN 1.4301 (AISI 304)	EN 1.4404 (AISI 316L)
006	Shaft - Part in contact with the liquid Seal housing disc		EN 1.4301 (AISI 304)	EN 1.4404 (AISI 316L)
007	Impeller	32, 40, 50	EN 1.4301 (AISI 304)	EN 1.4404 (AISI 316L)
		65-125/160/200	EN 1.4401 (AISI 316)	
011	Mechanical seal		Carbon/Ceramic/NBR	SiC/SiC/FPM
019	Bearing (pump side)		-	
020	Bearing (motor side)		-	
025	Drain plug		EN 1.4401 (AISI 316) / PTFE	
026	O-Ring		NBR	FPM
032	Key		EN 1.4401 (AISI 316)	
033	Key		C 40	
034	Impeller nut		EN 1.4301 (AISI 304)	EN 1.4404 (AISI 316L)
042	Foot		Galvanised Steel	
066	Support cover		Cast iron EN-GJL-250-EN 1561	
067	Support cover		Cast iron EN-GJL-250-EN 1561	
072	Wear ring [1]	not for the 65	EN 1.4301 (AISI 304)	EN 1.4404 (AISI 316L)
073	Wear ring	not for the 65	EN 1.4301 (AISI 304)	EN 1.4404 (AISI 316L)
089	Seeger ring		Carbon steel TC 80	
092	Sealing ring		-	
093	Sealing ring		-	
200	Screw (pump body)		Stainless steel A270 class ISO 3506/1	

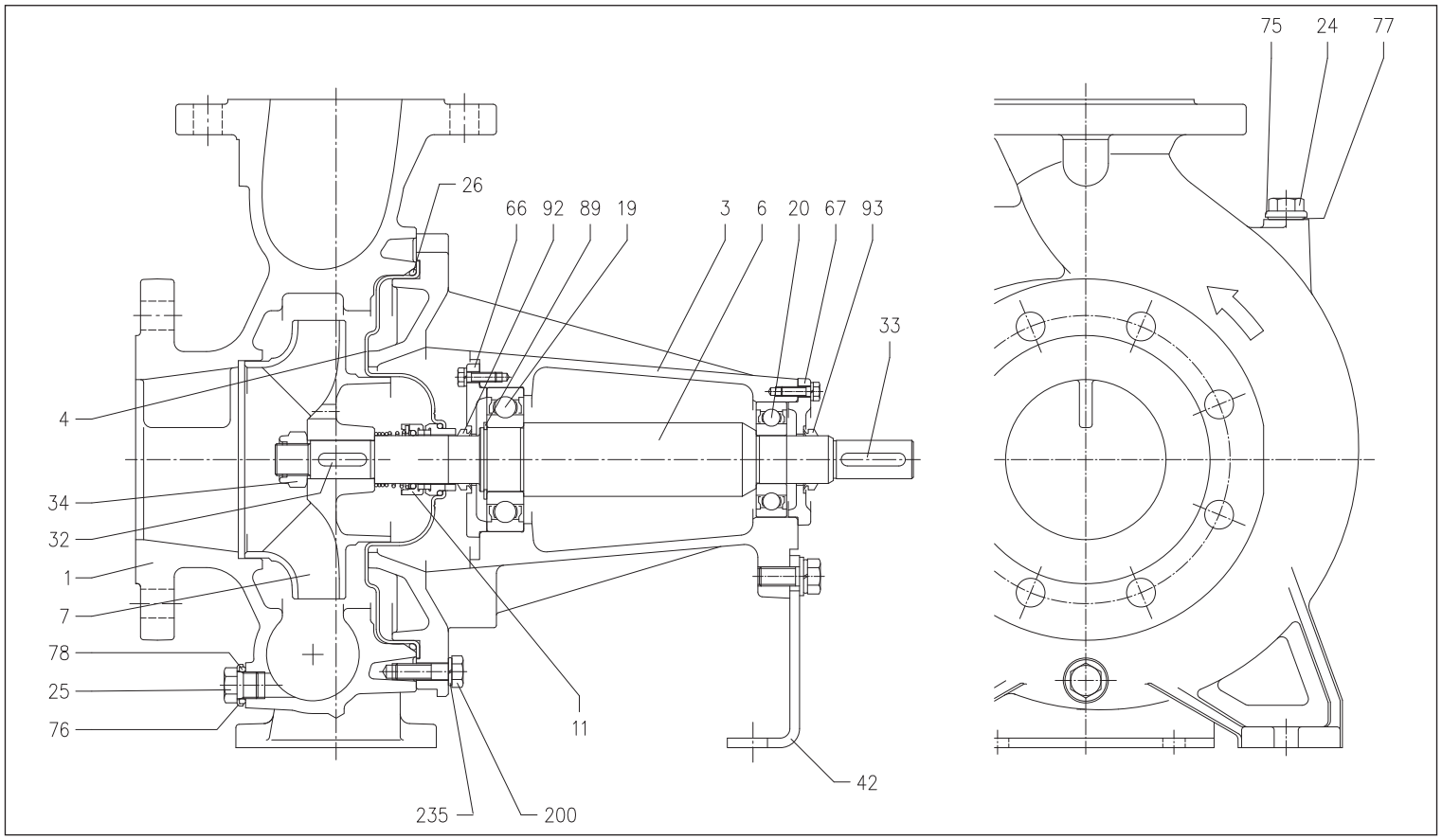
[1]= For the versions: 32-200/3, 32-200/4, 32-200/5.5, 40-200/5.5, 40-200/5.5, 40-200/7.5, 40-200/11, 50-160/5.5, 50-160/7.5, 50-200/9.2, 50-200/11, 50-200/15

3 - 3L SERIES

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

3LPF4 80-160 SECTIONAL VIEW

4 Poles



MATERIALS TABLE

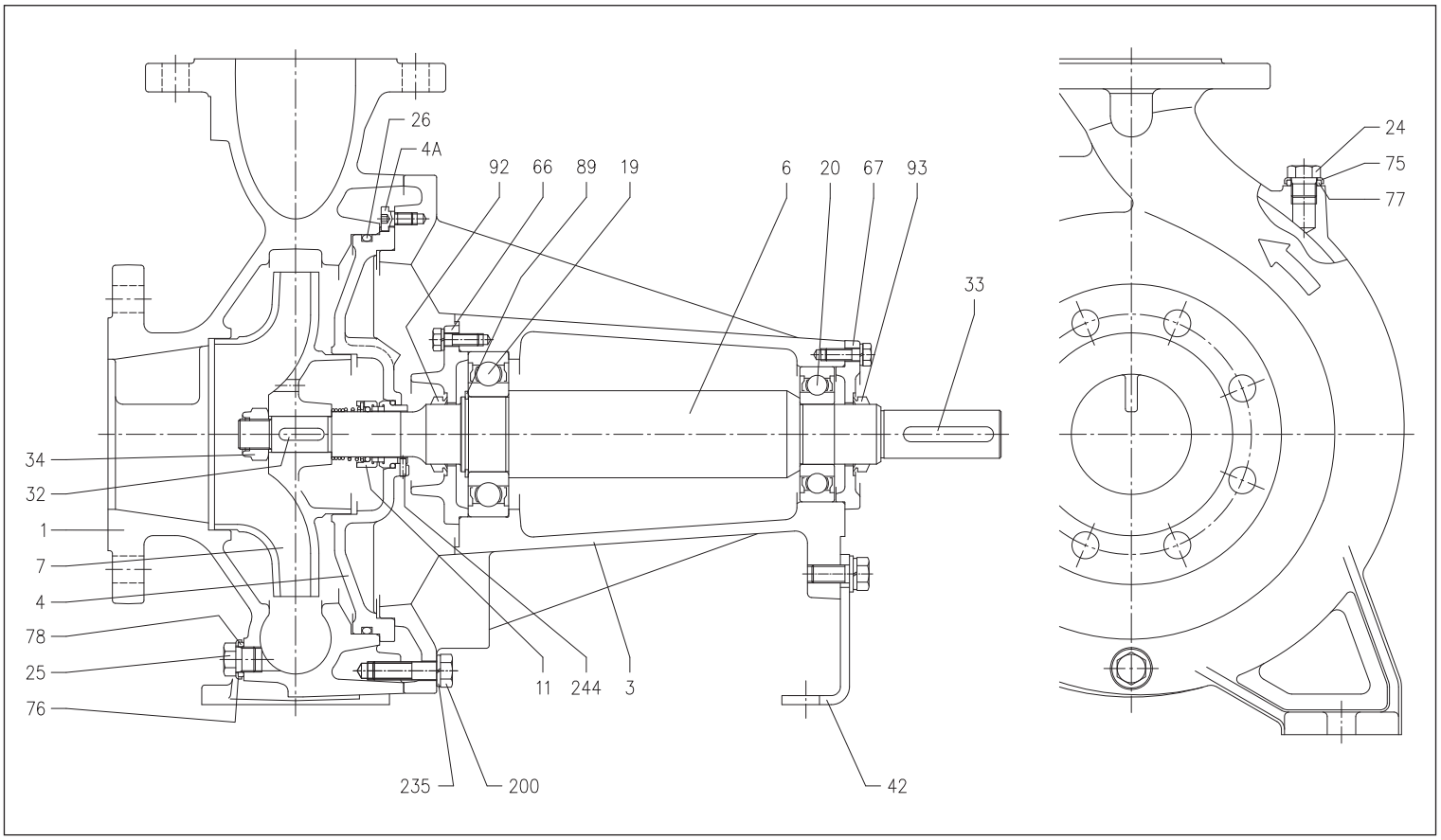
Ref.	Name	Material	Ref.	Name	Material
001	Pump body	EN 1.4401 (AISI 316)	034	Impeller nut	EN 1.4404 (AISI 316L)
003	Motor support	Cast iron EN-GJL-200-EN 1561	042	Foot	Galvanised Steel
004	Seal housing disc	EN 1.4404 (AISI 316L)	066	Support cover	Cast iron EN-GJL-200-EN 1561
006	Shaft	EN 1.4404 (AISI316L) Part in contact with the liquid	067	Support cover	Cast iron EN-GJL-200-EN 1561
007	Impeller	EN 1.4401 (AISI 316)	075	Washer	EN 1.4404 (AISI 316L)
011	Mechanical seal	SiC/SiC/FPM	076	Washer	
019	Bearing (pump side)	-	077	O-Ring	FPM
020	Bearing (motor side)	-	078	O-Ring	
024	Filler cap	EN 1.4404 (AISI 316L)	089	Seeger ring	Carbon steel TC 80
025	Drain plug	EN 1.4404 (AISI 316L)	092	Sealing ring	-
026	O-Ring	FPM	093	Sealing ring	-
032	Key	EN 1.4401 (AISI 316)	200	Screw (pump body)	Stainless steel A270 class ISO 3506/1
033	Key	C 40	235	Washer	EN 1.4301(AISI 304)

[1]= Not for H and E versions

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

3LPF4 65-250, 80 SECTIONAL VIEW

4 Poles



MATERIALS TABLE

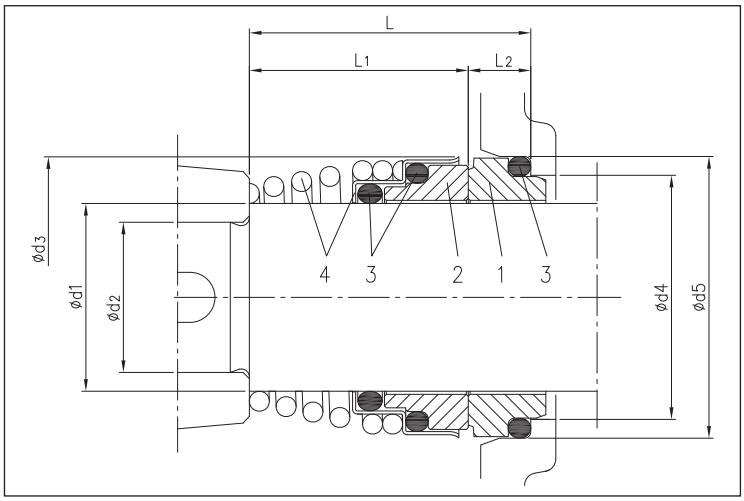
Ref.	Name	Material	Ref.	Name	Material
001	Pump body	EN 1.4401 (AISI 316)	034	Impeller nut	EN 1.4404 (AISI 316L)
003	Motor support	Cast iron EN-GJL-200-EN 1561	042	Foot	Galvanised Steel
004	Seal housing disc	EN 1.4401 (AISI 316)	066	Support cover	Cast iron EN-GJL-200-EN 1561
004A	Seal housing disc screw	EN 1.4301(AISI 304)	067	Support cover	Cast iron EN-GJL-200-EN 1561
006	Shaft	EN 1.4462 (duplex steel) for 30-37 kW	075	Washer	EN 1.4404 (AISI 316L)
007	Impeller	EN 1.4401 (AISI316)	076	Washer	
011	Mechanical seal	SiC/SiC/FPM	077	O-Ring	FPM
019	Bearing (pump side)	-	078	O-Ring	
020	Bearing (motor side)	-	089	Seeger ring	Carbon steel TC 80
024	Filler cap	EN 1.4404 (AISI 316L)	092	Sealing ring	-
025	Drain plug	EN 1.4404 (AISI 316L)	093	Sealing ring	-
026	O-Ring	FPM	200	Screw (pump body)	Stainless steel A270 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)

[1]= Not for H and E versions

3 - 3L SERIES

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

MECHANICAL SEAL standard version



MATERIALS TABLE

Ref.	Name	Material	
		Standard	H
1	Fixed part	Carbon	Carbon
2	Rotating part	Ceramic	Ceramic
3	Gasket	NBR	FPM
4	Frame + spring	EN 1.4401 (AISI 316)	EN 1.4401 (AISI 316)

SPECIAL MECHANICAL SEALS (on request)

Name	Material				
	H version	HS version	HW version	HSW version	E version
Fixed Part	Carbon	SiC	Tungsten Carbide	Tungsten Carbide	Carbon
Rotating Part	Ceramic	SiC	Tungsten Carbide	SiC	SiC
Elastomers	FPM	FPM	FPM	FPM	EPDM
Spring	AISI 316	AISI 316	AISI 316	AISI 316	AISI 316
Structure/Frame	AISI 304	AISI 316	AISI 304	AISI 304	AISI 316

3 - 3L SERIES

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

ELECTRIC DATA TABLE

4 Poles

Model	P_2		Mec	P_1	Absorbed Current [A]		
	[HP]	[kW]	Motor	[kW]	230V	400V	690V
3(.)M4 32-125/0.25	0,33	0,25	71	0,55	1,9	1,1	-
3(.)M4 32-160/0.37R	0,5	0,37	80	0,80	2,6	1,5	-
3(.)M4 32-160/0.37	0,5	0,37	80	0,80	2,6	1,5	-
3(.)M4 32-200/0.55R	0,75	0,55	80	0,80	2,6	1,5	-
3(.)M4 32-200/0.55	0,75	0,55	80	0,80	2,6	1,5	-
3(.)M4 32-200/0.75	1	0,75	90	1,60	4,7	2,7	-
3(.)M4 40-125/0.37R	0,5	0,37	71	0,55	1,9	1,1	-
3(.)M4 40-125/0.37	0,5	0,37	71	0,55	1,9	1,1	-
3(.)M4 40-160/0.55R	0,75	0,55	80	0,80	2,6	1,5	-
3(.)M4 40-160/0.55	0,75	0,55	80	0,80	2,6	1,5	-
3(.)M4 40-200/1.1R	1,5	1,1	90	1,60	4,7	2,7	-
3(.)M4 40-200/1.1	1,5	1,1	90	1,60	4,7	2,7	-
3(.)M4 40-200/1.5	2	1,5	90	2,10	6,2	3,6	-
3(.)M4 50-125/0.55R	0,75	0,55	80	0,80	2,6	1,5	-
3(.)M4 50-125/0.55	0,75	0,55	80	0,80	2,6	1,5	-
3(.)M4 50-160/1.1R	1,5	1,1	90	1,60	4,7	2,7	-
3(.)M4 50-160/1.1	1,5	1,1	90	1,60	4,7	2,7	-
3(.)M4 50-200/1.5R	2	1,5	90	2,10	6,2	3,6	-
3(.)M4 50-200/1.5	2	1,5	90	2,10	6,2	3,6	-
3(.)M4 50-200/2.2	3	2,2	100	2,75	8,7	5	-
3(.)M4 65-125/0.55	0,75	0,55	80	0,80	2,6	1,5	-
3(.)M4 65-125/0.75	1	0,75	90	1,60	4,7	2,7	-
3(.)M4 65-125/1.1	1,5	1,1	90	1,60	4,7	2,7	-
3(.)M4 65-160/1.1	1,5	1,1	90	1,60	4,7	2,7	-
3(.)M4 65-160/1.5	2	1,5	90	2,10	6,2	3,6	-
3(.)M4 65-160/2.2	3	2,2	100	2,75	8,7	5	-
3(.)M4 65-200/2.2R	3	2,2	100	2,75	8,7	5	-
3(.)M4 65-200/2.2	3	2,2	100	2,75	8,7	5	-
3(.)M4 65-200/3	4	3	100	3,60	11,4	6,6	-
3LM4 65-250/4	5,5	4	112	5,10	16,1	9,3	-
3LM4 65-250/5.5	7,5	5,5	112	6,60	-	11,8	6,8
3LM4 80-160/1.5	2	1,5	90	2,10	6,2	3,6	-
3LM4 80-160/2.2R	3	2,2	100	2,75	8,7	5	-
3LM4 80-160/2.2	3	2,2	100	2,75	8,7	5	-
3LM4 80-200/3	4	3	100	3,60	11,4	6,6	-
3LM4 80-200/4R	5,5	4	112	5,10	16,1	9,3	-
3LM4 80-200/4	5,5	4	112	5,10	16,1	9,3	-
3LM4 80-250/5.5R	7,5	5,5	132	6,60	-	11,8	6,8
3LM4 80-250/5.5	7,5	5,5	132	6,60	-	11,8	6,8
3LM4 80-250/7.5	10	7,5	132	9,10	-	15,5	8,9

Model		P_2		Mot.	P_1	Absorbed Current [A]		
		[HP]	[kW]	Mec	[kW]	230V	400V	690V
3(.)S4 32-125/0.25	3(.)P4 32-125/0.25	0,33	0,25	71	0,39	1,2	0,7	-
3(.)S4 32-160/0.37R	3(.)P4 32-160/0.37R	0,5	0,37	71	0,55	2,1	1,2	-
3(.)S4 32-160/0.37	3(.)P4 32-160/0.37	0,5	0,37	71	0,55	2,1	1,2	-
3(.)S4 32-200/0.55R	3(.)P4 32-200/0.55R	0,75	0,55	80	0,79	2,8	1,6	-
3(.)S4 32-200/0.55	3(.)P4 32-200/0.55	0,75	0,55	80	0,79	2,8	1,6	-
3(.)S4 32-200/0.75	3(.)P4 32-200/0.75	1	0,75	80	1,06	3,8	2,2	-
3(.)S4 40-125/0.37R	3(.)P4 40-125/0.37R	0,5	0,37	71	0,55	2,1	1,2	-
3(.)S4 40-125/0.37	3(.)P4 40-125/0.37	0,5	0,37	71	0,55	2,1	1,2	-
3(.)S4 40-160/0.55R	3(.)P4 40-160/0.55R	0,75	0,55	80	0,79	2,8	1,6	-
3(.)S4 40-160/0.55	3(.)P4 40-160/0.55	0,75	0,55	80	0,79	2,8	1,6	-
3(.)S4 40-200/1.1R	3(.)P4 40-200/1.1R	1,5	1,1	90	1,44	4,7	2,7	-
3(.)S4 40-200/1.1	3(.)P4 40-200/1.1	1,5	1,1	90	1,44	4,7	2,7	-
3(.)S4 40-200/1.5	3(.)P4 40-200/1.5	2	1,5	90	1,91	6,2	3,6	-
3(.)S4 50-125/0.55R	3(.)P4 50-125/0.55R	0,75	0,55	80	0,79	2,8	1,6	-
3(.)S4 50-125/0.55	3(.)P4 50-125/0.55	0,75	0,55	80	0,79	2,8	1,6	-
3(.)S4 50-160/1.1R	3(.)P4 50-160/1.1R	1,5	1,1	90	1,44	4,7	2,7	-
3(.)S4 50-160/1.1	3(.)P4 50-160/1.1	1,5	1,1	90	1,44	4,7	2,7	-
3(.)S4 50-200/1.5R	3(.)P4 50-200/1.5R	2	1,5	90	1,91	6,2	3,6	-
3(.)S4 50-200/1.5	3(.)P4 50-200/1.5	2	1,5	90	1,91	6,2	3,6	-
3(.)S4 50-200/2.2	3(.)P4 50-200/2.2	3	2,2	100	2,72	9,4	5,4	-
3(.)S4 65-125/0.55	3(.)P4 65-125/0.55	0,75	0,55	80	0,79	2,8	1,6	-
3(.)S4 65-125/0.75	3(.)P4 65-125/0.75	1	0,75	80	1,06	3,8	2,2	-
3(.)S4 65-125/1.1	3(.)P4 65-125/1.1	1,5	1,1	90	1,44	4,7	2,7	-
3(.)S4 65-160/1.1	3(.)P4 65-160/1.1	1,5	1,1	90	1,44	4,7	2,7	-
3(.)S4 65-160/1.5	3(.)P4 65-160/1.5	2	1,5	90	1,91	6,2	3,6	-
3(.)S4 65-160/2.2	3(.)P4 65-160/2.2	3	2,2	100	2,72	9,4	5,4	-
3(.)S4 65-200/2.2R	3(.)P4 65-200/2.2R	3	2,2	100	2,72	9,4	5,4	-
3(.)S4 65-200/2.2	3(.)P4 65-200/2.2	3	2,2	100	2,72	9,4	5,4	-
3(.)S4 65-200/3	3(.)P4 65-200/3	4	3	100	3,62	11,8	6,8	-
3LS4 65-250/4	3LP4 65-250/4	5,5	4	112	4,75	14,7	8,5	-
3LS4 65-250/5.5	3LP4 65-250/5.5	7,5	5,5	132	6,42	-	11,3	6,5
3LS4 80-160/1.5	3LP4 80-160/1.5	2	1,5	90	1,91	6,2	3,6	-
3LS4 80-160/2.2R	3LP4 80-160/2.2R	3	2,2	100	2,72	9,4	5,4	-
3LS4 80-160/2.2	3LP4 80-160/2.2	3	2,2	100	2,72	9,4	5,4	-
3LS4 80-200/3	3LP4 80-200/3	4	3	100	3,62	11,8	6,8	-
3LS4 80-200/4R	3LP4 80-200/4R	5,5	4	112	4,75	14,7	8,5	-
3LS4 80-200/4	3LP4 80-200/4	5,5	4	112	4,75	14,7	8,5	-
3LS4 80-250/5.5R	3LP4 80-250/5.5R	7,5	5,5	132	6,42	-	11,3	6,5
3LS4 80-250/5.5	3LP4 80-250/5.5	7,5	5,5	132	6,42	-	11,3	6,5
3LS4 80-250/7.5	3LP4 80-250/7.5	10	7,5	132	8,58	-	15,1	8,7

MD - MMD

MONOBLOC CENTRIFUGAL ELECTRIC PUMP IN COMPLIANCE WITH EN 733

in cast iron

Cast iron monobloc centrifugal electric pumps in compliance with EN 733.

APPLICATIONS

- Moving clean water for civil, agricultural, industrial use, pressure boosting units, heating and air conditioning plants
- Farming irrigation
- Sport centres
- Washing plants

TECHNICAL DETAILS

- Available in "H" version (Ceramic/Graphite/FPM)
- Available in "HS" version (SiC/SiC/FPM)
- Available in "HW" version (Widia/Widia/FPM)

TECHNICAL DATA

- Maximum temperature of the liquid: 90°C (MD), 130°C (MMD)
- Maximum working pressure: 10 bar
- Self-ventilated 2 and 4 pole asynchronous motor
- Class of insulation F
- IP55 Protection rating
- 230V ±10%, 50Hz single phase voltage three phase voltage 230/400V ±10% 50Hz up to 4 kW included, three phase voltage 400/690V ± 10% 5.5 kW and over
- 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

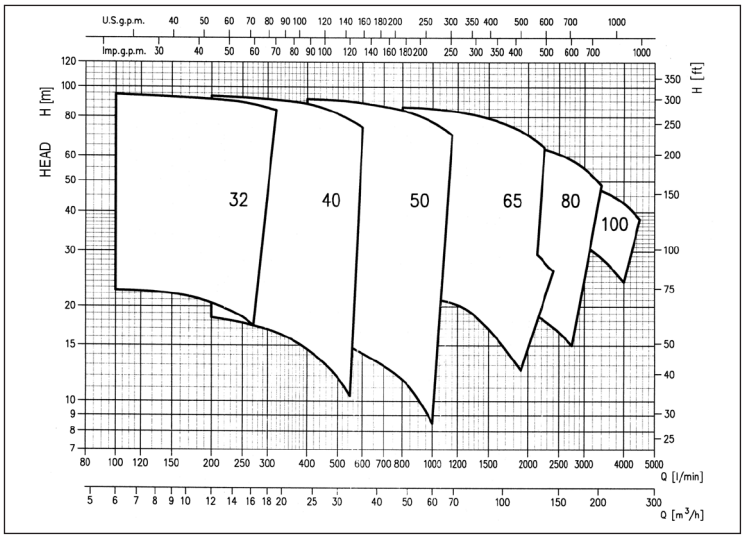
MATERIALS

- Cast iron pump body and support
- Shaft in AISI 304 (MD), in AISI 406 (MMD)
- Mechanical seal in Carbon/Ceramic/NBR (MD), in SiC/SiC/EPDM (MMD)
- Impeller in cast iron and bronze B10

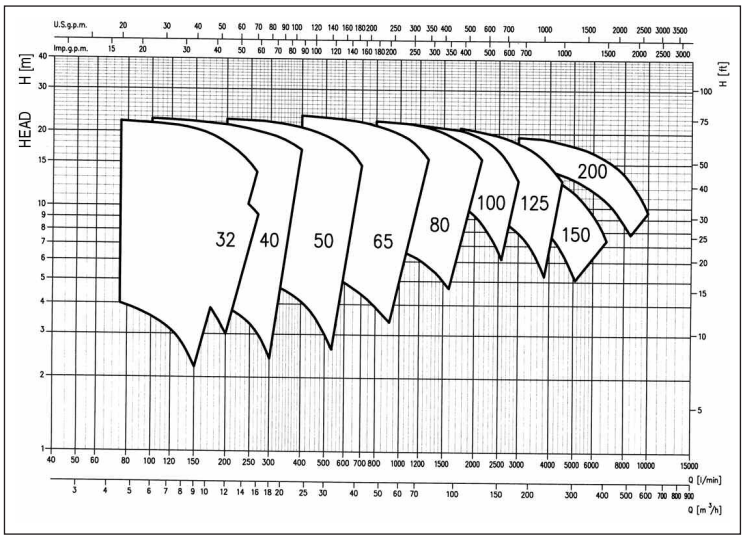
ACCESSORIES (on request)

- Galvanised counter-flange

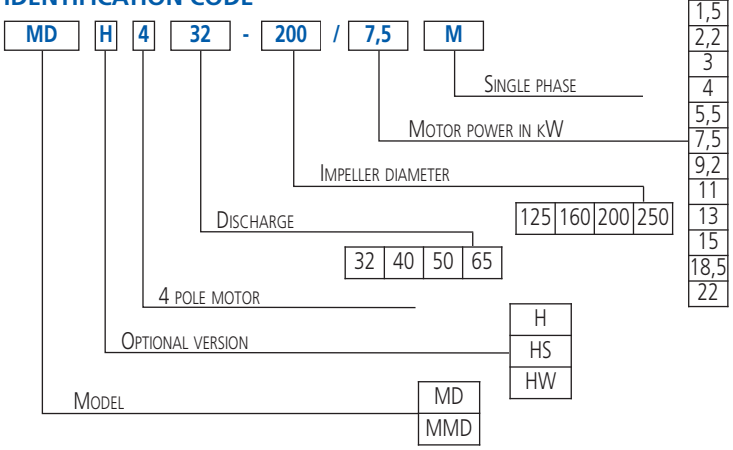
2 Pole - PERFORMANCE RANGE (according to ISO 9906 Attachment A)



4 Pole - PERFORMANCE RANGE (according to ISO 9906 Attachment A)



IDENTIFICATION CODE



MD - MMD

MONOBLOC CENTRIFUGAL ELECTRIC PUMP IN COMPLIANCE WITH EN 733

in cast iron

MD PERFORMANCE TABLE

2 Poles

Model	P_2		Q=Flow rate																				
			l/min	100	200	250	280	320	400	550	600	667	800	1000	1100	1150	1200	1400	1900	2000	2200	2300	2400
	[HP]	[kW]	m^3/h	6	12	15	17	19	24	33	36	40	48	60	66	69	72	84	114	120	132	138	144
				H=Head [m]																			
MD 32-125/1.1 (M)	1,5	1,1	22,5	20,5	18,5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MD 32-125/1.1 (M)	1,5	1,5	23,5	21,5	19,7	18,5	16,6	12,0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MD 32-125/1.1 (M)	1,5	1,5	27,0	24,0	22,0	20,5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MD 32-125/1.1 (M)	1,5	2,2	34,5	32,0	30,0	28,5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MD 32-200/3.0	4	3	41,0	36,5	33,0	30,5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MD 32-200/4.0	5,5	4	50,5	47,0	44,5	42,5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MD 32-250/5.5	7,5	5,5	57,0	54,0	51,0	49,0	45,0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MD 32-250/7.5	10	7,5	70,0	67,0	64,0	62,0	58,0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MD 32-250/9.2	12,5	9,2	83,0	80,0	78,0	76,0	73,0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MD 32-250/11	15	11	94,0	91,0	89,0	87,0	84,0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MD 32-125/1.1 (M)	1,5	1,5	19,5	18,4	17,7	17,2	16,5	14,6	10,3	8,5	-	-	-	-	-	-	-	-	-	-	-	-	-
MD 32-125/1.1 (M)	1,5	2,2	25,0	23,5	23,0	22,5	22,0	20,5	16,9	15,5	-	-	-	-	-	-	-	-	-	-	-	-	-
MD 40-160/3.0	4	3	30,5	29,0	28,0	27,5	26,5	25,0	21,0	19,0	-	-	-	-	-	-	-	-	-	-	-	-	-
MD 40-160/4.0	5,5	4	38,0	36,5	36,0	35,5	35,0	33,0	29,5	28,0	-	-	-	-	-	-	-	-	-	-	-	-	-
MD 40-200/5.5	7,5	5,5	48,0	47,0	46,0	45,5	44,5	42,5	37,5	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MD 40-200/7.5	10	7,5	57,5	56,5	55,5	55,0	54,5	52,5	47,5	45,0	-	-	-	-	-	-	-	-	-	-	-	-	-
MD 40-250/11	15	11	-	73,0	72,0	71,5	70,0	66,5	58,5	55,0	-	-	-	-	-	-	-	-	-	-	-	-	-
MD 40-250/13	17,5	13	-	84,0	83,5	82,5	81,5	78,0	69,0	65,0	-	-	-	-	-	-	-	-	-	-	-	-	-
MD 40-250/15	20	15	-	93,0	92,0	91,5	90,5	88,0	78,0	74,0	-	-	-	-	-	-	-	-	-	-	-	-	-
MD 32-125/1.1 (M)	1,5	2,2	-	-	-	-	-	16,0	14,8	14,3	13,5	11,7	8,5	-	-	-	-	-	-	-	-	-	-
MD 50-125/3.0	4	3	-	-	-	-	-	19,5	18,6	18,2	17,6	16,1	13,0	-	-	-	-	-	-	-	-	-	-
MD 50-125/4.0	5,5	4	-	-	-	-	-	24,0	23,0	23,0	22,0	21,0	17,8	16,0	-	-	-	-	-	-	-	-	-
MD 50-160/5.5	7,5	5,5	-	-	-	-	-	32,5	31,0	30,5	30,0	28,0	24,5	22,5	-	-	-	-	-	-	-	-	-
MD 50-160/7.5	10	7,5	-	-	-	-	-	38,0	37,0	36,5	35,5	34,0	31,0	29,0	28,0	27,0	-	-	-	-	-	-	-
MD 50-200/9.2	12,5	9,2	-	-	-	-	-	48,0	46,0	45,0	44,0	41,0	36,0	33,0	-	-	-	-	-	-	-	-	-
MD 50-200/11	15	11	-	-	-	-	-	54,5	53,0	52,0	51,0	48,5	43,5	40,5	39,0	37,0	-	-	-	-	-	-	-
MD 50-250/15	20	15	-	-	-	-	-	69,0	67,0	66,0	64,0	60,5	52,5	47,0	-	-	-	-	-	-	-	-	-
MD 50-250/18.5	25	18,5	-	-	-	-	-	80,0	78,5	77,5	76,0	72,5	65,0	60,0	57,0	-	-	-	-	-	-	-	-
MD 50-250/22	30	22	-	-	-	-	-	91,0	89,5	88,5	87,0	84,0	77,0	72,5	70,0	-	-	-	-	-	-	-	-
MD 65-125/5.5	7,5	5,5	-	-	-	-	-	-	-	23,2	23,0	22,5	21,5	20,5	20,5	20,0	18,2	12,5	-	-	-	-	-
MD 65-125/7.5	10	7,5	-	-	-	-	-	-	-	26,5	26,0	25,5	24,5	24,0	23,5	23,0	21,5	16,3	15,0	-	-	-	-
MD 65-160/11	15	11	-	-	-	-	-	-	-	-	34,0	33,5	33,0	32,5	32,0	32,0	30,5	26,5	25,5	23,0	22,0	-	
MD 65-160/15	20	15	-	-	-	-	-	-	-	-	-	38,0	37,5	37,0	36,5	36,5	35,0	31,0	30,5	28,5	27,0	26,0	
MD 65-200/18.5	25	18,5	-	-	-	-	-	-	-	-	-	53,5	52,5	51,5	51,0	50,5	48,5	42,0	40,5	37,0	-	-	
MD 65-200/22	30	22	-	-	-	-	-	-	-	-	-	59,5	58,5	58,0	57,5	57,0	55,5	50,0	49,0	46,0	-	-	

MMD PERFORMANCE TABLE

2 Poles

Model	P_2		Q=Flow rate												
			l/min	800	1000	1250	1500	1750	2000	2250	2500	2750	3000	3500	4000	4500
	[HP]	[kW]	m^3/h	48	60	75	90	105	120	135	150	165	180	210	240	270
				H=Head [m]												
MMD 65-250/22	30	22	64,0	63,0	61,0	57,0	53,0	-	-	-	-	-	-	-	-	-
MMD 65-250/30	40	30	77,0	76,0	74,0	70,0	66,0	60,0	53,0*	-	-	-	-	-	-	-
MMD 65-250/37	55	37	86,0	85,0	83,0	79,0	75,0	70,0	64,0*	-	-	-	-	-	-	-
MMD 80-160/10	13,6	10	-	24,0	23,0	22,0	21,0	19,5	18,0	16,5	15,0*	-	-	-	-	-
MMD 80-160/12.5	17	12,5	-	28,5	28,0	27,0	26,0	24,5	23,0	21,5	20,0	18,5*	-	-	-	-
MMD 80-160/15	20	15	-	34,0	33,3	32,5	31,8	31,0	29,0	27,5	26,0	24,3	-	-	-	-
MMD 80-200/18.5	25	18,5	-	42,0	41,0	40,0	38,5	37,0	35,0	33,0	30,5	28,0	-	-	-	-
MMD 80-200/22	30	22	-	47,0	46,5	45,5	44,5	43,0	41,0	39,0	37,0	34,0	-	-	-	-
MMD 80-200/30	40	30	-	55,0	54,0	53,0	52,0	51,0	49,0	47,0	45,0	43,0	37,0	-	-	-
MMD 80-200/37	55	37	-	57,0	56,8	56,5	56,0	55,0	54,0	52,5	51,0	48,0	42,0	-	-	-
MMD 80-250/37	55	37	-	-	67,5	67,0	66,2	65,0	63,3	61,0	58,3	55,0	47,0	-	-	-
MMD 100-200/22	30	22	-	-	-	38,5	38,0	37,0	36,0	34,5	33,0	31,5	28,0	24,0	-	
MMD 100-200/30	40	30	-	-	-	47,0	46,3	45,6	44,8	43,7	42,4	41,0	38,0	34,6*	30,0**	
MMD 100-200/37	55	37	-	-	-	53,7	53,3	53,0	52,0	51,0	50,0	49,0	46,0	43,0*	38,0**	

* The suction manometric height must not exceed 2 m
** Suction with positive head of 1 m

MONOBLOC CENTRIFUGAL ELECTRIC PUMP IN COMPLIANCE WITH EN 733

in cast iron

MMD4 PERFORMANCE TABLE

4 Poles

Model	P_2		Q=Flow rate l/min	50	75	100	125	150	175	200	225	250	275	300	350	400	450	500	550	600	650	700	800	900	1000	1100	1200	1300	1400	1500	1750	2000	2250
	[HP]	[kW]	m^3/h	3	4,5	6	7,5	9	10,5	12	13,5	15	16,5	18	21	24	27	30	33	36	39	42	48	54	60	66	72	78	84	90	105	120	135
			H=Head [m]																														
MMD4 32-125/0,25 R	0,33	0,25		4,4	4,0	3,5	3,0	2,2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MMD4 32-125/0,25	0,33	0,25		6,2	6,1	5,8	5,3	4,6	3,8	3,0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MMD4 32-160/0,37	0,5	0,37		-	9,2	8,9	8,3	7,7	6,8	5,8	4,7	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MMD4 32-200/0,75	1,0	0,75		-	12,8	12,4	11,9	11,3	10,6	9,8	8,9	8,0	7,0	6,0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MMD4 32-200/0,92	1,25	0,92		-	14,6	14,3	13,8	13,3	12,7	11,8	10,9	10,0	9,0	8,0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MMD4 32-250/1,1	1,5	1,1		-	18,5	18,0	17,5	17,0	15,9	14,5	12,8	11,0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MMD4 32-125/1,5	2	1,5		-	22,0	21,6	21,2	20,5	19,4	18,0	16,5	15,0	13,0*	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MMD4 40-125/0,25	0,33	0,25		-	-	4,6	4,5	4,3	4,1	3,9	3,6	3,3	2,9	2,4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MMD4 40-125/0,37	0,5	0,37		-	-	6,3	6,2	6,1	6,0	5,8	5,5	5,2	4,9	4,4	3,0*	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MMD4 40-160/0,55	0,75	0,55		-	-	8,8	8,6	8,4	8,1	7,7	7,3	6,9	6,4	5,9	4,4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MMD4 40-200/1,1 R	1,5	1,1		-	-	12,7	12,5	12,1	11,7	11,2	10,7	10,1	9,5	8,5	6,8	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MMD4 40-200/1,1	1,5	1,1		-	-	14,2	14,0	13,8	13,4	13,0	12,5	11,8	11,0	10,2	8,3	6,0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MMD4 40-250/1,5	2	1,5		-	-	18,3	18,0	17,7	17,4	17,0	16,7	16,2	15,6	15,0	13,7	12,0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MMD4 40-250/2,2	3	2,2		-	-	22,5	22,3	22,0	21,7	21,4	21,2	20,5	20,2	19,5	18,5	17,0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MMD4 50-125/0,37	0,5	0,37		-	-	-	-	5,3	5,3	5,2	5,1	5,0	4,9	4,8	4,5	4,1	3,6	3,0	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MMD4 50-125/0.55	0,75	0,55		-	-	-	-	6,4	6,3	6,3	6,2	6,1	6,0	5,9	5,5	5,2	4,9	4,4	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MMD4 50-160/0,75	1,0	0,75		-	-	-	-	-	-	8,1	8,0	7,9	7,8	7,7	7,4	7,0	6,6	6,0	5,1	4,0	-	-	-	-	-	-	-	-	-	-	-	-
MMD4 50-160/0,92	1,25	0,92		-	-	-	-	-	-	9,0	8,9	8,9	8,8	8,7	8,4	8,1	7,7	7,2	6,4	5,5	-	-	-	-	-	-	-	-	-	-	-	-
MMD4 50-200/1,1	1,5	1,1		-	-	-	-	-	-	12,3	12,2	12,0	11,8	11,5	10,8	10,0	9,0	8,0	7,0	5,8	-	-	-	-	-	-	-	-	-	-	-	-
MMD4 50-200/1,5	2	1,5		-	-	-	-	-	-	14,1	14,0	13,9	13,7	13,5	12,8	12,0	11,3	10,2	9,0	7,8	6,4	-	-	-	-	-	-	-	-	-	-	-	-
MMD4 50-250/2,2	3	2,2,		-	-	-	-	-	-	18,5	18,3	18,1	17,8	17,5	17,0	16,2	15,5	14,5	13,5	12,5	11,3	10,0	-	-	-	-	-	-	-	-	-	-	-
MMD4 50-250/3	4	3		-	-	-	-	-	-	22,5	22,4	22,3	22,2	22,0	21,5	20,9	20,2	19,4	18,5	17,5	16,3	14,7	-	-	-	-	-	-	-	-	-	-	-
MMD4 65-125/0,75	1,0	0,75		-	-	-	-	-	-	-	-	-	-	5,8	5,7	5,6	5,5	5,3	5,1	4,9	4,6	4,4	3,9	-	-	-	-	-	-	-	-	-	-
MMD4 65-160/1,1	1,5	1,1		-	-	-	-	-	-	-	-	-	-	8,5	8,5	8,4	8,3	8,2	8,1	8,0	7,8	7,4	6,8	5,8	5,0	-	-	-	-	-	-	-	-
MMD4 65-160/1,5	2	1,5		-	-	-	-	-	-	-	-	-	-	10,2	10,1	10,0	9,9	9,8	9,6	9,4	9,2	9,0	8,4	7,5	6,5	-	-	-	-	-	-	-	-
MMD4 65-200/2,2	3	2,2		-	-	-	-	-	-	-	-	-	-	-	-	12,5	12,4	12,3	12,2	12,1	12,0	11,7	11,1	10,5	9,6	8,5	-	-	-	-	-	-	-
MMD4 65-200/3	4	3		-	-	-	-	-	-	-	-	-	-	-	-	15,3	15,3	15,2	15,1	15,0	14,8	14,6	14,3	13,6	12,8	12,0	11,0	-	-	-	-	-	-
MMD4 65-250/4	5,5	4		-	-	-	-	-	-	-	-	-	-	-	-	-	-	19,5	19,3	19,1	18,8	18,5	17,5	16,5	15,5	14,0	12,5	10,4	-	-	-	-	-
MMD4 65-250/5.5	7,5	5,5		-	-	-	-	-	-	-	-	-	-	-	-	-	-	23,0	22,8	22,6	22,4	22,2	21,4	20,6	19,7	18,7	17,3	15,7	14,0	-	-	-	-
MMD4 80-160/1,5	2	1,5		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	7,7	7,6	7,5	7,3	7,0	6,7	6,4	6,1	5,7	5,4	5,0	-	-	-
MMD4 80-160/2,2	3	2,2		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	9,7	9,6	9,5	9,3	9,0	8,8	8,5	8,2	7,9	7,5	7,1	6,0	-	-
MMD4 80-200/3	4	3		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	12,0	11,9	11,7	11,5	11,3	11,0	10,5	10,0	9,5	9,0	8,5	7,0	-	-
MMD4 80-200/4	5,5	4		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	14,4	14,3	14,2	14,0	13,8	13,5	13,1	12,6	12,2	11,6	11,0	9,0	6,5	-
MMD4 80-250/5,5	7,5	5,5		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	19,2	18,9	18,5	18,0	17,6	17,1	16,5	16,0	14,0	12,0	-
MMD4 80-250/7,5	10	7,5		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	22,3	22,1	21,9	21,7	21,3	21,0	20,5	20,0	18,5	16,9	14,5

* The suction manometric height must not exceed 2 m

MMD4 PERFORMANCE TABLE

4 Poles

Model	P_2		Q=Flow rate l/min	900	1000	1100	1200	1300	1400	1500	1750	2000	2250	2500	2750	3000	3500	3700	4000	4500	5000	5500	6500	7000	8000	8500	9000	9500	10000
	[HP]	[kW]	m^3/h	54	60	66	72	78	84	90	105	120	135	150	165	180	210	222	240	270	300	330	390	420	480	510	540	570	600
			H=Head [m]																										
MMD4 100-200/4	5,5	4		12,3	12,2	12,0	11,8	11,6	11,4	11,2	10,3	9,3	8,0	6,6	4,8*	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MMD4 100-200/5,5	7,5	5,5		14,5	14,4	14,2	14,0	13,8	13,6	13,4	12,8	12,0	11,0	9,8	8,5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MMD4 100-250/7,5	10	7,5		-	19,5	19,3	19,1	18,9	18,7	18,5	17,5	16,5	15,2	14,0	12,0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MMD4 100-250/9.2	12,5	9,2		-	22,0	21,9	21,8	21,7	21,6	21,5	20,5	19,5	18,5	17,0	15,0	12,8*	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MMD4 125-200/5,5	7,5	5,5		-	-	-	-	-	-	10,5	10,3	9,9	9,5	9,1	8,5	7,9	6,4	5,7	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MMD4 125-200/7.5 R	10	7,5		-	-	-	-	-	-	11,8	11,6	11,3	11,0	10,6	10,2	9,6	8,3	7,7	6,7	-	-	-	-	-	-	-	-	-	-	-	-	-
MMD4 125-200/7.5	10	7,5		-	-	-	-	-	-	-	12,9	12,7	12,4	12,1	11,7	11,2	10,1	9,6	8,7	7,1*	-	-	-	-	-	-	-	-	-	-	-	-
MMD4 125-200/9.2	12,5	9,2		-	-	-	-	-	-	-	14,3	14,1	13,8	13,6	13,2	12,8	11,8	11,3	10,6	9,2	7,6**	-	-	-	-	-	-	-	-	-	-	-
MMD4 125-250/11	15	11		-	-	-	-	-	-	-	17,2	16,7	16,2	15,5	14,8	13,9	12,0	11,3	10,0	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MMD4 125-250/15	20	15		-	-	-	-	-	-	-	21,0	20,5	20,1	19,5	18,9	18,2	16,6	16,0	14,8	12,8	-	-	-	-	-	-	-	-	-	-	-	-	-
MMD4 150-200/7.5	10	7,5		-	-	-	-	-	-	-	-	11,0	10,7	10,4	10,1	9,7	8,8	8,4	7,8	6,6	5,3	-	-	-	-	-	-	-	-	-	-	-	-
MMD4 150-200/9.2	12,5	9,2		-	-	-	-	-	-	-	-	12,0	11,8	11,6	11,2	10,9	10,2	9,8	9,2	8,0	6,8	5,6	-	-	-	-	-	-	-	-	-	-	-
MMD4 150-200/11	15	11		-	-	-	-	-	-	-	-	-	-	13,7	13,5	13,2	12,5	12,2	11,7	10,8	9,8	8,7	6,1	-	-	-	-	-	-	-	-	-	-
MMD4 150-200/15	20	15		-	-	-	-	-	-	-	-	-	-	15,2	14,9	14,7	14,2	13,8	13,4	12,5	11,6	10,5	8,2	6,8	-	-	-	-	-	-	-	-	-
MMD4 200-250/18.5 R	25	18,5		-	-	-	-	-	-	-	-	-	-	-	-	14,9	14,5	14,3	14,1	13,6	13,0	12,3	11,0	10,3	8,6	7,8	-	-	-	-	-	-	-
MMD4 200-250/18.5	25	18,5		-	-	-	-	-	-	-	-	-	-	-	-	15,9	15,5	15,3	15,2	14,7	14,2	13,6	12,3	11,6	10,0	9,1	8,2	-	-	-	-	-	-
MMD4 200-250/22 R	30	22		-	-	-	-	-	-	-	-	-	-	-	-	-	18,0	17,8	17,6	17,1	16,6	16,0	14,7	13,9	12,2	11,2	10,1	9,0	-	-	-	-	-
MMD4 200-250/22	30	22		-	-	-	-	-	-	-	-	-	-	-	-	-	19,1	18,9	18,8	18,3	17,8	17,3	16,0	15,3	13,7	12,7	11,7	10,7	9,6	-	-	-	-

* The suction manometric height must not exceed 2 m
** Suction with positive head of 1 m

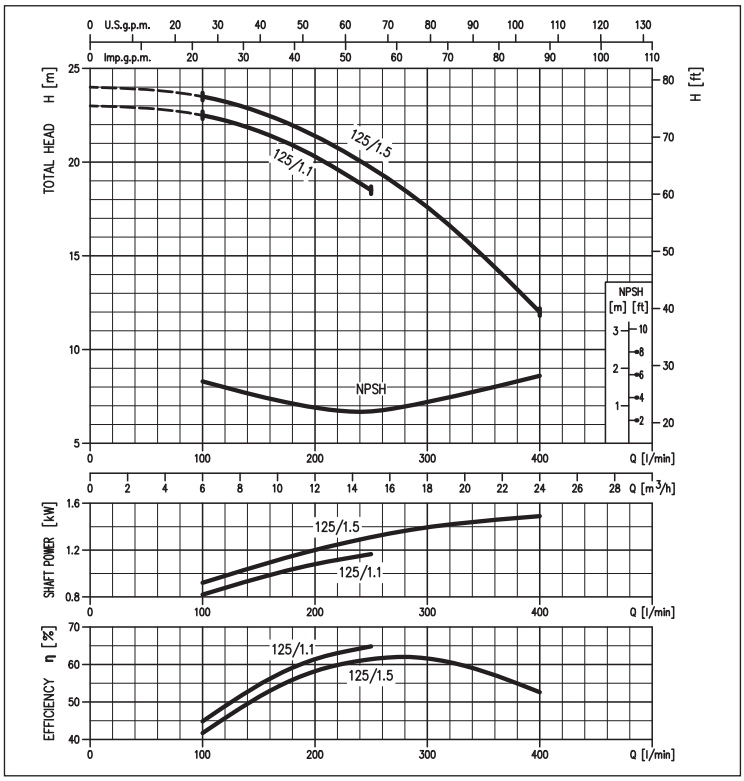
MD - MMD

MONOBLOC CENTRIFUGAL ELECTRIC PUMP IN COMPLIANCE WITH EN 733

in cast iron

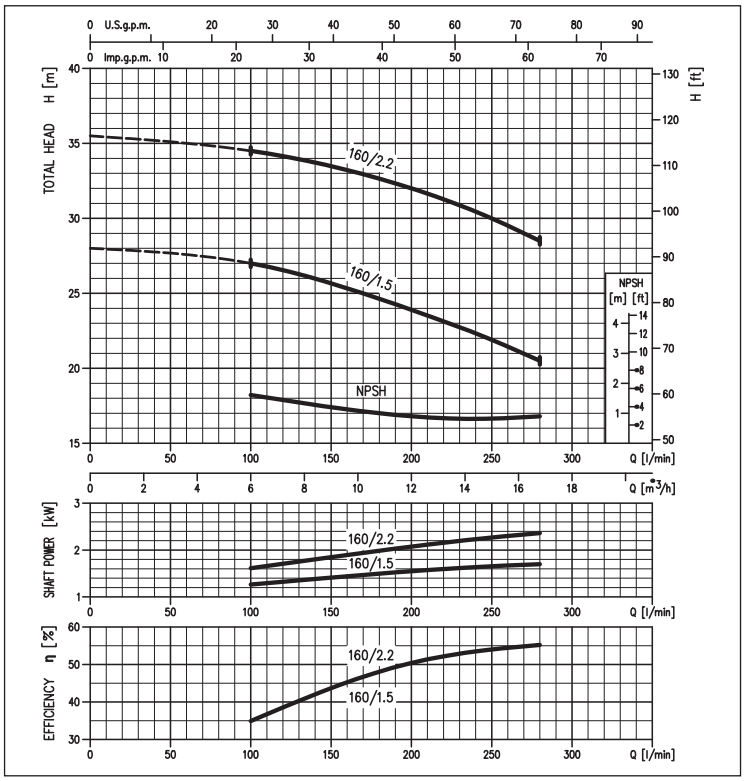
MD 32-125 range PERFORMANCE CURVES — 2 Poles

(according to ISO 9906 Attachment A)



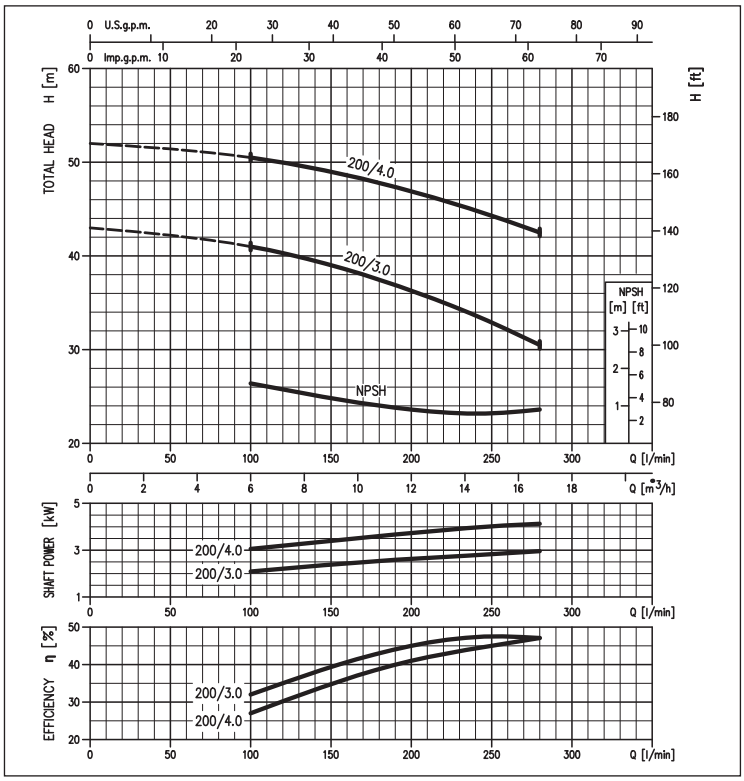
MD 32-160 range PERFORMANCE CURVES — 2 Poles

(according to ISO 9906 Attachment A)



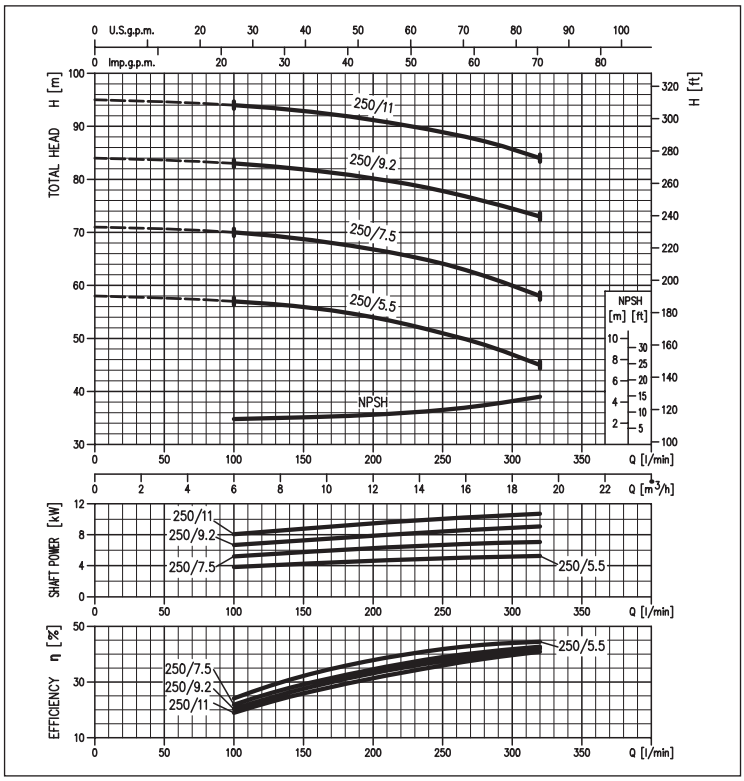
MD 32-200 range PERFORMANCE CURVES — 2 Poles

(according to ISO 9906 Attachment A)



MD 32-250 range PERFORMANCE CURVES — 2 Poles

(according to ISO 9906 Attachment A)

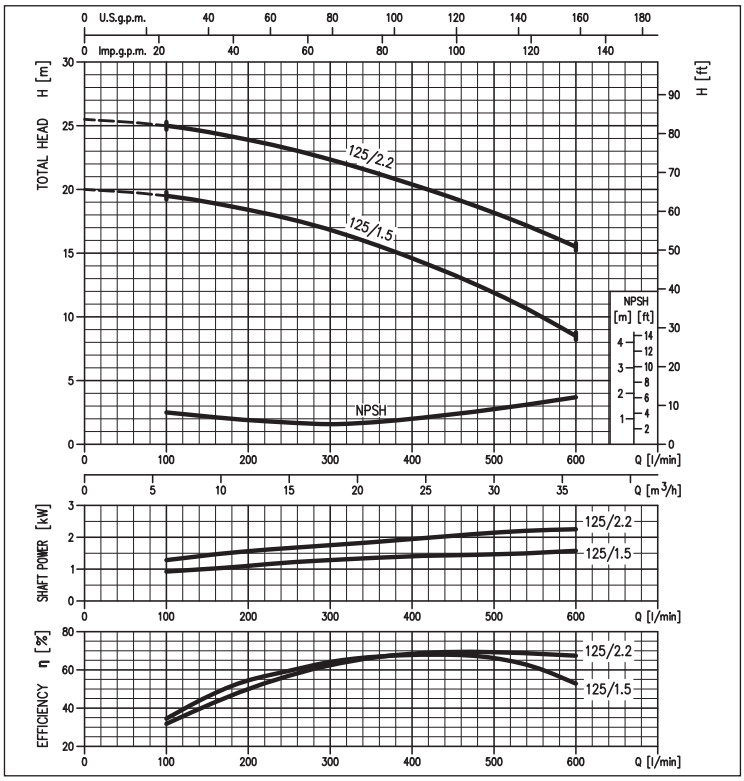


MONOBLOC CENTRIFUGAL ELECTRIC PUMP IN COMPLIANCE WITH EN 733

in cast iron

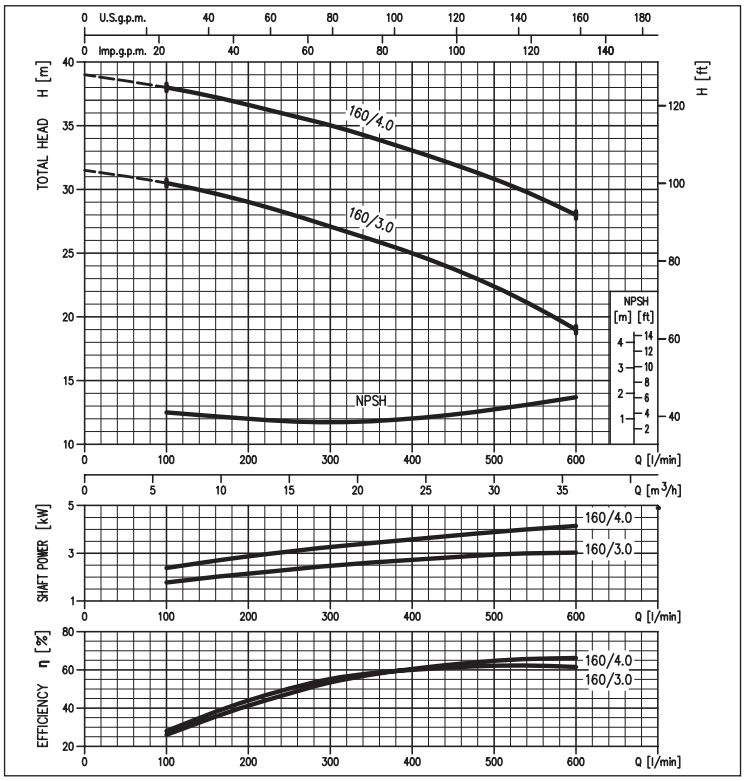
MD 40-125 range PERFORMANCE CURVES — 2 Poles

(according to ISO 9906 Attachment A)



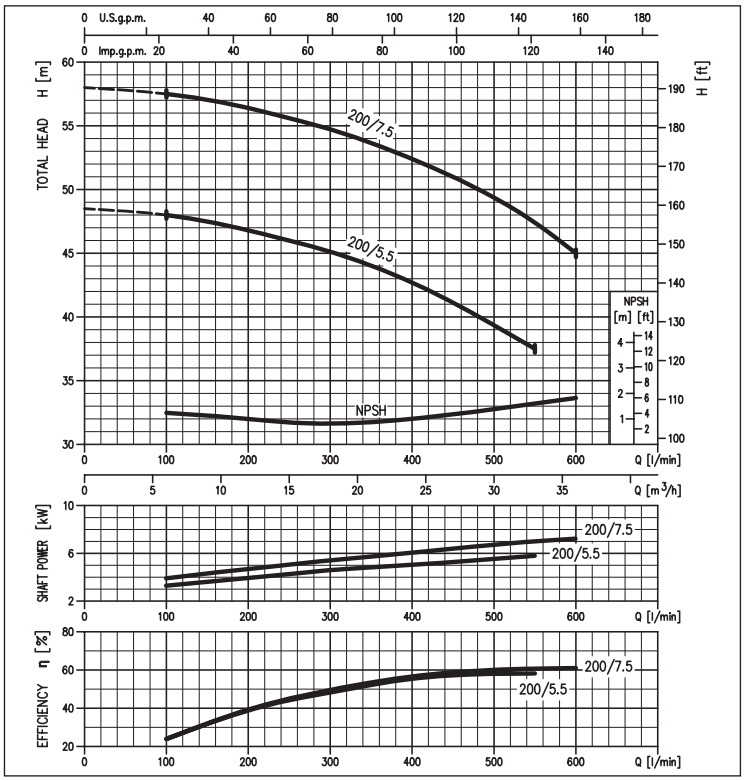
MD 40-160 range PERFORMANCE CURVES — 2 Poles

(according to ISO 9906 Attachment A)



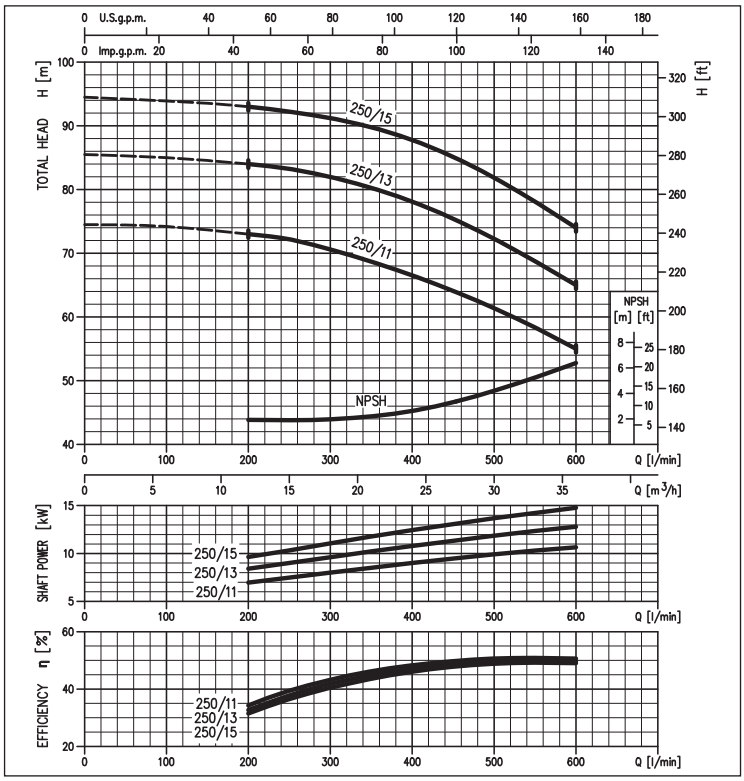
MD 40-200 range PERFORMANCE CURVES — 2 Poles

(according to ISO 9906 Attachment A)



MD 40-250 range PERFORMANCE CURVES — 2 Poles

(according to ISO 9906 Attachment A)



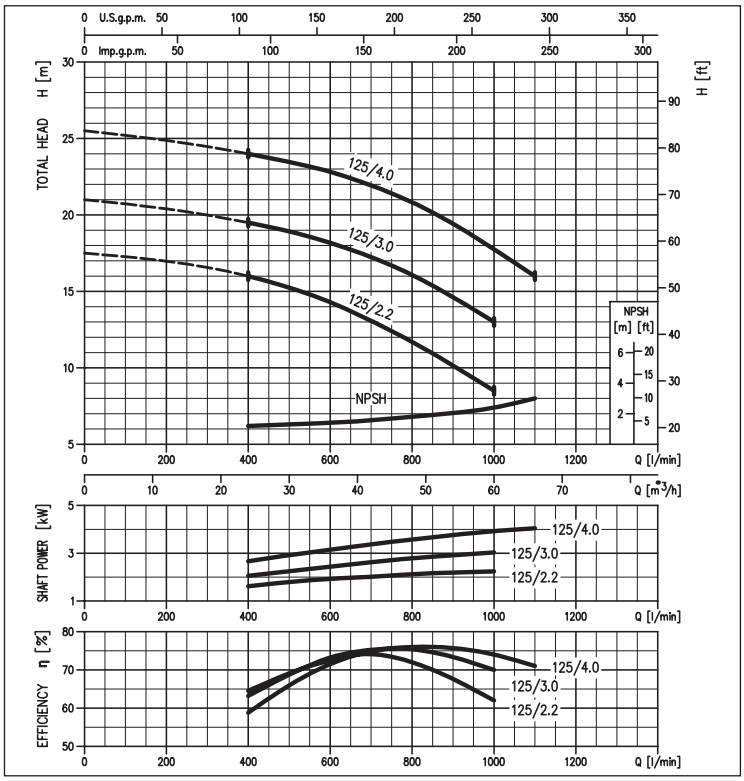
MD - MMD

MONOBLOC CENTRIFUGAL ELECTRIC PUMP IN COMPLIANCE WITH EN 733

in cast iron

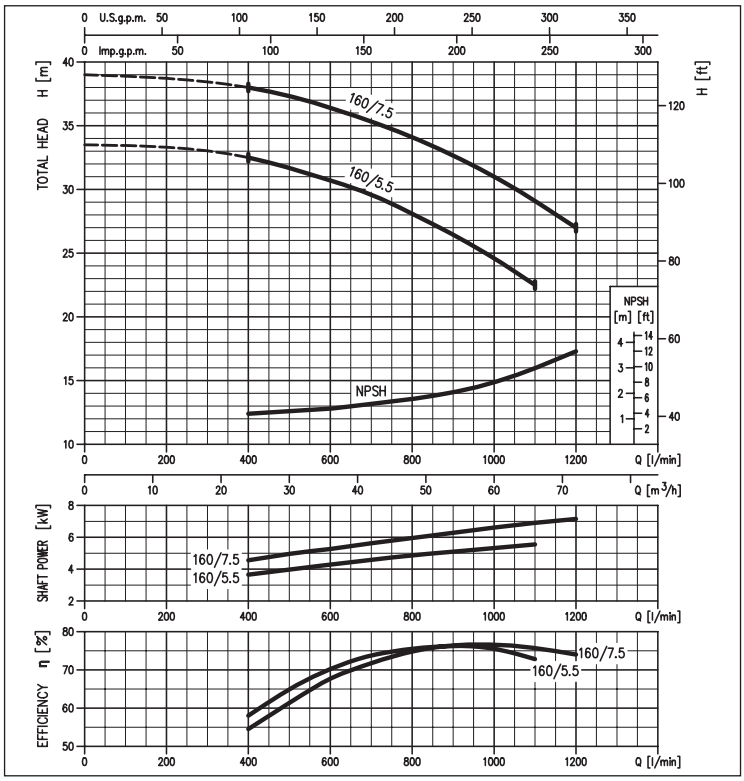
MD 50-125 range PERFORMANCE CURVES — 2 Poles

(according to ISO 9906 Attachment A)



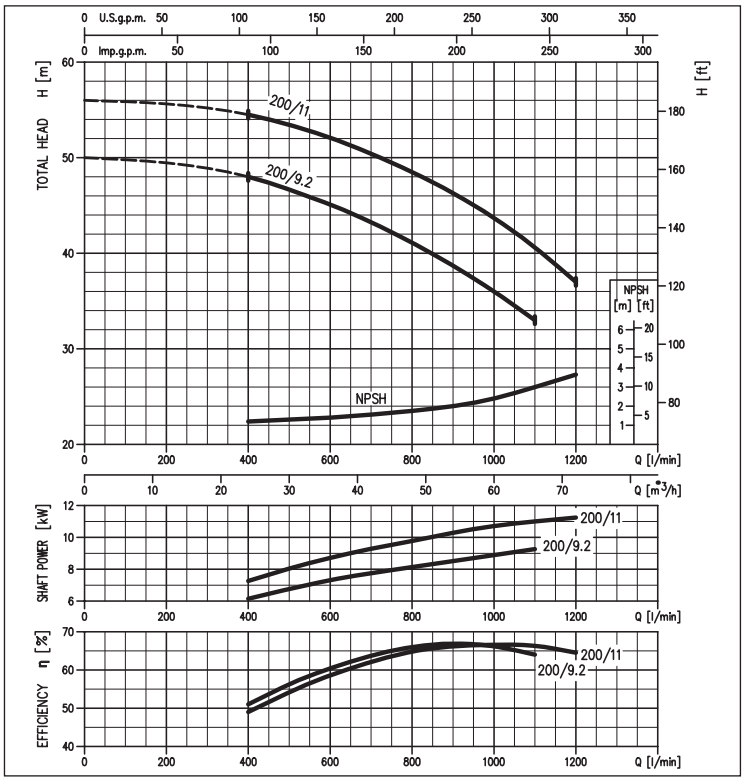
MD 50-160 range PERFORMANCE CURVES — 2 Poles

(according to ISO 9906 Attachment A)



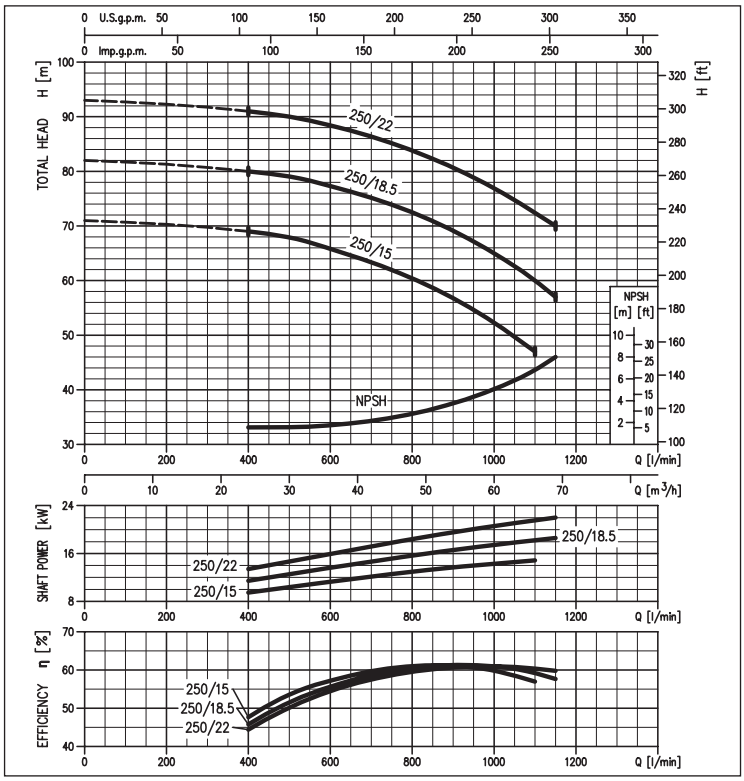
MD 50-200 range PERFORMANCE CURVES — 2 Poles

(according to ISO 9906 Attachment A)



MD 50-250 range PERFORMANCE CURVES — 2 Poles

(according to ISO 9906 Attachment A)

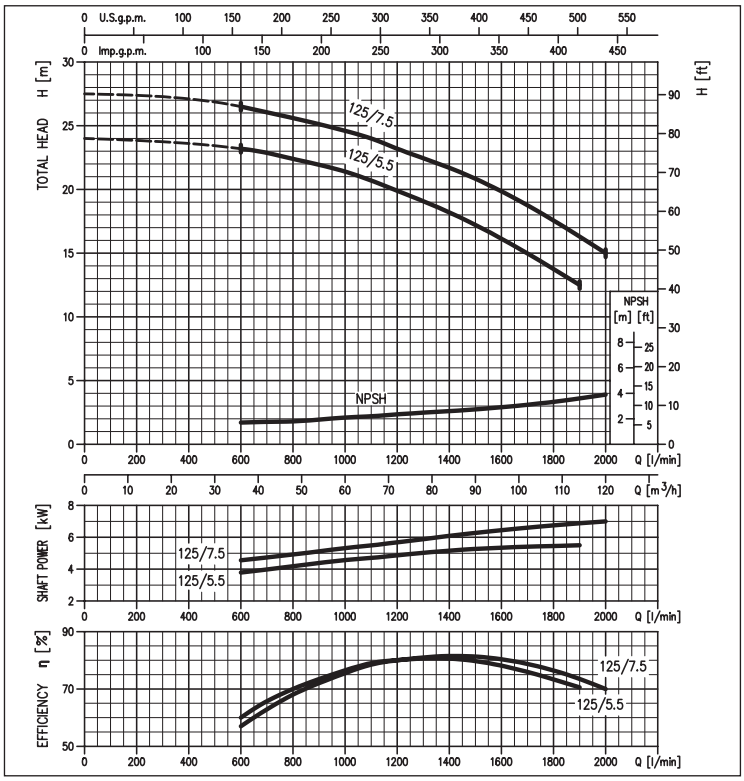


MONOBLOC CENTRIFUGAL ELECTRIC PUMP IN COMPLIANCE WITH EN 733

in cast iron

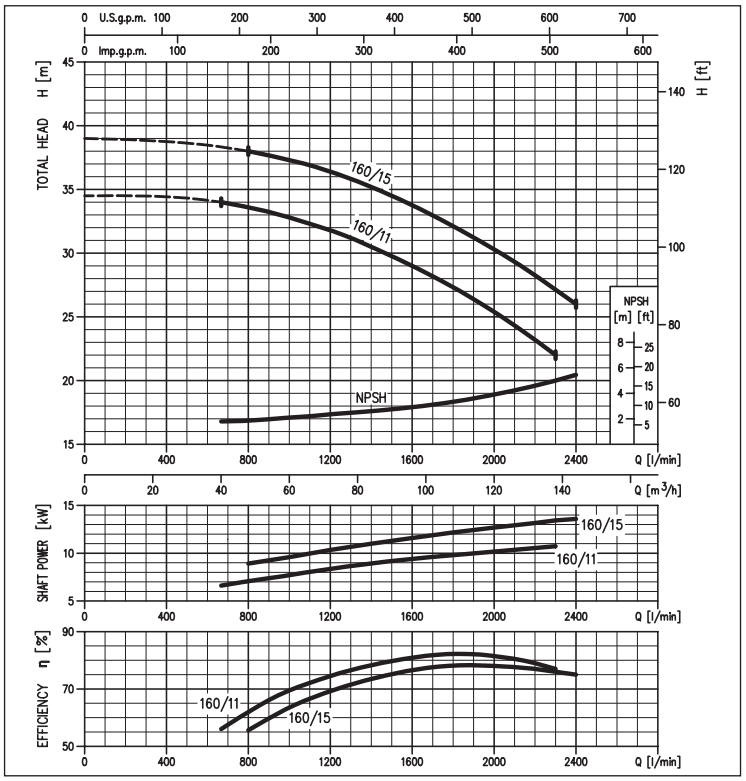
MD 65-125 range PERFORMANCE CURVES — 2 Poles

(according to ISO 9906 Attachment A)



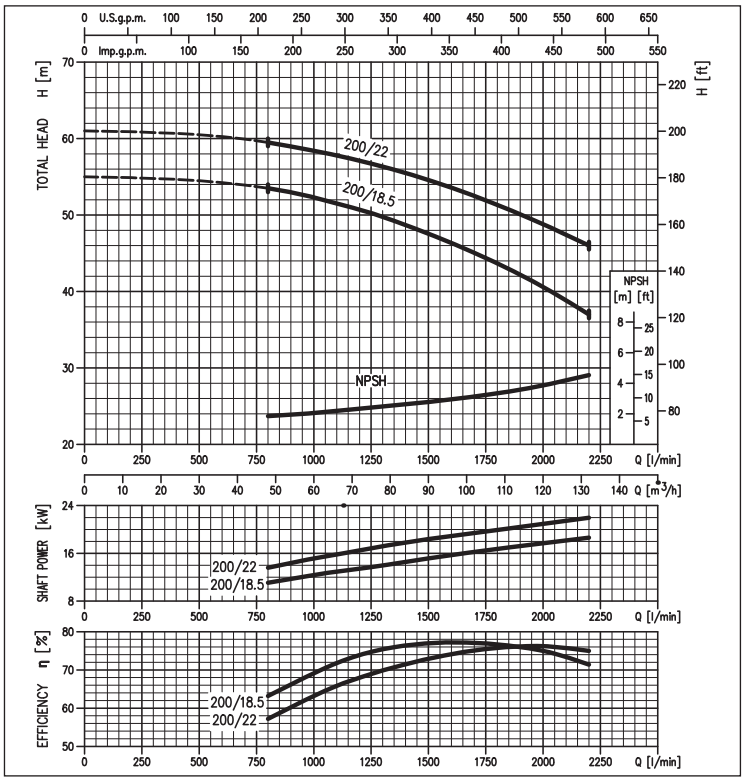
MD 65-160 range PERFORMANCE CURVES — 2 Poles

(according to ISO 9906 Attachment A)



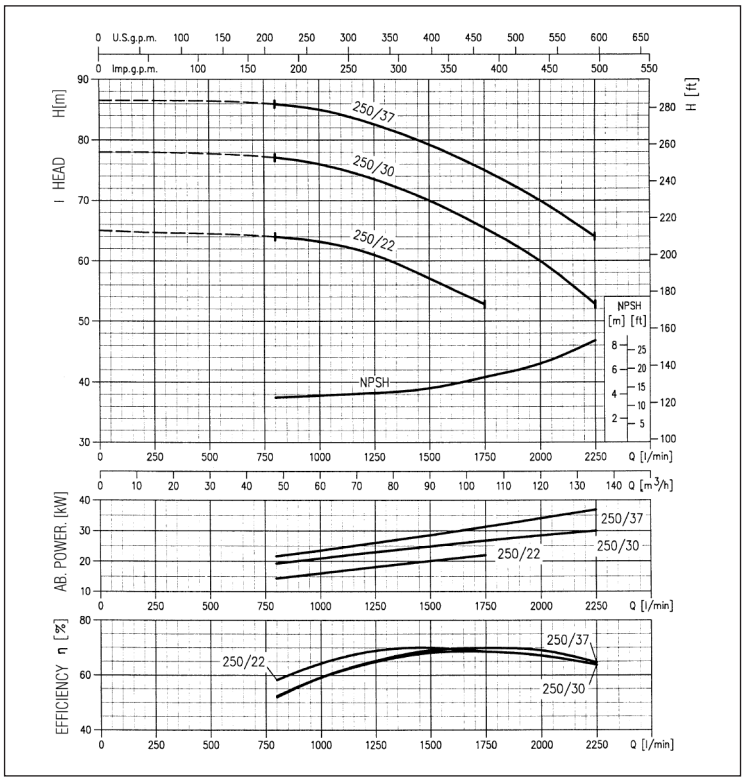
MD 65-200 range PERFORMANCE CURVES — 2 Poles

(according to ISO 9906 Attachment A)



MMD 65-250 range PERFORMANCE CURVES — 2 Poles

(according to ISO 9906 Attachment A)



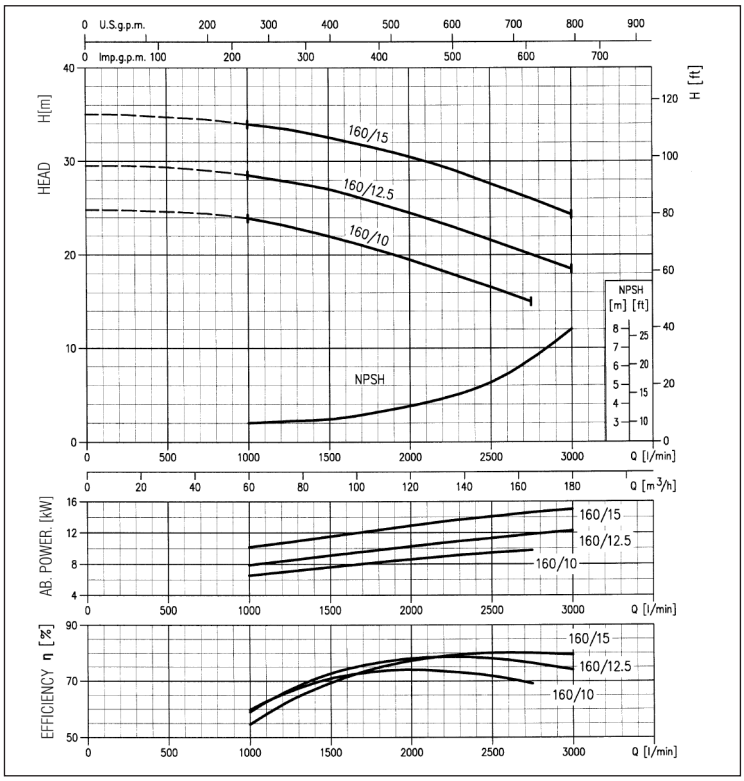
MD - MMD

MONOBLOC CENTRIFUGAL ELECTRIC PUMP IN COMPLIANCE WITH EN 733

in cast iron

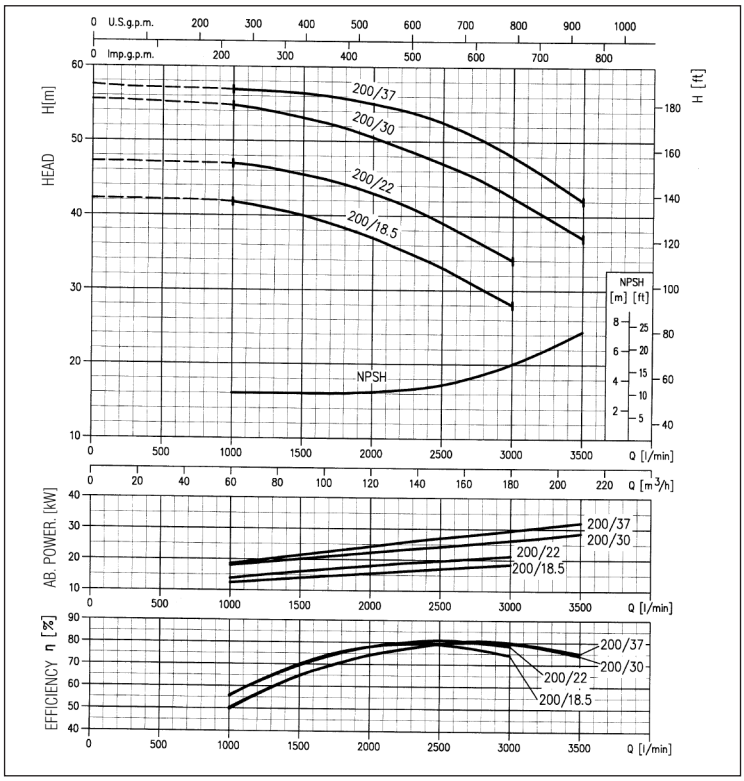
MMD 80-160 range PERFORMANCE CURVES — 2 Poles

(according to ISO 9906 Attachment A)



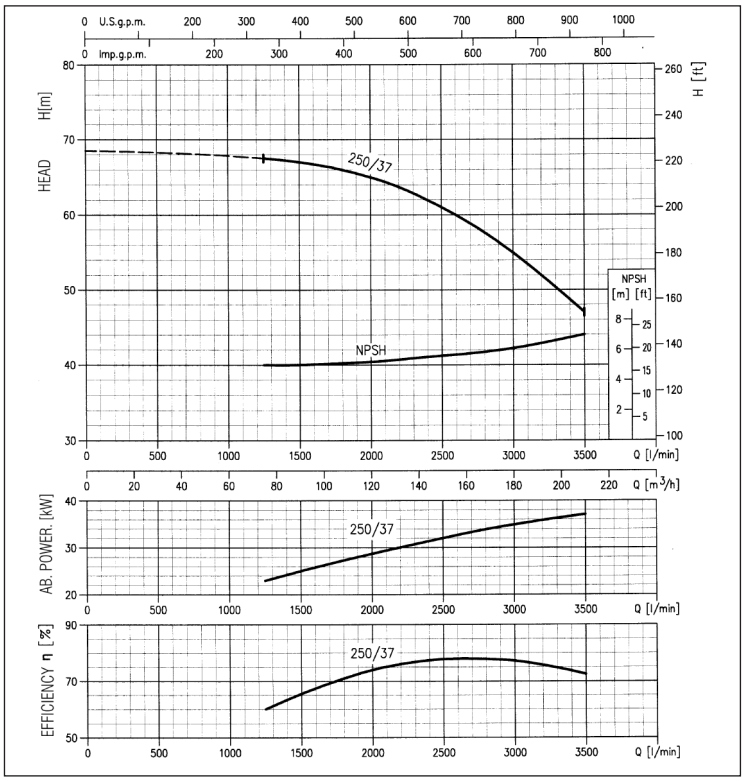
MMD 80-200 range PERFORMANCE CURVES — 2 Poles

(according to ISO 9906 Attachment A)



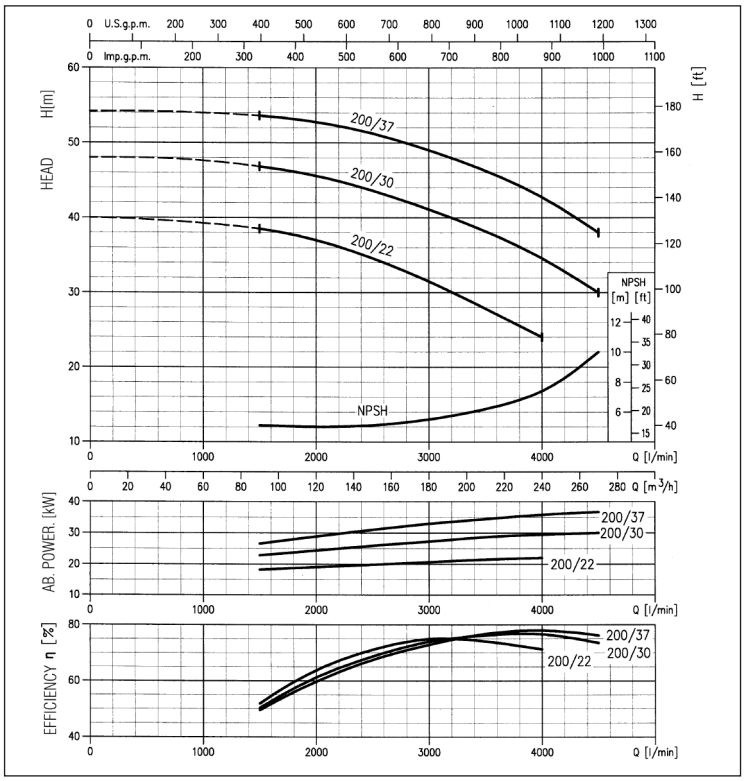
MMD 80-250 range PERFORMANCE CURVES — 2 Poles

(according to ISO 9906 Attachment A)



MMD 100-200 range PERFORMANCE CURVES — 2 Poles

(according to ISO 9906 Attachment A)

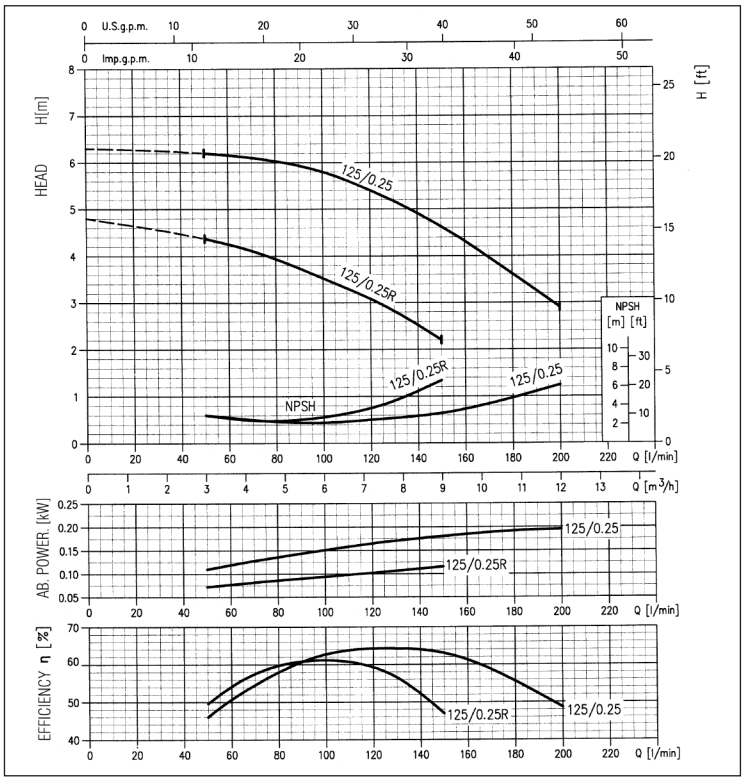


MONOBLOC CENTRIFUGAL ELECTRIC PUMP IN COMPLIANCE WITH EN 733

in cast iron

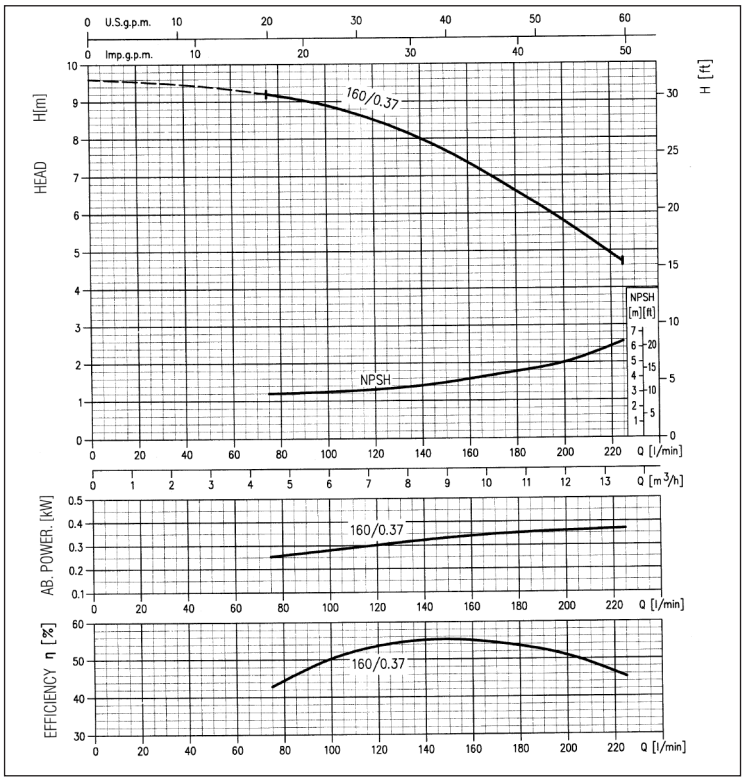
MMD4 32-125 range PERFORMANCE CURVES — 4 Poles

(according to ISO 9906 Attachment A)



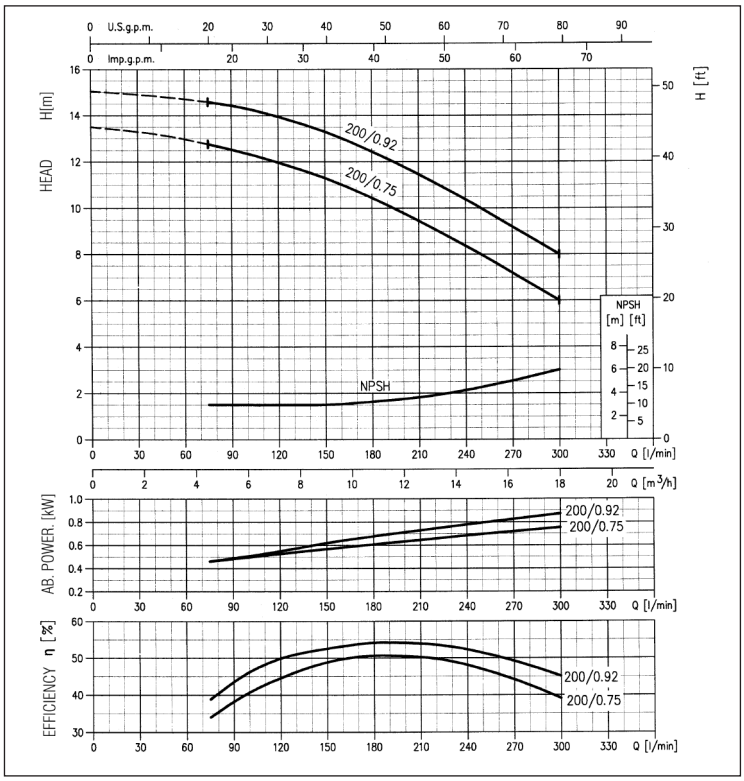
MMD4 32-160 range PERFORMANCE CURVES — 4 Poles

(according to ISO 9906 Attachment A)



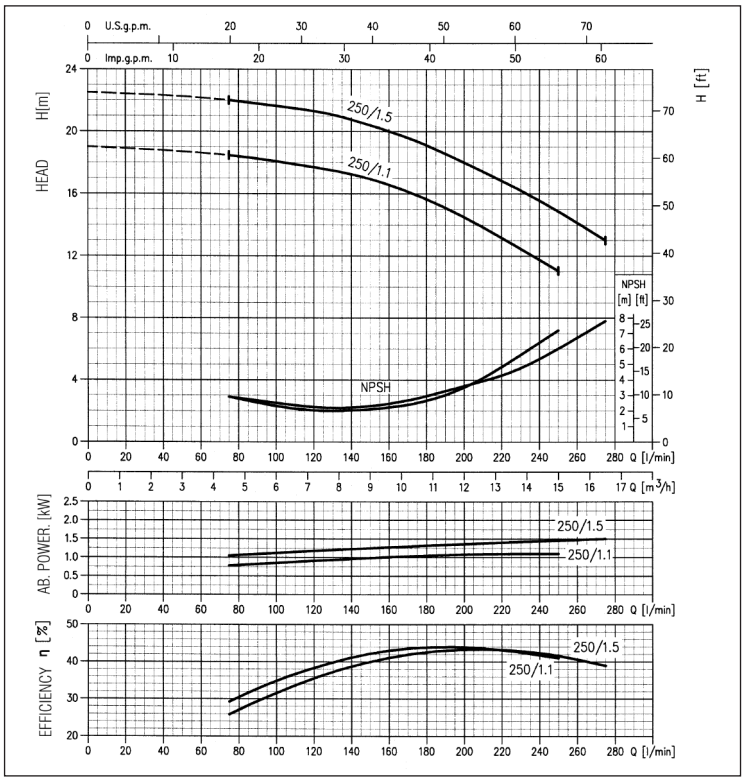
MMD4 32-200 range PERFORMANCE CURVES — 4 Poles

(according to ISO 9906 Attachment A)



MMD4 32-250 range PERFORMANCE CURVES — 4 Poles

(according to ISO 9906 Attachment A)

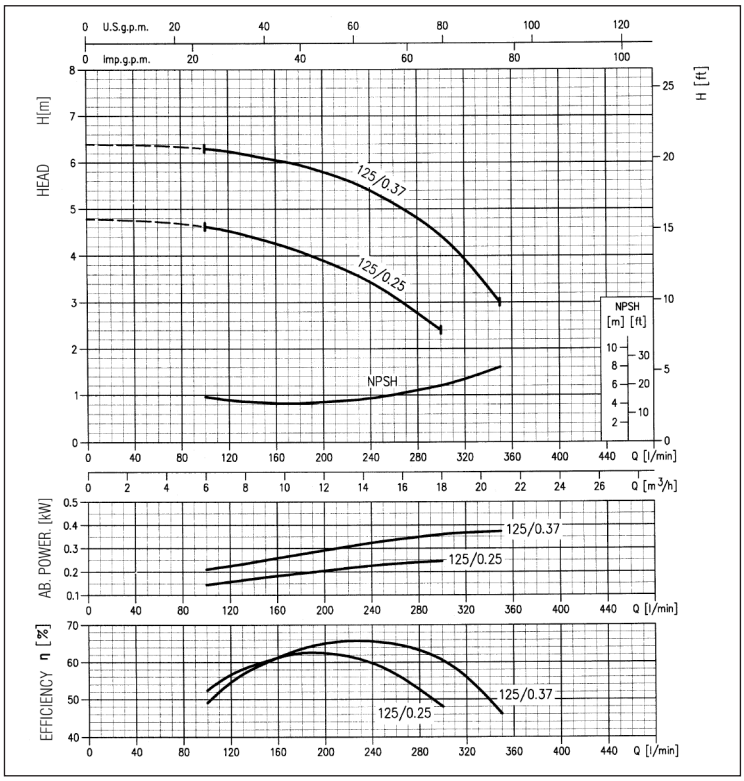


MONOBLOC CENTRIFUGAL ELECTRIC PUMP IN COMPLIANCE WITH EN 733

in cast iron

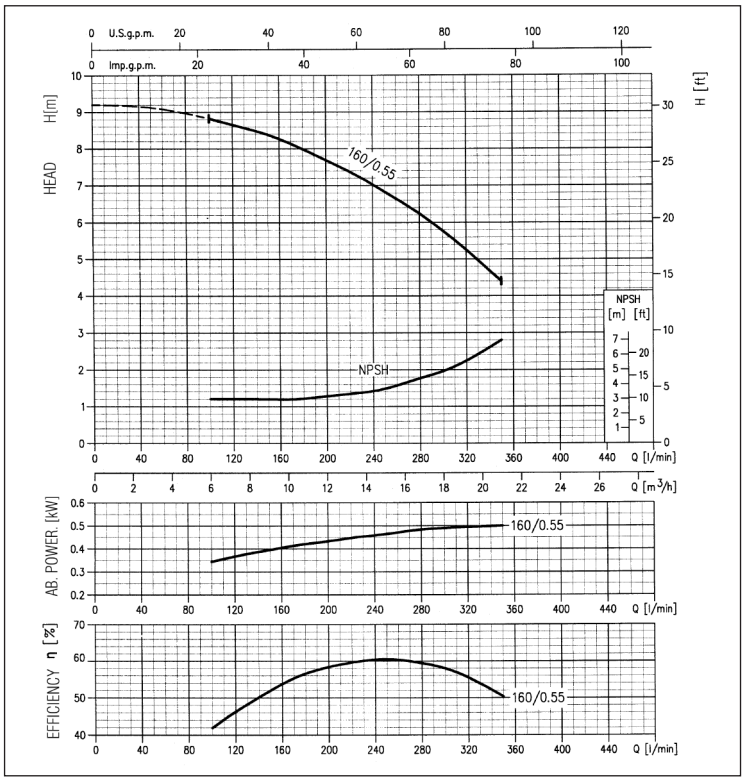
MMD4 40-125 range PERFORMANCE CURVES — 4 Poles

(according to ISO 9906 Attachment A)



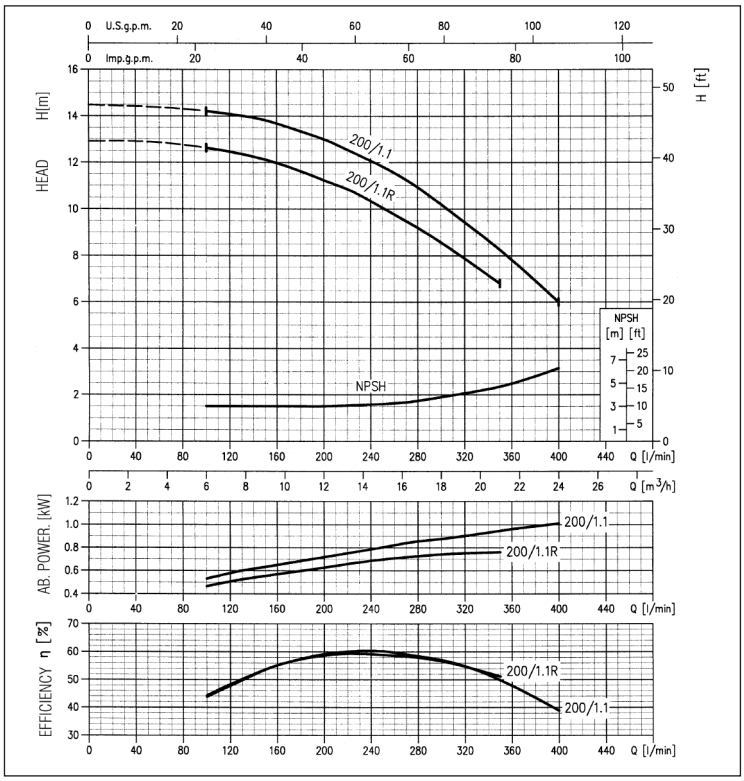
MMD4 40-160 range PERFORMANCE CURVES — 4 Poles

(according to ISO 9906 Attachment A)



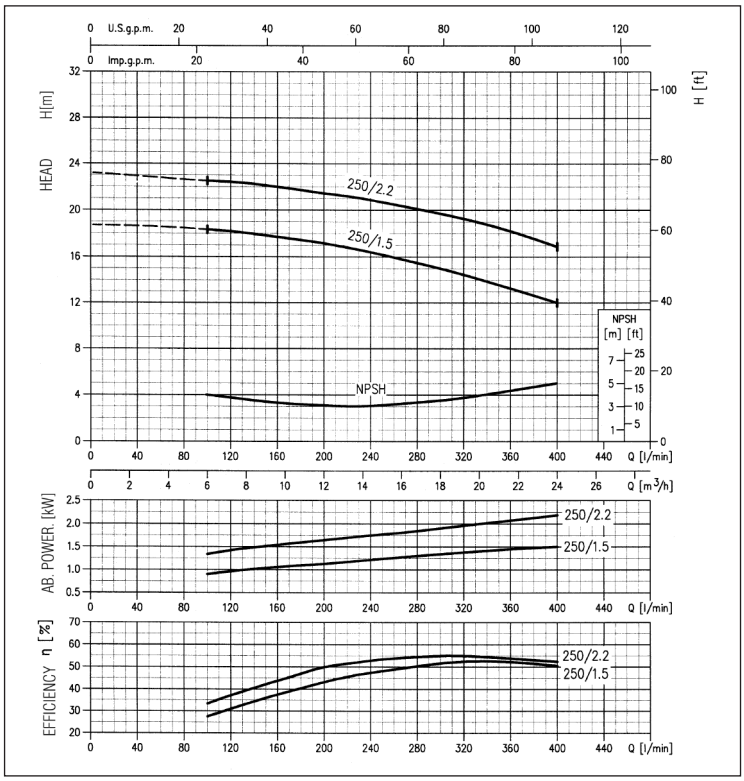
MMD4 40-200 range PERFORMANCE CURVES — 4 Poles

(according to ISO 9906 Attachment A)



MMD4 40-250 range PERFORMANCE CURVES — 4 Poles

(according to ISO 9906 Attachment A)

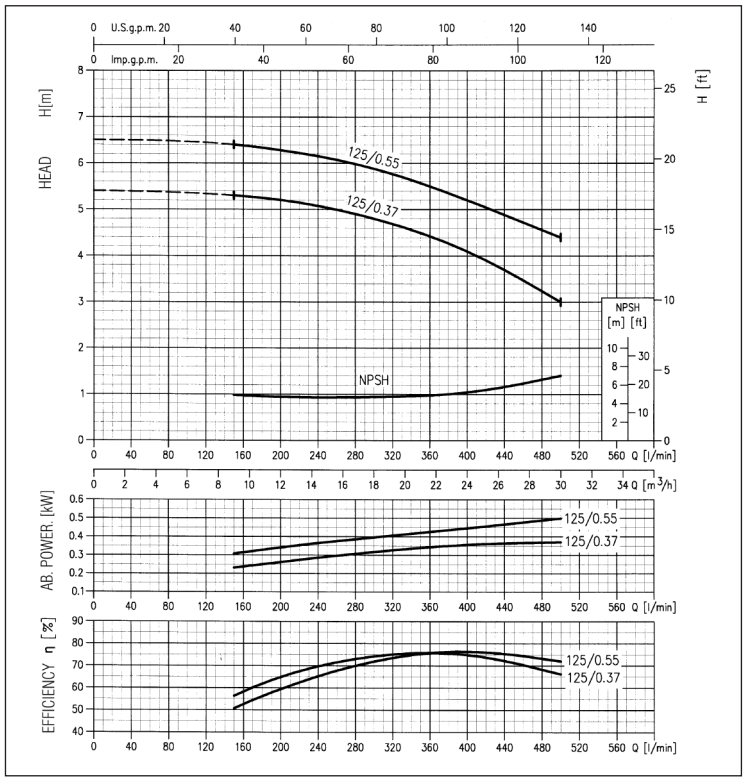


MONOBLOC CENTRIFUGAL ELECTRIC PUMP IN COMPLIANCE WITH EN 733

in cast iron

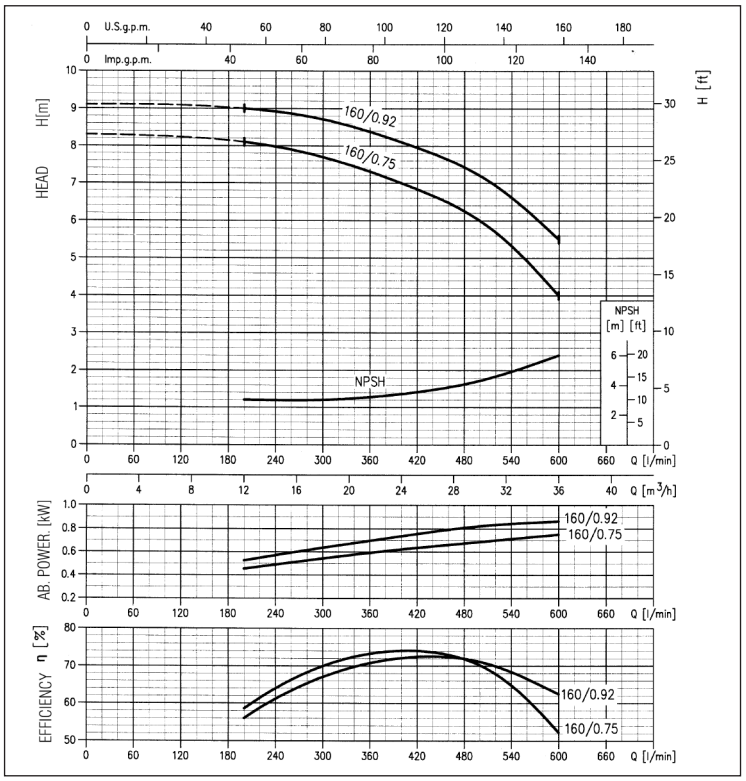
MMD4 50-125 range PERFORMANCE CURVES — 4 Poles

(according to ISO 9906 Attachment A)



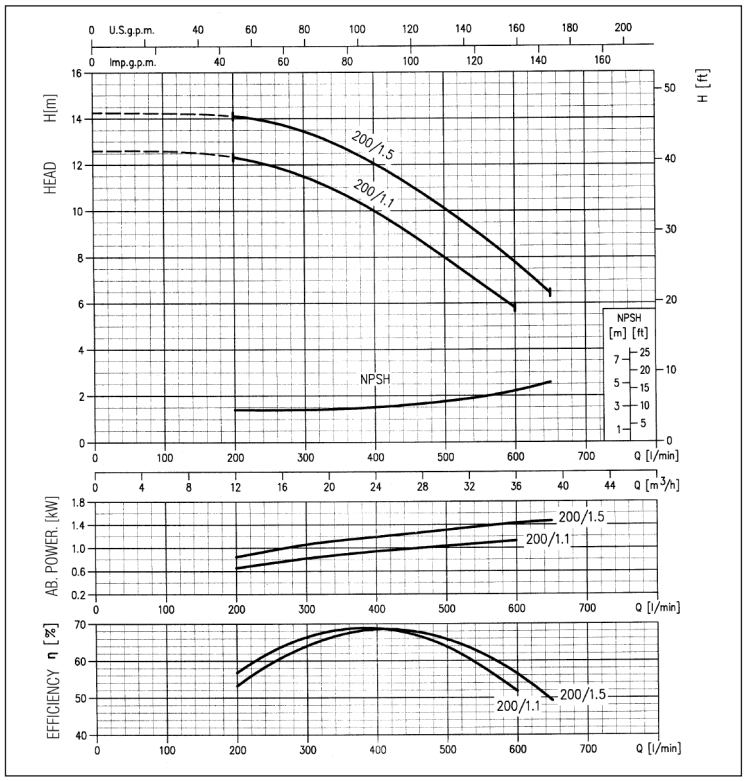
MMD4 50-160 range PERFORMANCE CURVES — 4 Poles

(according to ISO 9906 Attachment A)



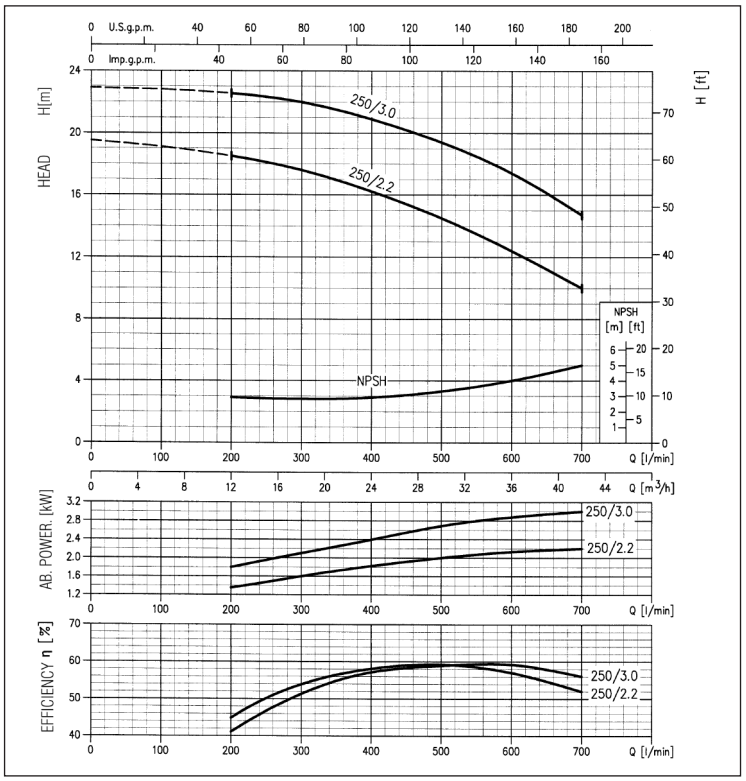
MMD4 50-200 range PERFORMANCE CURVES — 4 Poles

(according to ISO 9906 Attachment A)



MMD4 50-250 range PERFORMANCE CURVES — 4 Poles

(according to ISO 9906 Attachment A)

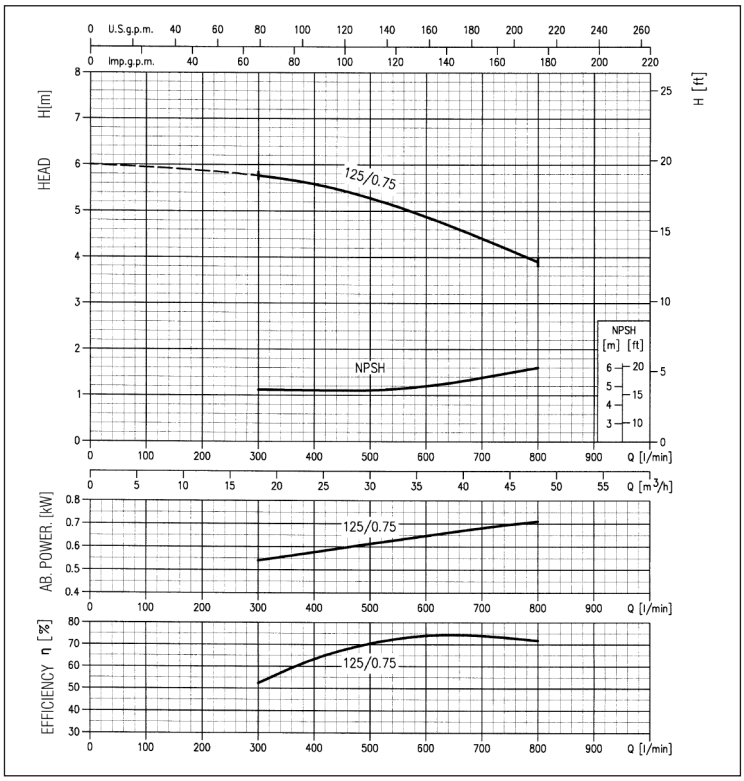


MONOBLOC CENTRIFUGAL ELECTRIC PUMP IN COMPLIANCE WITH EN 733

in cast iron

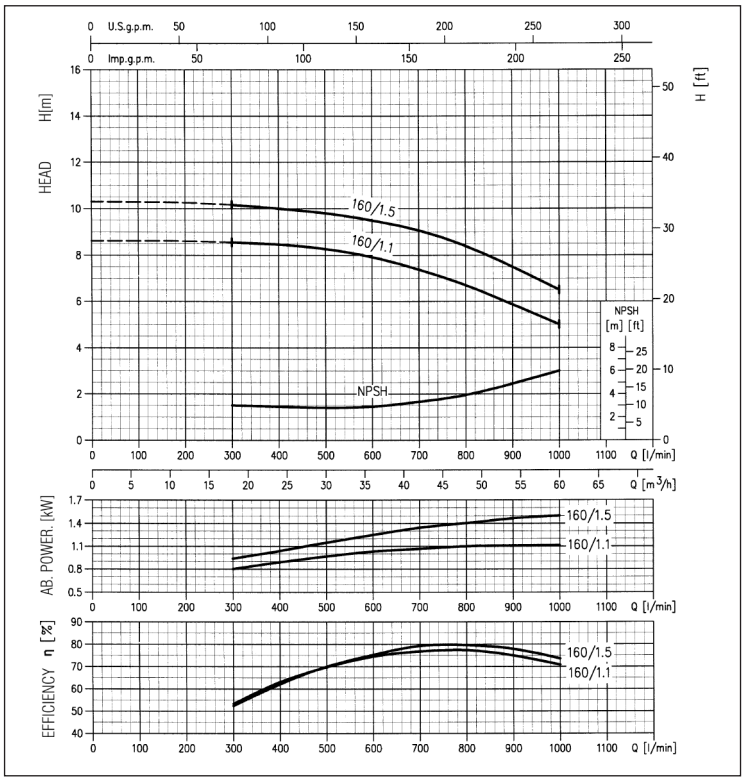
MMD4 65-125 range PERFORMANCE CURVES — 4 Poles

(according to ISO 9906 Attachment A)



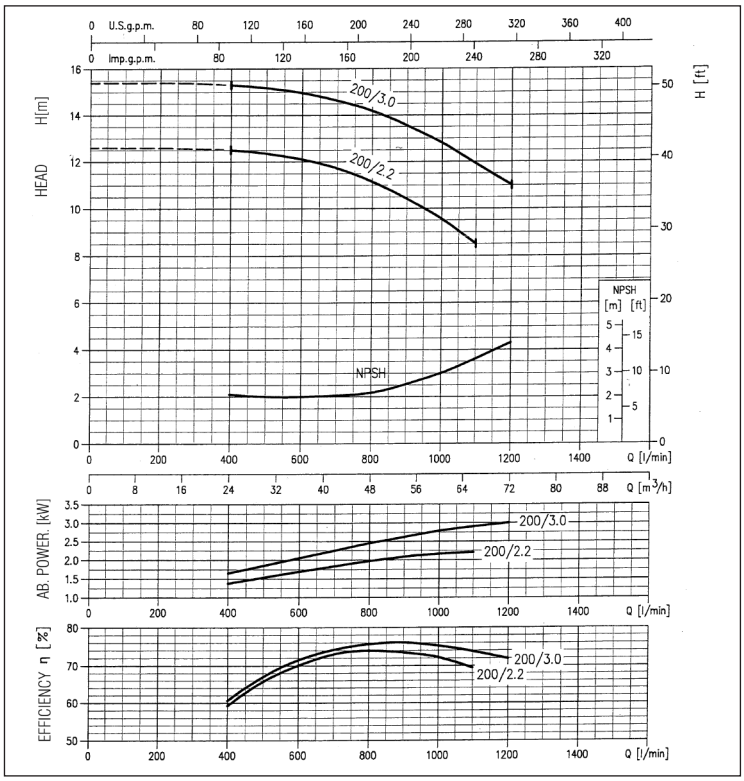
MMD4 65-160 range PERFORMANCE CURVES — 4 Poles

(according to ISO 9906 Attachment A)



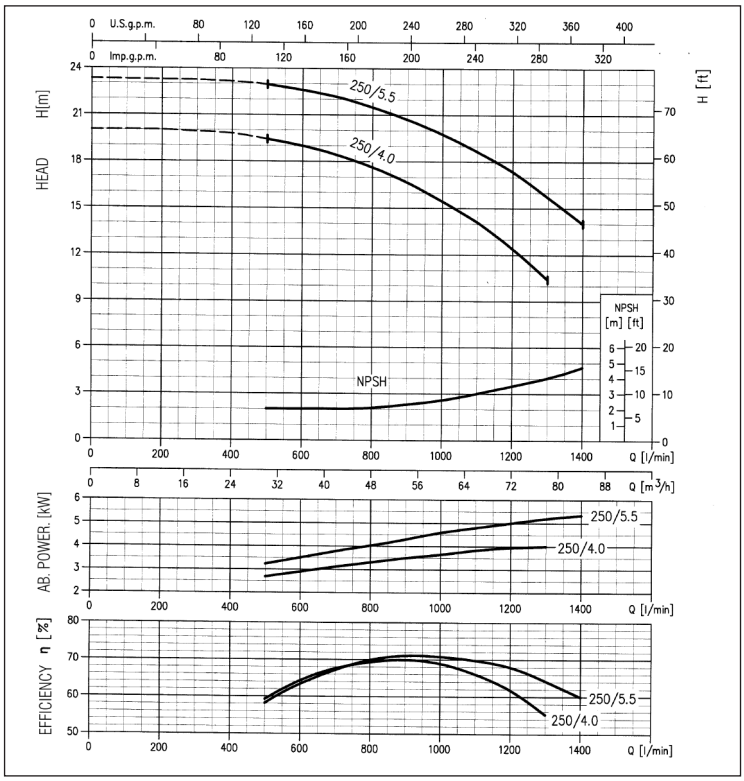
MMD4 65-200 range PERFORMANCE CURVES — 4 Poles

(according to ISO 9906 Attachment A)



MMD4 65-250 range PERFORMANCE CURVES — 4 Poles

(according to ISO 9906 Attachment A)

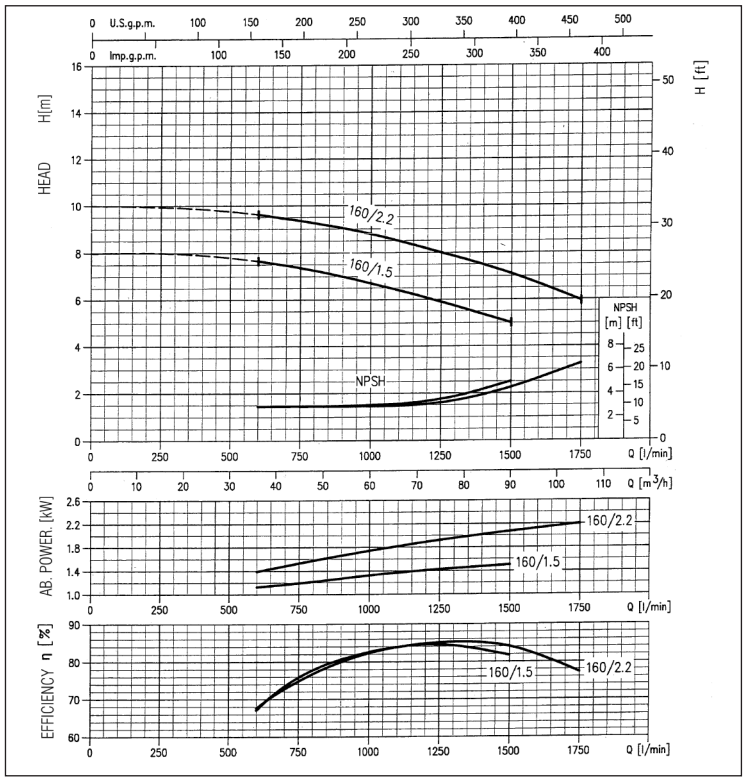


MONOBLOC CENTRIFUGAL ELECTRIC PUMP IN COMPLIANCE WITH EN 733

in cast iron

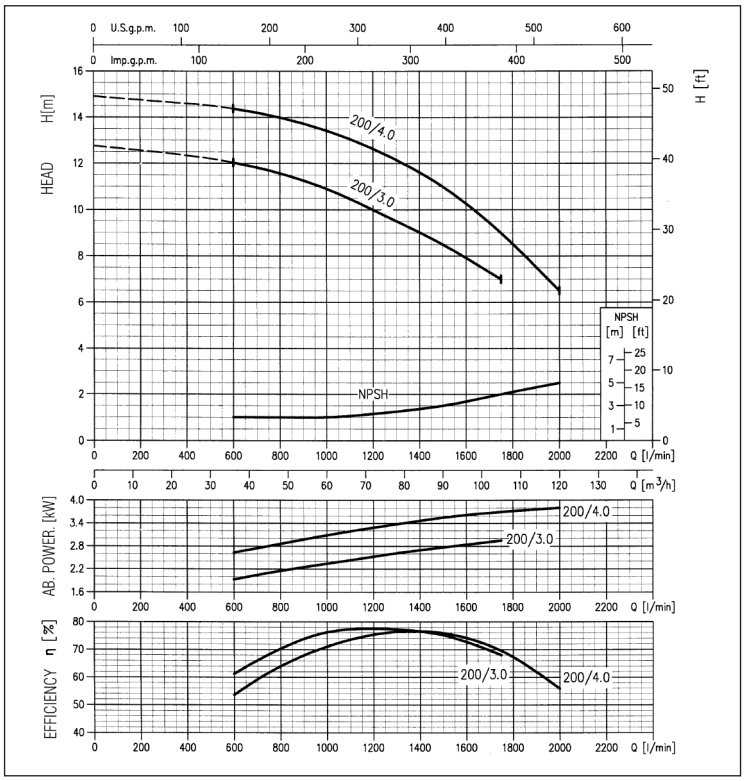
MMD4 80-160 range PERFORMANCE CURVES — 4 Poles

(according to ISO 9906 Attachment A)



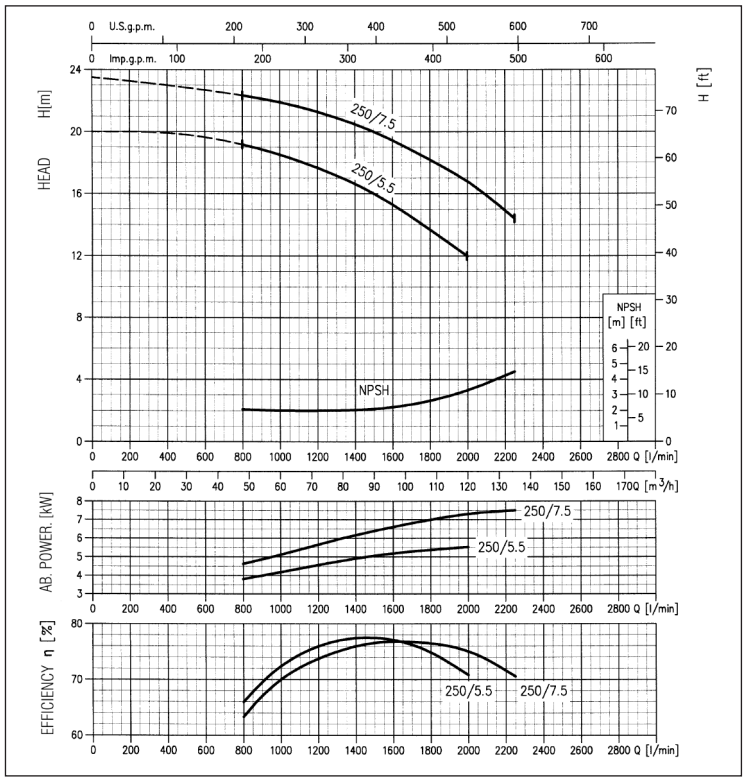
MMD4 80-200 range PERFORMANCE CURVES — 4 Poles

(according to ISO 9906 Attachment A)



MMD4 80-250 range PERFORMANCE CURVES — 4 Poles

(according to ISO 9906 Attachment A)



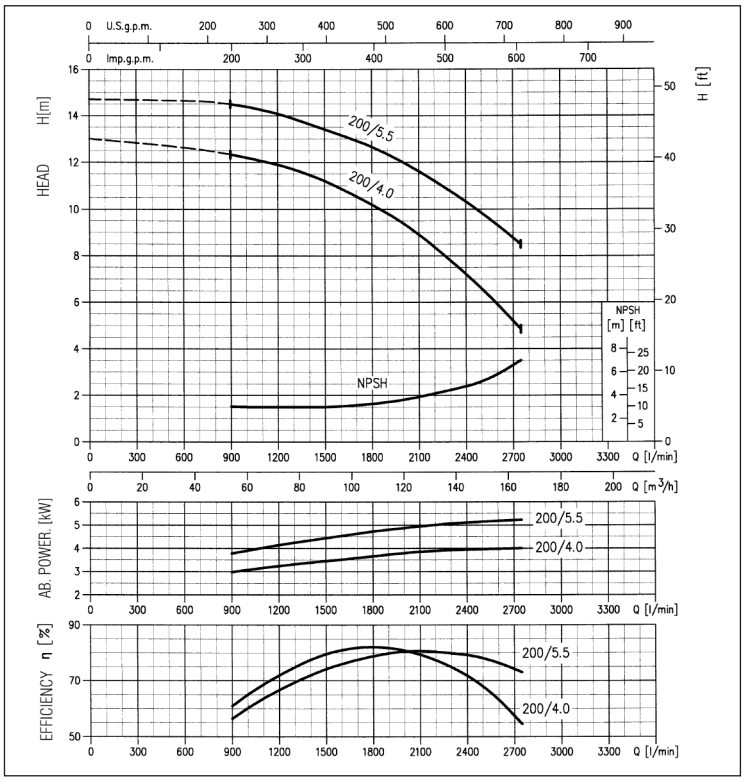
MD - MMD

MONOBLOC CENTRIFUGAL ELECTRIC PUMP IN COMPLIANCE WITH EN 733

in cast iron

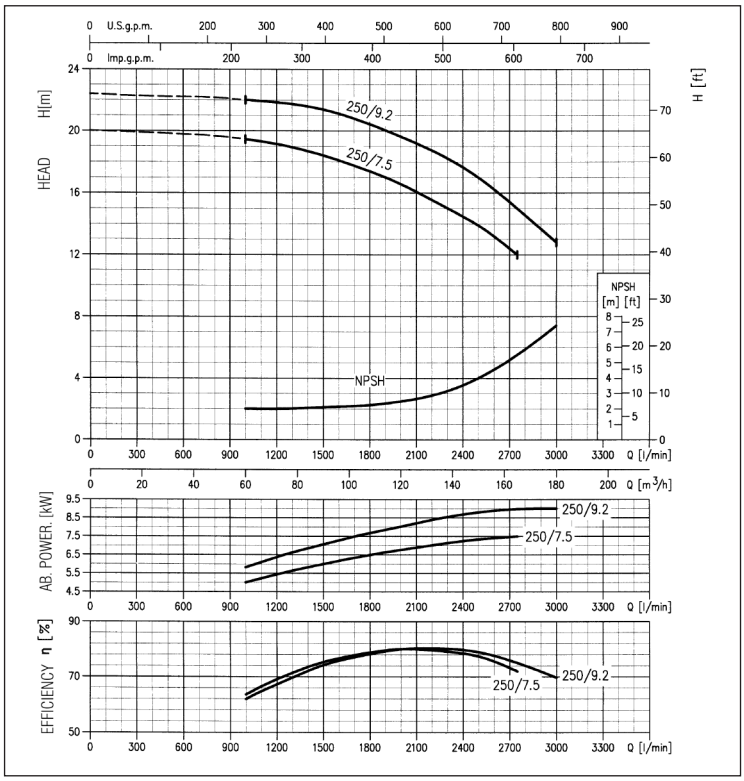
MMD4 100-200 range PERFORMANCE CURVES — 4 Poles

(according to ISO 9906 Attachment A)



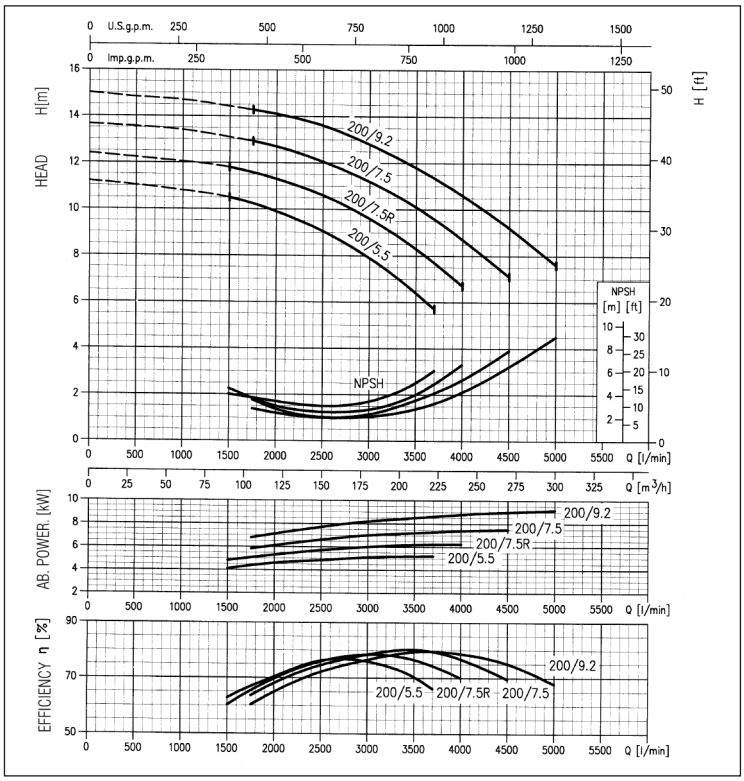
MMD4 100-250 range PERFORMANCE CURVES — 4 Poles

(according to ISO 9906 Attachment A)



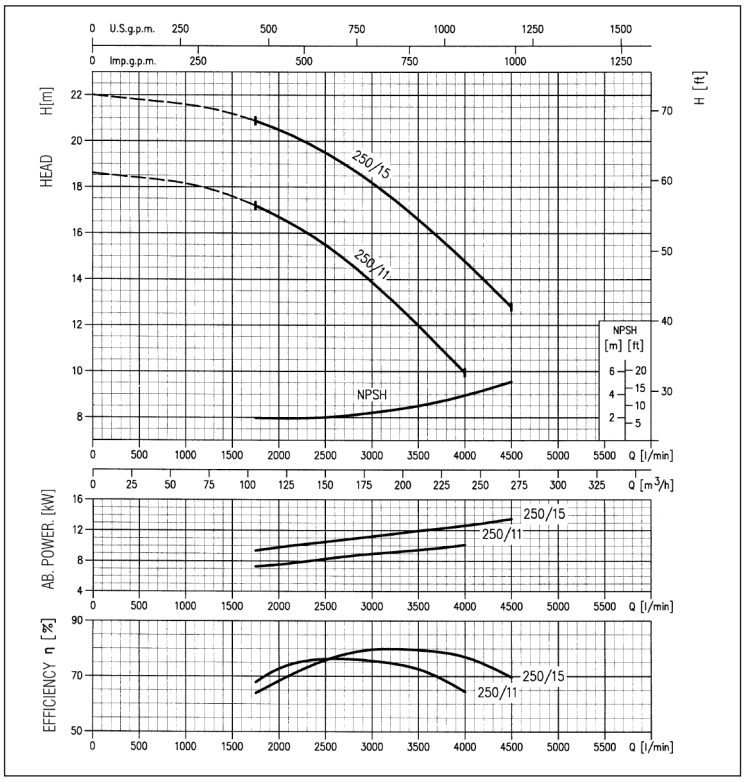
MMD4 125-200 range PERFORMANCE CURVES — 4 Poles

(according to ISO 9906 Attachment A)



MMD4 125-250 range PERFORMANCE CURVES — 4 Poles

(according to ISO 9906 Attachment A)



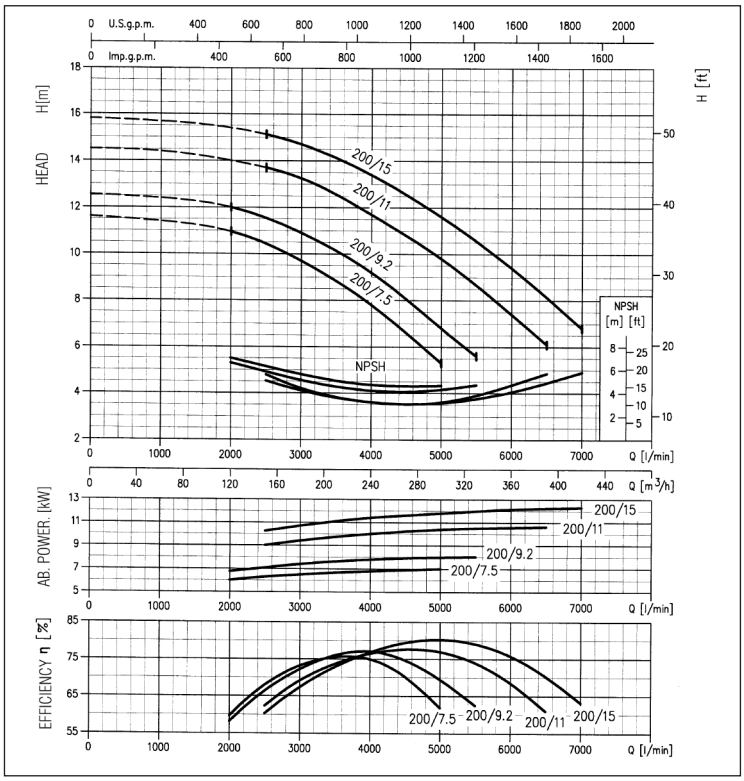
MD - MMD

MONOBLOC CENTRIFUGAL ELECTRIC PUMP IN COMPLIANCE WITH EN 733

in cast iron

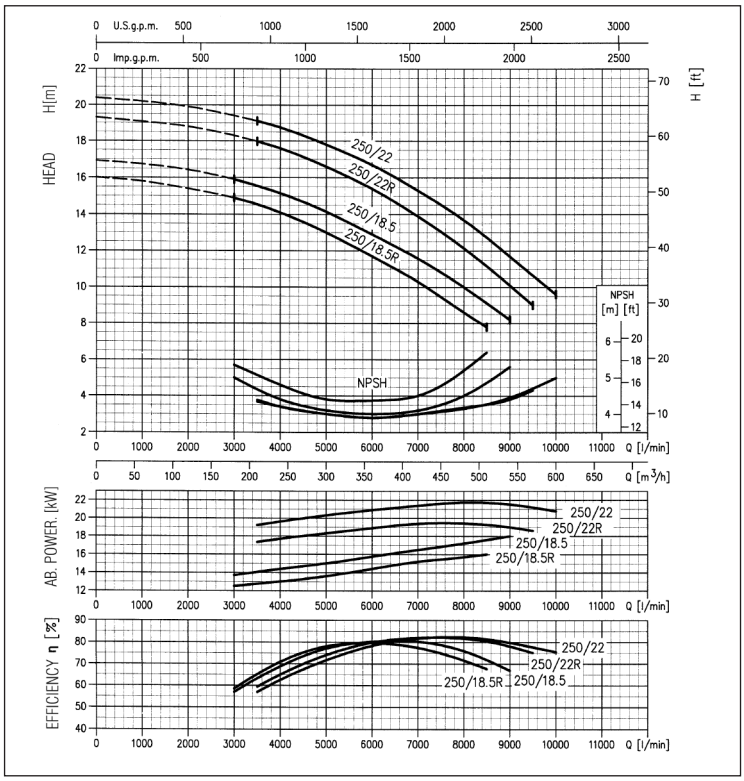
MMD4 150-200 range PERFORMANCE CURVES — 4 Poles

(according to ISO 9906 Attachment A)



MMD4 200-250 range PERFORMANCE CURVES — 4 Poles

(according to ISO 9906 Attachment A)



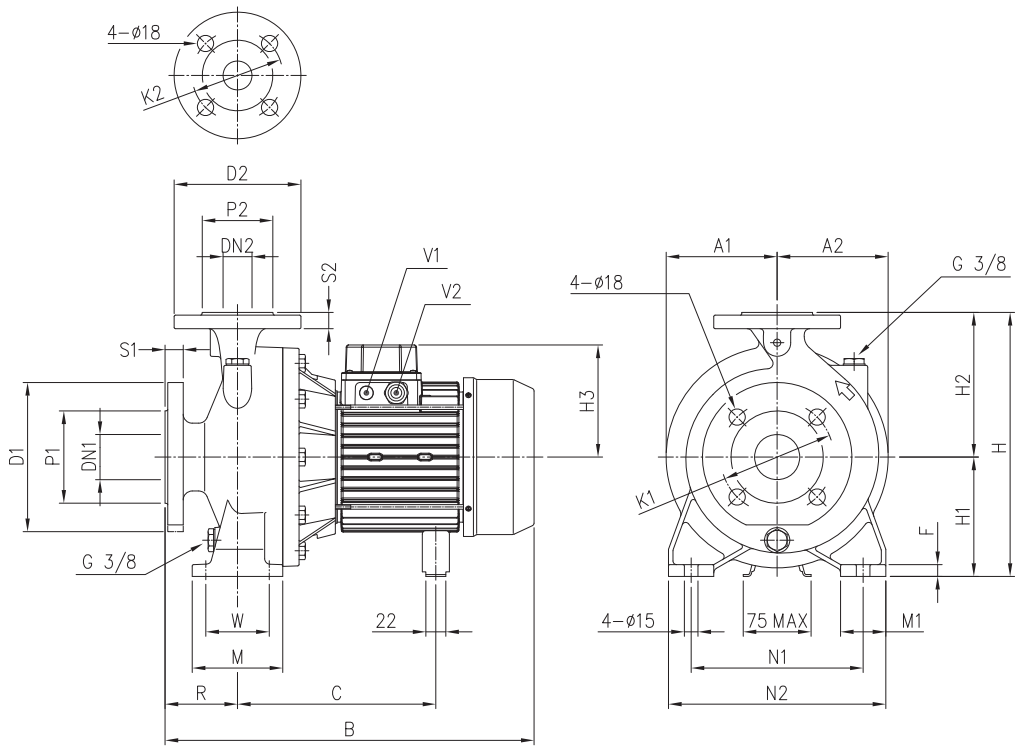
MD - MMD

MONOBLOC CENTRIFUGAL ELECTRIC PUMP IN COMPLIANCE WITH EN 733

in cast iron

MD DIMENSIONS

2 Poles



DIMENSIONS TABLE

Model	Dimensions [mm]																												Weight
	DN1 Ø	P1 Ø	K1 Ø	D1 Ø	S1	DN2 Ø	P2 Ø	K2 Ø	D2 Ø	S2	H	H1	H2	H3 [1]	H3 [2]	R	W	M	M1	N1	N2	A1	A2	B	C	F	V1 [1]	V2 [1]	V2 [2]	[kg]
MD 32-125/1.1 (M)	50	102	125	165	20	32	78	100	140	18	252	112	140	124	141	80	70	100	50	140	190	104	104	408	219÷230	13	-	PG 13,5	M20x1,5	27,6
MD 32-125/1.5 (M)	50	102	125	165	20	32	78	100	140	18	252	112	140	124	141	80	70	100	50	140	190	104	104	408	219÷230	13	-	PG 13,5	M20x1,5	28,3
MD 32-160/1.5 (M)	50	102	125	165	20	32	78	100	140	18	292	132	160	124	141	80	70	100	50	190	240	123	123	408	219÷230	13	-	PG 13,5	M20x1,5	31,5
MD 32-160/2.2 (M)	50	102	125	165	20	32	78	100	140	18	292	132	160	124	141	80	70	100	50	190	240	123	123	408	219÷230	13	-	PG 13,5	M20x1,5	35,4
MD 32-200/3.0	50	102	125	165	20	32	78	100	140	18	340	160	180	124	-	80	70	100	50	190	240	144	144	433	244÷255	13	-	PG 13,5	-	44,1
MD 32-200/4.0	50	102	125	165	20	32	78	100	140	18	340	160	180	141	-	80	70	100	50	190	240	144	144	454	253	13	-	PG 16	-	50,5
MD 32-250/5.5	50	102	125	165	20	32	78	100	140	18	405	180	225	150	-	100	95	125	65	250	320	176	176	495	275	15	PG 13,5	PG 16	-	70,5
MD 32-250/7.5	50	102	125	165	20	32	78	100	140	18	405	180	225	150	-	100	95	125	65	250	320	176	176	537	275	15	PG 13,5	PG 16	-	74,6
MD 32-250/9.2	50	102	125	165	20	32	78	100	140	18	405	180	225	178	-	100	95	125	65	250	320	176	176	589	354	15	PG 13,5	PG 21	-	84,3
MD 32-250/11	50	102	125	165	20	32	78	100	140	18	405	180	225	178	-	100	95	125	65	250	320	176	176	589	354	15	PG 13,5	PG 21	-	87,3
MD 40-125/1.5 (M)	65	122	145	185	20	40	88	110	150	18	252	112	140	124	141	80	70	100	50	160	210	104	111	408	219÷230	13	-	PG 13,5	M20x1,5	28,9
MD 40-125/2.2 (M)	65	122	145	185	20	40	88	110	150	18	252	112	140	124	141	80	70	100	50	160	210	104	111	408	219÷230	13	-	PG 13,5	M20x1,5	31,9
MD 40-160/3.0	65	122	145	185	20	40	88	110	150	18	292	132	160	124	-	80	70	100	50	190	240	123	123	433	244÷255	13	-	PG 13,5	-	39,0
MD 40-160/4.0	65	122	145	185	20	40	88	110	150	18	292	132	160	141	-	80	70	100	50	190	240	123	123	454	253	13	-	PG 16	-	45,7
MD 40-200/5.5	65	122	145	185	20	40	88	110	150	18	340	160	180	150	-	100	70	100	50	212	265	144	144	495	275	13	PG 13,5	PG 16	-	60,1
MD 40-200/7.5	65	122	145	185	20	40	88	110	150	18	340	160	180	150	-	100	70	100	50	212	265	144	144	537	275	13	PG 13,5	PG 16	-	68,5
MD 40-250/11	65	122	145	185	20	40	88	110	150	18	405	180	225	178	-	100	95	125	65	250	320	176	176	589	354	15	PG 13,5	PG 21	-	90,7
MD 40-250/13	65	122	145	185	20	40	88	110	150	18	405	180	225	178	-	100	95	125	65	250	320	176	176	589	354	15	PG 13,5	PG 21	-	93,0
MD 50-125/2.2 (M)	65	122	145	185	20	50	102	125	165	20	292	132	160	124	141	100	70	100	50	190	240	104	124	428	219÷230	13	-	PG 13,5	M20x1,5	34,0
MD 50-125/3.0	65	122	145	185	20	50	102	125	165	20	292	132	160	124	-	100	70	100	50	190	240	104	124	453	244÷255	13	-	PG 13,5	-	36,0
MD 50-125/4.0	65	122	145	185	20	50	102	125	165	20	292	132	160	141	-	100	70	100	50	190	240	104	124	474	253	13	-	PG 16	-	42,3
MD 50-160/5.5	65	122	145	185	20	50	102	125	165	20	340	160	180	150	-	100	70	100	50	212	265	123	136	495	275	13	PG 13,5	PG 16	-	57,2
MD 50-160/7.5	65	122	145	185	20	50	102	125	165	20	340	160	180	150	-	100	70	100	50	212	265	123	136	537	275	13	PG 13,5	PG 16	-	68,7
MD 50-200/9.2	65	122	145	185	20	50	102	125	165	20	360	160	200	178	-	100	70	100	50	212	265	144	154	589	354	13	PG 13,5	PG 21	-	74,0
MD 50-200/11	65	122	145	185	20	50	102	125	165	20	360	160	200	178	-	100	70	100	50	212	265	144	154	589	354	13	PG 13,5	PG 21	-	80,9
MD 65-125/5.5	80	138	160	200	22	65	122	145	185	20	340	160	180	150	-	100	95	125	65	212	280	123	139	495	275	13	PG 13,5	PG 16	-	58,3
MD 65-125/7.5	80	138	160	200	22	65	122	145	185	20	340	160	180	150	-	100	95	125	65	212	280	123	139	537	275	13	PG 13,5	PG 16	-	67,0
MD 65-160/11	80	138	160	200	22	65	122	145	185	20	360	160	200	178	-	100	95	125	65	212	280	144	154	589	354	13	PG 13,5	PG 21	-	86,4
MD 65-160/15	80	138	160	200	22	65	122	145	185	20	360	160	200	178	-	100	95	125	65	212	280	144	154	589	354	13	PG 13,5	PG 21	-	91,9

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

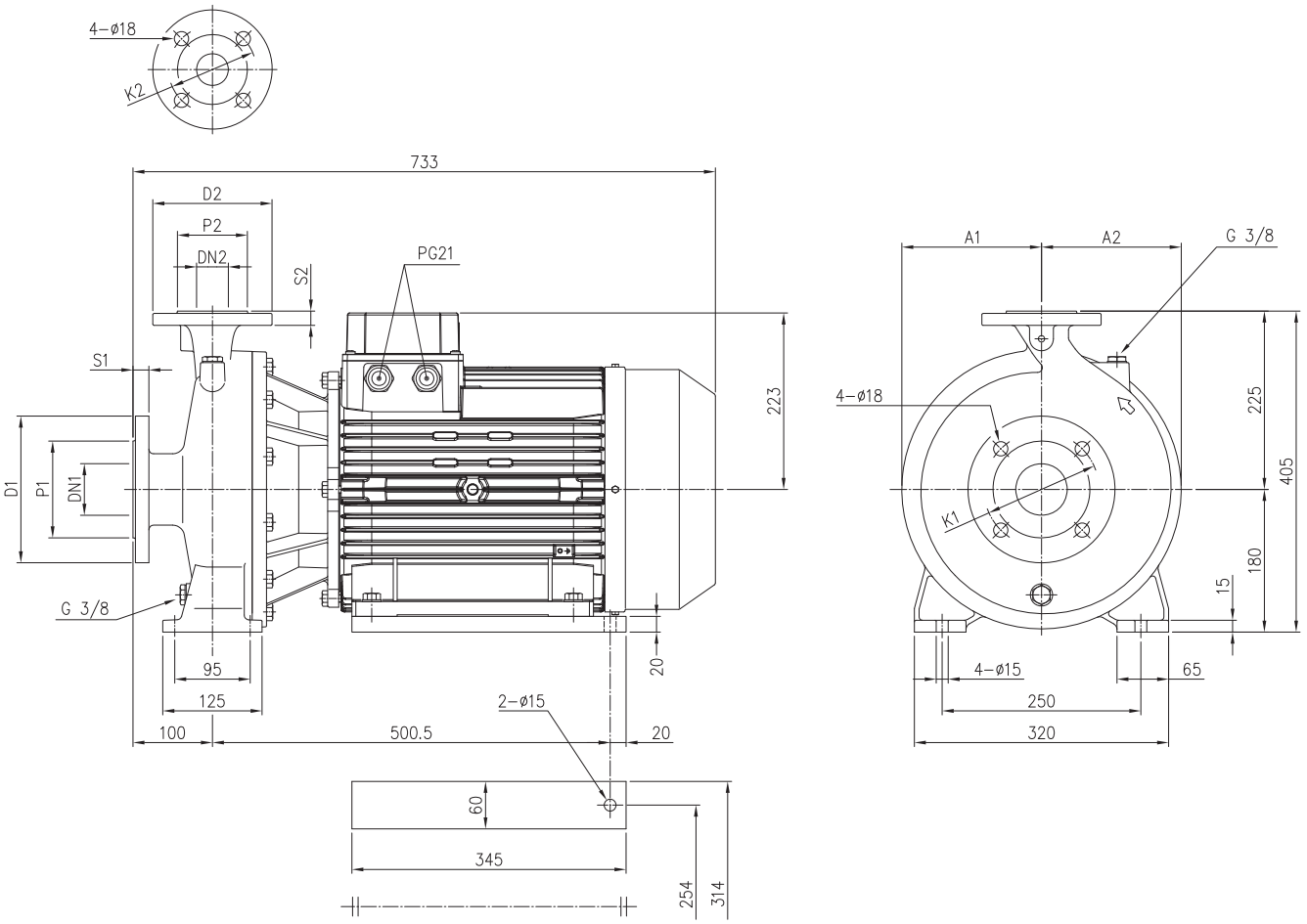
MD - MMD

MONOBLOC CENTRIFUGAL ELECTRIC PUMP IN COMPLIANCE WITH EN 733

in cast iron

MD DIMENSIONS

2 Poles



DIMENSIONS TABLE

Model	Dimensions [mm]												Weight [kg]
	DN1 Ø	P1 Ø	K1 Ø	D1 Ø	S1	DN2 Ø	P2 Ø	K2 Ø	D2 Ø	S2	A1	A2	
MD 40-250/15	65	122	145	185	20	40	88	110	150	18	176	176	96,8
MD 50-250/15	65	122	145	185	20	50	102	125	165	20	176	176	97,6
MD 50-250/18.5	65	122	145	185	20	50	102	125	165	20	176	176	126,0
MD 50-250/22	65	122	145	185	20	50	102	125	165	20	176	176	148,0
MD 65-200/18.5	80	138	160	200	22	65	122	145	185	20	144	168	126,0
MD 65-200/22	80	138	160	200	22	65	122	145	185	20	144	168	135,0

MD - MMD

MONOBLOC CENTRIFUGAL ELECTRIC PUMP IN COMPLIANCE WITH EN 733

in cast iron

MMD DIMENSIONS

2 Poles

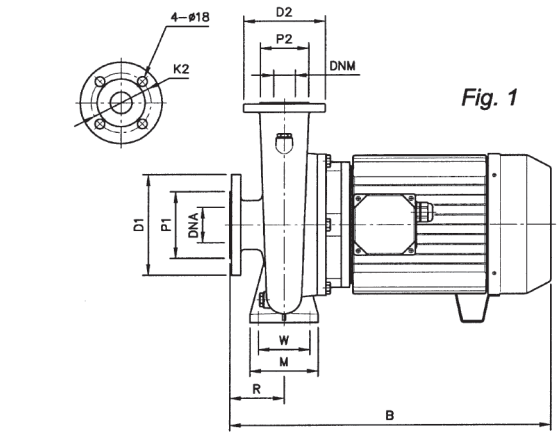


Fig. 1

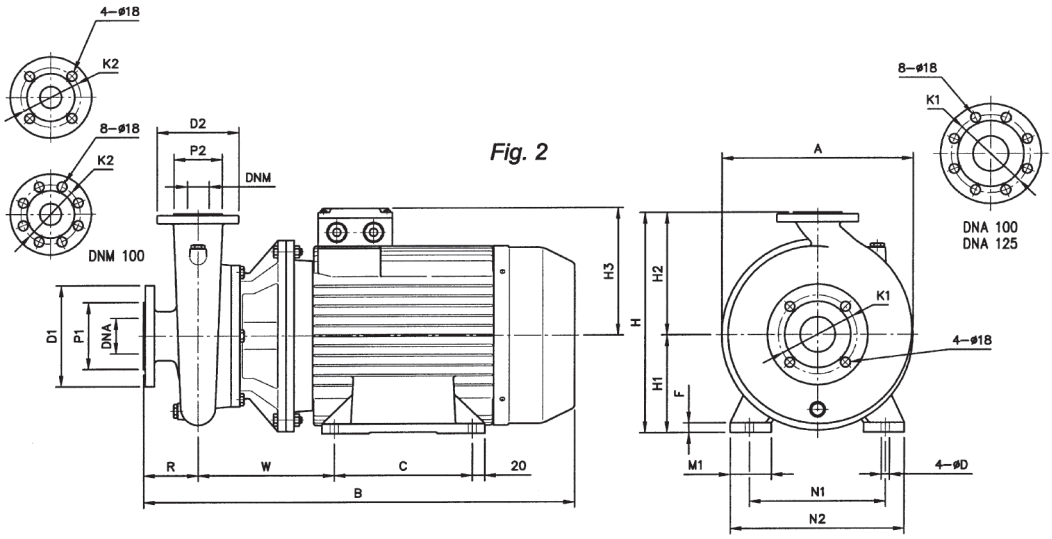


Fig. 2

DIMENSIONS TABLE

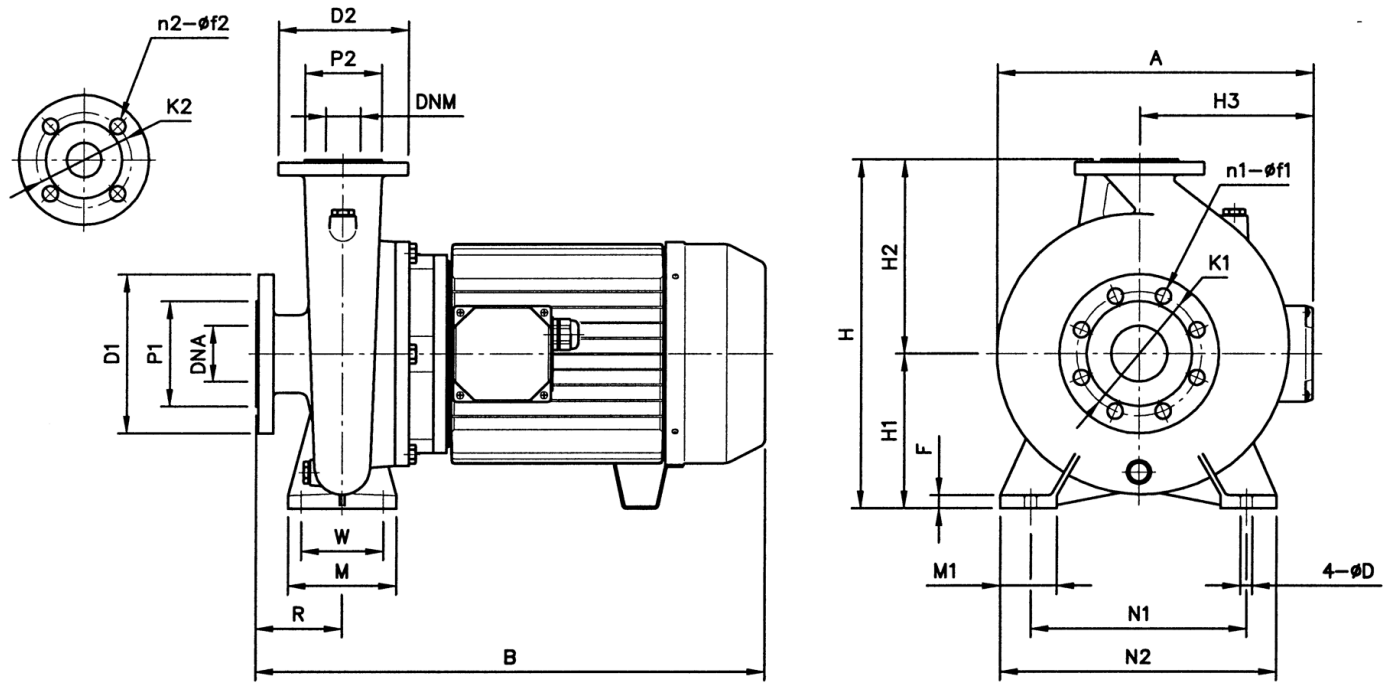
Model	Dimensions [mm]																								Weight
	Fig.	DNA	P1	K1	D1	DNM	P2	K2	D2	H	H1	H2	H3	R	W	N1	M	N2	M1	F	A	B	C	D	[kg]
MMD 65-250/22	2	80	138	160	200	65	122	145	185	450	180	250	230	100	293	280	-	320	55	22	365	810	241	14	144,0
MMD 65-250/30	2	80	138	160	200	65	122	145	185	450	200	250	257	100	325	318	-	360	60	24	400	905	305	18	172,0
MMD 65-250/37	2	80	138	160	200	65	122	145	185	450	200	250	257	100	325	318	-	360	60	24	400	905	305	18	190,0
MMD 80-160/10	1	100	158	180	220	80	138	160	200	405	180	225	184	125	95	250	125	320	65	14	345	665	-	14	74,0
MMD 80-160/12.5	1	100	158	180	220	80	138	160	200	405	180	225	184	125	95	250	125	320	65	14	345	665	-	14	81,5
MMD 80-160/15	1	100	158	180	220	80	138	160	200	405	180	225	184	125	95	250	125	320	65	14	345	665	-	14	88,5
MMD 80-200/18.5	2	100	158	180	220	80	138	160	200	430	180	250	230	125	293	280	-	320	55	22	360	835	241	14	132,0
MMD 80-200/22	2	100	158	180	220	80	138	160	200	430	180	250	230	125	293	280	-	320	55	22	360	835	241	14	150,0
MMD 80-200/30	2	100	158	180	220	80	138	160	200	430	200	250	257	125	325	318	-	360	60	24	400	930	305	18	192,0
MMD 80-200/37	2	100	158	180	220	80	138	160	200	430	200	250	257	125	325	318	-	360	60	24	400	930	305	18	210,0
MMD 80-250/37	2	100	158	180	220	80	138	160	200	480	200	280	257	125	325	318	-	360	60	24	400	930	305	18	196,0
MMD 100-200/22	2	125	188	210	250	100	158	180	220	480	180	280	230	125	293	318	-	320	55	22	385	835	241	14	160,0
MMD 100-200/30	2	125	188	210	250	100	158	180	220	480	200	280	257	125	325	318	-	360	60	24	400	930	305	18	202,0
MMD 100-200/37	2	125	188	210	250	100	158	180	220	480	200	280	257	125	325	318	-	360	60	24	400	930	305	18	220,0

MONOBLOC CENTRIFUGAL ELECTRIC PUMP IN COMPLIANCE WITH EN 733

in cast iron

MMD4 DIMENSIONS up to 65

4 Poles



DIMENSIONS TABLE

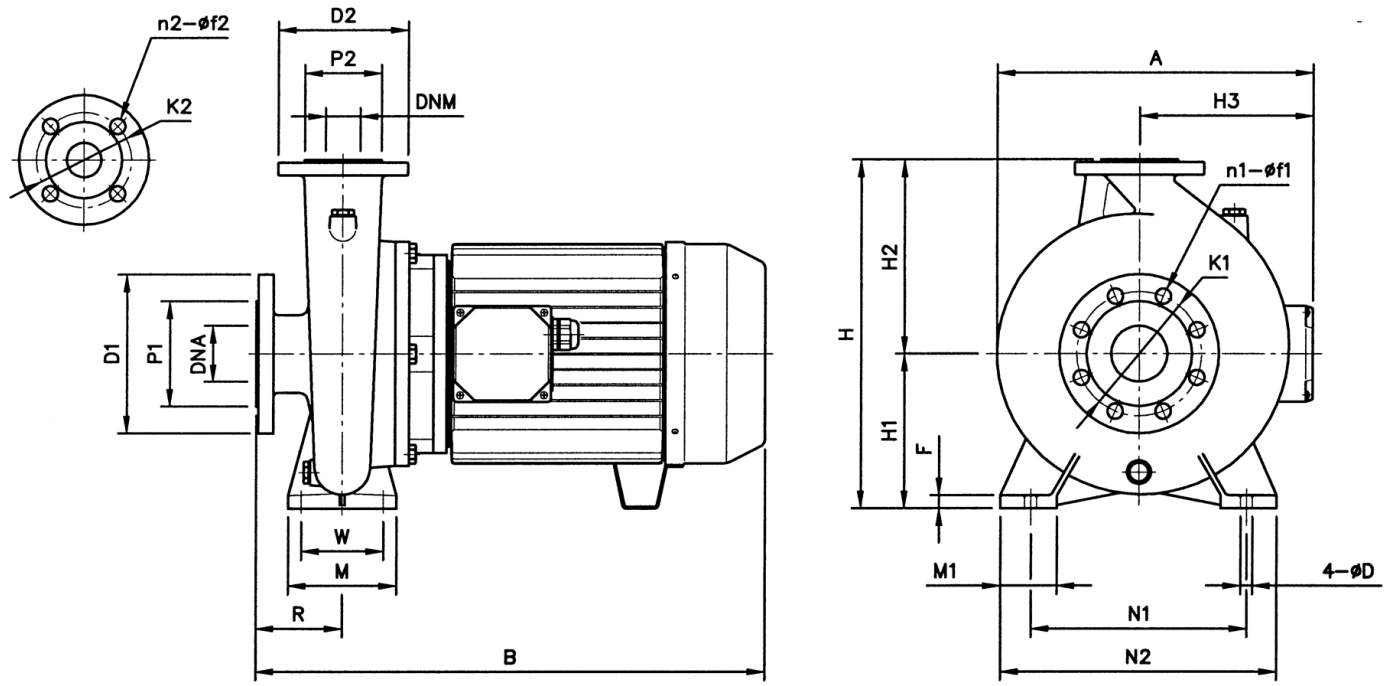
Model	Dimensions [mm]																										Weight
	DNA	n1	f1	P1	K1	D1	DNM	n2	f2	P2	K2	D2	H	H1	H2	H3	R	W	N1	M	N2	M1	F	A	B	D	[kg]
MMD4 32-125/0.25R	50	4	18	102	125	165	32	4	18	78	100	140	252	112	140	107	80	70	140	100	190	50	12	205	405	14	19,5
MMD4 32-125/0.25	50	4	18	102	125	165	32	4	18	78	100	140	252	112	140	107	80	70	140	100	190	50	12	205	405	14	19,5
MMD4 32-160/0.37	50	4	18	102	125	165	32	4	18	78	100	140	292	132	160	107	80	70	190	100	240	50	12	240	405	14	23,0
MMD4 32-200/0.75	50	4	18	102	125	165	32	4	18	78	100	140	340	160	180	118	80	70	190	100	240	50	12	255	425	14	30,0
MMD4 32-200/0.92	50	4	18	102	125	165	32	4	18	78	100	140	340	160	180	118	80	70	190	100	240	50	12	255	425	14	31,0
MMD4 32-250/1.1	50	4	18	102	125	165	32	4	18	78	100	140	405	180	225	149	100	95	250	125	320	65	12	320	485	14	47,0
MMD4 32-250/1.5	50	4	18	102	125	165	32	4	18	78	100	140	405	180	225	149	100	95	250	125	320	65	12	320	485	14	49,0
MMD4 40-125/0.25	65	4	18	122	145	185	40	4	18	88	110	150	252	112	140	107	80	70	160	100	210	50	12	230	405	14	20,5
MMD4 40-125/0.37	65	4	18	122	145	185	40	4	18	88	110	150	252	112	140	107	80	70	160	100	210	50	12	230	405	14	21,5
MMD4 40-160/0.55	65	4	18	122	145	185	40	4	18	88	110	150	292	132	160	107	80	70	190	100	240	50	12	230	405	14	25,0
MMD4 40-200/1.1	65	4	18	122	145	185	40	4	18	88	110	150	340	160	180	149	100	70	212	100	265	50	12	285	485	14	36,0
MMD4 40-200/1.5	65	4	18	122	145	185	40	4	18	88	110	150	340	160	180	149	100	70	212	100	265	50	12	242	485	14	36,0
MMD4 40-250/1.5	65	4	18	122	145	185	40	4	18	88	110	150	405	180	225	149	100	95	250	125	320	65	12	325	485	14	47,5
MMD4 40-250/2.2	65	4	18	122	145	185	40	4	18	88	110	150	405	180	225	159	100	95	250	125	320	65	12	325	525	14	54,0
MMD4 50-125/0.37	65	4	18	122	145	185	50	4	18	102	125	165	292	132	160	107	100	70	190	100	240	50	12	246	425	14	25,0
MMD4 50-125/0.55	65	4	18	122	145	185	50	4	18	102	125	165	292	132	160	107	100	70	190	100	240	50	12	246	425	14	26,0
MMD4 50-160/0.75	65	4	18	122	145	185	50	4	18	102	125	165	340	160	180	118	100	70	212	100	265	50	12	269	445	14	32,0
MMD4 50-160/0.92	65	4	18	122	145	185	50	4	18	102	125	165	340	160	180	118	100	70	212	100	265	50	12	269	445	14	33,0
MMD4 50-200/1.1	65	4	18	122	145	185	50	4	18	102	125	165	360	160	180	159	100	70	212	100	265	50	12	285	485	14	38,0
MMD4 50-200/1.5	65	4	18	122	145	185	50	4	18	102	125	165	360	160	180	149	100	70	212	100	265	50	12	285	485	14	40,0
MMD4 50-250/2.2	65	4	18	122	145	185	50	4	18	102	125	165	405	180	225	159	100	95	250	125	320	65	14	333	525	14	57,0
MMD4 50-250/3.0	65	4	18	122	145	185	50	4	18	102	125	165	405	180	225	159	100	95	250	125	320	65	14	333	525	14	63,0
MMD4 65-125/0.75	80	4	18	138	160	200	65	4	18	122	145	185	340	160	180	118	100	95	212	125	280	65	12	286	445	14	32,0
MMD4 65-160/1.1	80	4	18	138	160	200	65	4	18	122	145	185	360	160	200	149	100	95	212	125	280	65	12	288	485	14	37,5
MMD4 65-160/1.5	80	4	18	138	160	200	65	4	18	122	145	185	360	160	200	149	100	95	212	125	280	65	12	288	485	14	40,0
MMD4 65-200/2.2	80	4	18	138	160	200	65	4	18	122	145	185	405	180	225	159	100	95	250	125	320	65	14	328	525	14	51,0
MMD4 65-200/3.0	80	4	18	138	160	200	65	4	18	122	145	185	405	180	225	159	100	95	250	125	320	65	14	328	525	14	57,0
MMD4 65-250/4.0	80	4	18	138	160	200	65	4	18	122	145	185	450	200	250	159	100	120	280	160	360	80	14	365	535	14	80,0
MMD4 65-250/5.5	80	4	18	138	160	200	65	4	18	122	145	185	450	200	250	184	100	120	280	160	360	80	14	365	640	14	90,0

MONOBLOC CENTRIFUGAL ELECTRIC PUMP IN COMPLIANCE WITH EN 733

in cast iron

MMD4 DIMENSIONS for the rest of the range

4 Poles



DIMENSIONS TABLE

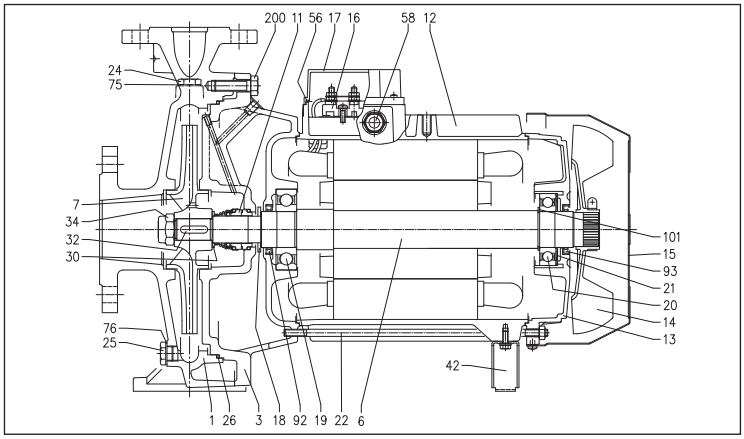
Model	Dimensions [mm]																											Weight
	DNA	n1	f1	P1	K1	D1	DNM	n2	f2	P2	K2	D1	H	H1	H2	H3	R	W	N1	M	N2	M1	F	A	B	D	[kg]
MMD4 80-160/1.5	100	8	18	158	180	220	80	4	18	138	160	200	405	180	225	149	125	95	250	125	320	65	14	330	510	14	45,0
MMD4 80-160/2.2	100	8	18	158	180	220	80	4	18	138	160	200	405	180	225	159	125	95	250	125	320	65	14	330	550	14	51,0
MMD4 80-200/3.0	100	8	18	158	180	220	80	4	18	138	160	200	430	180	250	159	125	95	280	125	345	65	12	355	550	14	66,0
MMD4 80-250/4.0	100	8	18	158	180	220	80	4	18	138	160	200	430	180	250	159	125	95	280	125	345	65	12	355	560	14	73,0
MMD4 80-250/5.5	100	8	18	158	180	220	80	4	18	138	160	200	480	200	280	184	125	120	315	160	400	80	14	400	665	18	96,0
MMD4 80-250/7.5	100	8	18	158	180	220	80	4	18	138	160	200	480	200	280	184	125	120	315	160	400	80	14	400	665	18	106,0
MMD4 100-200/4.0	125	8	18	188	210	250	100	8	18	158	180	220	480	200	280	159	125	120	280	160	360	80	14	385	560	18	78,0
MMD4 100-200/5.5	125	8	18	188	210	250	100	8	18	158	180	220	480	200	280	184	125	120	280	160	360	80	14	385	665	18	90,0
MMD4 100-250/7.5	125	8	18	188	210	250	100	8	18	158	180	220	505	225	280	184	140	120	315	160	400	80	14	420	675	18	112,0
MMD4 100-250/9.2	125	8	18	188	210	250	100	8	18	158	180	220	505	225	280	184	140	120	315	160	400	80	14	420	675	18	118,0
MMD4 125-200/5.5	150	8	22	212	240	285	125	8	18	188	210	250	565	250	315	255	140	120	315	160	400	80	14	470	700	18	124,0
MMD4 125-200/7.5R	150	8	22	212	240	285	125	8	18	188	210	250	565	250	315	255	140	120	315	160	400	80	14	470	700	18	134,0
MMD4 125-200/7.5	150	8	22	212	240	285	125	8	18	188	210	250	565	250	315	255	140	120	315	160	400	80	14	470	700	18	134,0
MMD4 125-200/9.2	150	8	22	212	240	285	125	8	18	188	210	250	565	250	315	255	140	120	315	160	400	80	14	470	770	18	140,0
MMD4 125-250/11	150	8	22	212	240	285	125	8	18	188	210	250	605	250	355	255	140	120	315	160	400	80	16	470	700	18	162,0
MMD4 125-250/15	150	8	22	212	240	285	125	8	18	188	210	250	605	250	355	255	140	120	315	160	400	80	16	470	855	18	190,0
MMD4 150-200/7.5	200	8	22	268	295	340	150	8	22	212	240	285	680	280	400	295	160	155	450	200	550	100	22	550	855	24	167,0
MMD4 150-200/9.2	200	8	22	268	295	340	150	8	22	212	240	285	680	280	400	295	160	155	450	200	550	100	22	550	855	24	173,0
MMD4 150-200/11	200	8	22	268	295	340	150	8	22	212	240	285	680	280	400	295	160	155	450	200	550	100	22	550	855	24	175,0
MMD4 150-200/15	200	8	22	268	295	340	150	8	22	212	240	285	680	280	400	295	160	155	450	200	550	100	22	550	875	24	203,0
MMD4 200-250/18.5R	250	12	22	320	295	395	200	8	22	268	295	340	765	315	450	295	200	155	450	200	550	100	22	630	1000	24	278,0
MMD4 200-250/18.5	250	12	22	320	295	395	200	8	22	268	295	340	765	315	450	295	200	155	450	200	550	100	22	630	1000	24	278,0
MMD4 200-250/22R	250	12	22	320	295	395	200	8	22	268	295	340	765	315	450	295	200	155	450	200	550	100	22	630	1000	24	300,0
MMD4 200-250/22	250	12	22	320	295	395	200	8	22	268	295	340	765	315	450	295	200	155	450	200	550	100	22	630	1000	24	300,0

MD - MMD

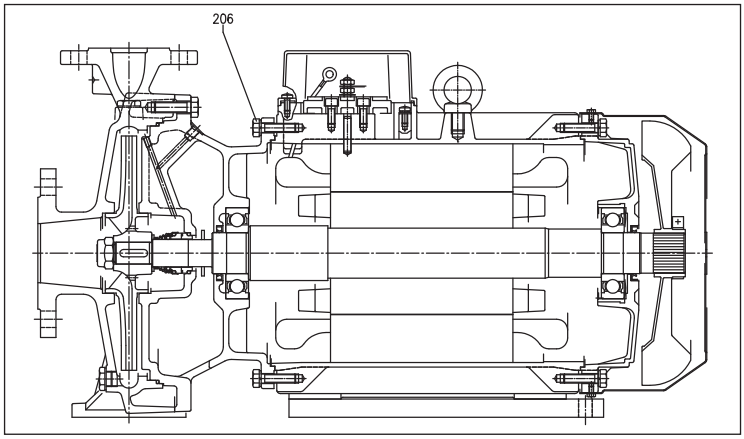
MONOBLOC CENTRIFUGAL ELECTRIC PUMP IN COMPLIANCE WITH EN 733

in cast iron

MD SECTIONAL VIEW up to13 kW



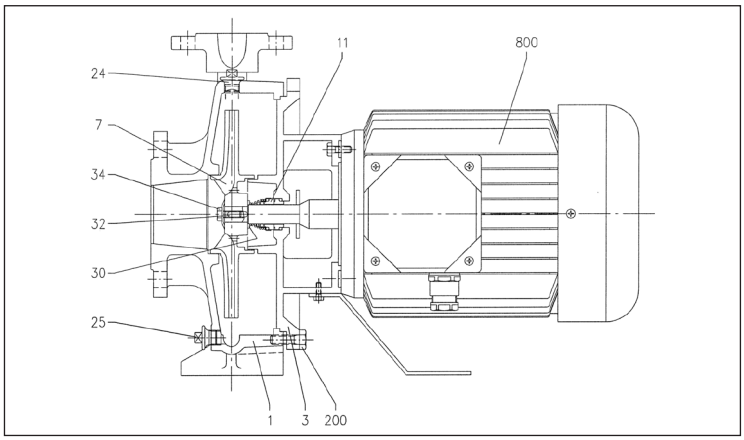
MD SECTIONAL VIEW from 15 kW and over (excluding 65-160/15)



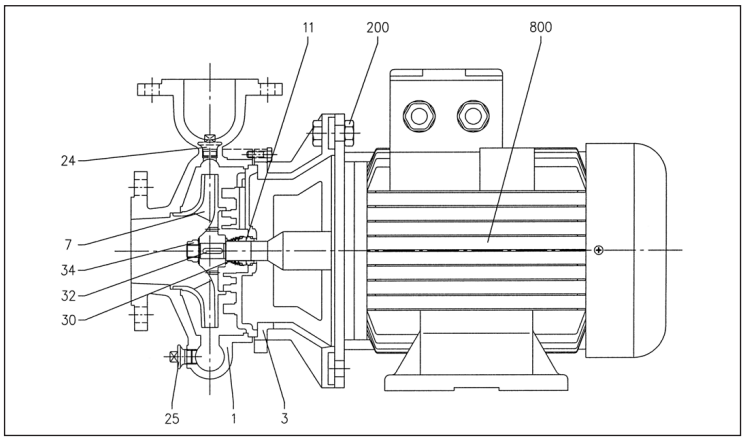
MATERIALS TABLE

Ref.	Name	Material	Ref.	Name	Material
001	Pump body	Cast iron EN-GJL-200-EN 1561	024	Filler cap	Brass
003	Motor support	Cast iron EN-GJL-200-EN 1561	025	Drain plug	Brass
006	Shaft	AISI 304 (part in contact with the liquid)	026	O-Ring	NBR
007	Impeller	Cast iron EN-GJL-200-EN 1561 - Bronze	030	Spacer	AISI 304
011	Mechanical seal	Carbon/Ceramic/NBR	032	Key	AISI 316
012	Motor case	-	034	Impeller nut	AISI 304
013	Motor cover	Aluminium	042	Foot	Fe P04
014	Fan	Polypropylene	056	Terminal box cover gasket	NBR
015	Fan cover	Galvanised steel Fe P04	058	Cable gland	-
016	Terminal box	-	075	Washer	Aluminium
017	Terminal box cover	Plastic / Aluminium	076	Washer	Aluminium
018	Spray protector washer	NBR	092	Sealing ring	-
019	Bearing (pump side)	-	093	Sealing ring	-
020	Bearing (motor side)	-	101	Seeger ring	Carbon steel TC 80
021	Adjusting ring	Stainless steel C70	200	Screw (pump body)	Galvanised Steel
022	Tie-rod	Fe 42	206	Screw (motor support)	Galvanised Steel
023	Screw	Galvanised Steel			

MMD-MMD4 SECTIONAL VIEW up to MEC 132



MMD-MMD4 SECTIONAL VIEW from MEC 160 and over



MATERIALS TABLE

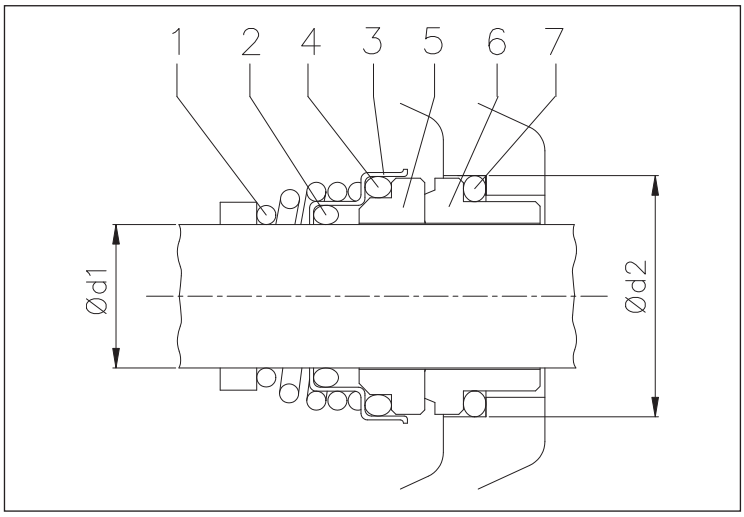
Ref.	Name	Material	Ref.	Name	Material
001	Pump body	Cast iron EN-GJL-200-EN 1561	030	Spacer	Stainless steel
003	Motor support	Cast iron EN-GJL-200-EN 1561	032	Key	Stainless steel
007	Impeller	Cast iron EN-GJL-200-EN 1561	034	Impeller nut	Stainless steel
011	Mechanical seal	SiC/SiC/EPDM	200	Screw (pump body)	Stainless steel
024	Filler cap	Stainless steel	800	Motor	-
025	Drain plug	Stainless steel			

MD - MMD

MONOBLOC CENTRIFUGAL ELECTRIC PUMP IN COMPLIANCE WITH EN 733

in cast iron

MD MECHANICAL SEAL standard



MATERIALS TABLE

Ref.	Name	Material
1	Spring	AISI 316
2	O-Ring	NBR
3	Structure/frame	AISI 304
4	O-Ring	NBR
5	Rotating part	Ceramic
6	Fixed part	Carbon
7	O-Ring	NBR

SPECIAL MECHANICAL SEALS (on request)

Name	Material		
	H version	HS version	HW version
Fixed Part	Carbon	SiC	Tungsten Carbide
Rotating Part	Ceramic	SiC	Tungsten Carbide
Elastomers	FPM	FPM	FPM
Spring	AISI 316	AISI 316	AISI 316
Structure/Frame	AISI 304	AISI 316	AISI 304

MD - MMD

MONOBLOC CENTRIFUGAL ELECTRIC PUMP IN COMPLIANCE WITH EN 733

in cast iron

MD ELECTRIC DATA TABLE

2 Poles

Model	P_2		Single phase Capacitor		P_1		Absorbed Current [A]			
	[HP]	[kW]	µF	V_c	Single phase [kW]	Three phase [kW]	Single phase 230V	Three phase 230V	Three phase 400V	Three phase 690V
MD 32-125/1.1 (M)	1,5	1,1	31,5	450	1,60	1,55	7,1	5,2	3	-
MD 32-125/1.5 (M)	2	1,5	40	450	2,05	2,2	9,3	5,9	3,4	-
MD 32-160/1.5 (M)	2	1,5	40	450	2,28	2,2	10,3	5,9	3,4	-
MD 32-160/2.2 (M)	3	2,2	50	450	2,91	2,9	13,3	8,7	5	-
MD 32-200/3.0	4	3	-	-	-	4	-	12	6,9	-
MD 32-200/4.0	5,5	4	-	-	-	5,2	-	16	9,2	-
MD 32-250/5.5	7,5	5,5	-	-	-	6,3	-	-	11,2	6,5
MD 32-250/7.5	10	7,5	-	-	-	8,3	-	-	14,6	8,4
MD 32-250/9.2	12,5	9,2	-	-	-	11	-	-	18,3	10,6
MD 32-250/11	15	11	-	-	-	12	-	-	20,7	12
MD 40-125/1.5 (M)	2	1,5	40	450	2,08	2,3	9,5	6	3,5	-
MD 40-125/2.2 (M)	3	2,2	50	450	2,77	2,9	12,9	8,7	5	-
MD 40-160/3.0	4	3	-	-	-	3,8	-	11,4	6,6	-
MD 40-160/4.0	5,5	4	-	-	-	5,3	-	17	9,8	-
MD 40-200/5.5	7,5	5,5	-	-	-	6,6	-	-	11,5	6,6
MD 40-200/7.5	10	7,5	-	-	-	9,1	-	-	15,5	9
MD 40-250/11	15	11	-	-	-	12,3	-	-	20,6	11,9
MD 40-250/13	17,5	13	-	-	-	15,2	-	-	25,3	14,6
MD 40-250/15	20	15	-	-	-	17,2	-	-	29,1	16,8
MD 50-125/2.2 (M)	3	2,2	50	450	2,80	2,9	12,9	8,7	5	-
MD 50-125/3.0	4	3	-	-	-	3,6	-	10,7	6,2	-
MD 50-125/4.0	5,5	4	-	-	-	4,9	-	15,4	8,9	-
MD 50-160/5.5	7,5	5,5	-	-	-	6,7	-	-	11,8	6,8
MD 50-160/7.5	10	7,5	-	-	-	8,8	-	-	15	8,7
MD 50-200/9.2	12,5	9,2	-	-	-	11,2	-	-	19	11
MD 50-200/11	15	11	-	-	-	13,5	-	-	22	12,7
MD 50-250/15	20	15	-	-	-	17,5	-	-	29,7	17,2
MD 50-250/18,5	25	18,5	-	-	-	21	-	-	37,7	21,8
MD 50-250/22	30	22	-	-	-	24	-	-	41	23,7
MD 65-125/5.5	7,5	5,5	-	-	-	7	-	-	12	6,9
MD 65-125/7.5	10	7,5	-	-	-	8,2	-	-	14	8,1
MD 65-160/11	15	11	-	-	-	13	-	-	20,8	12
MD 65-160/15	20	15	-	-	-	16	-	-	27	15,6
MD 65-200/18.5	25	18,5	-	-	-	21	-	-	39	22,5
MD 65-200/22	30	22	-	-	-	24	-	-	43	24,8

MMD ELECTRIC DATA TABLE

2 Poles

Model	P_2		Absorbed Current [A] Three phase	
	[HP]	[kW]	400V	690V
MMD 65-250/22	30	22	44,5	25,7
MMD 65-250/30	40	30	58	33,5
MMD 65-250/37	55	37	71	41,0
MMD 80-160/10	13,6	10	22,5	13,0
MMD 80-160/12.5	17	12,5	27	15,6
MMD 80-160/15	20	15	32	18,5
MMD 80-200/18.5	25	18,5	38	21,9
MMD 80-200/22	30	22	44,5	25,7
MMD 80-200/30	40	30	58	33,5
MMD 80-200/37	55	37	71	41,0
MMD 80-250/37	55	37	71	41,0
MMD 100-200/22	30	22	44,5	25,7
MMD 100-200/30	40	30	58	33,5
MMD 100-200/37	55	37	71	41,0

MONOBLOC CENTRIFUGAL ELECTRIC PUMP IN COMPLIANCE WITH EN 733

in cast iron

MMD4 ELECTRIC DATA TABLE

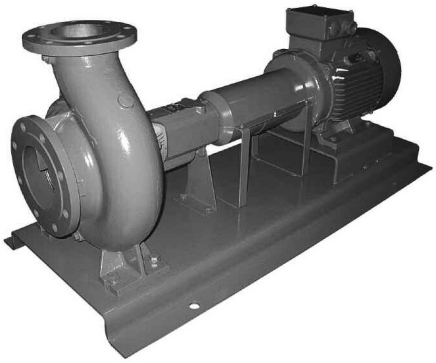
4 Poles

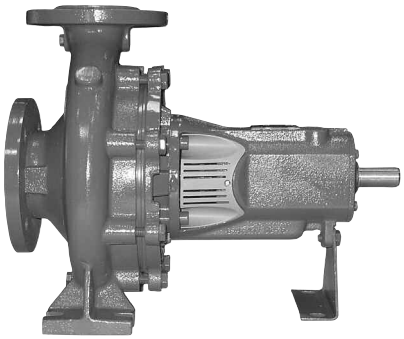
Model	P_2		Absorbed Current [A] Three phase		
	[HP]	[kW]	230V	400V	690V
MMD4 32-125/0.25 R	0,33	0,25	1,6	0,9	-
MMD4 32-125/0.25	0,33	0,25	1,6	0,9	-
MMD4 32-160/0.37	0,55	0,37	2,3	1,3	-
MMD4 32-200/0.75	1	0,75	3,9	2,25	-
MMD4 32-200/0.92	1,25	0,92	4,7	2,7	-
MMD4 32-250/1.1	1,5	1,1	4,85	2,8	-
MMD4 32-250/1.5	2	1,5	6,6	3,8	-
MMD4 40-125/0.25	0,33	0,25	1,6	0,9	-
MMD4 40-125/0.37	0,55	0,37	2,3	1,3	-
MMD4 40-160/0.55	0,75	0,55	2,8	1,6	-
MMD4 40-200/1.1	1,5	1,1	4,85	2,8	-
MMD4 40-200/1.5	2	1,5	6,6	3,8	-
MMD4 40-250/1.5	2	1,5	6,6	3,8	-
MMD4 40-250/2.2	3	2,2	10	5,8	-
MMD4 50-125/0.37	0,55	0,37	2,3	1,3	-
MMD4 50-125/0.55	0,75	0,55	2,8	1,6	-
MMD4 50-160/0.75	1	0,75	3,9	2,25	-
MMD4 50-160/0.92	1,25	0,92	4,7	2,7	-
MMD4 50-200/1.1	1,5	1,1	4,85	2,8	-
MMD4 50-200/1.5	2	1,5	6,6	3,8	-
MMD4 50-200/2.2	3	2,2	10	5,8	-
MMD4 50-250/3	4	3	13,5	7,8	-
MMD4 65-125/0.75	1	0,75	3,9	2,25	-
MMD4 65-160/1.1	1,5	1,1	4,85	2,8	-
MMD4 65-160/1.5	2	1,5	6,6	3,8	-
MMD4 65-200/2.2	3	2,2	10	5,8	-
MMD4 65-200/3.0	4	3	13,5	7,8	-
MMD4 65-250/4	5,5	4	16,1	9,3	-
MMD4 65-250/5.5	7,5	5,5	-	12	6,9
MMD4 80-160/1.5	2	1,5	6,6	3,8	-
MMD4 80-160/2.2	3	2,2	10	5,8	-
MMD4 80-200/3	4	3	13,5	7,8	-
MMD4 80-250/4	5,5	4	16,1	9,3	-
MMD4 80-250/5.5	7,5	5,5	-	12	6,9
MMD4 80-250/7.5	10	7,5	-	15,6	9,0
MMD4 100-200/4	5,5	4	16,1	9,3	-
MMD4 100-200/5.5	7,5	5,5	-	12	6,9
MMD4 100-250/7.5	10	7,5	-	15,6	9,0
MMD4 100-250/9.2	12,5	9,2	-	19,7	11,4
MMD4 100-200/5.5	7,5	5,5	-	12	6,9
MMD4 125-200/7.5 R	10	7,5	-	15,6	9,0
MMD4 125-200/7.5	10	7,5	-	15,6	9,0
MMD4 125-200/9.2	12,5	9,2	-	19,7	11,4
MMD4 125-250/11	15	11	-	25	14,4
MMD4 125-250/15	20	15	-	30,4	17,6
MMD4 150-200/7.5	10	7,5	-	15,6	9,0
MMD4 150-200/9.2	12,5	9,2	-	19,7	11,4
MMD4 150-200/11	15	11	-	25	14,4
MMD4 150-200/15	20	15	-	30,4	17,6
MMD4 150-200/18.5 R	25	18,5	-	37,1	21,4
MMD4 200-250/18.5	25	18,5	-	37,1	21,4
MMD4 200-250/22 R	30	22	-	42,6	24,6
MMD4 200-250/22	30	22	-	42,6	24,6

ENR

MONOBLOC CENTRIFUGAL ELECTRIC PUMP IN COMPLIANCE WITH EN 733

in cast iron





Standardised centrifugal pumps deriving from EN 733 (former DIN 24255).

APPLICATIONS

- Water supply to civil, agricultural and industrial plants
- Pressure boosting
- Fire-fighting, heating systems and air-conditioning
- Moving industrial liquids
- Refining plants, aqueducts and irrigation

TECHNICAL DETAILS

- Strong construction
- Possibility of use in fire-fighting units
- They can be inserted into machinery units for industrial use

TECHNICAL DATA

- Maximum flow rate: 2 000 m^3/h
- Maximum pressure: 147 m
- Max. working pressure: 16 bar
- Temperature of the liquid: -20°C ÷ 120°C

MATERIALS

- Impeller in cast iron (or bronze)
- Cast iron pump body
- Shaft in AISI 420 stainless steel
- Mechanical sealing in SiC/Carbon/EPDM

IDENTIFICATION CODE

ENR | 4 | 40 | 160 / 11

- 11 — Power (kW)
- 160 — Impeller nominal diameter (mm)
- 40 — Discharge nozzle diameter (mm)
- 4 — 4 Poles
- ENR — Model

ENR

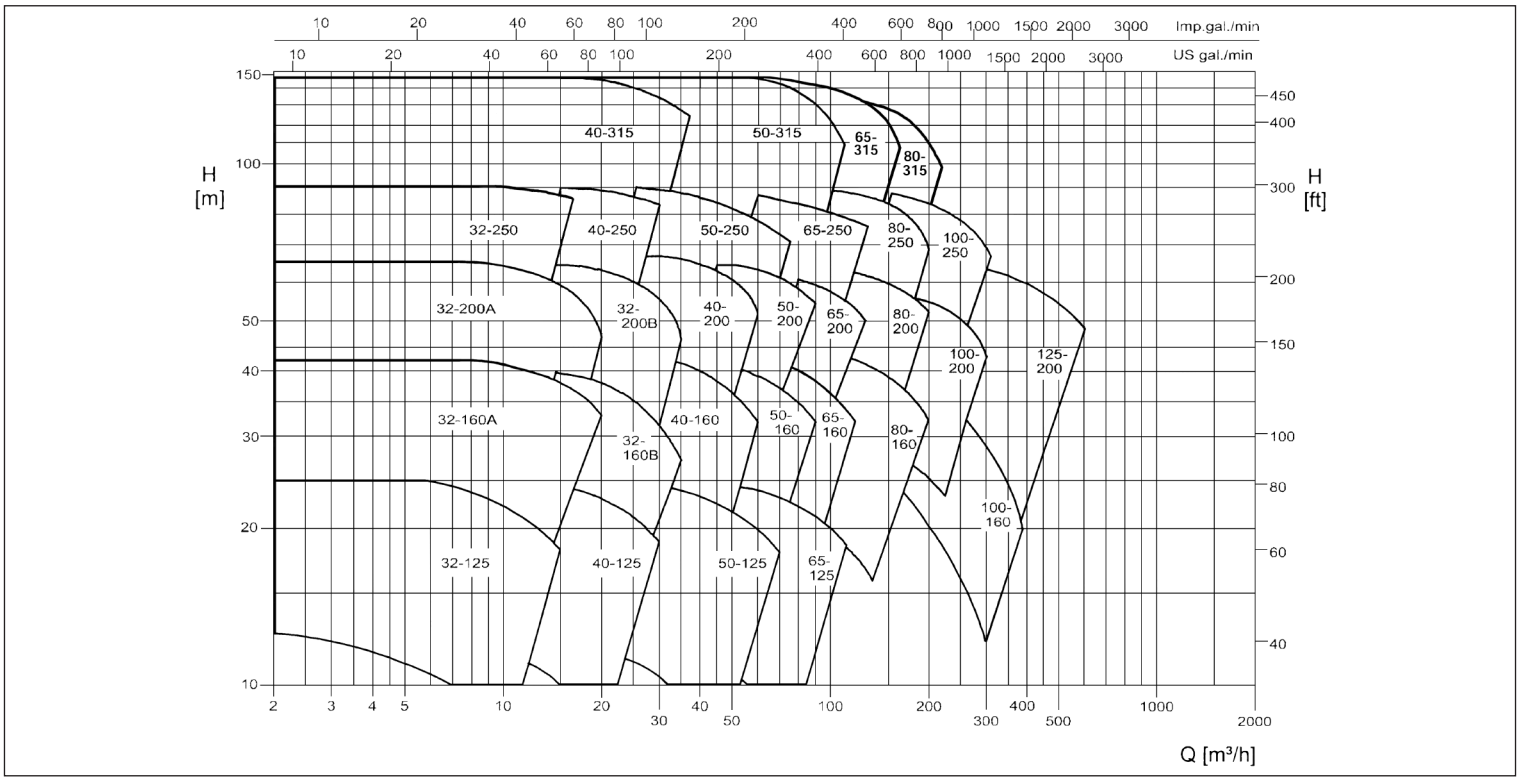
MONOBLOC CENTRIFUGAL ELECTRIC PUMP IN COMPLIANCE WITH EN 733

in cast iron

ENR range PERFORMANCE CURVES

2 Poles

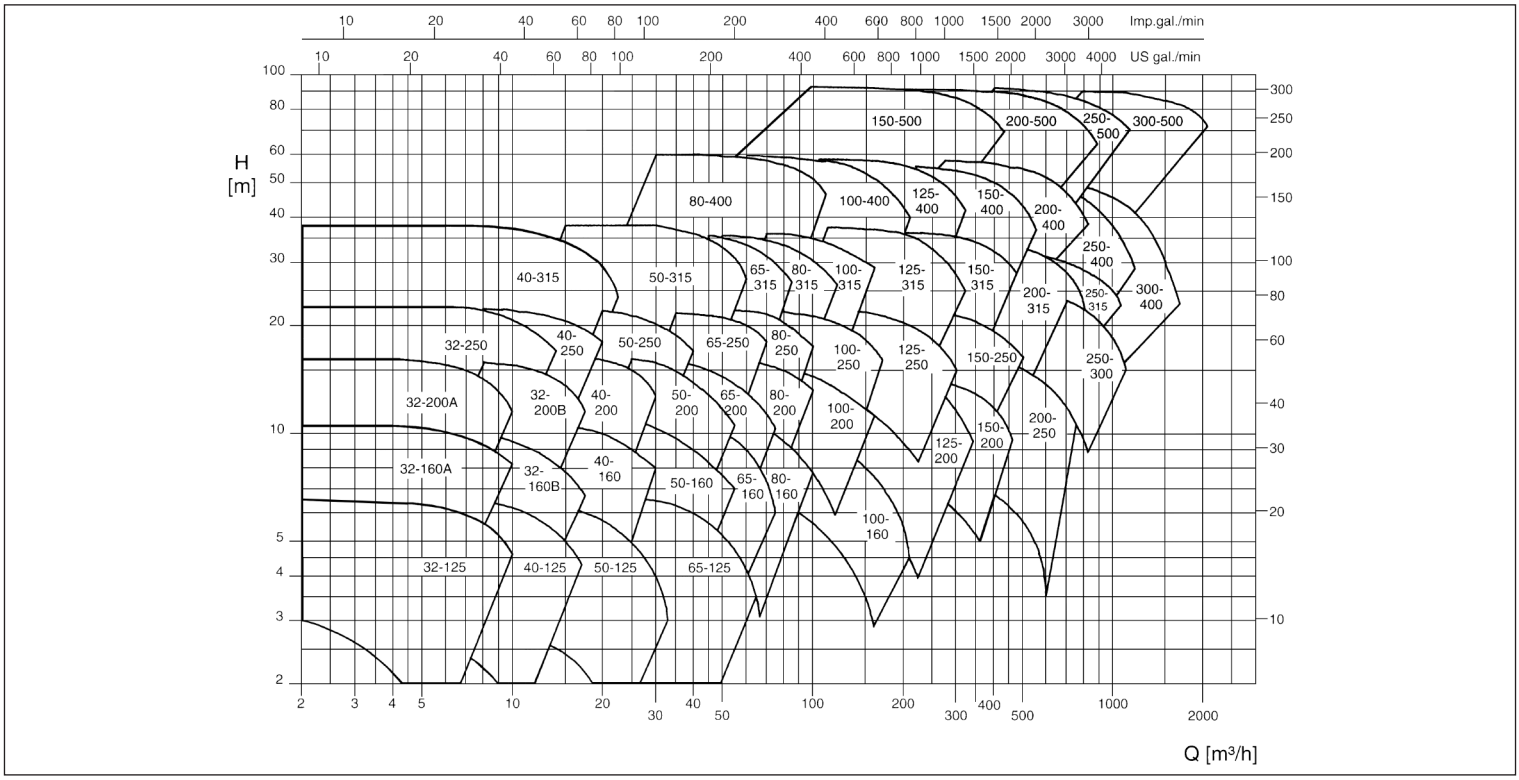
(according to ISO 9906 Attachment A)



ENR range PERFORMANCE CURVES

4 Poles

(according to ISO 9906 Attachment A)



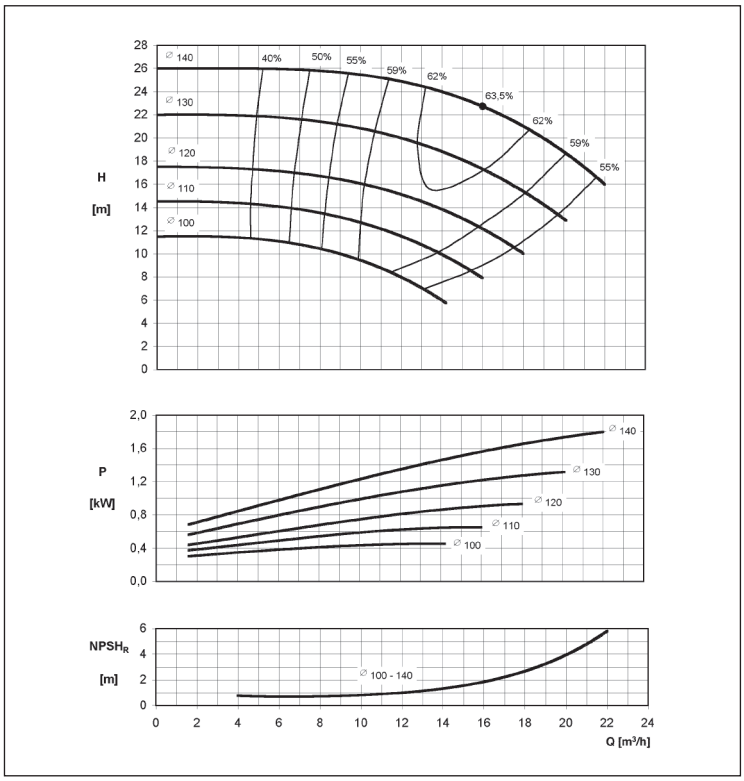
ENR

MONOBLOC CENTRIFUGAL ELECTRIC PUMP IN COMPLIANCE WITH EN 733

in cast iron

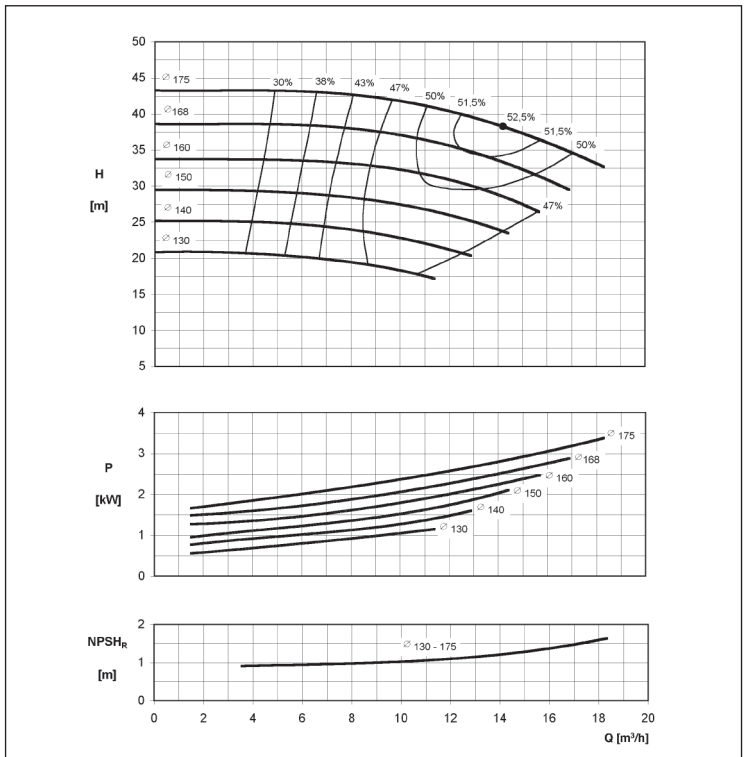
ENR 32-125 range PERFORMANCE CURVES — 2 Poles

(according to ISO 9906 Attachment A)



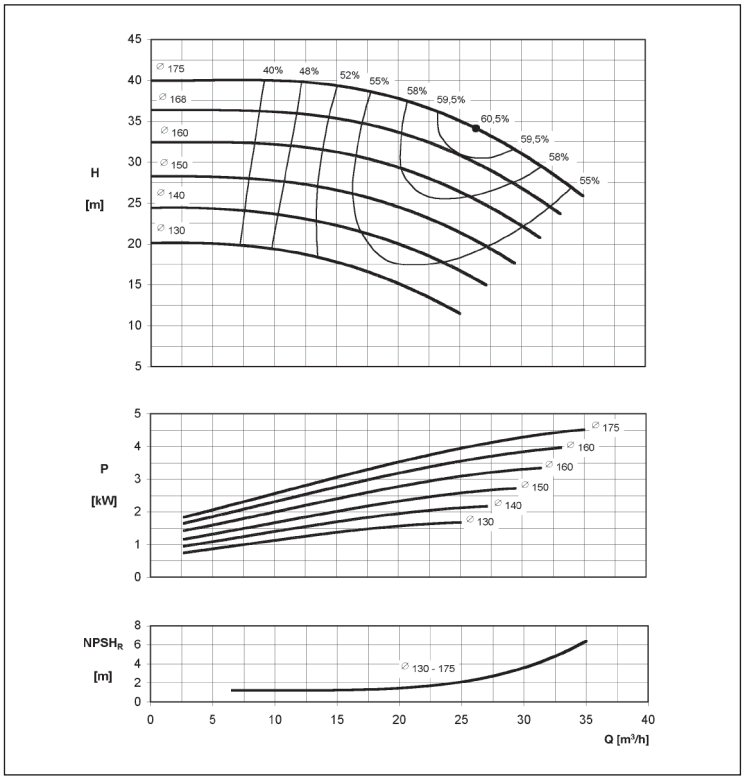
ENR 32-160A range PERFORMANCE CURVES — 2 Poles

(according to ISO 9906 Attachment A)



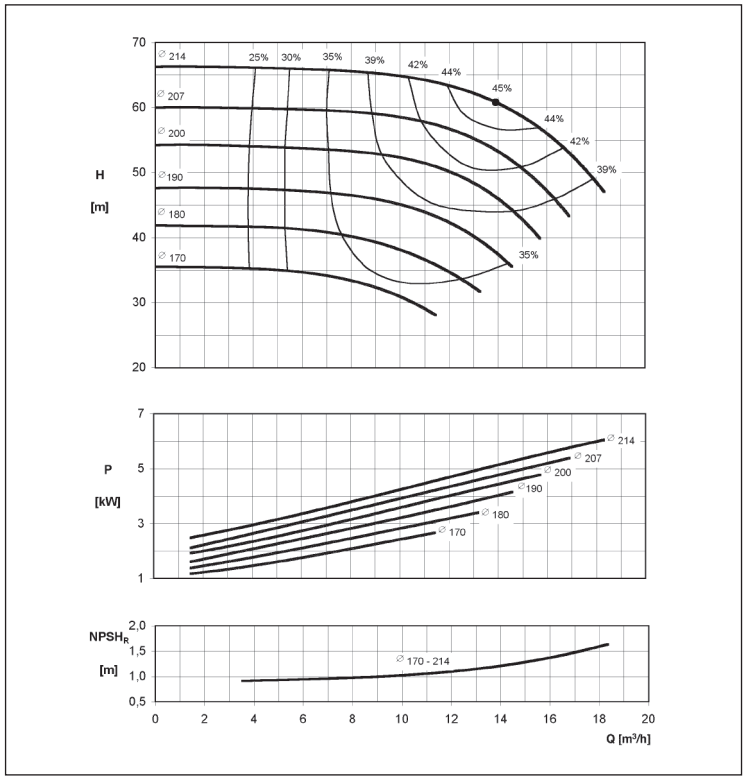
ENR 32-160B range PERFORMANCE CURVES — 2 Poles

(according to ISO 9906 Attachment A)



ENR 32-200A range PERFORMANCE CURVES — 2 Poles

(according to ISO 9906 Attachment A)



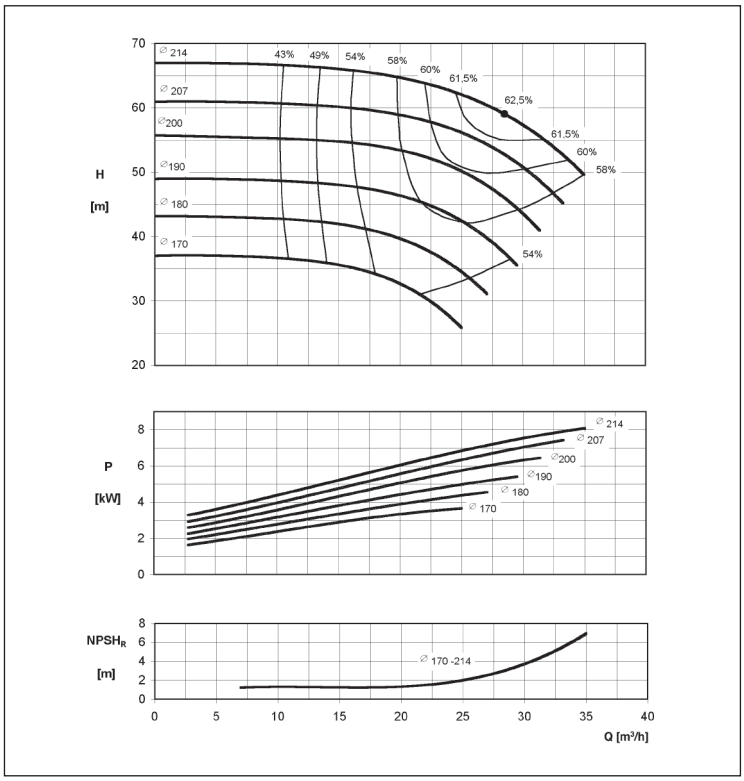
ENR

MONOBLOC CENTRIFUGAL ELECTRIC PUMP IN COMPLIANCE WITH EN 733

in cast iron

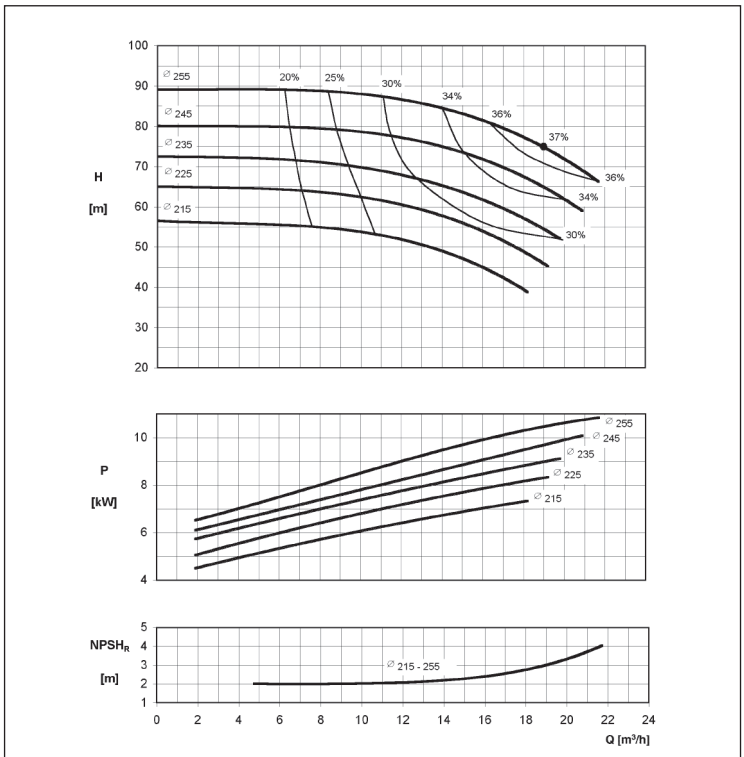
ENR 32-200B range PERFORMANCE CURVES — 2 Poles

(according to ISO 9906 Attachment A)



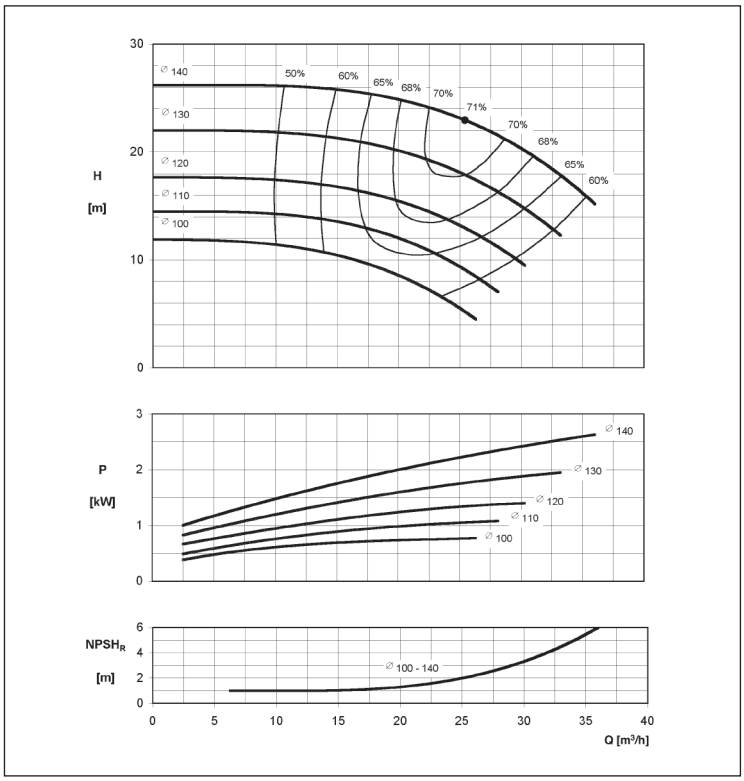
ENR 32-250 range PERFORMANCE CURVES — 2 Poles

(according to ISO 9906 Attachment A)



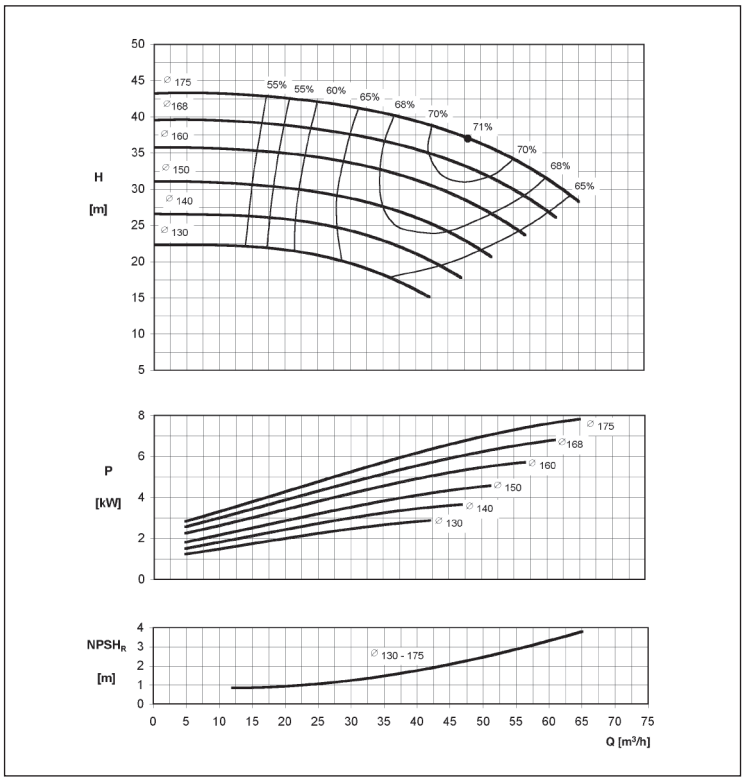
ENR 40-125 range PERFORMANCE CURVES — 2 Poles

(according to ISO 9906 Attachment A)



ENR 40-160 range PERFORMANCE CURVES — 2 Poles

(according to ISO 9906 Attachment A)



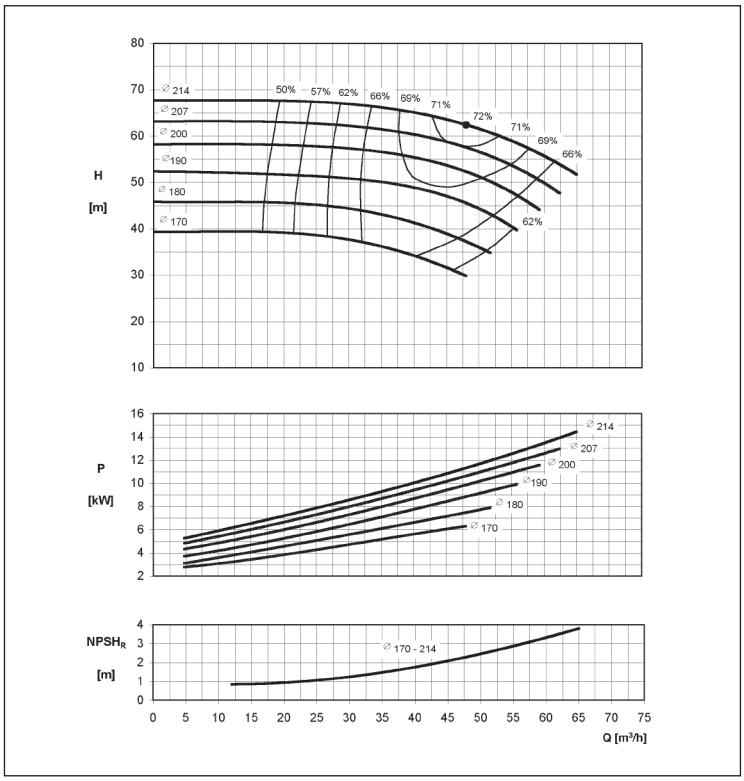
ENR

MONOBLOC CENTRIFUGAL ELECTRIC PUMP IN COMPLIANCE WITH EN 733

in cast iron

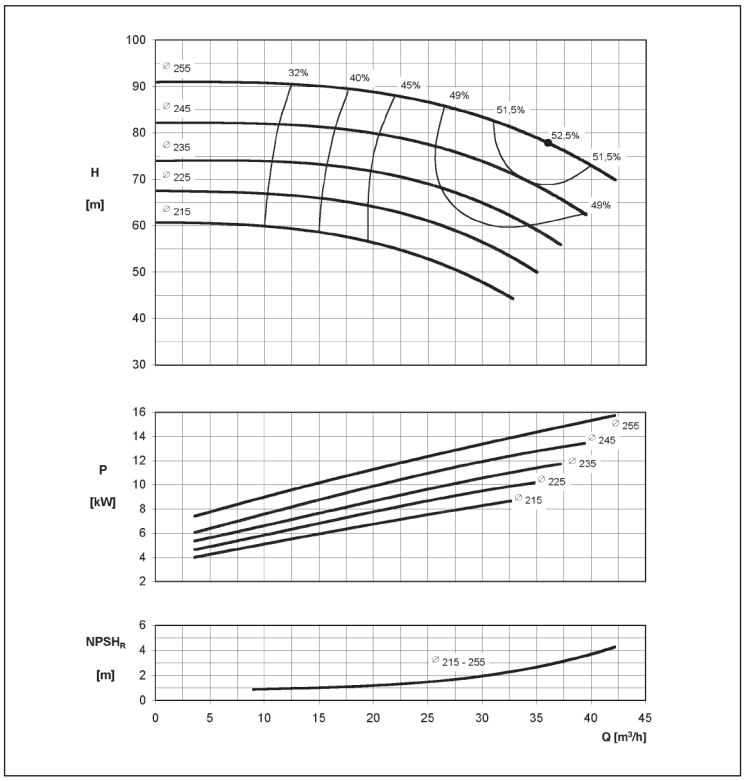
ENR 40-200 range PERFORMANCE CURVES — 2 Poles

(according to ISO 9906 Attachment A)



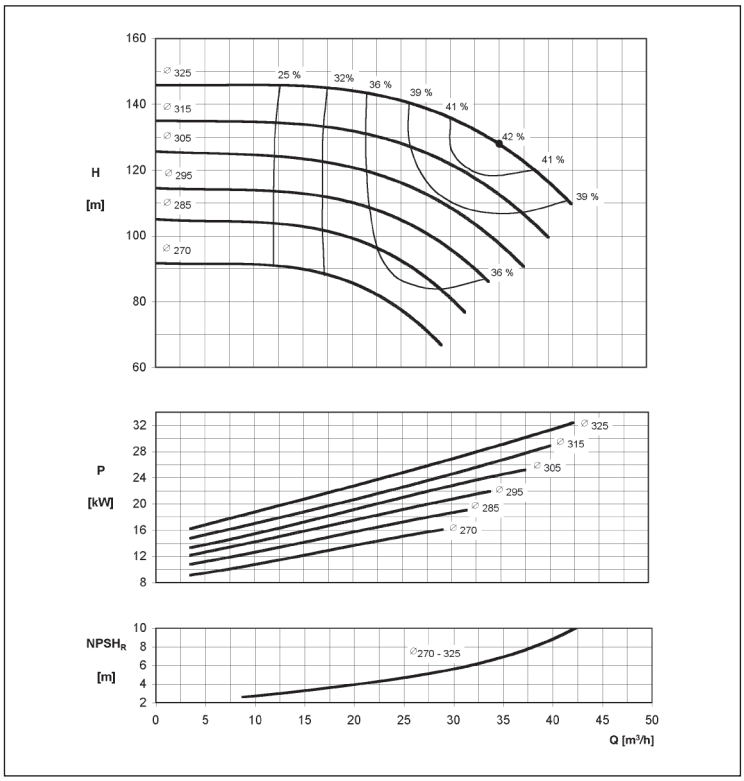
ENR 40-250 range PERFORMANCE CURVES — 2 Poles

(according to ISO 9906 Attachment A)



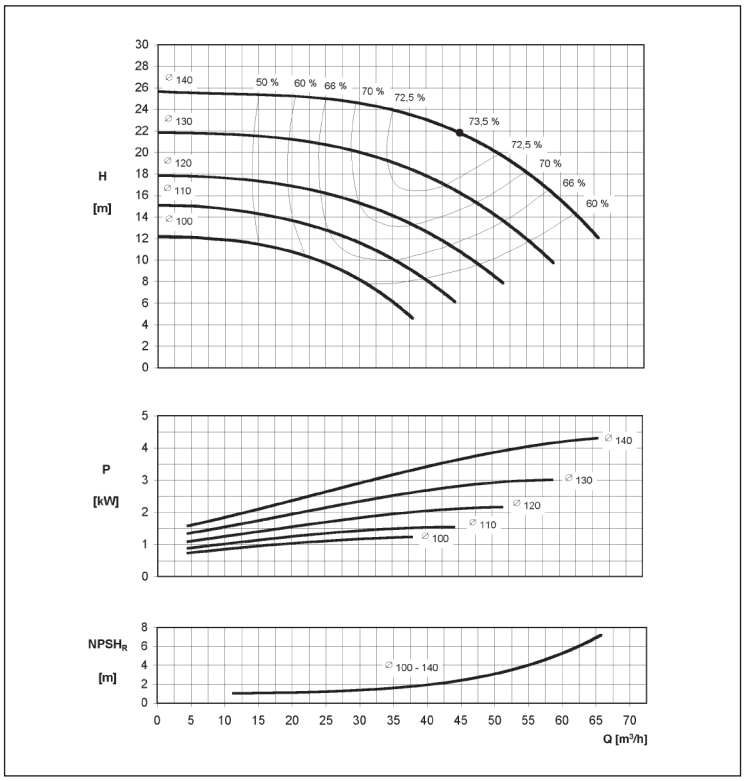
ENR 40-315 range PERFORMANCE CURVES — 2 Poles

(according to ISO 9906 Attachment A)



ENR 50-125 range PERFORMANCE CURVES — 2 Poles

(according to ISO 9906 Attachment A)



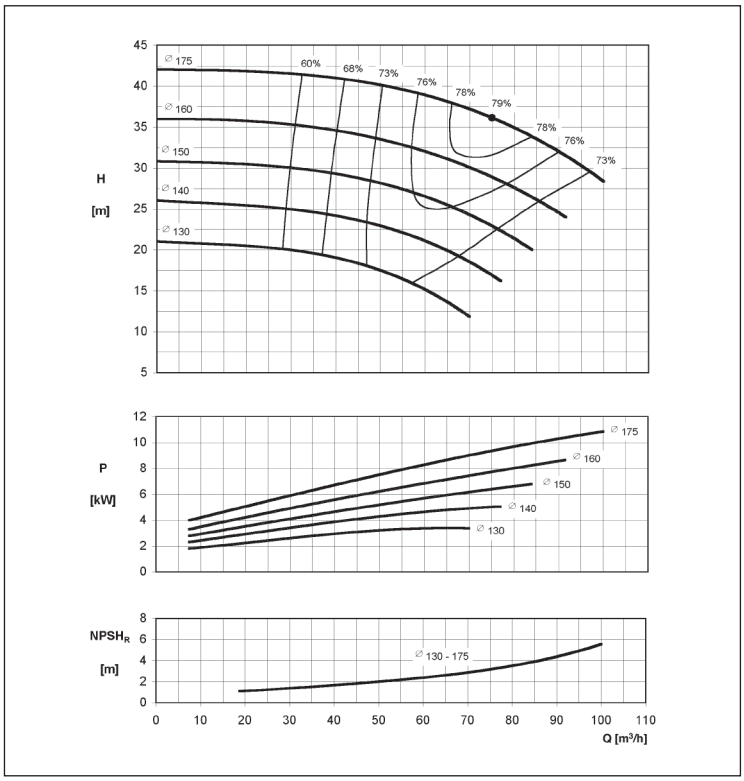
ENR

MONOBLOC CENTRIFUGAL ELECTRIC PUMP IN COMPLIANCE WITH EN 733

in cast iron

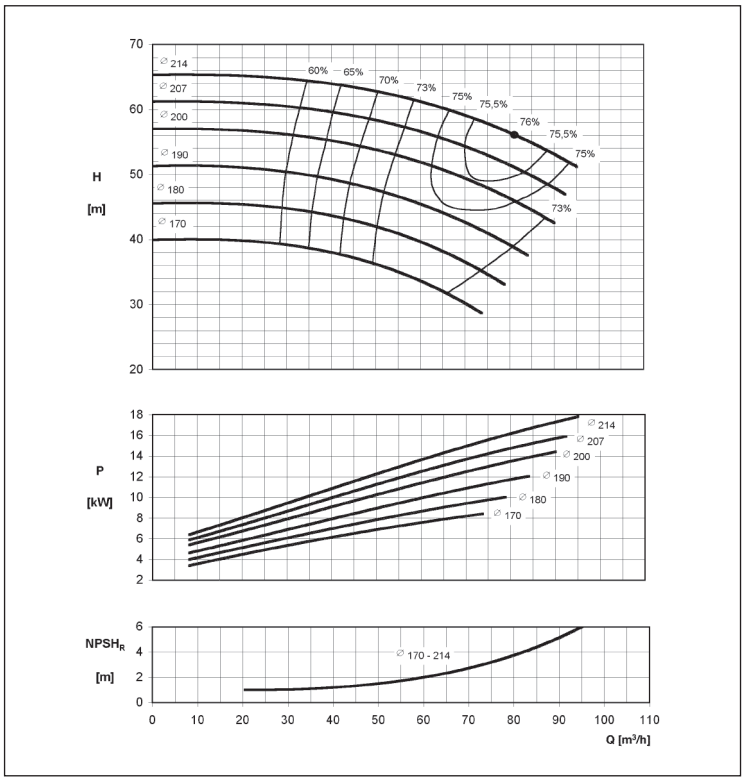
ENR 50-160 range PERFORMANCE CURVES — 2 Poles

(according to ISO 9906 Attachment A)



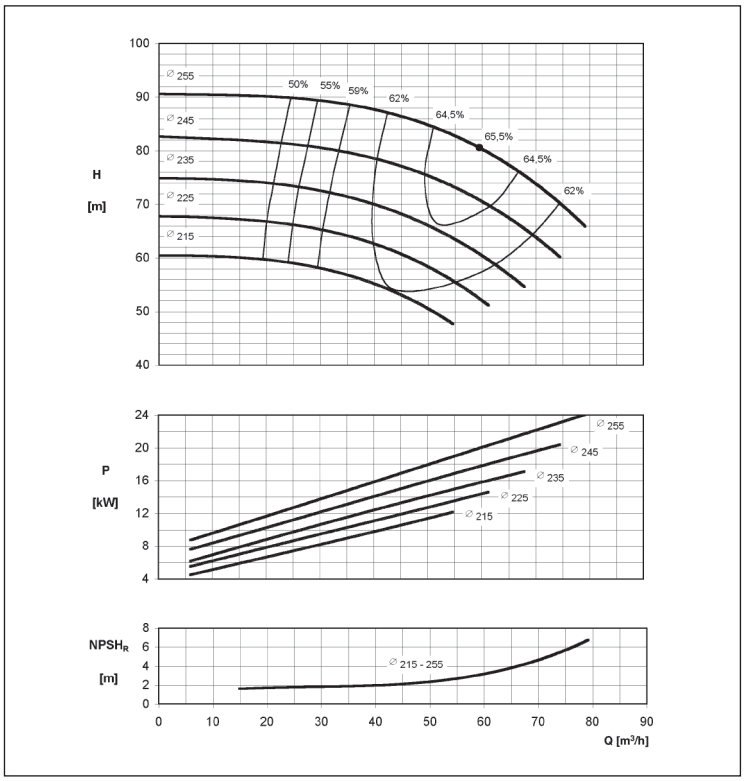
ENR 50-200 range PERFORMANCE CURVES — 2 Poles

(according to ISO 9906 Attachment A)



ENR 50-250 range PERFORMANCE CURVES — 2 Poles

(according to ISO 9906 Attachment A)



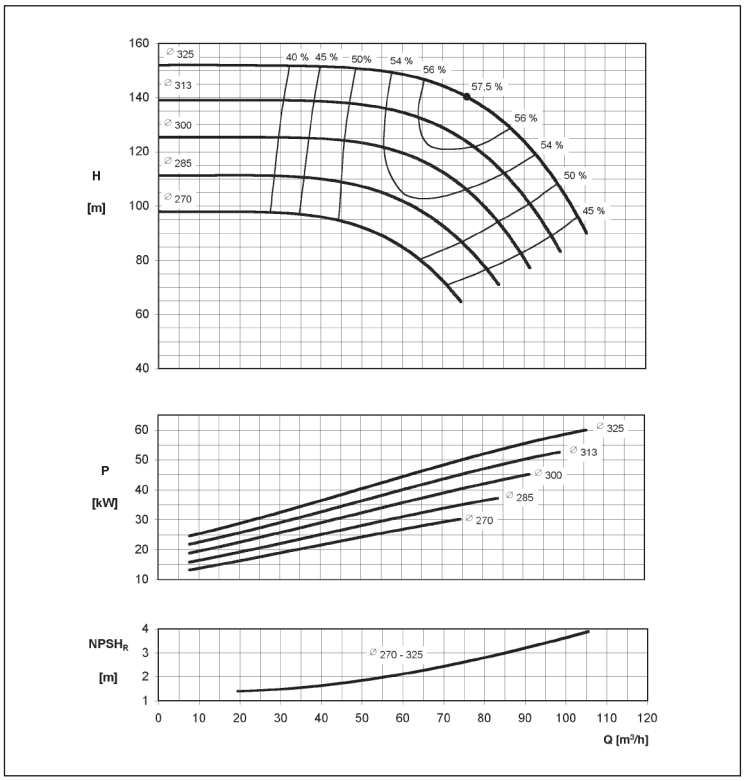
ENR

MONOBLOC CENTRIFUGAL ELECTRIC PUMP IN COMPLIANCE WITH EN 733

in cast iron

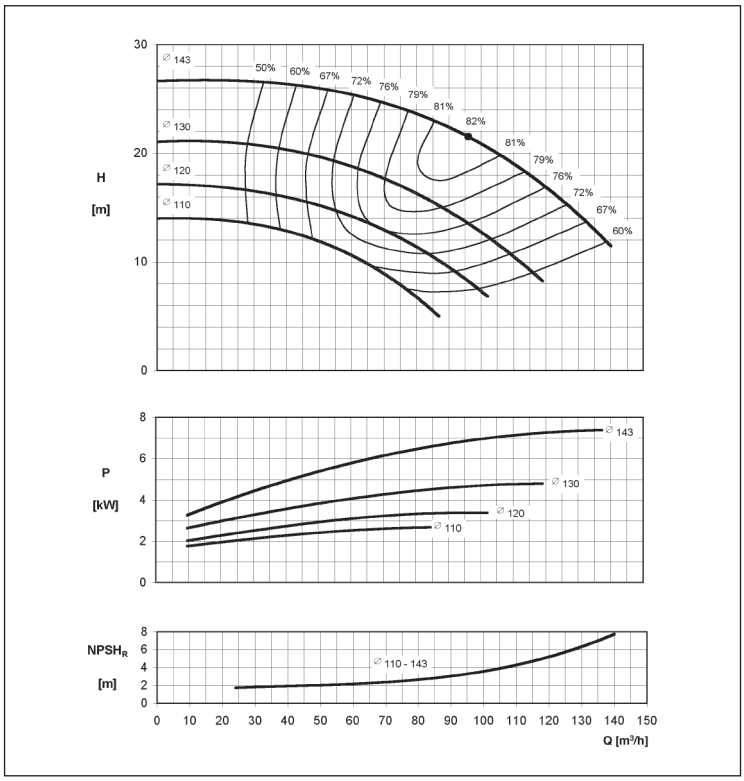
ENR 50-315 range PERFORMANCE CURVES — 2 Poles

(according to ISO 9906 Attachment A)



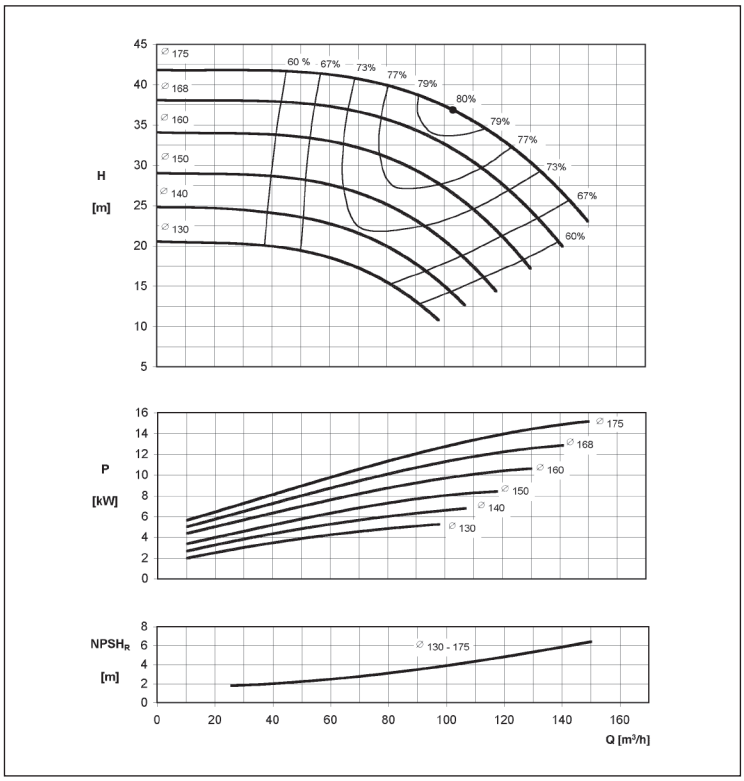
ENR 65-125 range PERFORMANCE CURVES — 2 Poles

(according to ISO 9906 Attachment A)



ENR 65-160 range PERFORMANCE CURVES — 2 Poles

(according to ISO 9906 Attachment A)



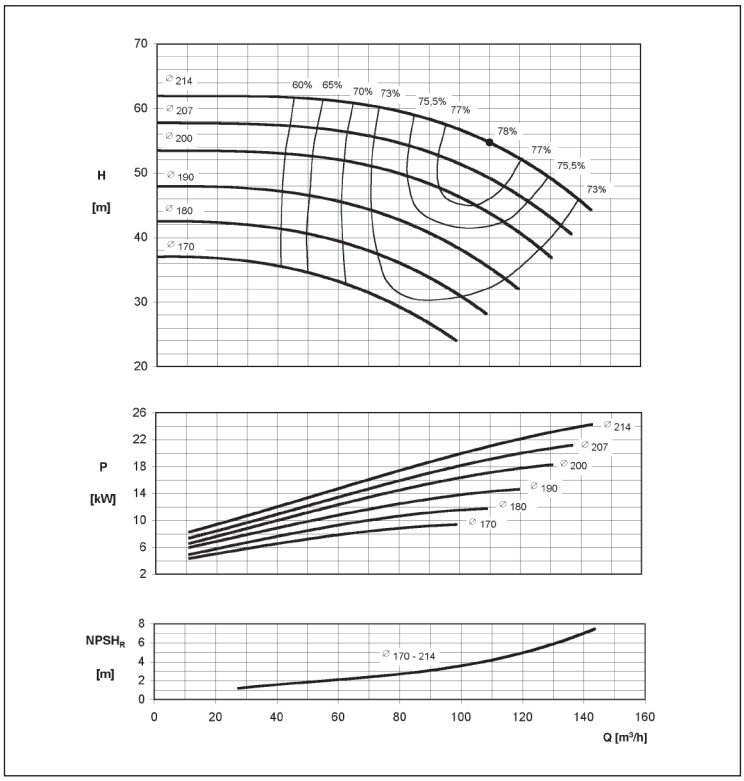
ENR

MONOBLOC CENTRIFUGAL ELECTRIC PUMP IN COMPLIANCE WITH EN 733

in cast iron

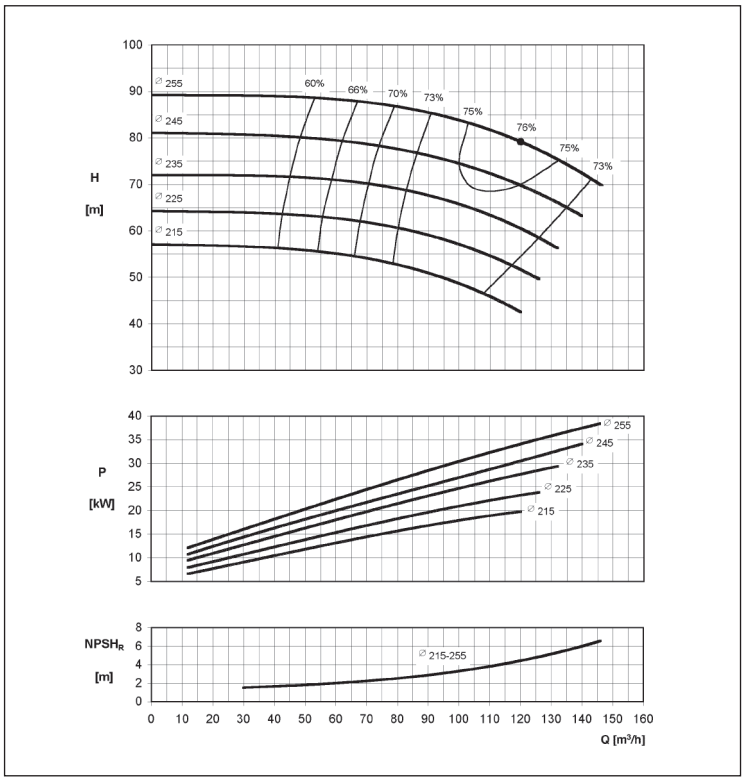
ENR 65-200 range PERFORMANCE CURVES — 2 Poles

(according to ISO 9906 Attachment A)



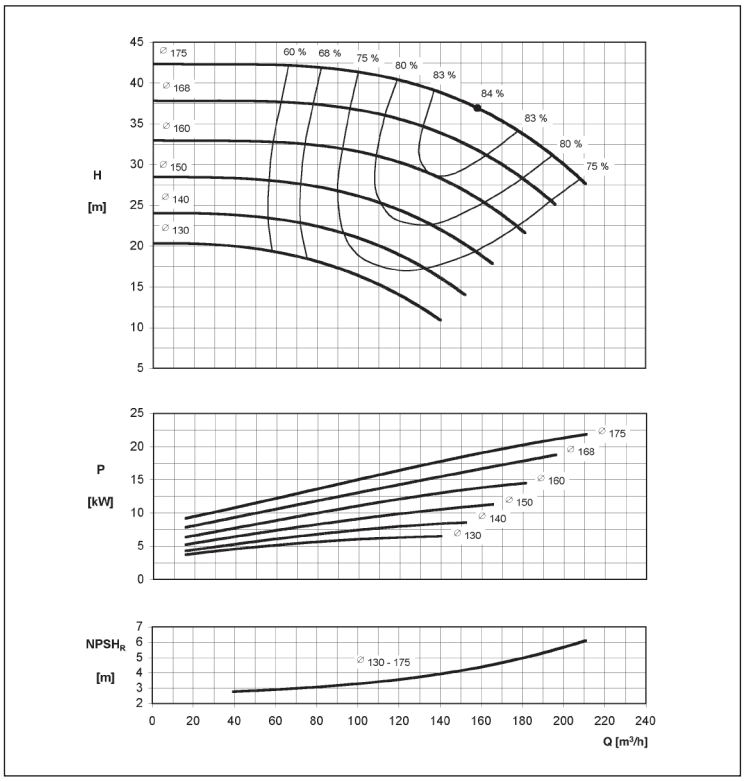
ENR 65-250 range PERFORMANCE CURVES — 2 Poles

(according to ISO 9906 Attachment A)



ENR 80-160 range PERFORMANCE CURVES — 2 Poles

(according to ISO 9906 Attachment A)



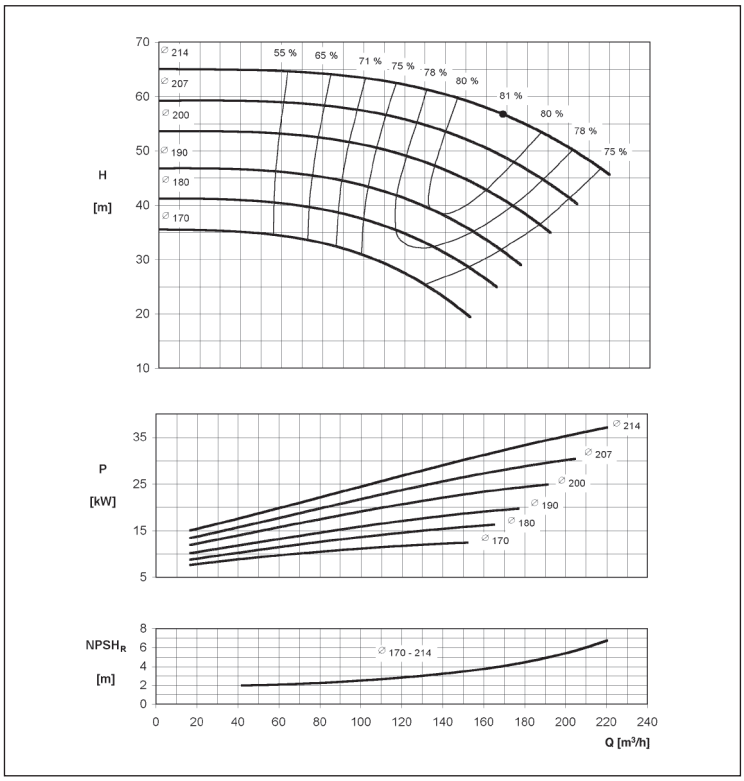
ENR

MONOBLOC CENTRIFUGAL ELECTRIC PUMP IN COMPLIANCE WITH EN 733

in cast iron

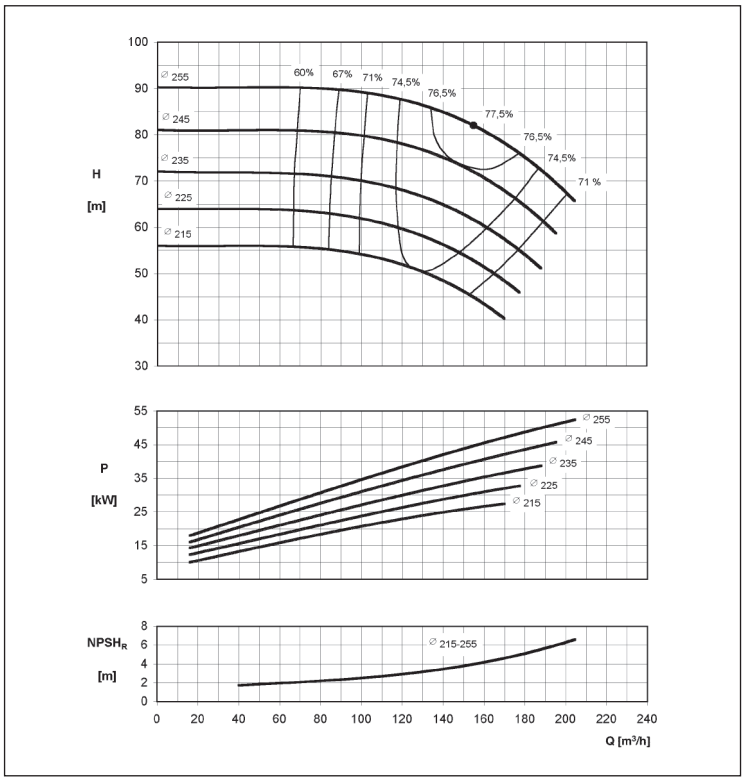
ENR 80-200 range PERFORMANCE CURVES — 2 Poles

(according to ISO 9906 Attachment A)



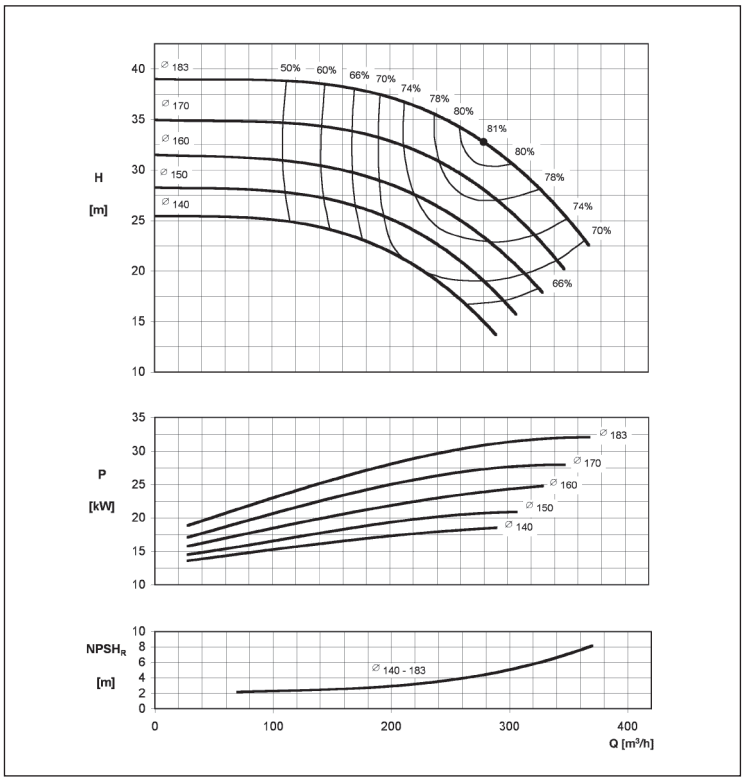
ENR 80-250 range PERFORMANCE CURVES — 2 Poles

(according to ISO 9906 Attachment A)



ENR 100-160 range PERFORMANCE CURVES — 2 Poles

(according to ISO 9906 Attachment A)



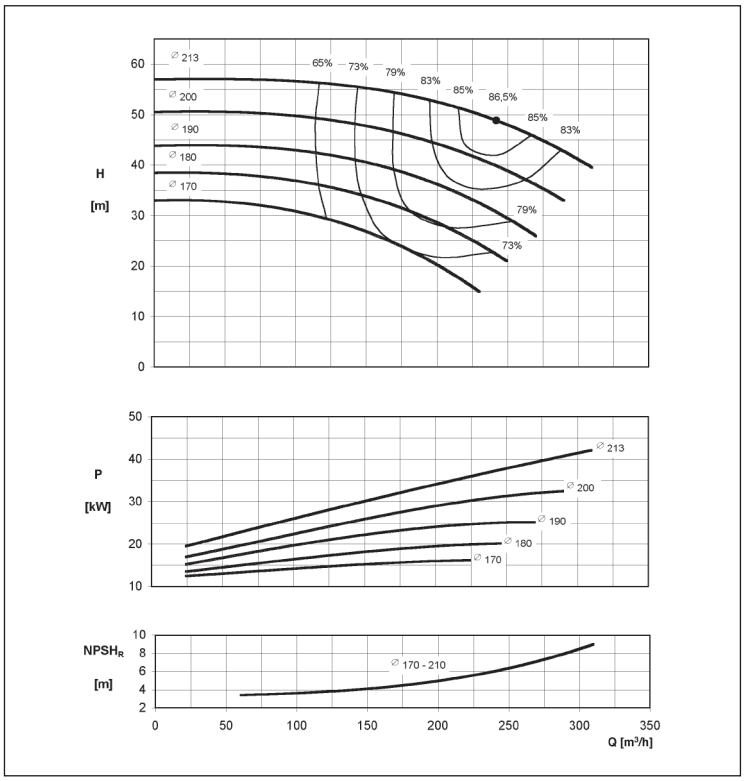
ENR

MONOBLOC CENTRIFUGAL ELECTRIC PUMP IN COMPLIANCE WITH EN 733

in cast iron

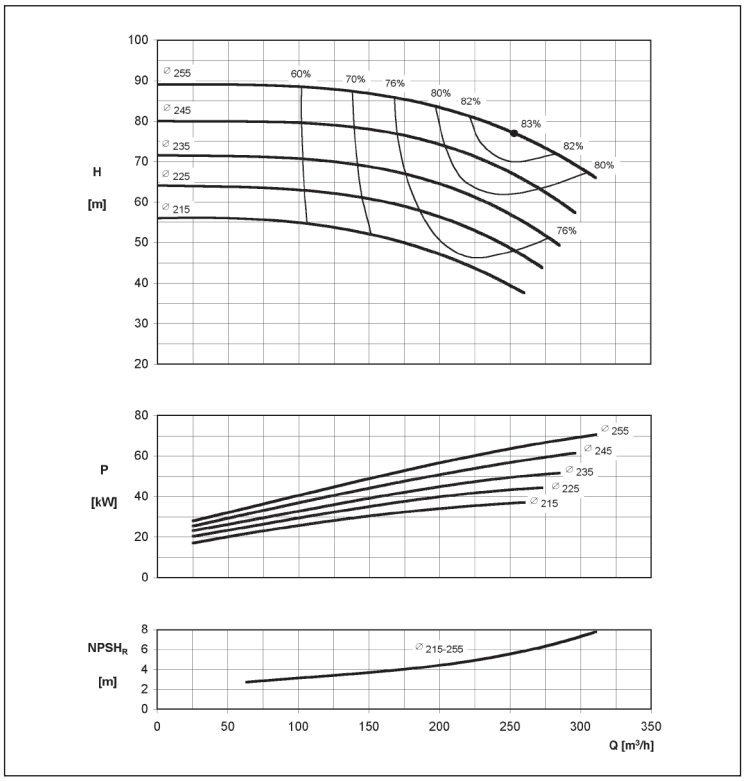
ENR 100-200 range PERFORMANCE CURVES — 2 Poles

(according to ISO 9906 Attachment A)



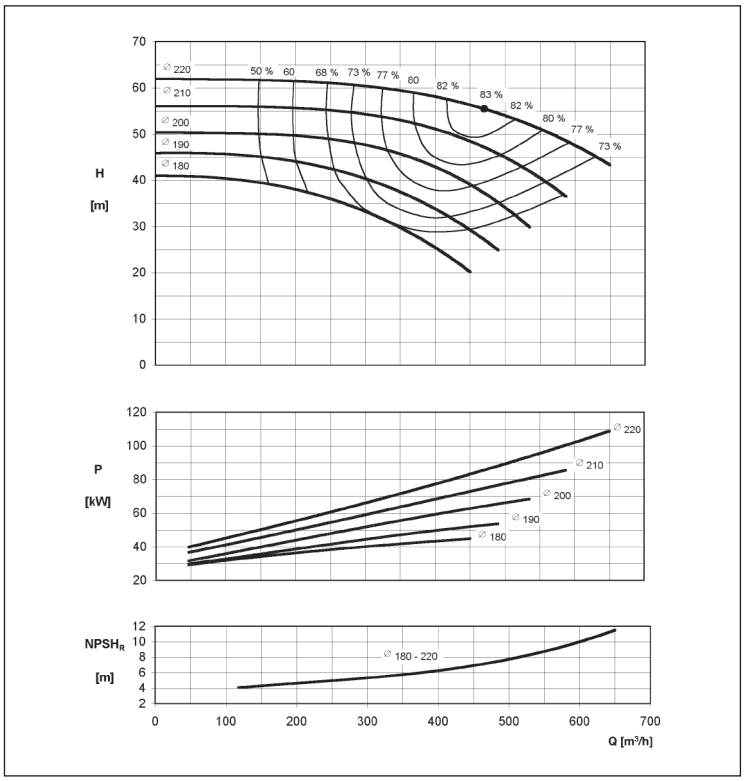
ENR 100-250 range PERFORMANCE CURVES — 2 Poles

(according to ISO 9906 Attachment A)



ENR 125-200 range PERFORMANCE CURVES — 2 Poles

(according to ISO 9906 Attachment A)



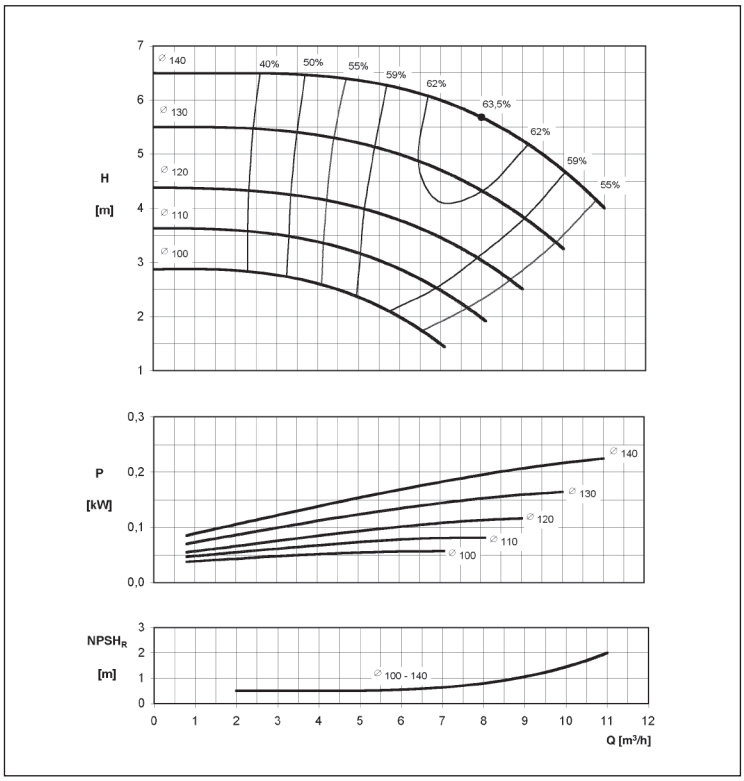
ENR

MONOBLOC CENTRIFUGAL ELECTRIC PUMP IN COMPLIANCE WITH EN 733

in cast iron

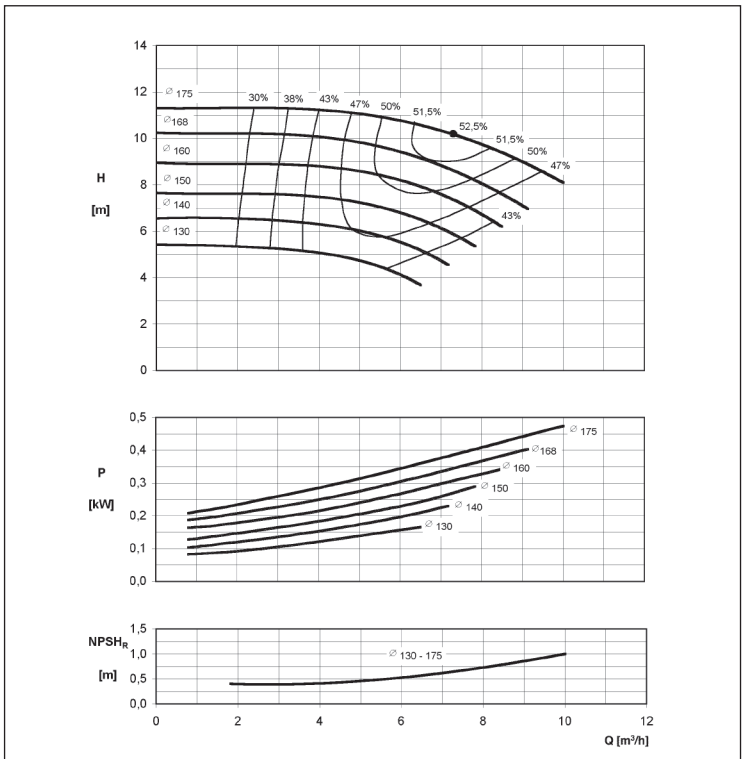
ENR 32-125 range PERFORMANCE CURVES — 4 Poles

(according to ISO 9906 Attachment A)



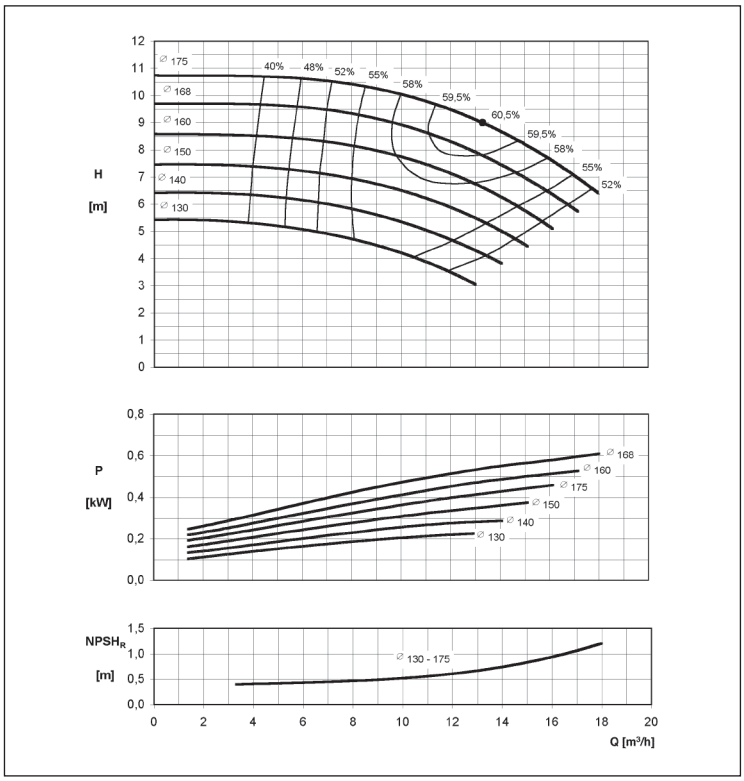
ENR 32-160A range PERFORMANCE CURVES — 4 Poles

(according to ISO 9906 Attachment A)



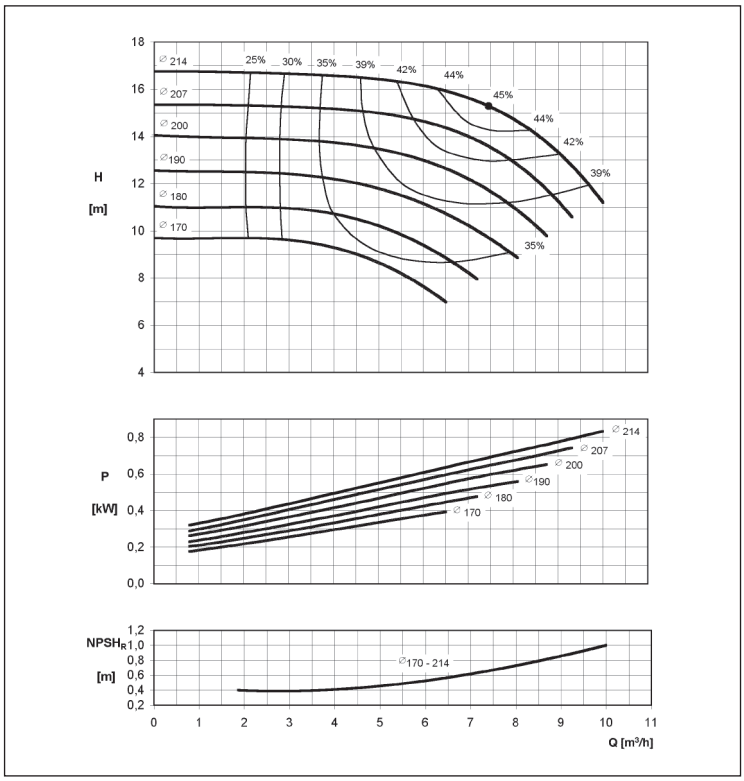
ENR 32-160B range PERFORMANCE CURVES — 4 Poles

(according to ISO 9906 Attachment A)



ENR 32-200A range PERFORMANCE CURVES — 4 Poles

(according to ISO 9906 Attachment A)



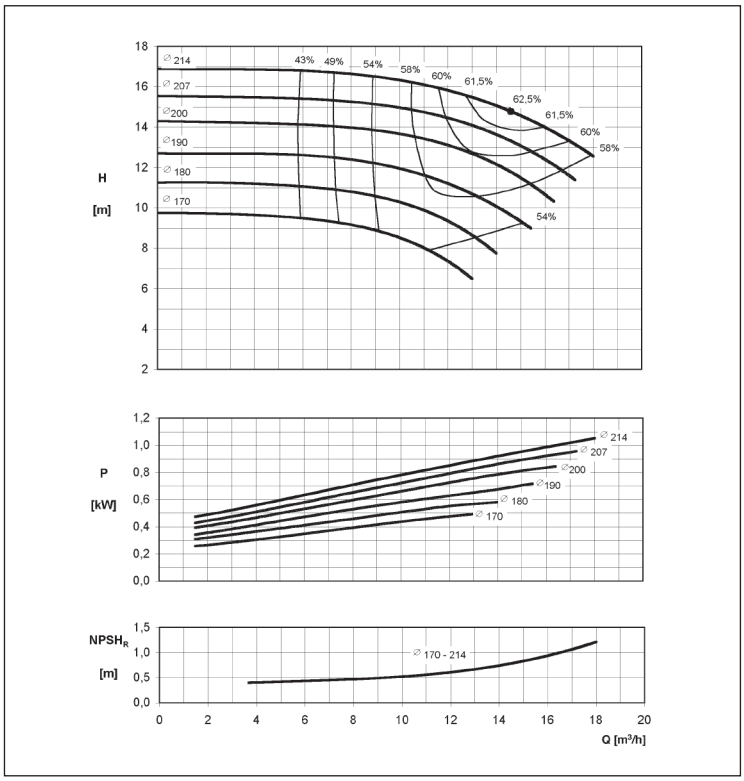
ENR

MONOBLOC CENTRIFUGAL ELECTRIC PUMP IN COMPLIANCE WITH EN 733

in cast iron

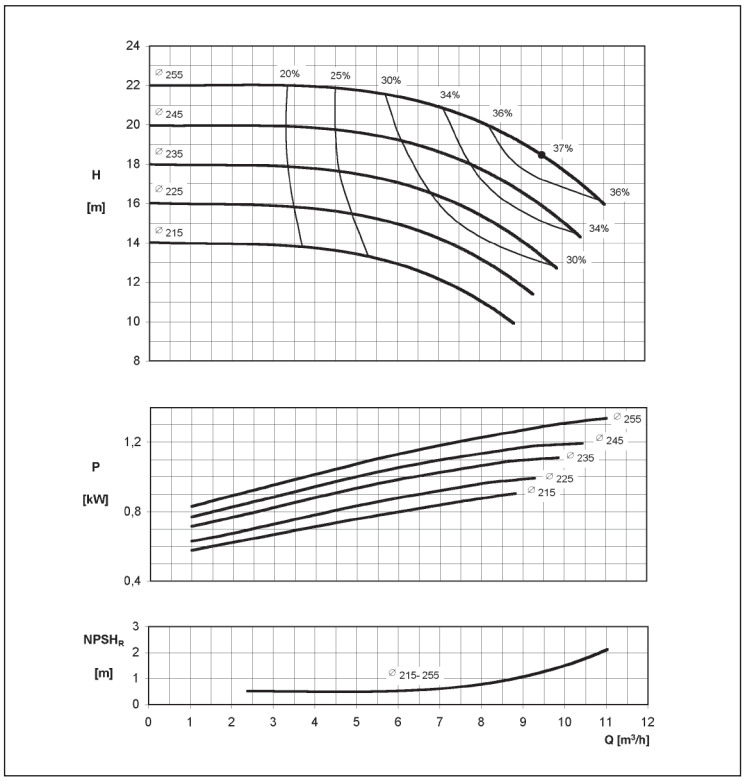
ENR 32-200B range PERFORMANCE CURVES — 4 Poles

(according to ISO 9906 Attachment A)



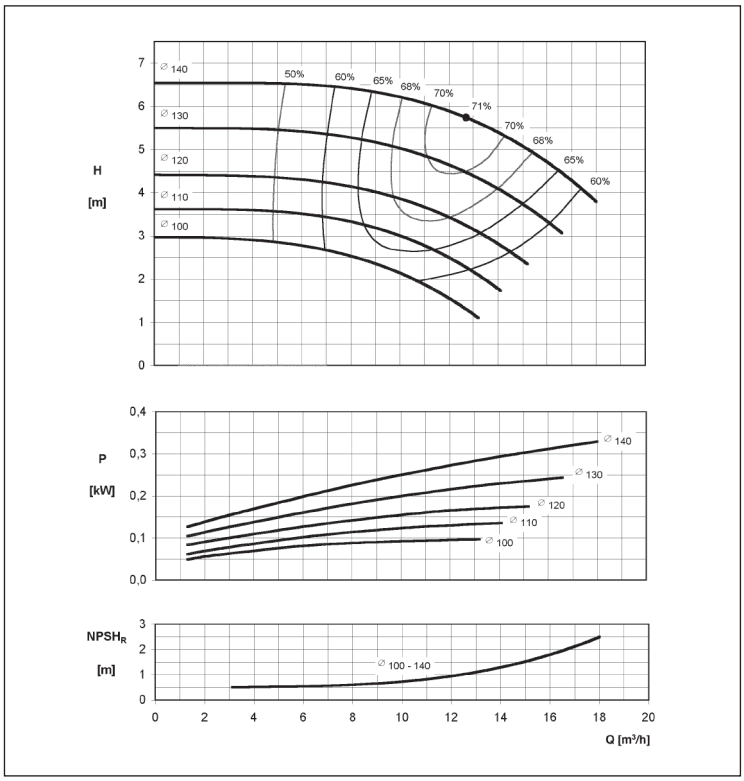
ENR 32-250 range PERFORMANCE CURVES — 4 Poles

(according to ISO 9906 Attachment A)



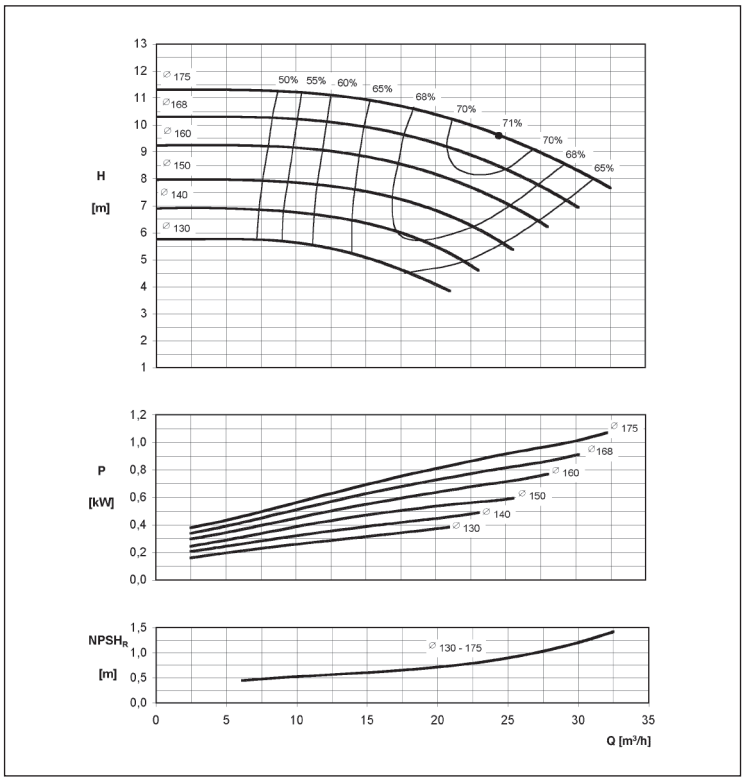
ENR 40-125 range PERFORMANCE CURVES — 4 Poles

(according to ISO 9906 Attachment A)



ENR 40-160 range PERFORMANCE CURVES — 4 Poles

(according to ISO 9906 Attachment A)

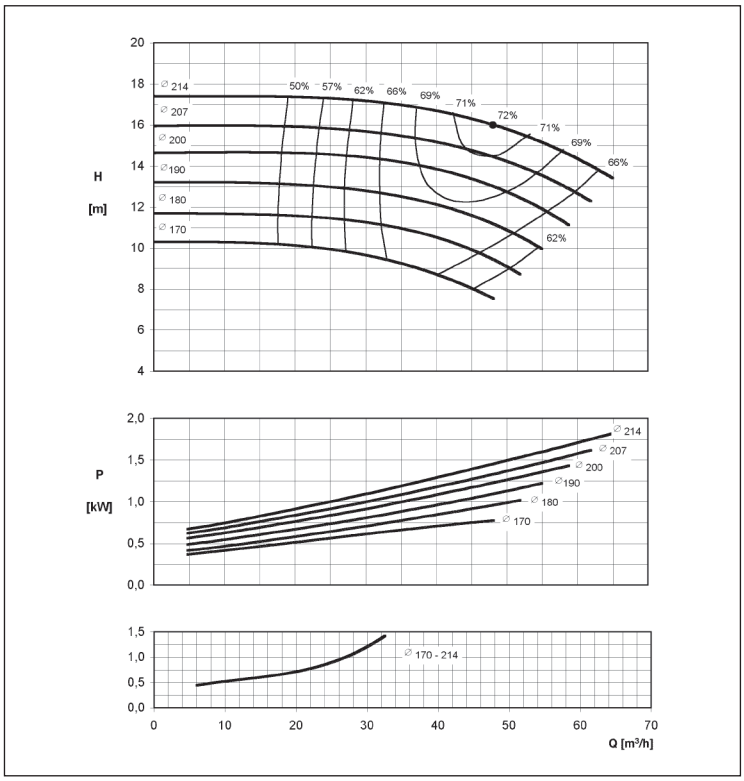


MONOBLOC CENTRIFUGAL ELECTRIC PUMP IN COMPLIANCE WITH EN 733

in cast iron

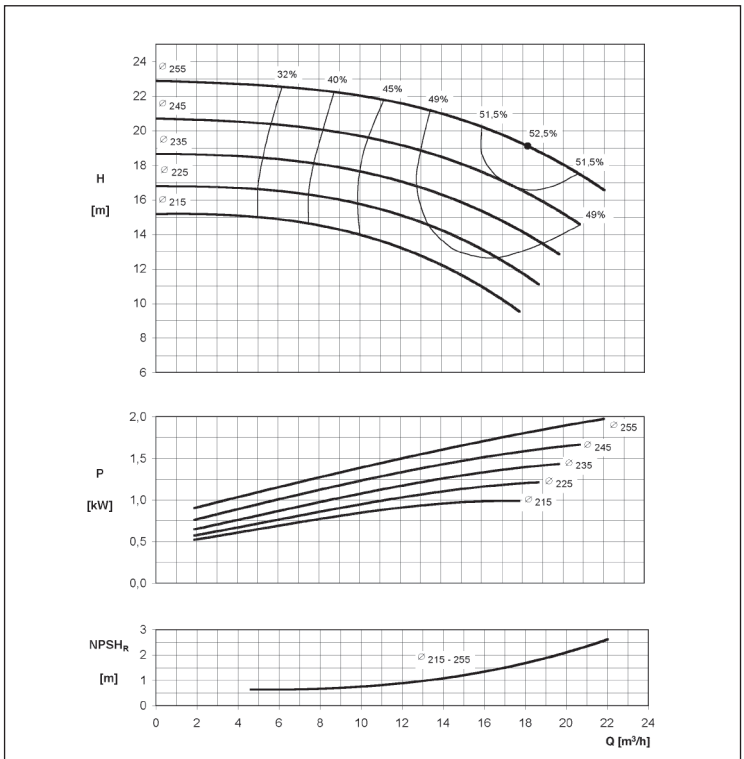
ENR 40-200 range PERFORMANCE CURVES — 4 Poles

(according to ISO 9906 Attachment A)



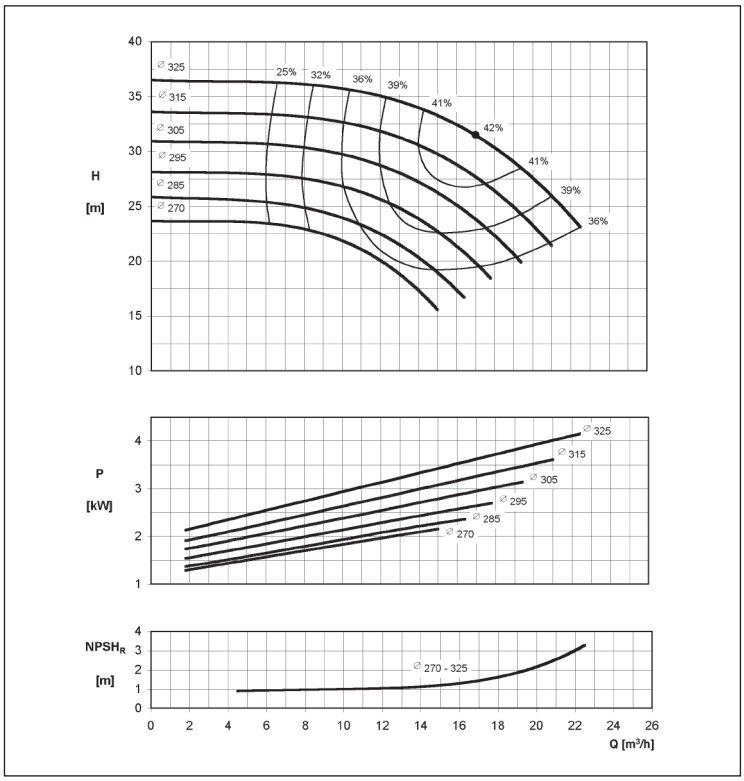
ENR 40-250 range PERFORMANCE CURVES — 4 Poles

(according to ISO 9906 Attachment A)



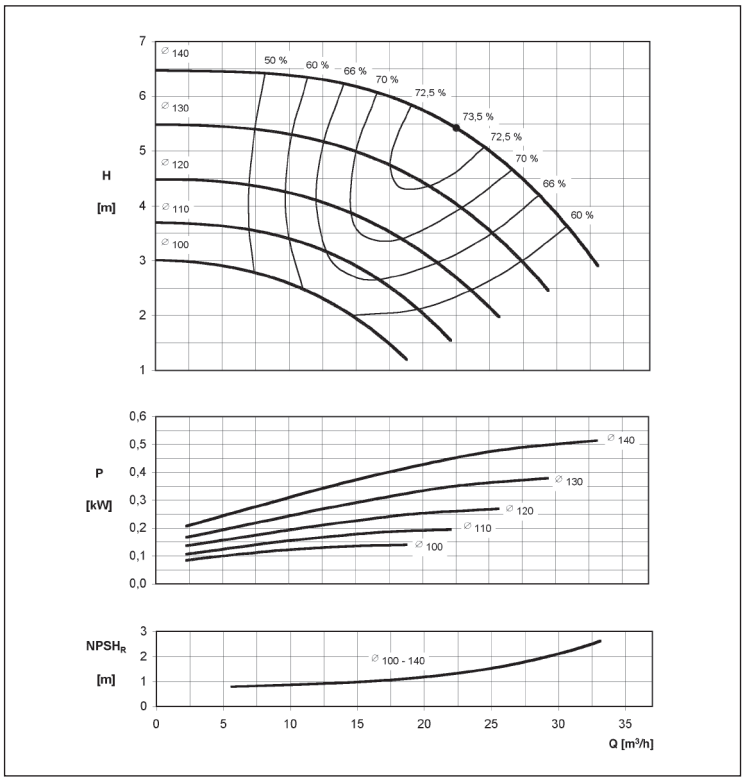
ENR 40-315 range PERFORMANCE CURVES — 4 Poles

(according to ISO 9906 Attachment A)



ENR 50-125 range PERFORMANCE CURVES — 4 Poles

(according to ISO 9906 Attachment A)



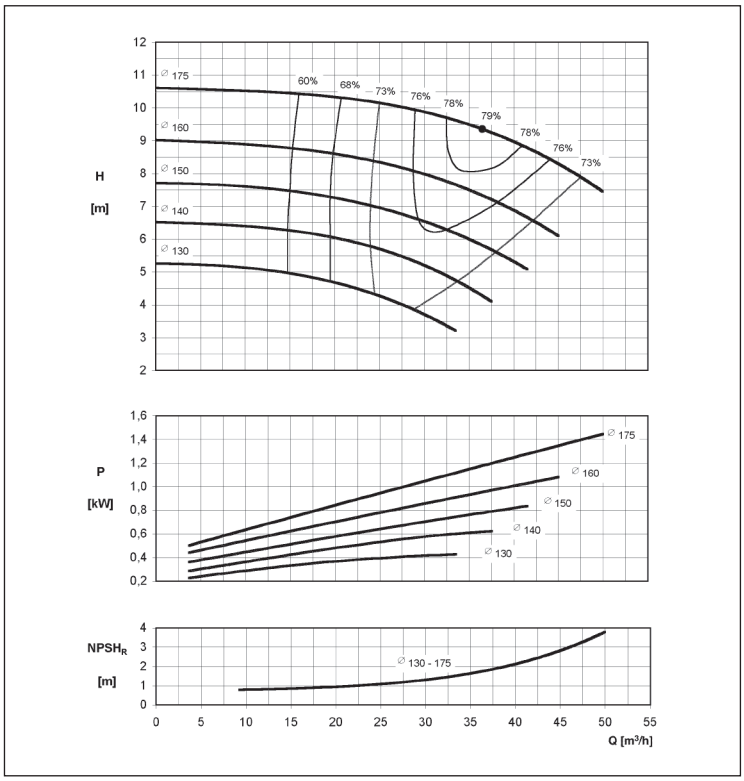
ENR

MONOBLOC CENTRIFUGAL ELECTRIC PUMP IN COMPLIANCE WITH EN 733

in cast iron

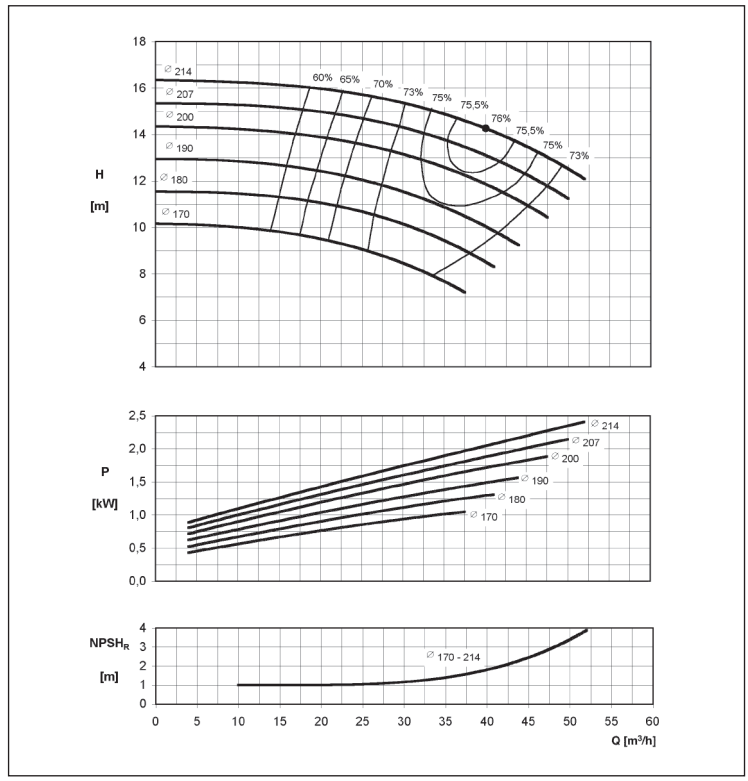
ENR 50-160 range PERFORMANCE CURVES — 4 Poles

(according to ISO 9906 Attachment A)



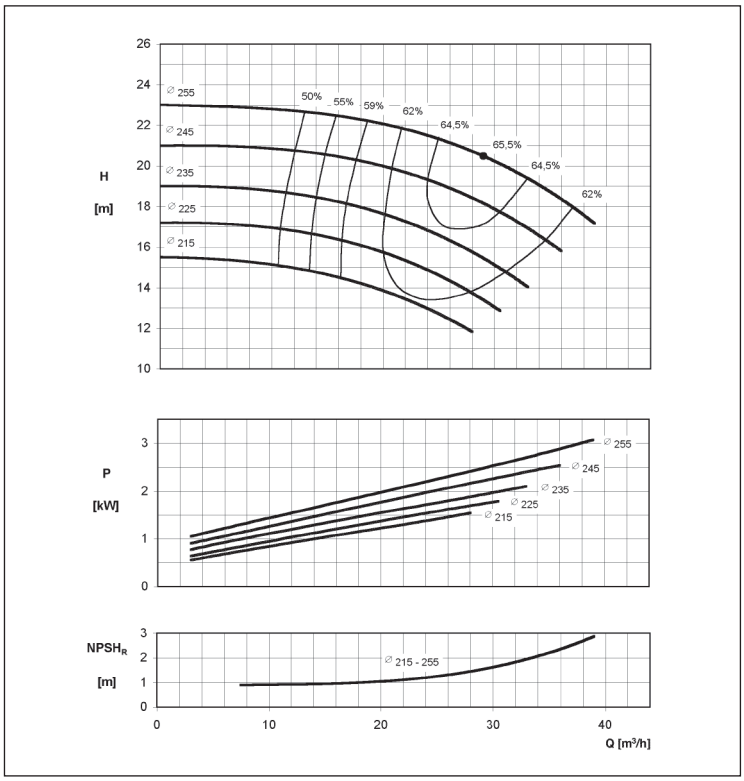
ENR 50-200 range PERFORMANCE CURVES — 4 Poles

(according to ISO 9906 Attachment A)



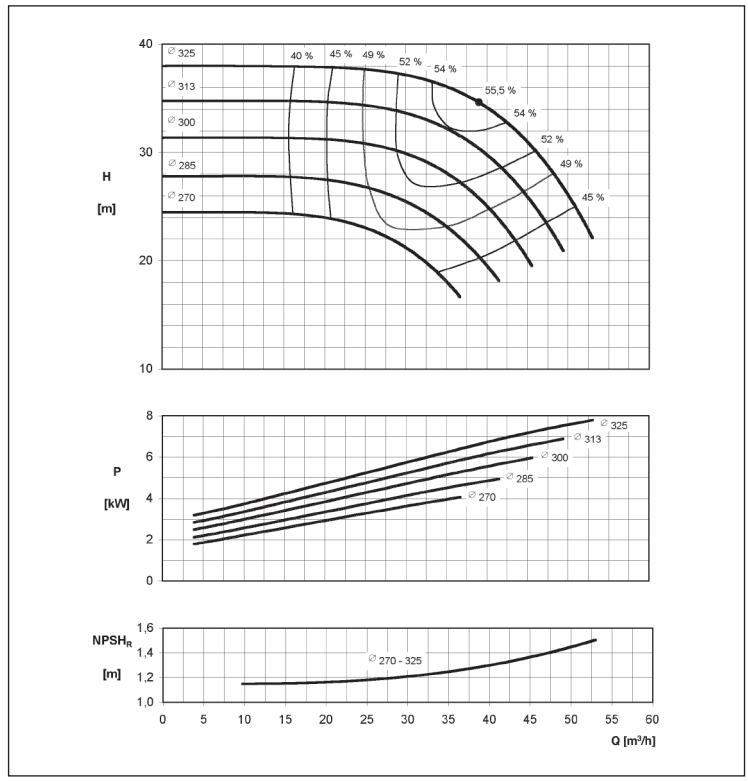
ENR 50-250 range PERFORMANCE CURVES — 4 Poles

(according to ISO 9906 Attachment A)



ENR 50-315 range PERFORMANCE CURVES — 4 Poles

(according to ISO 9906 Attachment A)



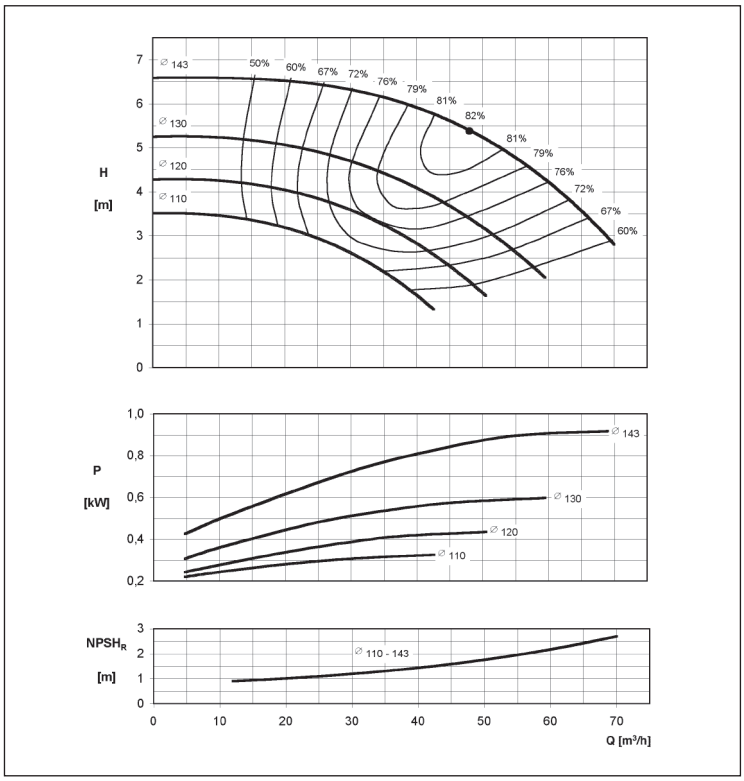
ENR

MONOBLOC CENTRIFUGAL ELECTRIC PUMP IN COMPLIANCE WITH EN 733

in cast iron

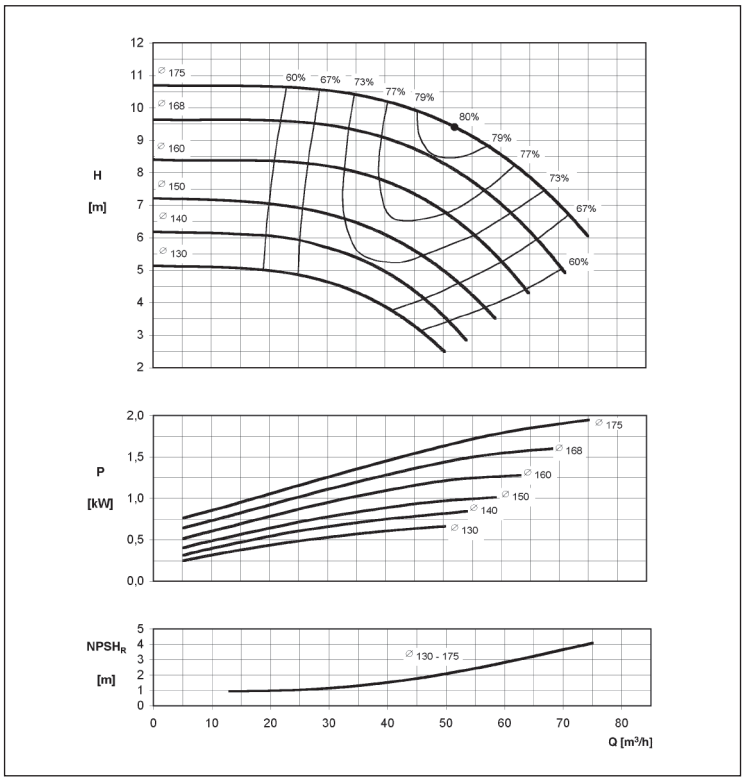
ENR 65-125 range PERFORMANCE CURVES — 4 Poles

(according to ISO 9906 Attachment A)



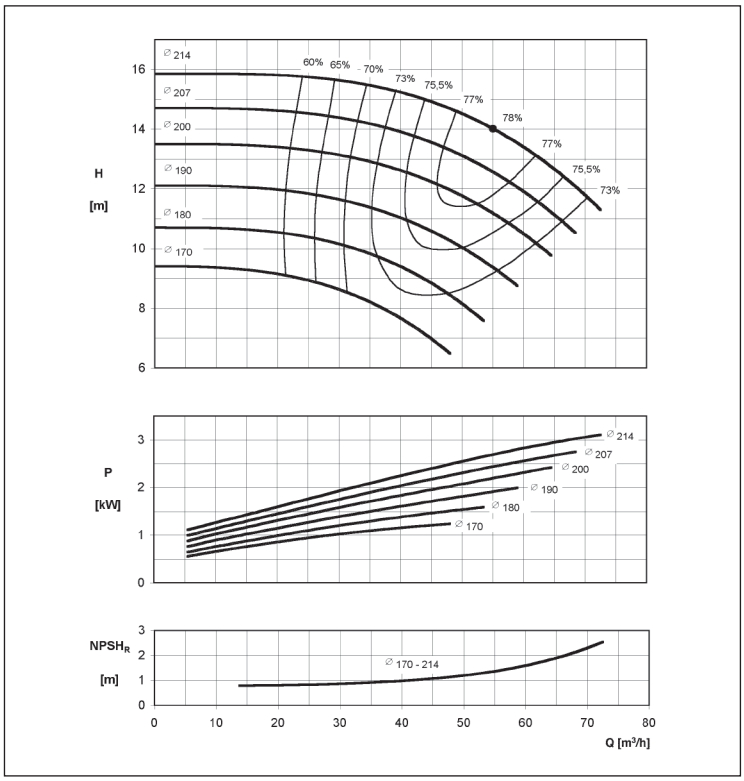
ENR 65-160 range PERFORMANCE CURVES — 4 Poles

(according to ISO 9906 Attachment A)



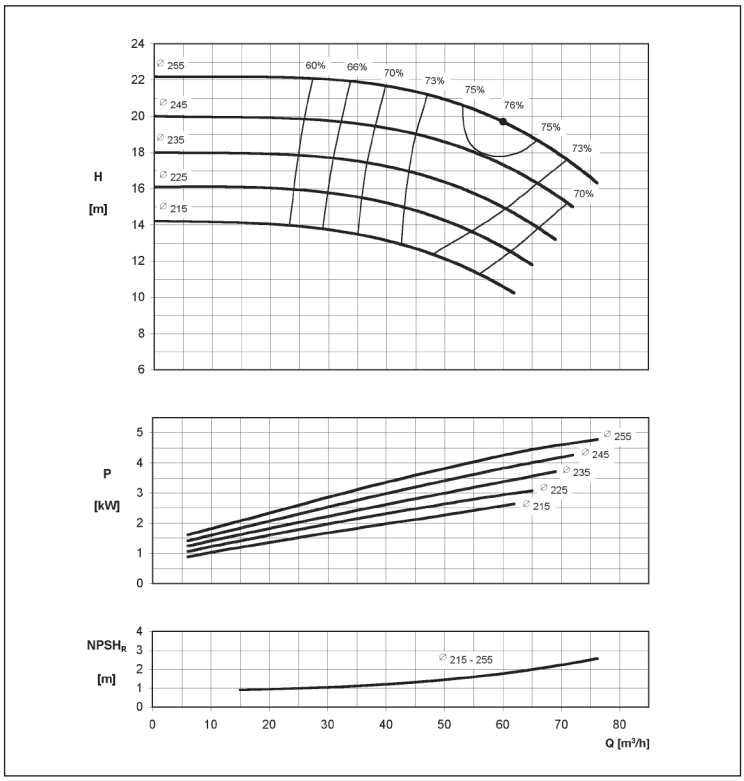
ENR 65-200 range PERFORMANCE CURVES — 4 Poles

(according to ISO 9906 Attachment A)



ENR 65-250 range PERFORMANCE CURVES — 4 Poles

(according to ISO 9906 Attachment A)



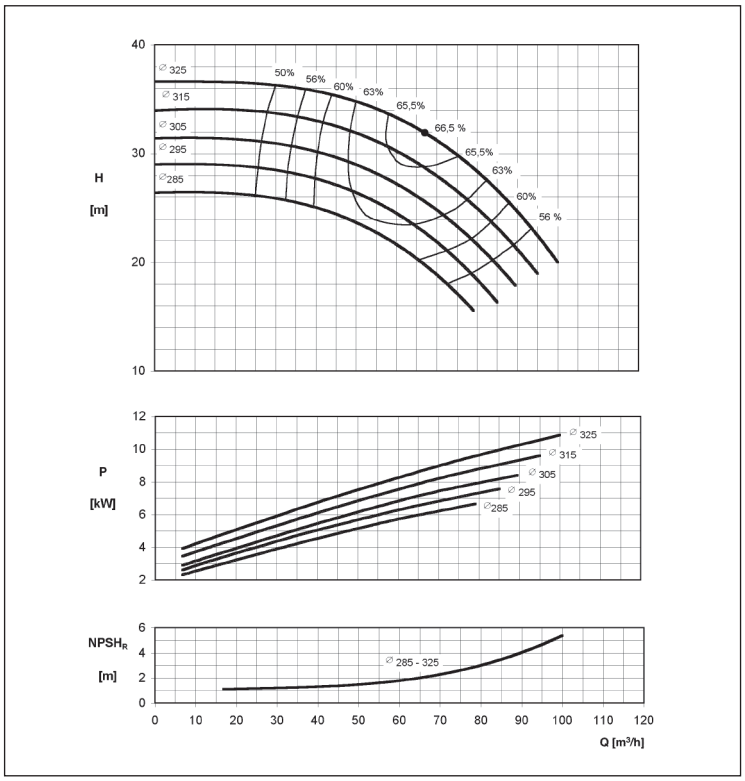
ENR

MONOBLOC CENTRIFUGAL ELECTRIC PUMP IN COMPLIANCE WITH EN 733

in cast iron

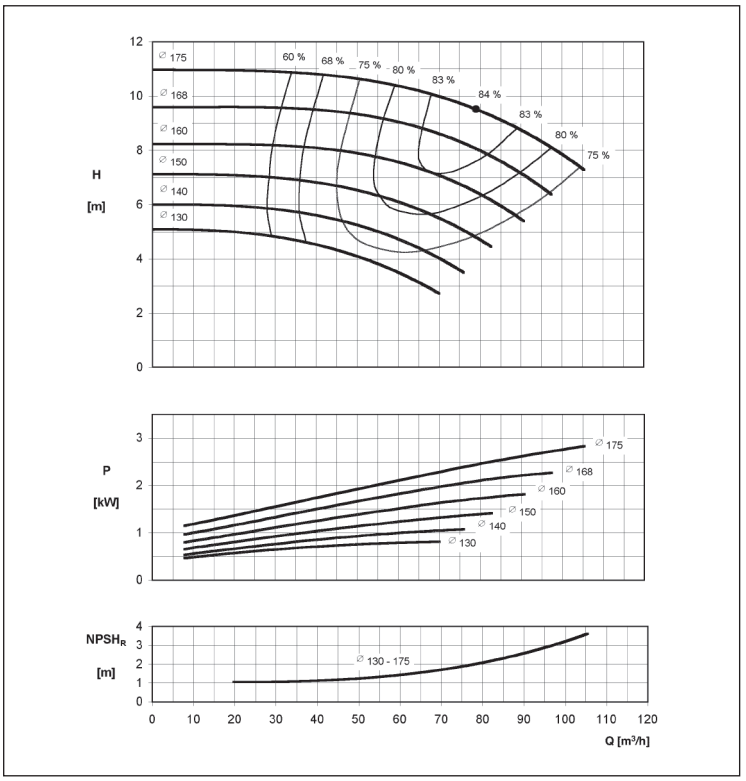
ENR 65-315 range PERFORMANCE CURVES — 4 Poles

(according to ISO 9906 Attachment A)



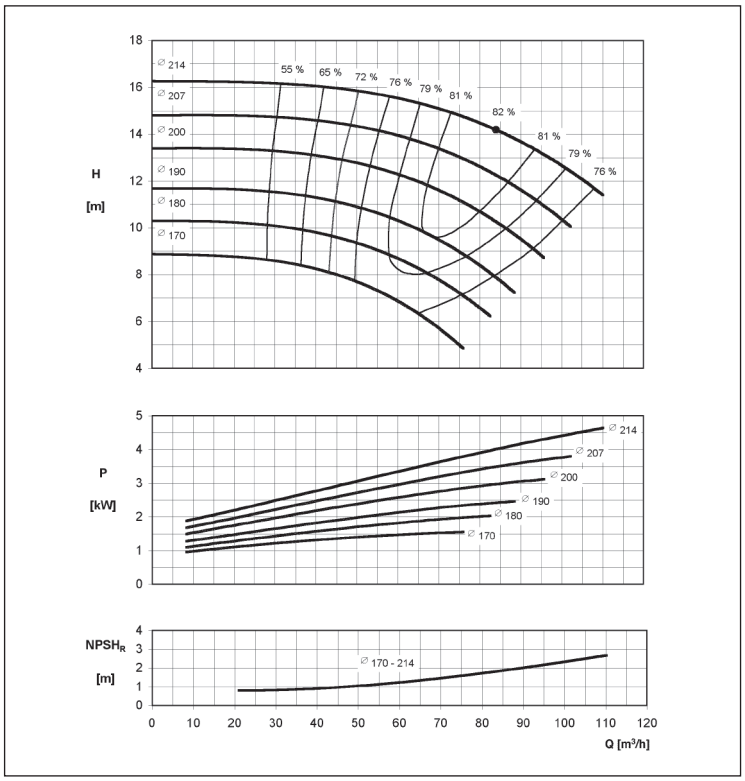
ENR 80-160 range PERFORMANCE CURVES — 4 Poles

(according to ISO 9906 Attachment A)



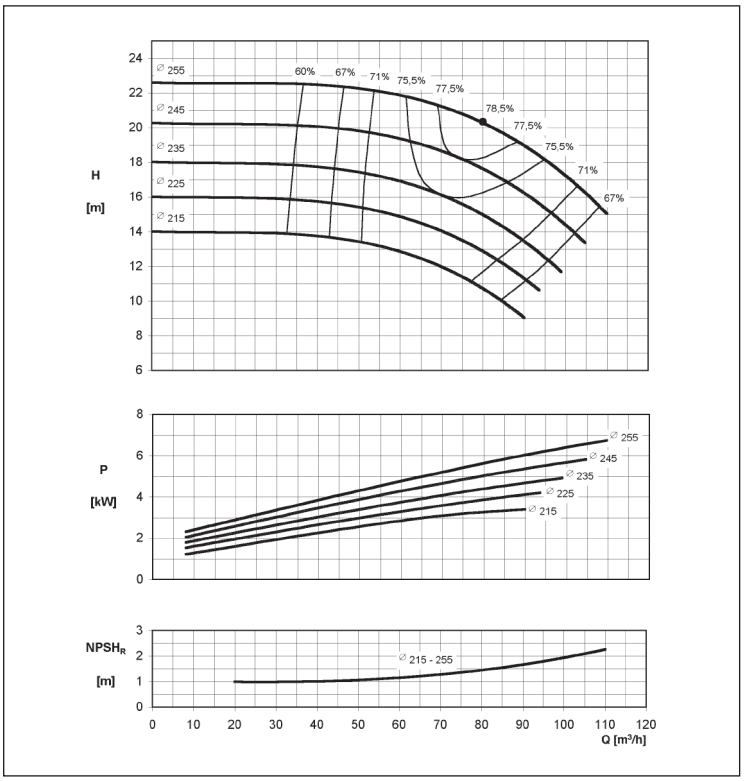
ENR 80-200 range PERFORMANCE CURVES — 4 Poles

(according to ISO 9906 Attachment A)



ENR 80-250 range PERFORMANCE CURVES — 4 Poles

(according to ISO 9906 Attachment A)



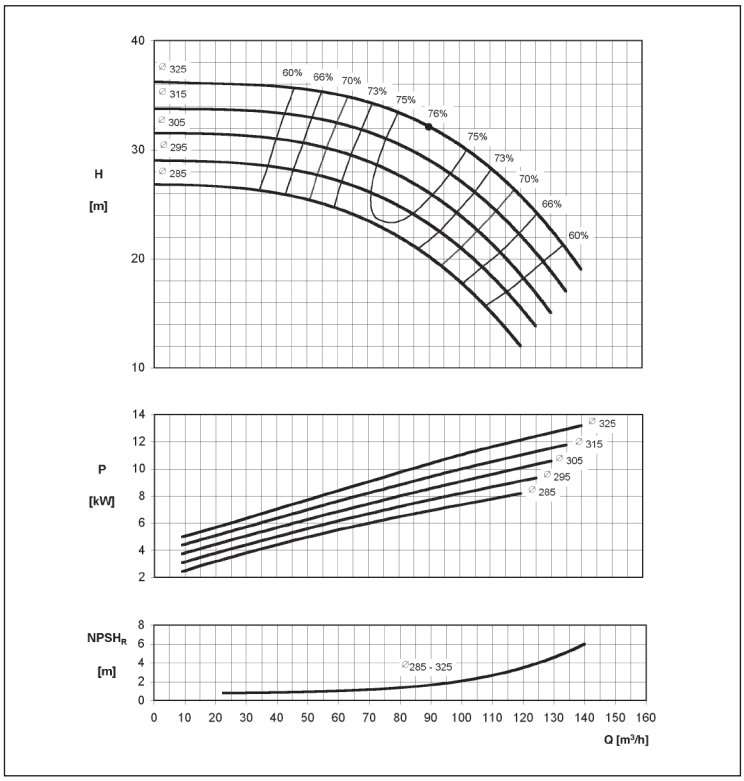
ENR

MONOBLOC CENTRIFUGAL ELECTRIC PUMP IN COMPLIANCE WITH EN 733

in cast iron

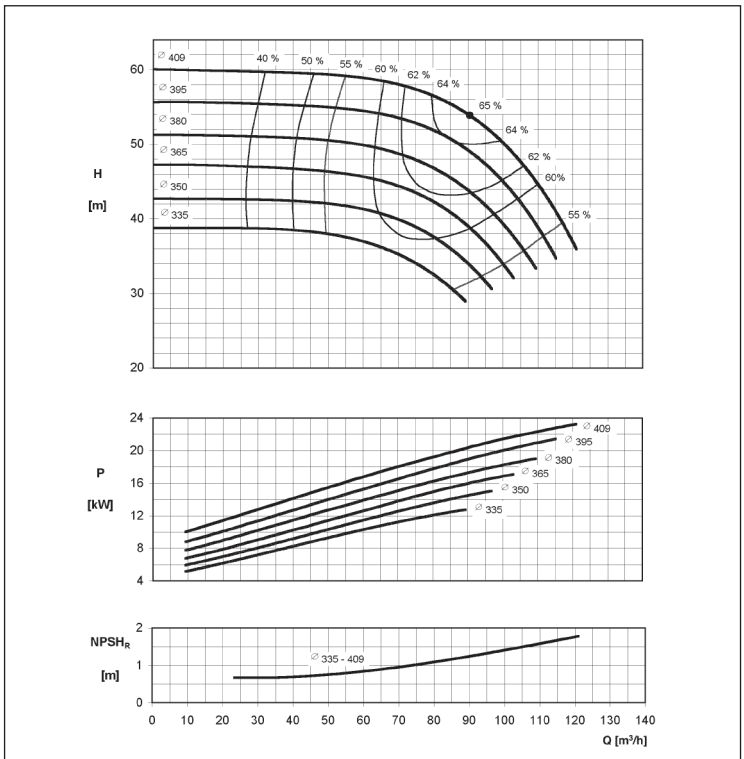
ENR 80-315 range PERFORMANCE CURVES — 4 Poles

(according to ISO 9906 Attachment A)



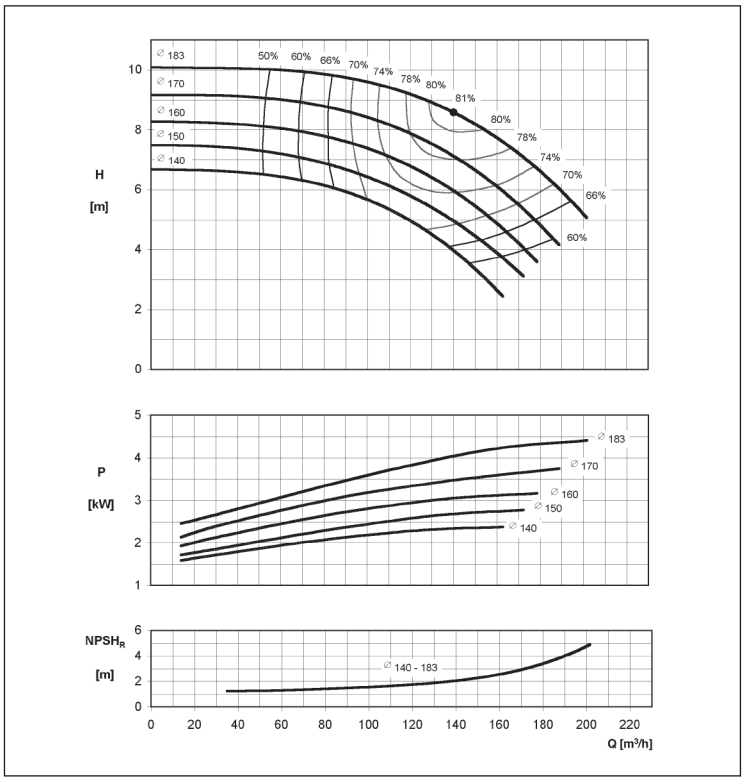
ENR 80-400 range PERFORMANCE CURVES — 4 Poles

(according to ISO 9906 Attachment A)



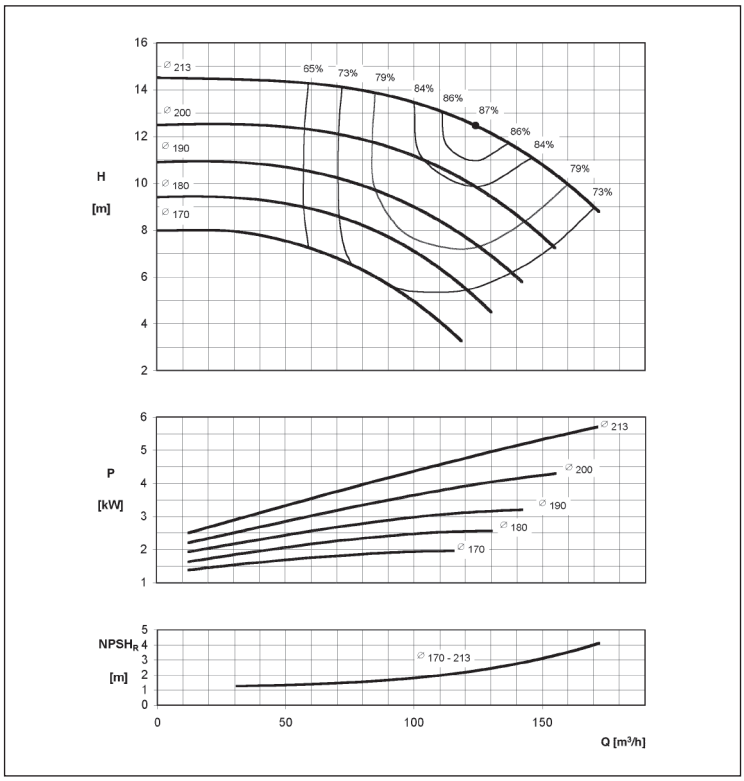
ENR 100-160 range PERFORMANCE CURVES — 4 Poles

(according to ISO 9906 Attachment A)



ENR 100-200 range PERFORMANCE CURVES — 4 Poles

(according to ISO 9906 Attachment A)



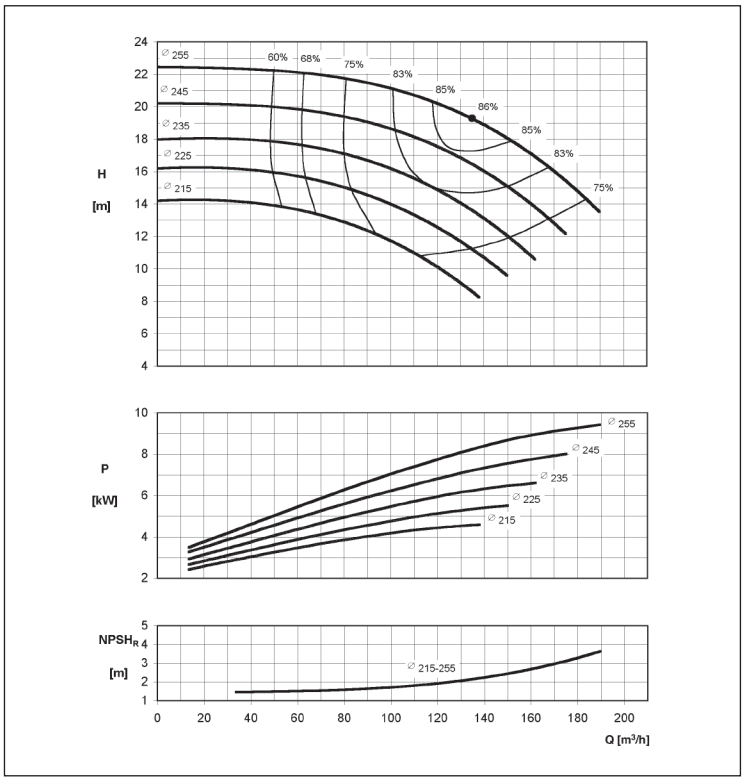
ENR

MONOBLOC CENTRIFUGAL ELECTRIC PUMP IN COMPLIANCE WITH EN 733

in cast iron

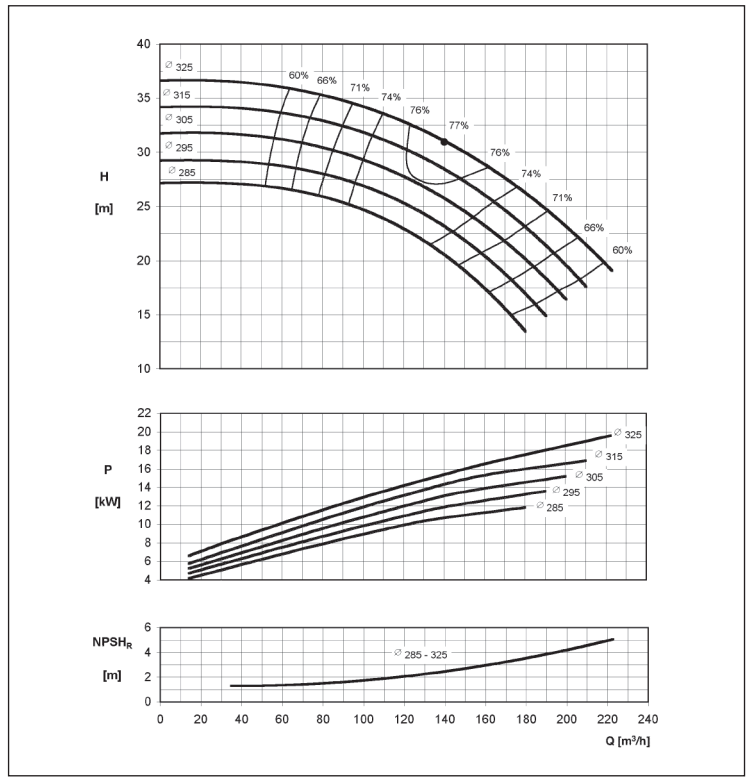
ENR 100-250 range PERFORMANCE CURVES — 4 Poles

(according to ISO 9906 Attachment A)



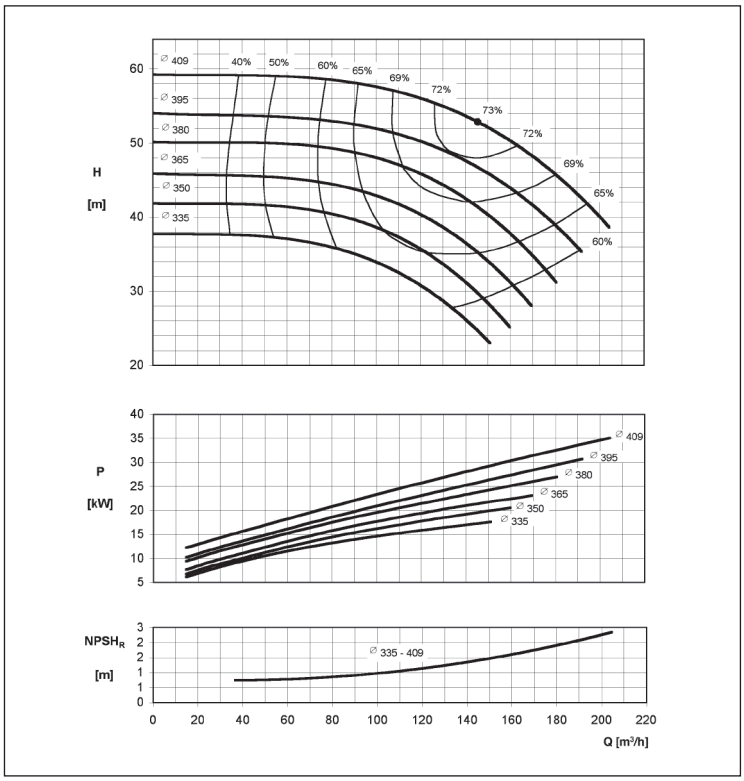
ENR 100-315 range PERFORMANCE CURVES — 4 Poles

(according to ISO 9906 Attachment A)



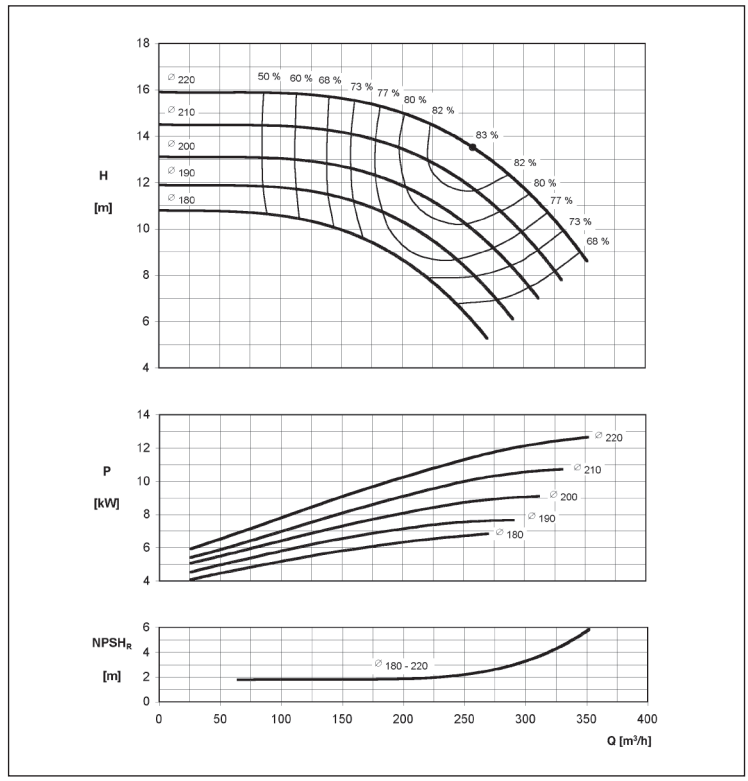
ENR 100-400 range PERFORMANCE CURVES — 4 Poles

(according to ISO 9906 Attachment A)



ENR 125-200 range PERFORMANCE CURVES — 4 Poles

(according to ISO 9906 Attachment A)



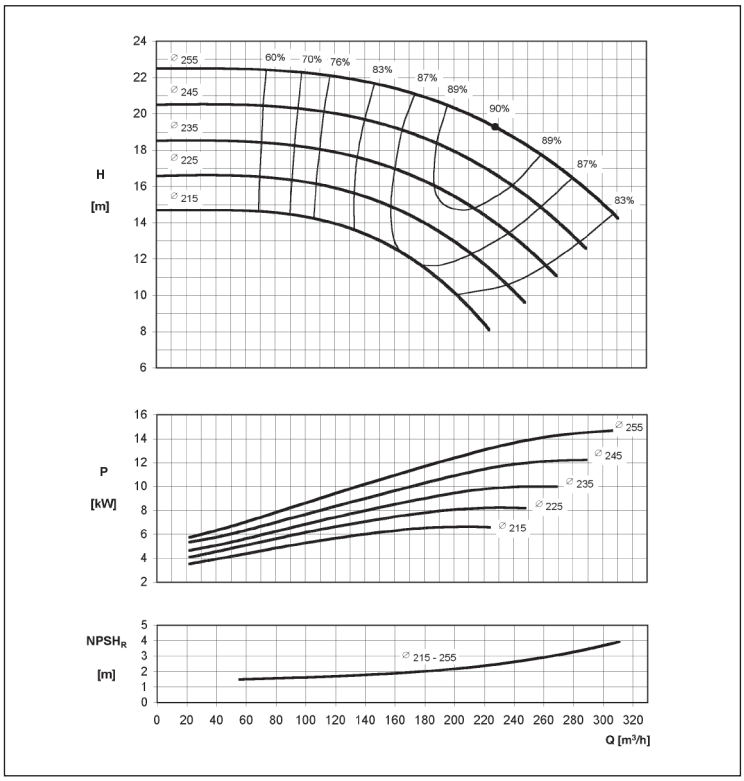
ENR

MONOBLOC CENTRIFUGAL ELECTRIC PUMP IN COMPLIANCE WITH EN 733

in cast iron

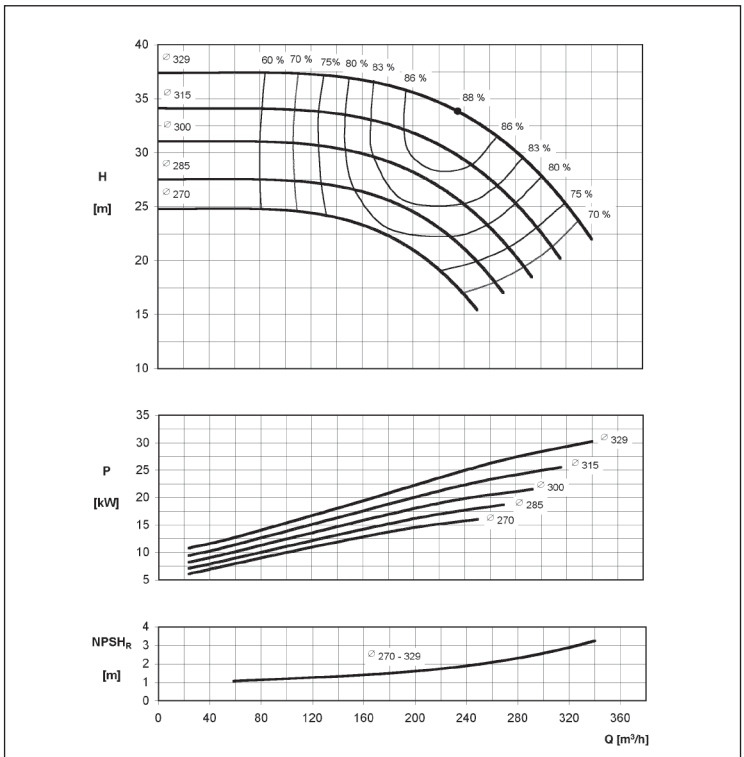
ENR 125-250 range PERFORMANCE CURVES — 4 Poles

(according to ISO 9906 Attachment A)



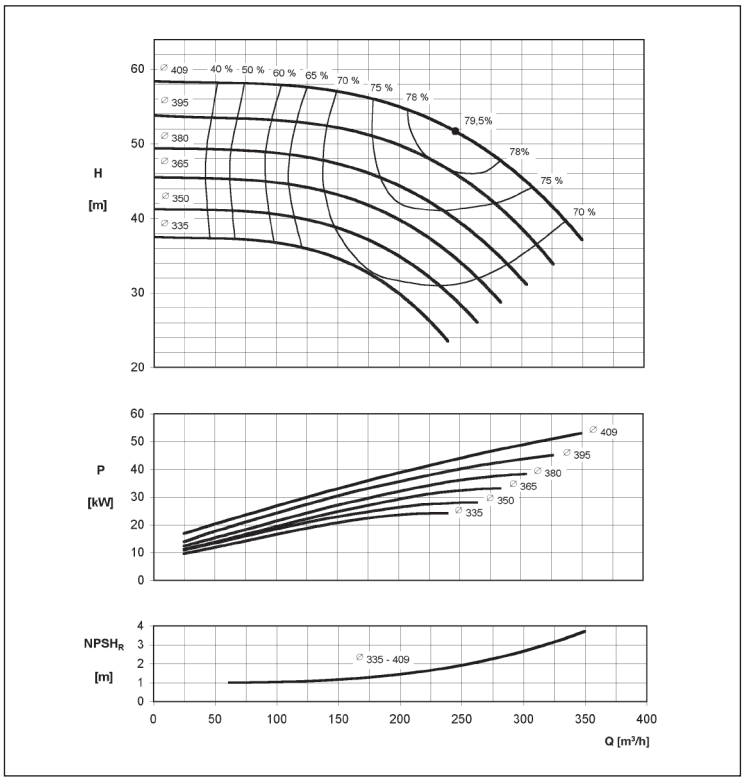
ENR 125-315 range PERFORMANCE CURVES — 4 Poles

(according to ISO 9906 Attachment A)



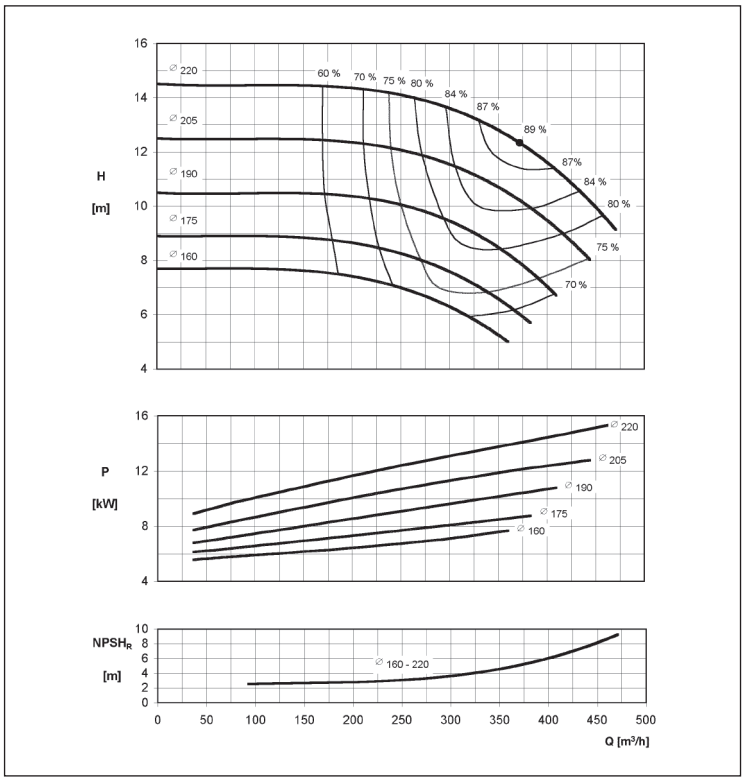
ENR 125-400 range PERFORMANCE CURVES — 4 Poles

(according to ISO 9906 Attachment A)



ENR 150-200 range PERFORMANCE CURVES — 4 Poles

(according to ISO 9906 Attachment A)



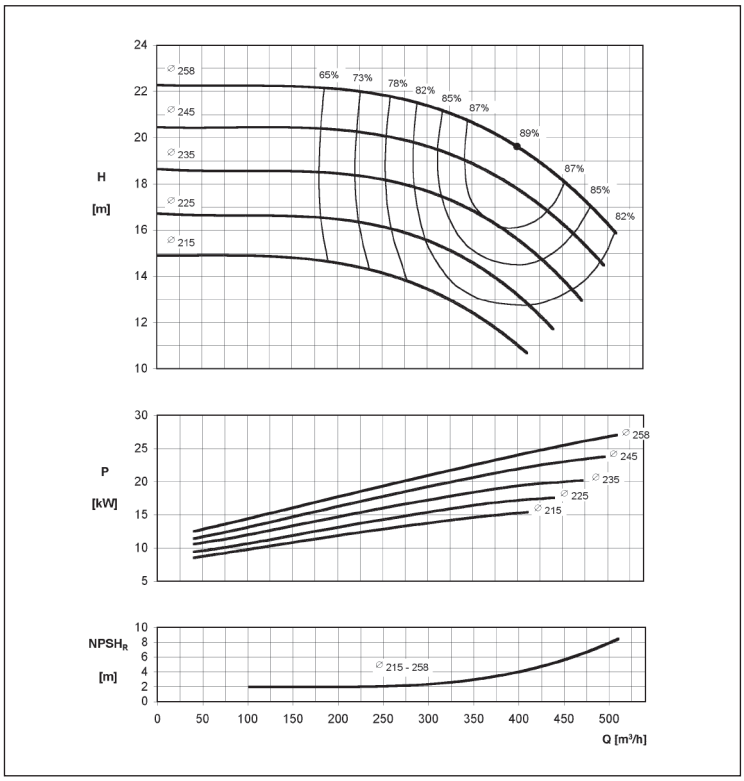
ENR

MONOBLOC CENTRIFUGAL ELECTRIC PUMP IN COMPLIANCE WITH EN 733

in cast iron

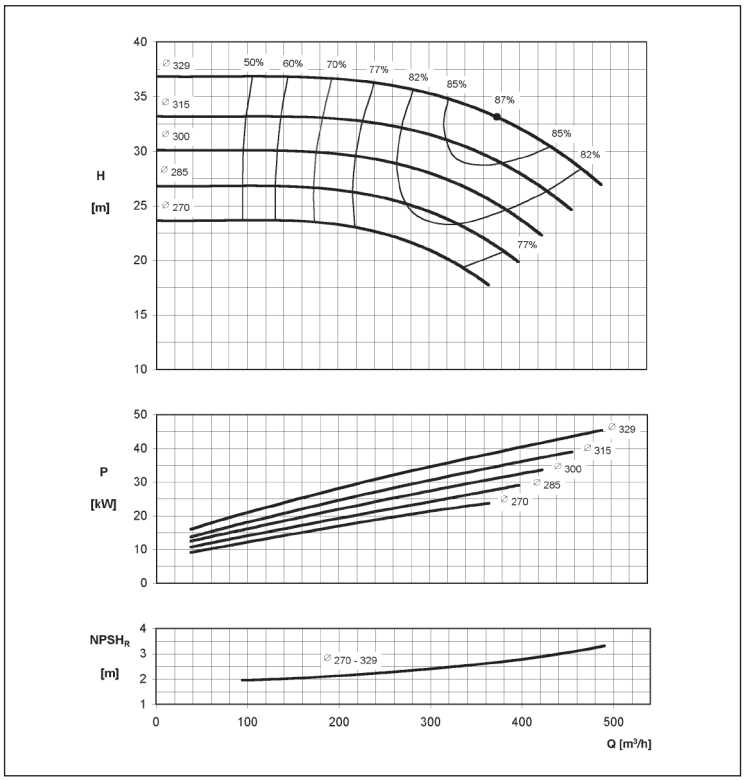
ENR 150-250 range PERFORMANCE CURVES — 4 Poles

(according to ISO 9906 Attachment A)



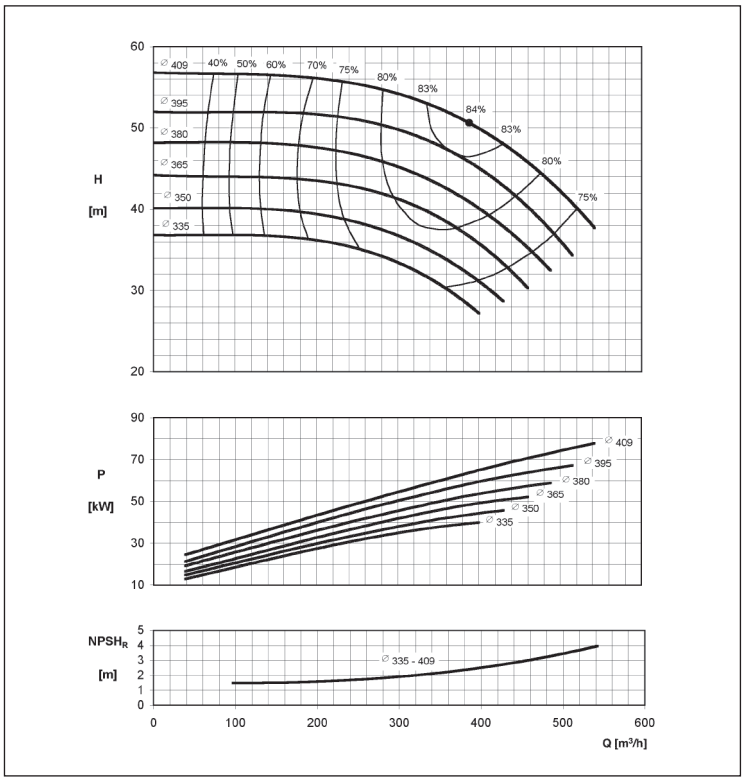
ENR 150-315 range PERFORMANCE CURVES — 4 Poles

(according to ISO 9906 Attachment A)



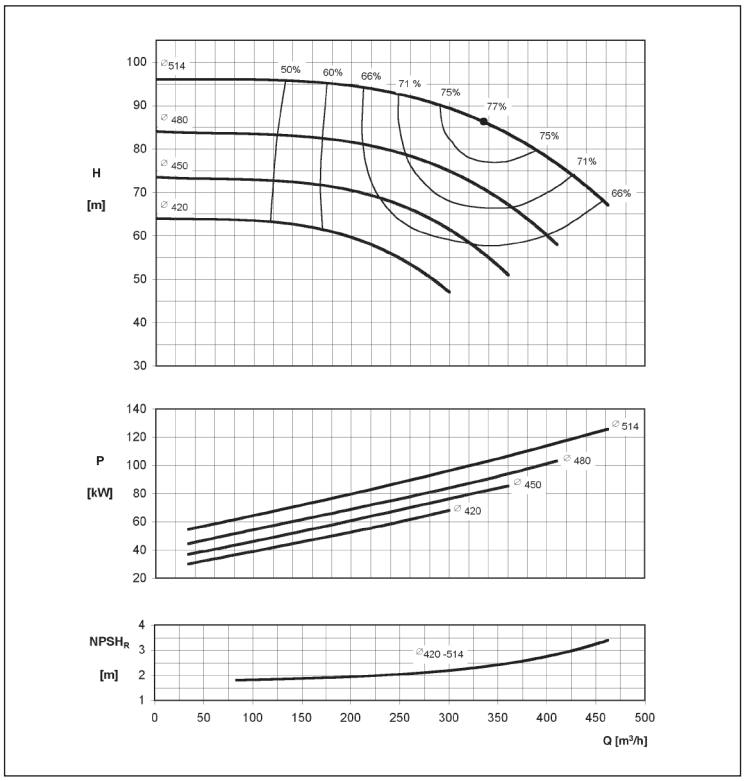
ENR 150-400 range PERFORMANCE CURVES — 4 Poles

(according to ISO 9906 Attachment A)



ENR 150-500 range PERFORMANCE CURVES — 4 Poles

(according to ISO 9906 Attachment A)



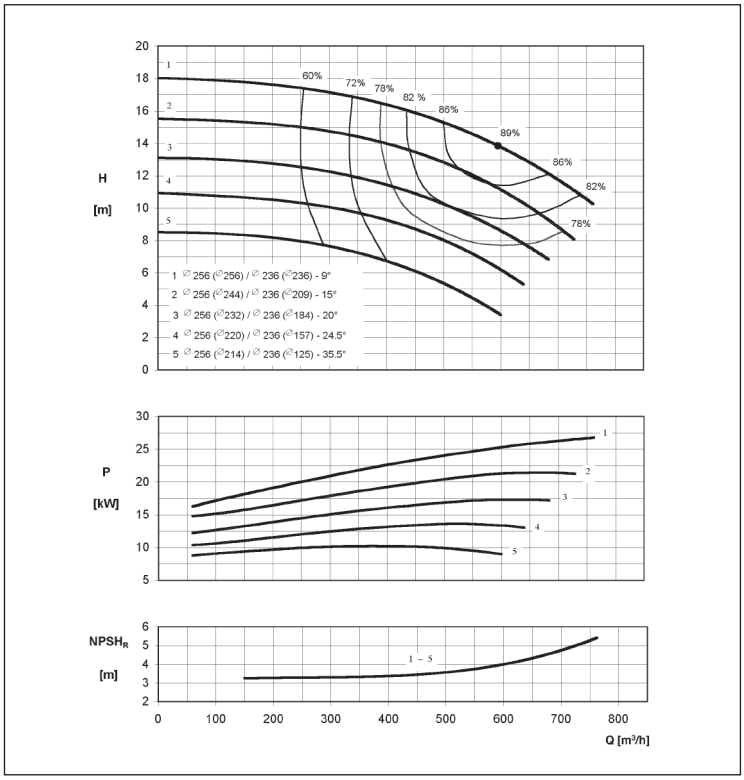
ENR

MONOBLOC CENTRIFUGAL ELECTRIC PUMP IN COMPLIANCE WITH EN 733

in cast iron

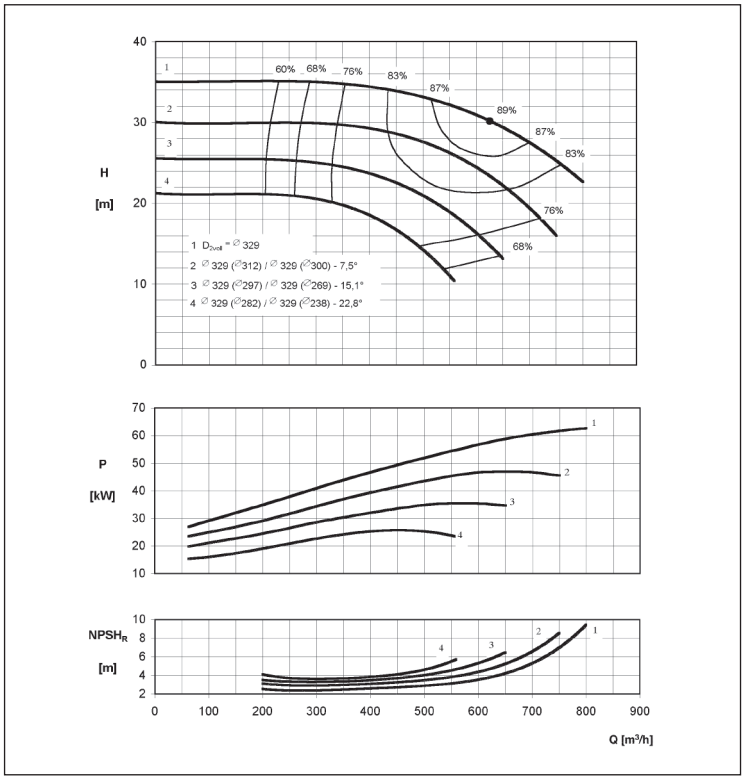
ENR 200-250 range PERFORMANCE CURVES — 4 Poles

(according to ISO 9906 Attachment A)



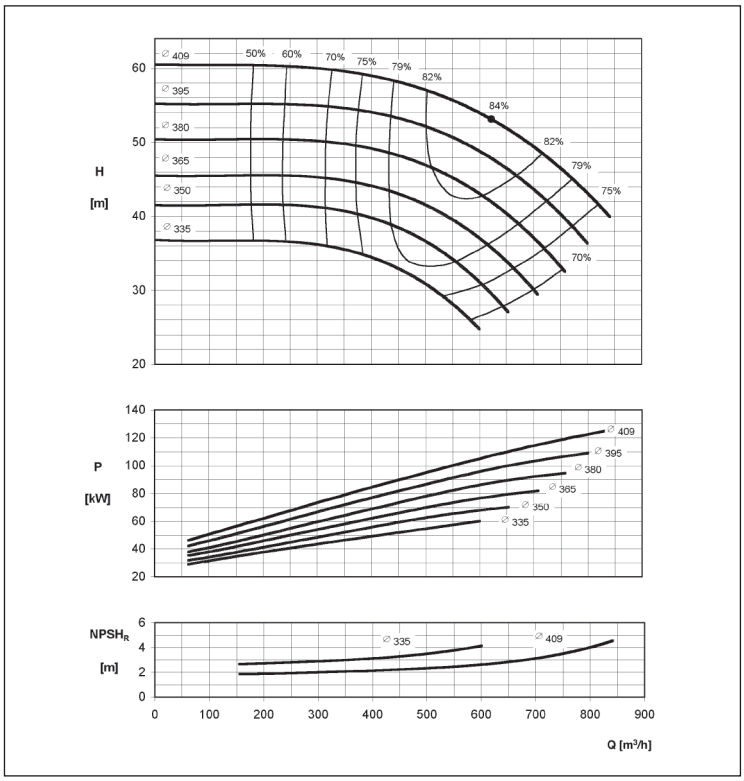
ENR 200-315 range PERFORMANCE CURVES — 4 Poles

(according to ISO 9906 Attachment A)



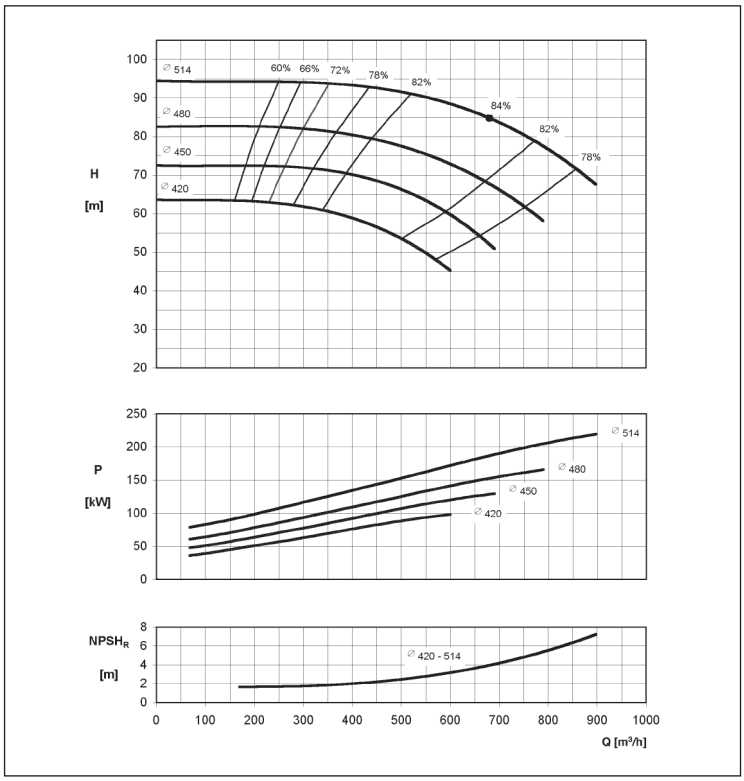
ENR 200-400 range PERFORMANCE CURVES — 4 Poles

(according to ISO 9906 Attachment A)



ENR 200-500 range PERFORMANCE CURVES — 4 Poles

(according to ISO 9906 Attachment A)



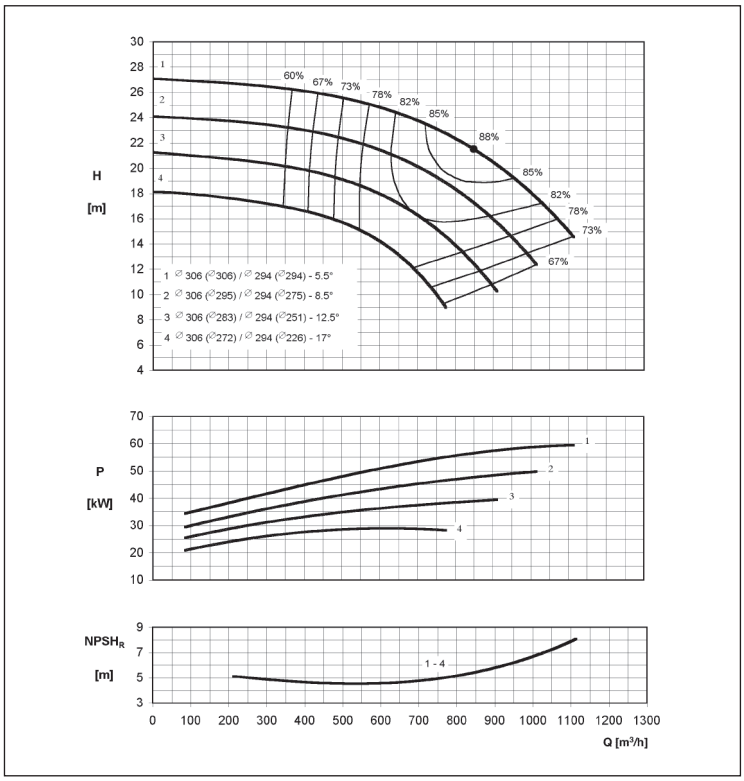
ENR

MONOBLOC CENTRIFUGAL ELECTRIC PUMP IN COMPLIANCE WITH EN 733

in cast iron

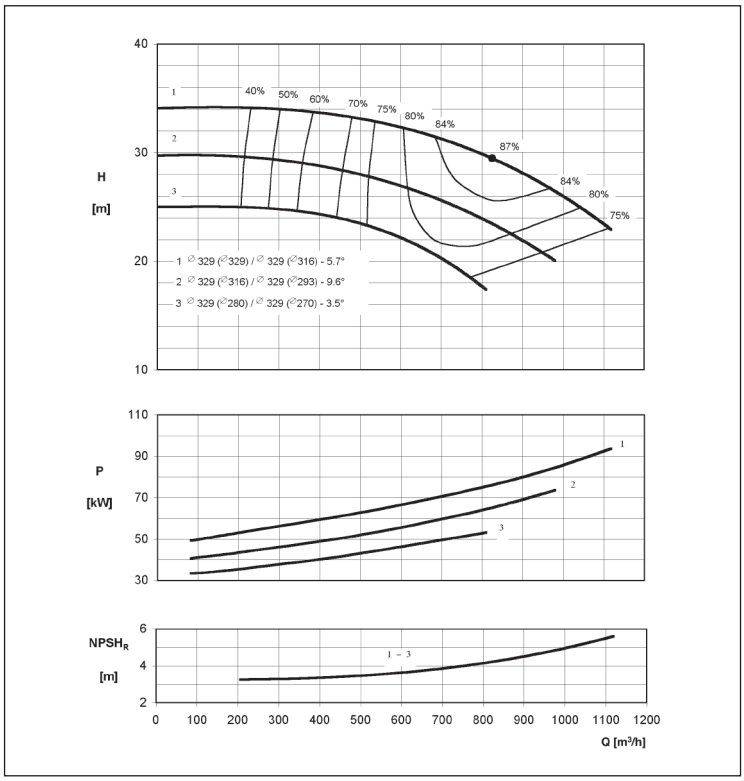
ENR 250-300 range PERFORMANCE CURVES — 4 Poles

(according to ISO 9906 Attachment A)



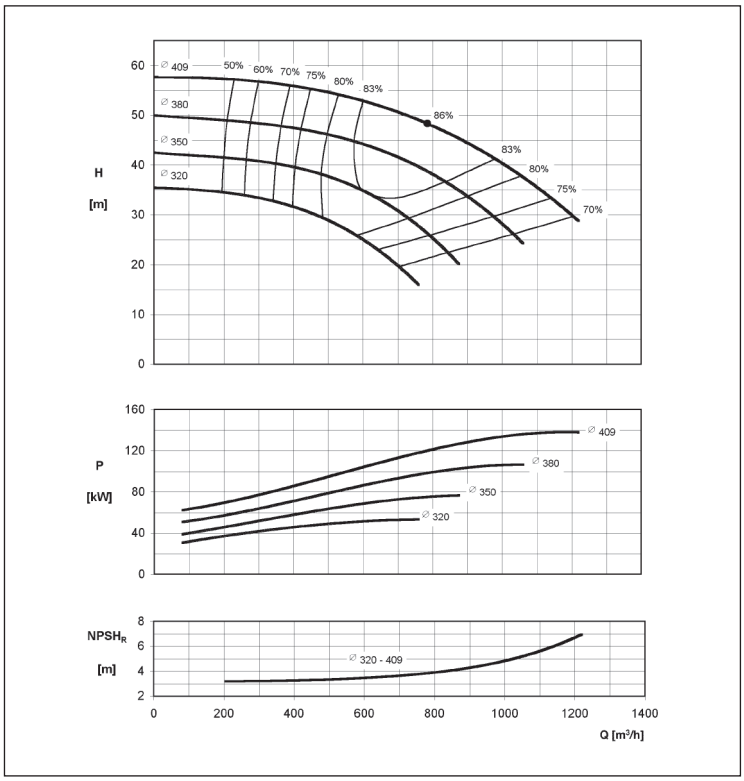
ENR 250-315 range PERFORMANCE CURVES — 4 Poles

(according to ISO 9906 Attachment A)



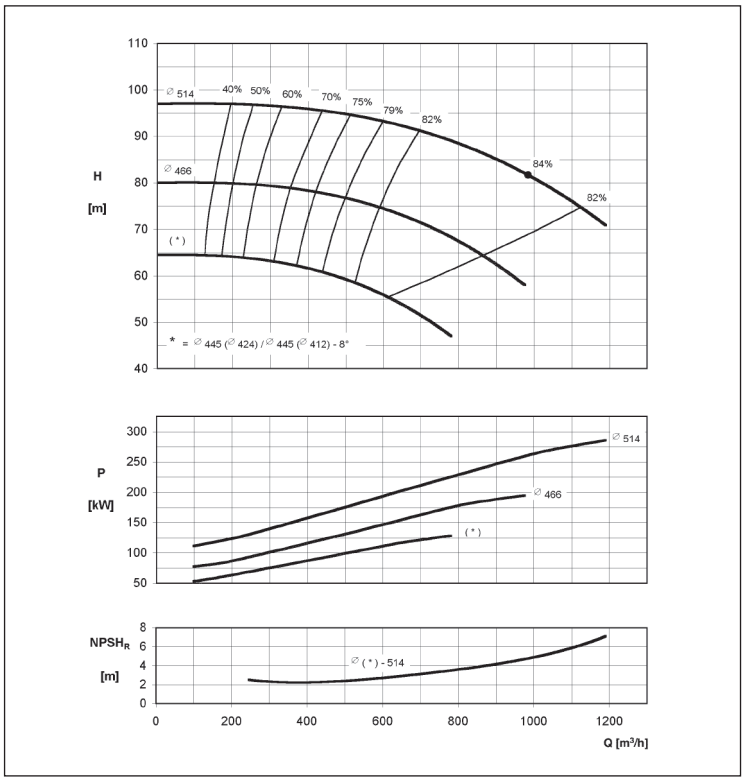
ENR 250-400 range PERFORMANCE CURVES — 4 Poles

(according to ISO 9906 Attachment A)



ENR 250-500 range PERFORMANCE CURVES — 4 Poles

(according to ISO 9906 Attachment A)



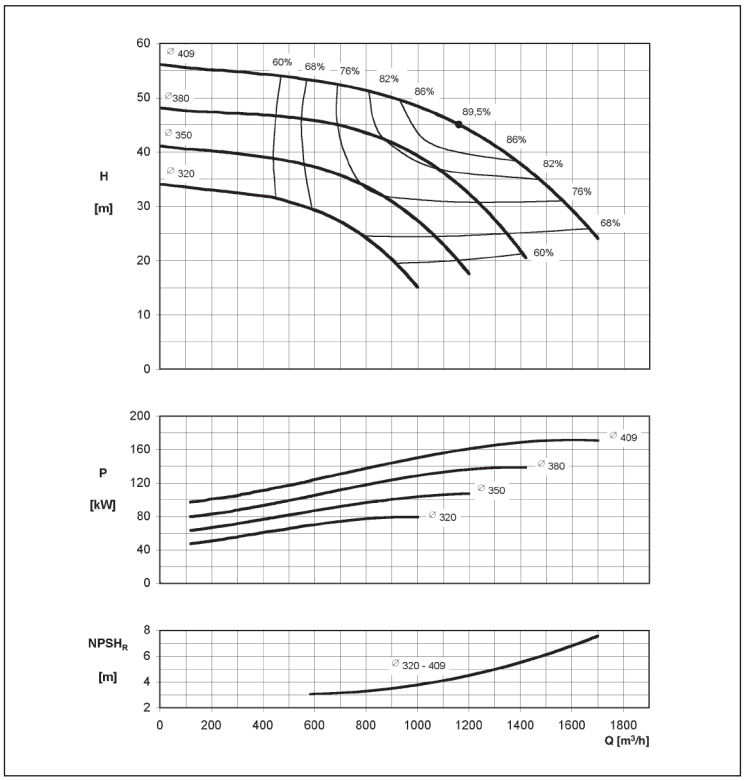
ENR

MONOBLOC CENTRIFUGAL ELECTRIC PUMP IN COMPLIANCE WITH EN 733

in cast iron

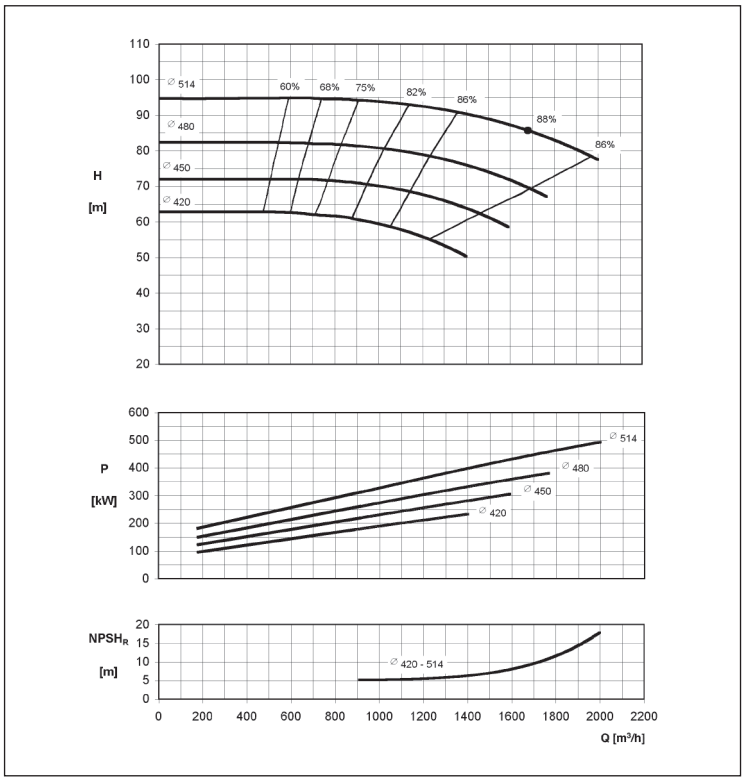
ENR 300-400 range PERFORMANCE CURVES — 4 Poles

(according to ISO 9906 Attachment A)



ENR 300-500 range PERFORMANCE CURVES — 4 Poles

(according to ISO 9906 Attachment A)

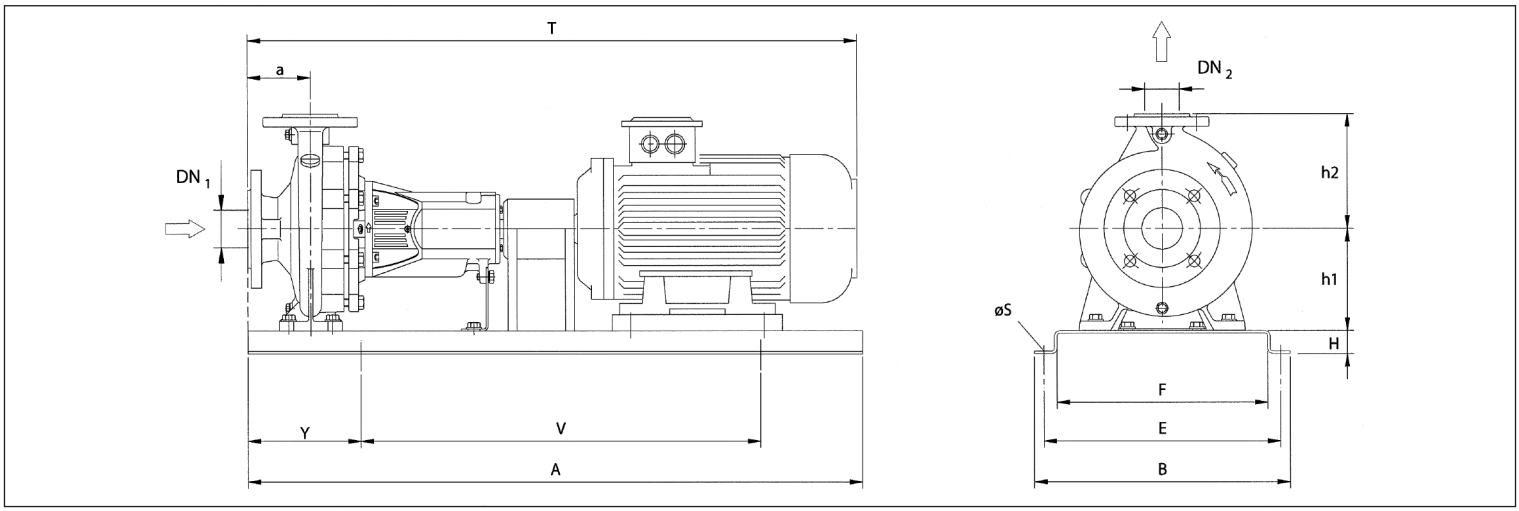


ENR

MONOBLOC CENTRIFUGAL ELECTRIC PUMP IN COMPLIANCE WITH EN 733

in cast iron

ENR DIMENSIONS



ENR 32-40 DIMENSIONS TABLE

Model	Motor [kW]		Size	Dimensions [mm]															
	2 Poles	4 Poles		DN2	DN1	a	h2	h1	A	B	F	Y	Standard joint V	E	H	S	T	[kg]
ENR 32-125	-	0,37	71	32	50	80	140	112	900	390	300	150	600	350	50	18	714	70,0
ENR 32-125	-	0,55	80	32	50	80	140	112	900	390	300	150	600	350	50	18	714	70,0
ENR 32-125	-	0,75	80	32	50	80	140	112	900	390	300	150	600	350	50	18	714	70,0
ENR 32-125	0,75	-	80	32	50	80	140	112	900	390	300	150	600	350	50	18	714	70,0
ENR 32-125	1,1	-	80	32	50	80	140	112	900	390	300	150	600	350	50	18	714	70,0
ENR 32-125	1,5	-	90S	32	50	80	140	112	900	390	300	150	600	350	50	18	764	73,0
ENR 32-125	2,2	-	90L	32	50	80	140	112	900	390	300	150	600	350	50	18	764	76,0
ENR 32-160	-	0,37	71	32	50	80	160	132	900	390	300	150	600	350	50	18	714	71,0
ENR 32-160	-	0,55	80	32	50	80	160	132	900	390	300	150	600	350	50	18	714	71,0
ENR 32-160	-	0,75	80	32	50	80	160	132	900	390	300	150	600	350	50	18	714	71,0
ENR 32-160	1,5	-	90S	32	50	80	160	132	900	390	300	150	600	350	50	18	764	74,0
ENR 32-160	2,2	-	90L	32	50	80	160	132	900	390	300	150	600	350	50	18	764	77,0
ENR 32-160	3	-	100L	32	50	80	160	132	900	390	300	150	600	350	50	18	844	87,0
ENR 32-160	4	-	112	32	50	80	160	132	900	490	380	150	600	440	50	18	844	99,0
ENR 32-160	5,5	-	132S	32	50	80	160	132	900	490	380	150	600	440	50	18	926	110,0
ENR 32-200	-	0,55	80	32	50	80	180	160	900	390	300	150	600	350	50	18	714	79,0
ENR 32-200	-	0,75	80	32	50	80	180	160	900	390	300	150	600	350	50	18	714	79,0
ENR 32-200	-	1,1	90S	32	50	80	180	160	900	390	300	150	600	350	50	18	764	82,0
ENR 32-200	-	1,5	90L	32	50	80	180	160	900	390	300	150	600	350	50	18	764	84,0
ENR 32-200	2,2	-	90L	32	50	80	180	160	900	390	300	150	600	350	50	18	764	84,0
ENR 32-200	3	-	100L	32	50	80	180	160	900	390	300	150	600	350	50	18	844	91,0
ENR 32-200	4	-	112	32	50	80	180	160	900	490	380	150	600	440	50	18	844	103,0
ENR 32-200	5,5	-	132S	32	50	80	180	160	900	490	380	150	600	440	50	18	926	121,0
ENR 32-200	7,5	-	132S	32	50	80	180	160	900	490	380	150	600	440	50	18	926	121,0
ENR 32-200	11	-	160M	32	50	80	180	160	1120	490	380	190	740	440	50	22	1092	167,0
ENR 32-250	-	0,75	80	32	50	100	225	180	900	490	380	150	600	440	50	18	734	95,0
ENR 32-250	-	1,1	90S	32	50	100	225	180	900	490	380	150	600	440	50	18	784	98,0
ENR 32-250	-	1,5	90L	32	50	100	225	180	900	490	380	150	600	440	50	18	784	100,0
ENR 32-250	-	2,2	100L	32	50	100	225	180	900	490	380	150	600	440	50	18	864	111,0
ENR 32-250	-	3	100L	32	50	100	225	180	900	490	380	150	600	440	50	18	864	111,0
ENR 32-250	7,5	-	132S	32	50	100	225	180	900	490	380	150	600	440	50	18	946	132,0
ENR 32-250	11	-	160M	32	50	100	225	180	1120	610	480	190	740	550	50	22	1112	187,0
ENR 32-250	15	-	160M	32	50	100	225	180	1120	610	480	190	740	550	50	22	1112	187,0
ENR 32-250	18,5	-	160L	32	50	100	225	180	1120	610	480	190	740	550	50	22	1112	201,0
ENR 40-125	-	0,37	71	40	65	80	140	112	900	390	300	150	600	350	50	18	714	71,0
ENR 40-125	-	0,55	80	40	65	80	140	112	900	390	300	150	600	350	50	18	714	71,0
ENR 40-125	-	0,75	80	40	65	80	140	112	900	390	300	150	600	350	50	18	714	71,0
ENR 40-125	1,1	-	80	40	65	80	140	112	900	390	300	150	600	350	50	18	714	71,0
ENR 40-125	1,5	-	90S	40	65	80	140	112	900	390	300	150	600	350	50	18	764	74,0
ENR 40-125	2,2	-	90L	40	65	80	140	112	900	390	300	150	600	350	50	18	764	77,0
ENR 40-125	3	-	100L	40	65	80	140	112	900	390	300	150	600	350	50	18	844	87,0
ENR 40-125	5,5	-	132S	40	65	80	140	132	900	490	380	150	600	440	50	18	926	114,0

ENR

MONOBLOC CENTRIFUGAL ELECTRIC PUMP IN COMPLIANCE WITH EN 733

in cast iron

ENR 40-50 DIMENSIONS

Model	Motor [kW]		Size	Dimensions [mm]															
									Standard joint										
	2 Poles	4 Poles		DN2	DN1	a	h2	h1	A	B	F	Y	V	E	H	S	T	[kg]
ENR 40-160	-	0,37	71	40	65	80	160	132	900	390	300	150	600	350	50	18	714	77,0
ENR 40-160	-	0,55	80	40	65	80	160	132	900	390	300	150	600	350	50	18	714	77,0
ENR 40-160	-	0,75	80	40	65	80	160	132	900	390	300	150	600	350	50	18	714	77,0
ENR 40-160	-	1,1	90S	40	65	80	160	132	900	390	300	150	600	350	50	18	764	80,0
ENR 40-160	-	1,5	90L	40	65	80	160	132	900	390	300	150	600	350	50	18	764	82,0
ENR 40-160	1,5	-	90S	40	65	80	160	132	900	390	300	150	600	350	50	18	764	82,0
ENR 40-160	2,2	-	90L	40	65	80	160	132	900	390	300	150	600	350	50	18	764	83,0
ENR 40-160	3	-	100L	40	65	80	160	132	900	390	300	150	600	350	50	18	844	93,0
ENR 40-160	4	-	112	40	65	80	160	132	900	490	380	150	600	440	50	18	844	104,0
ENR 40-160	5,5	-	132S	40	65	80	160	132	900	490	380	150	600	440	50	18	926	115,0
ENR 40-200	-	0,55	80	40	65	100	180	160	900	490	380	150	600	440	50	18	734	84,0
ENR 40-200	-	0,75	80	40	65	100	180	160	900	490	380	150	600	440	50	18	734	84,0
ENR 40-200	-	1,1	90S	40	65	100	180	160	900	490	380	150	600	440	50	18	784	87,0
ENR 40-200	-	1,5	90L	40	65	100	180	160	900	490	380	150	600	440	50	18	784	89,0
ENR 40-200	3	-	100L	40	65	100	180	160	900	490	380	150	600	440	50	18	864	97,0
ENR 40-200	4	-	112	40	65	100	180	160	900	490	380	150	600	440	50	18	864	106,0
ENR 40-200	5,5	-	132S	40	65	100	180	160	900	490	380	150	600	440	50	18	946	121,0
ENR 40-200	7,5	-	132S	40	65	100	180	160	900	490	380	150	600	440	50	18	946	121,0
ENR 40-200	11	-	160M	40	65	100	180	160	1120	490	380	190	740	440	50	22	1112	167,0
ENR 40-200	15	-	160M	40	65	100	180	160	1120	490	380	190	740	440	50	22	1112	167,0
ENR 40-250	-	1,1	90S	40	65	100	225	180	900	490	380	150	600	440	50	18	784	98,0
ENR 40-250	-	1,5	90L	40	65	100	225	180	900	490	380	150	600	440	50	18	784	100,0
ENR 40-250	-	2,2	100L	40	65	100	225	180	900	490	380	150	600	440	50	18	864	111,0
ENR 40-250	-	3	100L	40	65	100	225	180	900	490	380	150	600	440	50	18	864	111,0
ENR 40-250	7,5	-	132S	40	65	100	225	180	900	490	380	150	600	440	50	18	946	12,0
ENR 40-250	11	-	160M	40	65	100	225	180	1120	490	380	190	740	440	50	22	1112	178,0
ENR 40-250	15	-	160M	40	65	100	225	180	1120	490	380	190	740	440	50	22	1112	178,0
ENR 40-250	18,5	-	160L	40	65	100	225	180	1120	610	480	190	740	550	50	22	1112	201,0
ENR 40-250	22	-	180M	40	65	100	225	180	1120	610	480	190	740	550	50	22	1150	224,0
ENR 40-315	-	2,2	100L	40	65	125	250	225	1120	610	480	190	740	550	50	22	999	171,0
ENR 40-315	-	3	100L	40	65	125	250	225	1120	610	480	190	740	550	50	22	999	171,0
ENR 40-315	-	4	112	40	65	125	250	225	1120	610	480	190	740	550	50	22	999	178,0
ENR 40-315	-	5,5	132S	40	65	125	250	225	1120	610	480	190	740	550	50	22	1081	189,0
ENR 40-315	15	-	160M	40	65	125	250	225	1400	610	480	230	940	550	75	26	1247	242,0
ENR 40-315	18,5	-	160L	40	65	125	250	225	1400	610	480	230	940	550	75	26	1247	256,0
ENR 40-315	22	-	180M	40	65	125	250	225	1400	610	480	230	940	550	75	26	1285	280,0
ENR 40-315	30	-	200L	40	65	125	250	225	1400	610	480	230	940	550	75	26	1322	345,0
ENR 40-315	37	-	200L	40	65	125	250	225	1400	610	480	230	940	550	75	26	1322	345,0
ENR 50-125	-	0,37	71	50	65	100	160	132	900	390	300	150	600	350	50	18	734	77,0
ENR 50-125	-	0,55	80	50	65	100	160	132	900	390	300	150	600	350	50	18	734	77,0
ENR 50-125	-	0,75	80	50	65	100	160	132	900	390	300	150	600	350	50	18	734	77,0
ENR 50-125	-	1,1	90S	50	65	100	160	132	900	390	300	150	600	350	50	18	784	80,0
ENR 50-125	1,5	-	90S	50	65	100	160	132	900	390	300	150	600	350	50	18	784	82,0
ENR 50-125	2,2	-	90L	50	65	100	160	132	900	390	300	150	600	350	50	18	784	83,0
ENR 50-125	3	-	100L	50	65	100	160	132	900	390	300	150	600	350	50	18	864	93,0
ENR 50-125	4	-	112	50	65	100	160	132	900	490	380	150	600	440	50	18	864	104,0
ENR 50-125	5,5	-	132S	50	65	100	160	132	900	490	380	150	600	440	50	18	946	115,0
ENR 50-125	7,5	-	132S	50	65	100	160	132	900	490	380	150	600	440	50	18	946	115,0
ENR 50-160	-	0,55	80	50	65	100	180	160	900	490	380	150	600	440	50	18	734	82,0
ENR 50-160	-	0,75	80	50	65	100	180	160	900	490	380	150	600	440	50	18	734	82,0
ENR 50-160	-	1,1	90S	50	65	100	180	160	900	490	380	150	600	440	50	18	784	85,0
ENR 50-160	-	2,2	100L	50	65	100	180	160	900	490	380	150	600	440	50	18	864	97,0
ENR 50-160	2,2	-	90L	50	65	100	180	160	900	490	380	150	600	440	50	18	784	87,0
ENR 50-160	3	-	100L	50	65	100	180	160	900	490	380	150	600	440	50	18	864	97,0
ENR 50-160	4	-	112	50	65	100	180	160	900	490	380	150	600	440	50	18	864	103,0
ENR 50-160	5,5	-	132S	50	65	100	180	160	900	490	380	150	600	440	50	18	946	119,0
ENR 50-160	7,5	-	132S	50	65	100	180	160	900	490	380	150	600	440	50	18	946	119,0
ENR 50-160	11	-	160M	50	65	100	180	160	1120	490	380	190	740	440	50	22	1112	165,0
ENR 50-160	15	-	160M	50	65	100	180	180	1120	490	380	190	740	440	50	22	1112	165,0

MONOBLOC CENTRIFUGAL ELECTRIC PUMP IN COMPLIANCE WITH EN 733

in cast iron

ENR 50-65 DIMENSIONS

Model	Motor [kW]		Size	Dimensions [mm]										Standard joint					
	2 Poles	4 Poles		DN2	DN1	a	h2	h1	A	B	F	Y	V	E	H	S	T	[kg]
ENR 50-200	-	1,1	90S	50	65	100	200	160	900	490	380	150	600	440	50	18	784	89,0
ENR 50-200	-	1,5	90L	50	65	100	200	160	900	490	380	150	600	440	50	18	784	92,0
ENR 50-200	-	2,2	100L	50	65	100	200	160	900	490	380	150	600	440	50	18	864	102,0
ENR 50-200	-	3	100L	50	65	100	200	160	900	490	380	150	600	440	50	18	864	102,0
ENR 50-200	-	4	112	50	65	100	200	160	900	490	380	150	600	440	50	18	864	109,0
ENR 50-200	3	-	100L	50	65	100	200	160	900	490	380	150	600	440	50	18	864	102,0
ENR 50-200	4	-	112	50	65	100	200	160	900	490	380	150	600	440	50	18	864	109,0
ENR 50-200	5,5	-	132S	50	65	100	200	160	900	490	380	150	600	440	50	18	946	123,0
ENR 50-200	7,5	-	132S	50	65	100	200	160	900	490	380	150	600	440	50	18	946	123,0
ENR 50-200	11	-	160M	50	65	100	200	160	1120	490	380	190	740	440	50	22	1112	169,0
ENR 50-200	15	-	160M	50	65	100	200	160	1120	490	380	190	740	440	50	22	1112	169,0
ENR 50-200	18,5	-	160L	50	65	100	200	160	1120	490	380	190	740	440	50	22	1112	183,0
ENR 50-200	22	-	180M	50	65	100	200	180	1120	610	480	190	740	550	50	22	1150	217,0
ENR 50-250	-	1,5	90L	50	65	100	225	180	900	490	380	150	600	440	50	18	784	107,0
ENR 50-250	-	2,2	100L	50	65	100	225	180	900	490	380	150	600	440	50	18	864	117,0
ENR 50-250	-	3	100L	50	65	100	225	180	900	490	380	150	600	440	50	18	864	117,0
ENR 50-250	-	4	112	50	65	100	225	180	900	490	380	150	600	440	50	18	864	123,0
ENR 50-250	-	5,5	132S	50	65	100	225	180	900	490	380	150	600	440	50	18	946	138,0
ENR 50-250	15	-	160M	50	65	100	225	180	1120	610	480	190	740	550	50	22	1112	194,0
ENR 50-250	18,5	-	160L	50	65	100	225	180	1120	610	480	190	740	550	50	22	1112	207,0
ENR 50-250	22	-	180M	50	65	100	225	180	1120	610	480	190	740	550	50	22	1150	232,0
ENR 50-250	30	-	200L	50	65	100	225	200	1120	610	480	190	740	550	50	22	1187	296,0
ENR 50-315	-	3	100L	50	65	125	280	225	1120	610	480	190	740	550	50	22	999	171,0
ENR 50-315	-	4	112	50	65	125	280	225	1120	610	480	190	740	550	50	22	999	178,0
ENR 50-315	-	5,5	132S	50	65	125	280	225	1120	610	480	190	740	550	50	22	1081	189,0
ENR 50-315	-	7,5	132M	50	65	125	280	225	1120	610	480	190	740	550	50	22	1081	199,0
ENR 50-315	22	-	180M	50	65	125	280	225	1400	610	480	230	940	550	75	26	1285	280,0
ENR 50-315	30	-	200L	50	65	125	280	225	1400	610	480	230	940	550	75	26	1322	345,0
ENR 50-315	37	-	200L	50	65	125	280	225	1400	610	480	230	940	550	75	26	1322	345,0
ENR 50-315	45	-	225M	50	65	125	280	225	1400	730	600	230	940	670	75	26	1429	404,0
ENR 50-315	55	-	250M	50	65	125	280	250	1600	660	530	270	1060	600	75	26	1429	438,0
ENR 50-315	75	-	280S	50	65	125	280	280	1800	730	600	300	1200	670	100	26	1559	572,0
ENR 65-125	-	0,55	80	65	80	100	180	160	900	490	380	150	600	440	50	18	734	80,0
ENR 65-125	-	0,75	80	65	80	100	180	160	900	490	380	150	600	440	50	18	734	80,0
ENR 65-125	-	1,1	90S	65	80	100	180	160	900	490	380	150	600	440	50	18	784	83,0
ENR 65-125	3	-	100L	65	80	100	180	160	900	490	380	150	600	440	50	18	864	95,0
ENR 65-125	4	-	112	65	80	100	180	160	900	490	380	150	600	440	50	18	864	102,0
ENR 65-125	5,5	-	132S	65	80	100	180	160	900	490	380	150	600	440	50	18	946	117,0
ENR 65-125	7,5	-	132S	65	80	100	180	160	900	490	380	150	600	440	50	18	946	117,0
ENR 65-125	11	-	160M	65	80	100	180	160	1120	490	380	190	740	440	50	22	1112	163,0
ENR 65-160	-	0,75	80	65	80	100	200	160	900	490	380	150	600	440	50	18	734	85,0
ENR 65-160	-	1,1	90S	65	80	100	200	160	900	490	380	150	600	440	50	18	784	88,0
ENR 65-160	-	1,5	90L	65	80	100	200	160	900	490	380	150	600	440	50	18	784	90,0
ENR 65-160	-	2,2	100L	65	80	100	200	160	900	490	380	150	600	440	50	18	864	100,0
ENR 65-160	5,5	-	132S	65	80	100	200	160	900	490	380	150	600	440	50	18	946	122,0
ENR 65-160	7,5	-	132S	65	80	100	200	160	900	490	380	150	600	440	50	18	946	122,0
ENR 65-160	11	-	160M	65	80	100	200	160	1120	490	380	190	740	440	50	22	1112	168,0
ENR 65-160	15	-	160M	65	80	100	200	160	1120	490	380	190	740	440	50	22	1112	168,0
ENR 65-160	18,5	-	160L	65	80	100	200	160	1120	490	380	190	740	440	50	22	1112	182,0
ENR 65-200	-	1,1	90S	65	80	100	225	180	900	490	380	150	600	440	50	18	784	98,0
ENR 65-200	-	1,5	90L	65	80	100	225	180	900	490	380	150	600	440	50	18	784	100,0
ENR 65-200	-	2,2	100L	65	80	100	225	180	900	490	380	150	600	440	50	18	864	110,0
ENR 65-200	-	3	100L	65	80	100	225	180	900	490	380	150	600	440	50	18	864	110,0
ENR 65-200	-	4	112	65	80	100	225	180	900	490	380	150	600	440	50	18	864	116,0
ENR 65-200	-	5,5	132S	65	80	100	225	180	900	490	380	150	600	440	50	18	946	131,0
ENR 65-200	11	-	160M	65	80	100	225	180	1120	610	480	190	740	550	50	22	1112	186,0
ENR 65-200	15	-	160M	65	80	100	225	180	1120	610	480	190	740	550	50	22	1112	186,0
ENR 65-200	18,5	-	160L	65	80	100	225	180	1120	610	480	190	740	550	50	22	1112	200,0
ENR 65-200	22	-	180M	65	80	100	225	180	1120	610	480	190	740	550	50	22	1150	225,0
ENR 65-200	30	-	200L	65	80	100	225	200	1120	610	480	190	740	550	50	22	1187	288,0

ENR

MONOBLOC CENTRIFUGAL ELECTRIC PUMP IN COMPLIANCE WITH EN 733

in cast iron

ENR 65-80 DIMENSIONS

Model	Motor [kW]		Size	Dimensions [mm]															
									Standard joint										
	2 Poles	4 Poles		DN2	DN1	a	h2	h1	A	B	F	Y	V	E	H	S	T	[kg]
ENR 65-250	-	2,2	100L	65	80	100	250	200	1120	610	480	190	740	550	50	22	974	163,0
ENR 65-250	-	3	100L	65	80	100	250	200	1120	610	480	190	740	550	50	22	974	163,0
ENR 65-250	-	4	112	65	80	100	250	200	1120	610	480	190	740	550	50	22	974	169,0
ENR 65-250	-	5,5	132S	65	80	100	250	200	1120	610	480	190	740	550	50	22	1056	184,0
ENR 65-250	-	7,5	132M	65	80	100	250	200	1120	610	480	190	740	550	50	22	1056	194,0
ENR 65-250	18,5	-	160L	65	80	100	250	200	1400	610	480	230	940	550	75	26	1222	249,0
ENR 65-250	22	-	180M	65	80	100	250	200	1400	610	480	230	940	550	75	26	1260	273,0
ENR 65-250	30	-	200L	65	80	100	250	200	1400	610	480	230	940	550	75	26	1297	337,0
ENR 65-250	37	-	200L	65	80	100	250	200	1400	610	480	230	940	550	75	26	1297	337,0
ENR 65-250	45	-	225M	65	80	100	250	225	1400	730	600	230	940	670	75	26	1404	396,0
ENR 65-315	-	5,5	132S	65	80	125	280	225	1120	610	480	190	740	550	50	22	1081	203,0
ENR 65-315	-	7,5	132M	65	80	125	280	225	1120	610	480	190	740	550	50	22	1081	211,0
ENR 65-315	-	11	160M	65	80	125	280	225	1400	610	480	230	940	550	75	26	1247	254,0
ENR 65-315	-	15	160L	65	80	125	280	225	1400	610	480	230	940	550	75	26	1247	268,0
ENR 80-160	-	0,75	80	80	100	125	225	180	900	490	380	150	600	440	50	18	759	90,0
ENR 80-160	-	1,1	90S	80	100	125	225	180	900	490	380	150	600	440	50	18	809	93,0
ENR 80-160	-	1,5	90L	80	100	125	225	180	900	490	380	150	600	440	50	18	809	95,0
ENR 80-160	-	2,2	100L	80	100	125	225	180	900	490	380	150	600	440	50	18	889	105,0
ENR 80-160	-	3	100L	80	100	125	225	180	900	490	380	150	600	440	50	18	889	105,0
ENR 80-160	-	4	112	80	100	125	225	180	900	490	380	150	600	440	50	18	889	112,0
ENR 80-160	7,5	-	132S	80	100	125	225	180	1120	490	380	190	740	440	50	22	971	143,0
ENR 80-160	11	-	160M	80	100	125	225	180	1120	610	480	190	740	550	50	22	1137	182,0
ENR 80-160	15	-	160M	80	100	125	225	180	1120	610	480	190	740	550	50	22	1137	182,0
ENR 80-160	18,5	-	160L	80	100	125	225	180	1120	610	480	190	740	550	50	22	1137	196,0
ENR 80-160	22	-	180M	80	100	125	225	180	1120	610	480	190	740	550	50	22	1175	220,0
ENR 80-160	30	-	200L	80	100	125	225	200	1120	610	480	190	740	550	50	22	1212	284,0
ENR 80-200	-	2,2	100L	80	100	125	250	180	1120	610	480	190	740	550	50	22	999	152,0
ENR 80-200	-	3	100L	80	100	125	250	180	1120	610	480	190	740	550	50	22	999	152,0
ENR 80-200	-	4	112	80	100	125	250	180	1120	610	480	190	740	550	50	22	999	159,0
ENR 80-200	-	5,5	132S	80	100	125	250	180	1120	610	480	190	740	550	50	22	1081	170,0
ENR 80-200	15	-	160M	80	100	125	250	180	1400	610	480	230	940	550	75	26	1247	224,0
ENR 80-200	18,5	-	160L	80	100	125	250	180	1400	610	480	230	940	550	75	26	1247	238,0
ENR 80-200	22	-	180M	80	100	125	250	180	1400	610	480	230	940	550	75	26	1285	262,0
ENR 80-200	30	-	200L	80	100	125	250	200	1400	610	480	230	940	550	75	26	1322	327,0
ENR 80-200	37	-	200L	80	100	125	250	200	1400	610	480	230	940	550	75	26	1322	327,0
ENR 80-200	45	-	225M	80	100	125	250	225	1400	730	600	230	940	670	75	26	1429	385,0
ENR 80-250	-	3	100L	80	100	125	280	200	1120	610	480	190	740	550	50	22	999	167,0
ENR 80-250	-	4	112	80	100	125	280	200	1120	610	480	190	740	550	50	22	999	174,0
ENR 80-250	-	5,5	132S	80	100	125	280	200	1120	610	480	190	740	550	50	22	1081	185,0
ENR 80-250	-	7,5	132M	80	100	125	280	200	1120	610	480	190	740	550	50	22	1081	193,0
ENR 80-250	-	11	160M	80	100	125	280	200	1400	610	480	230	940	550	75	26	1247	236,0
ENR 80-250	22	-	180M	80	100	125	280	200	1400	610	480	230	940	550	75	26	1285	275,0
ENR 80-250	30	-	200L	80	100	125	280	200	1400	610	480	230	940	550	75	26	1322	338,0
ENR 80-250	37	-	200L	80	100	125	280	200	1400	610	480	230	940	550	75	26	1322	338,0
ENR 80-250	45	-	225M	80	100	125	280	225	1400	730	600	230	940	670	75	26	1429	397,0
ENR 80-250	55	-	250M	80	100	125	280	250	1600	660	530	270	1060	600	75	26	1429	431,0
ENR 80-250	75	-	280S	80	100	125	280	280	1800	730	600	300	1200	670	100	26	1559	565,0
ENR 80-315	-	5,5	132S	80	100	125	315	250	1120	610	480	190	740	550	50	22	1081	196,0
ENR 80-315	-	7,5	132M	80	100	125	315	250	1120	610	480	190	740	550	50	22	1081	204,0
ENR 80-315	-	11	160M	80	100	125	315	250	1400	610	480	230	940	550	75	26	1247	248,0
ENR 80-315	-	15	160L	80	100	125	315	250	1400	610	480	230	940	550	75	26	1247	262,0
ENR 80-315	-	18,5	180M	80	100	125	315	250	1400	610	480	230	940	550	75	26	1285	286,0
ENR 80-315	-	22	180L	80	100	125	315	250	1400	610	480	230	940	550	75	26	1322	325,0
ENR 80-315	-	30	200L	80	100	125	315	250	1400	730	600	230	940	670	75	26	1322	364,0

MONOBLOC CENTRIFUGAL ELECTRIC PUMP IN COMPLIANCE WITH EN 733

in cast iron

ENR 80-100-125 DIMENSIONS

Model	Motor [kW]		Size	Dimensions [mm]															
													Standard joint						
	2 Poles	4 Poles		DN2	DN1	a	h2	h1	A	B	F	Y	V	E	H	S	T	[kg]
ENR 80-400	-	11	160M	80	125	125	355	280	1400	610	480	230	940	550	75	26	1307	356,0
ENR 80-400	-	15	160L	80	125	125	355	280	1400	610	480	230	940	550	75	26	1307	369,0
ENR 80-400	-	18,5	180M	80	125	125	355	280	1400	610	480	230	940	550	75	26	1345	392,0
ENR 80-400	-	22	180L	80	125	125	355	280	1400	610	480	230	940	550	75	26	1382	428,0
ENR 80-400	-	30	200L	80	125	125	355	280	1400	730	600	230	940	670	75	26	1382	452,0
ENR 100-160	-	2,2	100L	100	125	125	280	200	1120	610	480	190	740	550	50	22	999	155,0
ENR 100-160	-	3	100L	100	125	125	280	200	1120	610	480	190	740	550	50	22	999	155,0
ENR 100-160	-	4	112	100	125	125	280	200	1120	610	480	190	740	550	50	22	999	162,0
ENR 100-160	-	5,5	132S	100	125	125	280	200	1120	610	480	190	740	550	50	22	1081	173,0
ENR 100-160	18,5	-	160L	100	125	125	280	200	1400	610	480	230	940	550	75	26	1247	242,0
ENR 100-160	22	-	180M	100	125	125	280	200	1400	610	480	230	940	550	75	26	1285	266,0
ENR 100-160	30	-	200L	100	125	125	280	200	1400	610	480	230	940	550	75	26	1322	330,0
ENR 100-160	37	-	200L	100	125	125	280	200	1400	610	480	230	940	550	75	26	1322	330,0
ENR 100-200	-	2,2	100L	100	125	125	280	200	1120	610	480	190	740	550	50	22	999	159,0
ENR 100-200	-	3	100L	100	125	125	280	200	1120	610	480	190	740	550	50	22	999	159,0
ENR 100-200	-	4	112	100	125	125	280	200	1120	610	480	190	740	550	50	22	999	165,0
ENR 100-200	-	5,5	132S	100	125	125	280	200	1120	610	480	190	740	550	50	22	1081	176,0
ENR 100-200	-	7,5	132M	100	125	125	280	200	1120	610	480	190	740	550	50	22	1081	186,0
ENR 100-200	18,5	-	160L	100	125	125	280	200	1400	610	480	230	940	550	75	26	1247	245,0
ENR 100-200	22	-	180M	100	125	125	280	200	1400	610	480	230	940	550	75	26	1285	269,0
ENR 100-200	30	-	200L	100	125	125	280	200	1400	610	480	230	940	550	75	26	1322	333,0
ENR 100-200	37	-	200L	100	125	125	280	200	1400	610	480	230	940	550	75	26	1322	333,0
ENR 100-200	45	-	225M	100	125	125	280	225	1400	730	600	230	940	670	75	26	1429	392,0
ENR 100-200	75	-	280S	100	125	125	280	280	1800	730	600	300	1200	670	100	26	1559	560,0
ENR 100-250	-	4	112	100	125	140	280	225	1120	610	480	190	740	550	50	22	1014	190,0
ENR 100-250	-	5,5	132S	100	125	140	280	225	1120	610	480	190	740	550	50	22	1096	201,0
ENR 100-250	-	7,5	132M	100	125	140	280	225	1120	610	480	190	740	550	50	22	1096	209,0
ENR 100-250	-	11	160M	100	125	140	280	225	1400	610	480	230	940	550	75	26	1262	252,0
ENR 100-250	-	15	160L	100	125	140	280	225	1400	610	480	230	940	550	75	26	1262	266,0
ENR 100-250	30	-	200L	100	125	140	280	225	1400	730	600	230	940	670	75	26	1337	368,0
ENR 100-250	37	-	200L	100	125	140	280	225	1400	730	600	230	940	670	75	26	1337	368,0
ENR 100-250	45	-	225M	100	125	140	280	225	1600	660	530	270	1060	600	75	26	1444	417,0
ENR 100-250	55	-	250M	100	125	140	280	250	1600	660	530	270	1060	600	75	26	1444	447,0
ENR 100-250	75	-	280S	100	125	140	280	280	1800	730	600	300	1200	670	100	26	1574	581,0
ENR 100-250	90	-	280M	100	125	140	280	280	1800	730	600	300	1200	670	100	26	1574	627,0
ENR 100-315	-	11	160M	100	125	140	315	250	1400	610	480	230	940	550	75	26	1262	270,0
ENR 100-315	-	15	160L	100	125	140	315	250	1400	610	480	230	940	550	75	26	1262	284,0
ENR 100-315	-	18,5	180M	100	125	140	315	250	1400	610	480	230	940	550	75	26	1300	309,0
ENR 100-315	-	22	180L	100	125	140	315	250	1400	610	480	230	940	550	75	26	1337	347,0
ENR 100-315	-	30	200L	100	125	140	315	250	1400	730	600	230	940	670	75	26	1337	386,0
ENR 100-400	-	15	160L	100	125	140	355	280	1400	730	600	230	940	670	75	26	1322	373,0
ENR 100-400	-	18,5	180M	100	125	140	355	280	1400	730	600	230	940	670	75	26	1360	398,0
ENR 100-400	-	22	180L	100	125	140	355	280	1400	730	600	230	940	670	75	26	1397	436,0
ENR 100-400	-	30	200L	100	125	140	355	280	1400	730	600	230	940	670	75	26	1397	462,0
ENR 100-400	-	37	225S	100	125	140	355	280	1400	730	600	230	940	670	75	26	1504	503,0
ENR 100-400	-	45	225M	100	125	140	355	280	1400	730	600	230	940	670	75	26	1504	521,0
ENR 125-200	-	7,5	132M	125	150	140	315	250	1120	610	480	190	740	550	50	22	1096	223,0
ENR 125-200	-	11	160M	125	150	140	315	250	1400	610	480	230	940	550	75	26	1262	267,0
ENR 125-200	-	15	160L	125	150	140	315	250	1400	610	480	230	940	550	75	26	1262	281,0
ENR 125-200	37	-	200L	125	150	140	315	250	1400	730	600	230	940	670	75	26	1337	383,0
ENR 125-200	45	-	225M	125	150	140	315	250	1600	660	530	270	1060	600	75	26	1444	432,0
ENR 125-200	55	-	250M	125	150	140	315	250	1600	660	530	270	1060	600	75	26	1444	462,0
ENR 125-200	75	-	280S	125	150	140	315	280	1800	730	600	300	1200	670	100	26	1574	595,0
ENR 125-200	90	-	280M	125	150	140	315	280	1800	730	600	300	1200	670	100	26	1574	641,0
ENR 125-200	110	-	315S	125	150	140	315	315	1800	850	700	300	1200	780	100	26	1574	670,0
ENR 125-250	-	7,5	132M	125	150	140	355	250	1120	610	480	190	740	550	50	22	1096	237,0
ENR 125-250	-	11	160M	125	150	140	355	250	1400	610	480	230	940	550	75	26	1262	281,0
ENR 125-250	-	15	160L	125	150	140	355	250	1400	610	480	230	940	550	75	26	1262	295,0
ENR 125-250	-	18,5	180M	125	150	140	355	250	1400	610	480	230	940	550	75	26	1300	319,0
ENR 125-250	-	22	180L	125	150	140	355	250	1400	610	480	230	940	550	75	26	1337	358,0

MONOBLOC CENTRIFUGAL ELECTRIC PUMP IN COMPLIANCE WITH EN 733

in cast iron

ENR 125-150-200 DIMENSIONS

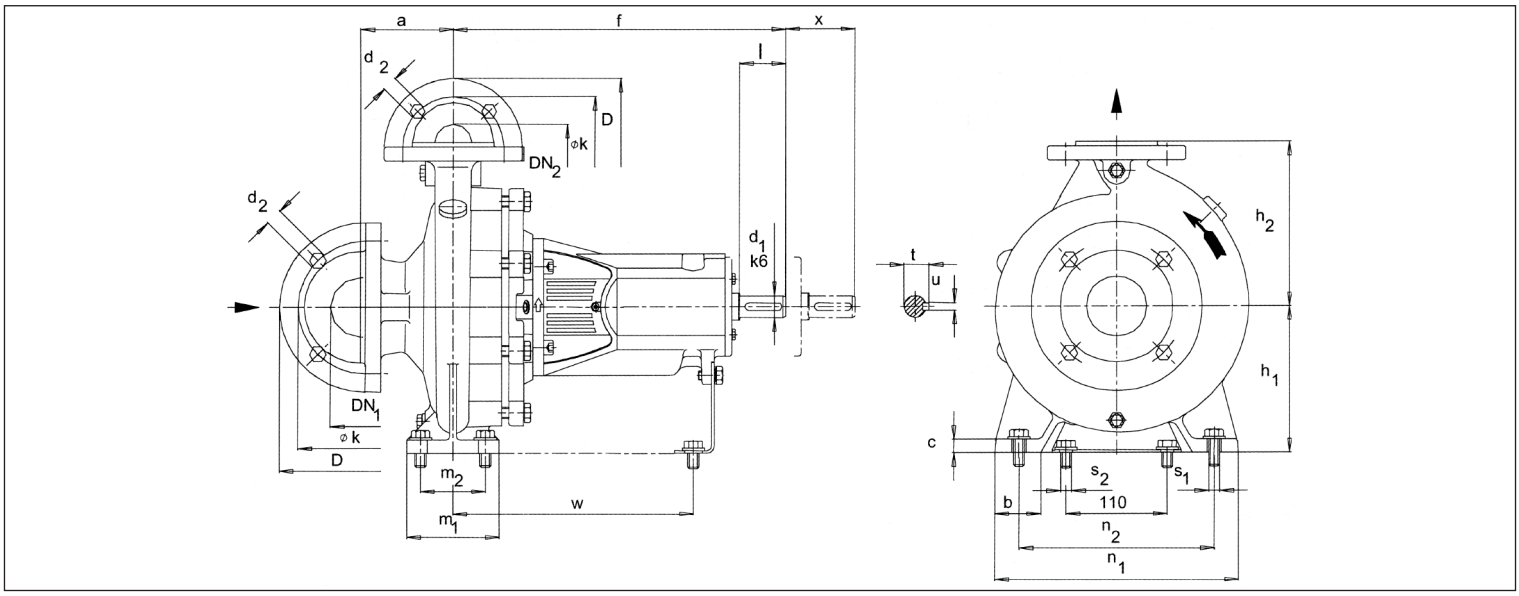
Model	Motor		Dimensions [mm]															
	[kW] 4 Poles	Size						Standard joint										
			DN2	DN1	a	h2	h1	A	B	F	Y	V	E	H	S	T	[kg]
ENR 125-315	15	160L	125	150	140	355	280	1400	730	600	230	940	670	75	26	1322	352,0
ENR 125-315	18,5	180M	125	150	140	355	280	1400	730	600	230	940	670	75	26	1360	377,0
ENR 125-315	22	180L	125	150	140	355	280	1400	730	600	230	940	670	75	26	1397	415,0
ENR 125-315	30	200L	125	150	140	355	280	1400	730	600	230	940	670	75	26	1397	440,0
ENR 125-315	37	225S	125	150	140	355	280	1400	730	600	230	940	670	75	26	1504	482,0
ENR 125-400	30	200L	125	150	140	400	315	1400	730	600	230	940	670	75	26	1397	475,0
ENR 125-400	37	225S	125	150	140	400	315	1400	730	600	230	940	670	75	26	1504	516,0
ENR 125-400	45	225M	125	150	140	400	315	1400	730	600	230	940	670	75	26	1504	534,0
ENR 125-400	55	250M	125	150	140	400	315	1800	730	600	300	1200	670	100	26	1569	612,0
ENR 125-400	75	280S	125	150	140	400	315	1800	850	700	300	1200	780	100	26	1634	733,0
ENR 150-200	7,5	132M	150	200	160	400	280	1400	730	600	230	940	670	75	26	1116	303,0
ENR 150-200	11	160M	150	200	160	400	280	1400	730	600	230	940	670	75	26	1282	325,0
ENR 150-200	15	160L	150	200	160	400	280	1400	730	600	230	940	670	75	26	1282	338,0
ENR 150-200	18,5	180M	150	200	160	400	280	1400	730	600	230	940	670	75	26	1320	363,0
ENR 150-250	15	160L	150	200	160	400	280	1400	730	600	230	940	670	75	26	1282	370,0
ENR 150-250	18,5	180M	150	200	160	400	280	1400	730	600	230	940	670	75	26	1320	395,0
ENR 150-250	22	180L	150	200	160	400	280	1400	730	600	230	940	670	75	26	1357	433,0
ENR 150-250	30	200L	150	200	160	400	280	1400	730	600	230	940	670	75	26	1357	459,0
ENR 150-250	37	225S	150	200	160	400	280	1400	730	600	230	940	670	75	26	1464	500,0
ENR 150-315	18,5	180M	150	200	160	400	280	1400	730	600	230	940	670	75	26	1380	427,0
ENR 150-315	22	180L	150	200	160	400	280	1400	730	600	230	940	670	75	26	1417	465,0
ENR 150-315	30	200L	150	200	160	400	280	1400	730	600	230	940	670	75	26	1417	491,0
ENR 150-315	37	225S	150	200	160	400	280	1800	730	600	300	1200	670	100	26	1524	567,0
ENR 150-315	45	225M	150	200	160	400	280	1800	730	600	300	1200	670	100	26	1524	586,0
ENR 150-315	55	250M	150	200	160	400	280	1800	730	600	300	1200	670	100	26	1589	628,0
ENR 150-400	45	225M	150	200	160	450	315	1800	730	600	300	1200	670	100	26	1524	605,0
ENR 150-400	55	250M	150	200	160	450	315	1800	730	600	300	1200	670	100	26	1589	647,0
ENR 150-400	75	280S	150	200	160	450	315	1800	850	700	300	1200	780	100	26	1654	768,0
ENR 150-400	90	280M	150	200	160	450	315	1800	850	700	300	1200	780	100	26	1654	837,0
ENR 200-250	15	160L	200	200	160	400	280	1400	730	600	230	940	670	75	26	1402	425,0
ENR 200-250	18,5	180M	200	200	160	400	280	1400	730	600	230	940	670	75	26	1440	450,0
ENR 200-250	22	180L	200	200	160	400	280	1400	730	600	230	940	670	75	26	1477	488,0
ENR 200-250	30	200L	200	200	160	400	280	1400	730	600	230	940	670	75	26	1477	514,0

ENR

MONOBLOC CENTRIFUGAL ELECTRIC PUMP IN COMPLIANCE WITH EN 733

in cast iron

ENR DIMENSIONS pump only



DIMENSIONS TABLE

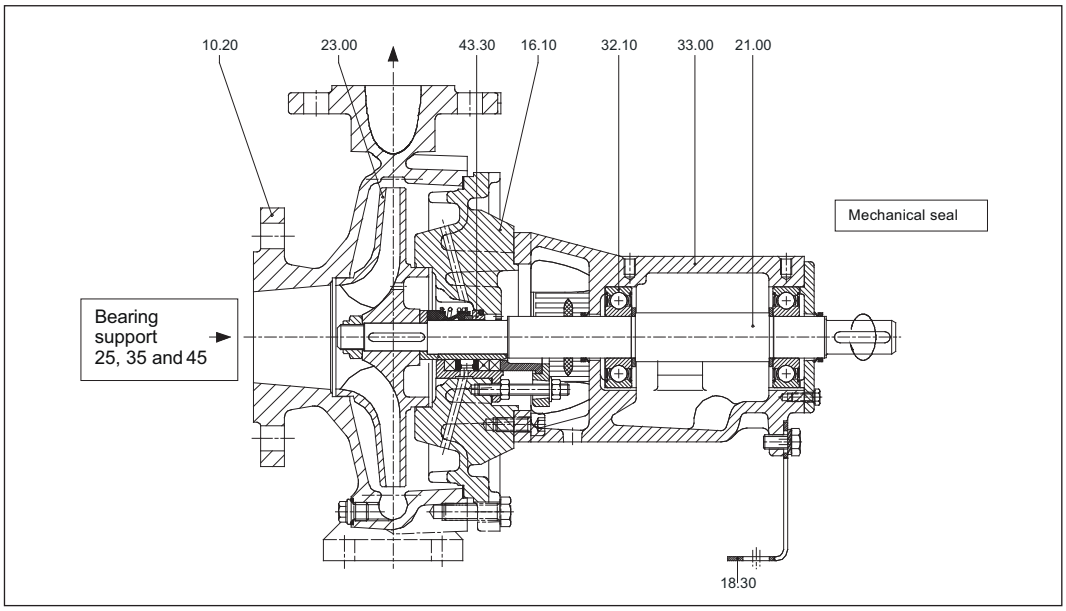
Model	Supp.	Dimensions [mm]																				Weight
		Pump						Feet									Shaft projection					
		DN2	DN1	a	f	h2	h1	b	c	m1	m2	n1	n2	s1	s2	w	x	d1	l	t	u	[kg]
ENR 32-125	25	32	50	80	360	112	140	50	15	100	70	190	140	M12	M12	260	100	24	50	27	8	31,0
ENR 32-160	25	32	50	80	360	132	160	50	15	100	70	240	190	M12	M12	260	100	24	50	27	8	33,0
ENR 32-200	25	32	50	80	360	160	180	50	15	100	70	240	190	M12	M12	260	100	24	50	27	8	34,0
ENR 32-250	25	32	50	100	360	180	225	65	15	125	95	320	250	M12	M12	260	100	24	50	27	8	46,0
ENR 40-125	25	40	65	80	360	112	140	50	15	100	70	210	160	M12	M12	260	100	24	50	27	8	28,0
ENR 40-160	25	40	65	80	360	132	160	50	15	100	70	240	190	M12	M12	260	100	24	50	27	8	30,0
ENR 40-200	25	40	65	100	360	160	180	50	15	100	70	265	212	M12	M12	260	100	24	50	27	8	36,0
ENR 40-250	25	40	65	100	360	180	225	65	15	125	95	320	250	M12	M12	260	100	24	50	27	8	46,0
ENR 40-315	35	40	65	125	470	225	250	65	18	125	95	345	280	M12	M12	340	100	32	80	35	10	73,0
ENR 50-125	25	50	65	100	360	132	160	50	15	100	70	240	190	M12	M12	260	100	24	50	27	8	30,0
ENR 50-160	25	50	65	100	360	160	180	50	15	100	70	265	212	M12	M12	260	100	24	50	27	8	36,0
ENR 50-200	25	50	65	100	360	160	200	50	15	100	70	265	212	M12	M12	260	100	24	50	27	8	40,0
ENR 50-250	25	50	65	100	360	180	225	65	15	125	95	320	250	M12	M12	260	100	24	50	27	8	50,0
ENR 50-315	35	50	65	125	470	225	280	65	17	125	95	345	280	M12	M12	340	100	32	80	35	10	88,0
ENR 65-125	25	65	80	100	360	160	180	65	15	125	95	280	212	M12	M12	260	100	24	50	27	8	33,0
ENR 65-160	25	65	80	100	360	160	200	65	15	125	95	280	212	M12	M12	260	100	24	50	27	8	39,0
ENR 65-200	25	65	80	100	360	180	225	65	15	125	95	320	250	M12	M12	260	140	24	50	27	8	45,0
ENR 65-250	35	65	80	100	470	200	250	80	15	160	120	360	280	M16	M12	340	140	32	80	35	10	70,0
ENR 65-315	35	65	80	125	470	225	280	80	18	160	120	400	315	M16	M12	340	140	32	80	35	10	92,0
ENR 80-160	25	80	100	125	360	180	225	65	15	125	95	320	250	M12	M12	260	140	24	50	27	8	43,0
ENR 80-200	35	80	100	125	470	180	250	65	15	125	95	345	280	M12	M12	340	140	32	80	35	10	60,0
ENR 80-250	35	80	100	125	470	200	280	80	18	160	120	400	315	M16	M12	340	140	32	80	35	10	75,0
ENR 80-315	35	80	100	125	470	250	315	80	18	160	120	400	315	M16	M12	340	140	32	80	35	10	95,0
ENR 80-400	45	80	125	125	530	280	355	80	18	160	120	435	355	M16	M12	370	140	42	110	45	12	143,0
ENR 100-160	35	100	125	125	470	200	280	80	18	160	120	360	280	M16	M12	340	140	32	80	35	10	78,0
ENR 100-200	35	100	125	125	470	200	280	80	18	160	120	360	280	M16	M12	340	140	32	80	35	10	70,0
ENR 100-250	35	100	125	140	470	225	280	80	18	160	120	400	315	M16	M12	340	140	32	80	35	10	85,0
ENR 100-315	35	100	125	140	470	250	315	80	18	160	120	400	315	M16	M12	340	140	32	80	35	10	104,0
ENR 100-400	45	100	125	140	530	280	355	100	18	200	150	500	400	M20	M12	370	140	42	110	45	12	177,0
ENR 125-200	35	125	150	140	470	250	315	80	18	160	120	400	315	M16	M12	340	140	32	80	35	10	100,0
ENR 125-250	35	125	150	140	470	250	355	80	18	160	120	400	315	M16	M12	340	140	32	80	35	10	102,0
ENR 125-315	45	125	150	140	530	280	355	100	18	200	150	500	400	M20	M12	370	140	42	110	45	12	151,0
ENR 125-400	45	125	150	140	530	315	400	100	18	200	150	500	400	M20	M12	370	140	42	110	45	12	188,0
ENR 150-200	35	150	200	160	470	280	400	100	20	200	150	550	450	M20	M12	340	140	32	80	35	10	123,0
ENR 150-250	35	150	200	160	470	280	400	100	20	200	150	500	400	M20	M12	340	140	32	80	35	10	128,0
ENR 150-315	45	150	200	160	530	280	400	100	18	200	150	550	450	M20	M12	370	140	42	110	45	12	170,0
ENR 150-400	45	150	200	160	530	315	450	100	18	200	150	550	450	M20	M12	370	140	42	110	45	12	205,0
ENR 200-250	45	200	200	160	590	280	400	100	22	200	150	500	400	M20	M12	430	180	42	110	45	12	230,0

ENR

MONOBLOC CENTRIFUGAL ELECTRIC PUMP IN COMPLIANCE WITH EN 733

in cast iron

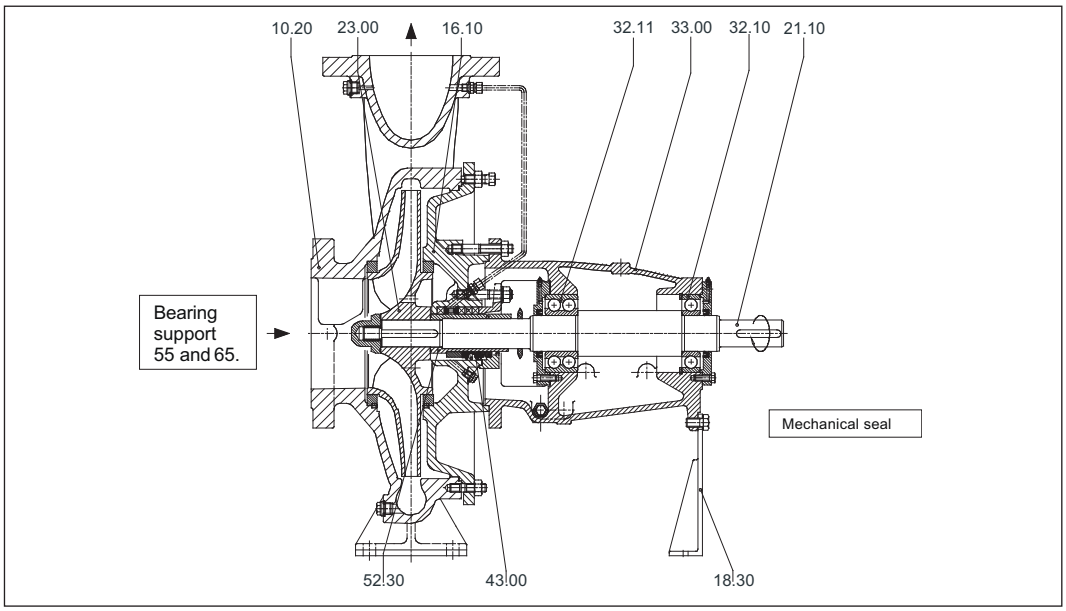
SECTIONAL VIEW 25-32-45



COMPONENTS TABLE

Ref.	Name
10.20	Pump body
16.10	Seal housing disc
18.30	Foot support
21.00	Shaft
23.00	Impeller
32.10	Bearing
33.00	Bearing support
43.30	Mechanical seal

SECTIONAL VIEW 55 - 65



COMPONENTS TABLE

Ref.	Name
10.20	Pump body
16.10	Seal housing disc
18.30	Foot support
21.00	Shaft
23.00	Impeller
32.10	Bearing
32.11	Bearing
33.00	Bearing support
43.30	Mechanical seal
52.30	Shaft casing (Mechanical seal)

1EPBH

ELECTRIC CONTROL PANELS FOR ELECTRIC SUBMERSED AND SURFACE PUMPS

Protection and control panels for a submersed or surface electric pump with direct start-up. The control panel can manually and automatically control an electric pump.
In automatic function the electric pump is controlled by the pressure switch, the float or signals that come from the electric probes or from the floats.

TECHNICAL DETAILS

- Protection against dry running (control using an electric probe) with automatic reset and water return
- Reservoir filling level control with two electric probes or floats
- Reservoir emptying level control with two electric probes or floats
- Cosφ module, optional for controlling against dry running without the use of the electric probes
- Motor protection against overloads and no automatic reset phase for three interventions, manual at the fourth
- Pumps protection against excessive start-ups
- Overload and board protection, against short circuits, with fuses
- Remote displaying with NC-NO potential free contact of the protections that have intervened or the alarm float
- Clamps for connecting any single phase motor starter capacitor
- Clamps for connecting a pressure switch
- Clamps for connecting an alarm float

TECHNICAL DATA

- 230V +10-15% 50/60 Hz power supply (single phase)
  400V +10-15% 50/60 Hz (three phase + N)
- Temperature of the liquid: from -10°C to +40°C
- IP55 Protection rating
- Reference Standards: EN 60204-1, EN 60439-1, EN 61000-6-3, EN 61000-6-1 (for civil environments)

ELECTRIC DATA TABLE

Model 230V +10-15% - 50Hz single phase	[HP]	[kW]	[A] max	Recommended capacitor [µF]	[V]
1EPBH 0,37 M	0,5	0,37	4	16/20	450
1EPBH 0,55 M	0,75	0,55	6	20/25	450
1EPBH 0,75 M	1	0,75	8	35	450
1EPBH 1,1 M	1,5	1,1	10	40	450
1EPBH 1,5 M	2	1,5	12	50/60	450
1EPBH 2,2 M	3	2,2	20	70/80	450

Control panels without capacitor

ELECTRIC DATA TABLE

Model 400V +10-15% - 50Hz three phase	[HP]	[kW]	[A] max
1EPBH 0,37÷1,1 T	0,5÷1,5	0,37÷1,1	4
1EPBH 1,5 T	2	1,5	4
1EPBH 2,2 T	3	2,2	6
1EPBH 3 T	4	3	10
1EPBH 4 T	5,5	4	12
1EPBH 5 T	7,5	5,5	16

PRESSCOMFORT

PRESSURE REGULATOR

PRESSCOMFORT is an automatic electronic appliance, destined to regulate the operation of the electric pump without using autoclave reservoirs.
Water pump automatic start and stop command when a cock or valve connected to the installation opens or closes respectively.
When the pump is started, it continues until any cock connected remains open, transmitting the requested flow rate at constant pressure to the network. If there is no suction air, the pump stops automatically.
PRESSCOMFORT allows:
- manual restore (RESET key)
- automatic reset after 1, 6, 12 o 24 hours.
If on suction the water, returns to a pressure exceeding the fixed value (1.5 bar) for pump start-up, PRESSCOMFORT is restored automatically.

TECHNICAL DETAILS

- For electric pump, without tank, without probe, without float
- PRESSCOMFORT wired - not wired
- Automatic regulation
- Incorporated non-return valve
- Plate with functioning indicator
- Connection cable on the pump terminal box (for wired version only)
- Power supply cable (1.5 m) with standard socket (for wired version only)

TECHNICAL DATA

- Maximum temperature of the water: 60° C
- Maximum flow rate: 10,000 l/h
- Start-up pressure: 1.5 - 2.5 bar
- Maximum use pressure: 10 bar
- Power supply voltage: 220/240V - 50/60 Hz
- Maximum current intensity: 10(6)A
- IP65 Protection rating
- G1 connections (pump and outlet side)

PRESS·O·MATIC

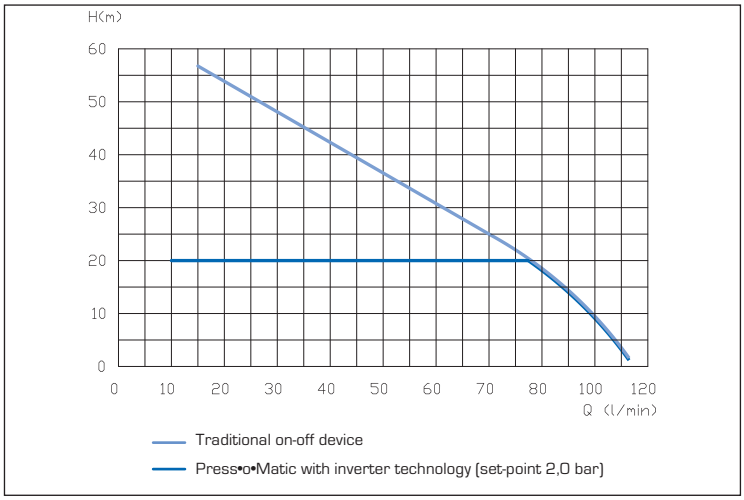
INVERTER FOR CONTROLLING THE ELECTRIC PUMPS

Electronic device for controlling the electric pumps based on inverter technology. Controls start-up and stop of the electric pump and modulates the motor revs. depending on the withdrawal of water from the plant.

TECHNICAL DETAILS

- Constant pressure thanks to the regulation of the electric pump revs.
- Energy saving thanks to lower pump absorption
- Gradual pump start-up and stop that reduce hammering and eliminate peak current on ignition
- Protection against dry running if there is no suction air
- Reset automatic in the case of stopping due to dry running, able to autonomously solve the error condition
- Effective leak control for the protection of the pump in the case of continuous re-starts
- Digital indication of the pressure on the display
- Amperometric motor control
- Indication of the various functioning/error states via luminous indicators and messages on the display
- Functioning in twin units alternately
- Double set-point that can be commanded at a distance
- Electric pump remote start and stop
- Rotation direction inversion via software (does not require interventions on wiring)
- Removable electric clamps to easy wiring
- For correct functioning of the systems with Press•o•Matic , he use of an expansion vessel is recommended

PRESSURE-FLOW RATE GRAPHICS (ELECTRIC PUMP 1,5 HP)

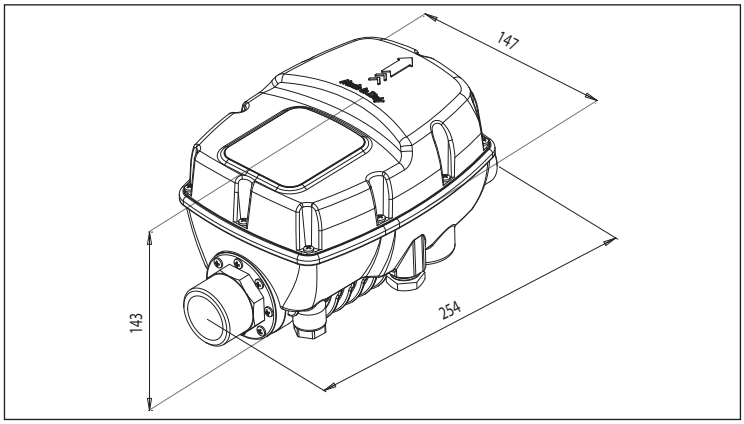


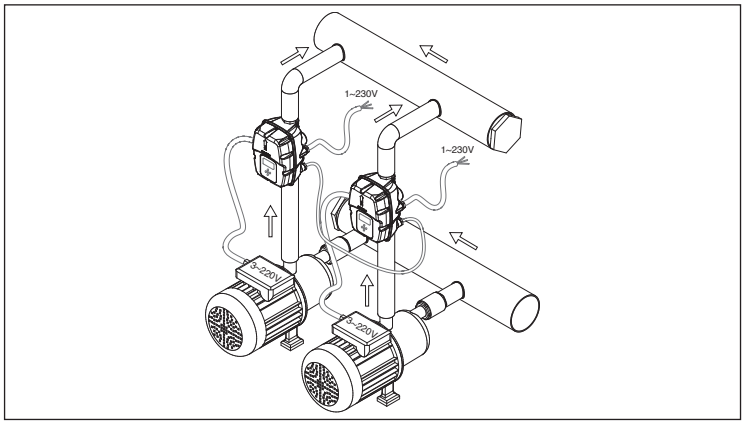
TECHNICAL DATA

- Mains power supply: single phase 230V ± 10%, 50Hz
- Motor output: three phase 220V
- Maximum motor power: 2200W - 3HP
- Maximum line absorption: 16A at 230V
- Maximum pressure accepted: 8 bar
- Maximum temperature of the liquid: 50°C
- Pressure drop: 0.1 bar at 150 l/min
- Set-point regulation range: 1.5÷7 bar
- Start pressure regulation range: 1÷6.7 bar
- Hydraulic connection: G1¼ male-male
- Frequency modulation range: 25÷50 Hz
- Protection rating: IP 65

SPECIAL VERSIONS

- Frequency modulation range 30÷60 Hz
- Connection cable for functioning in pairs 4x0.5 mm² 100 (SR-CBL4X05-100)





Pressure Loss Table

Pressure drop (Pc) in metres of column of water for every one hundred metres of new cast iron pipe. Speed of the liquid in the pipe in metres/second.

Flow rate [m³/h]		Internal diameter [mm]																										
		25	32	40	50	60	70	80	90	100	125	150	175	200	225	250	275	300	350	400	450	500	600	700	800	900	1000
3	Pc % Vm/s	17 1,70	6 1,03	1,6 0,67	0,54 0,43	0,25 0,29	0,13 0,22	0,06 0,16	0,03 0,13	0,02 0,10																		
6	Pc % Vm/s		24 2,06	6 1,34	2 0,85	0,9 0,58	0,43 0,44	0,21 0,32	0,13 0,26	0,08 0,20	0,026 0,13																	
9	Pc % Vm/s			12,5 2,08	4,3 1,32	1,8 0,89	0,9 0,65	0,46 0,5	0,25 0,39	0,15 0,32	0,06 0,20																	
12	Pc % Vm/s			20 2,76	7 1,76	3,2 1,19	1,5 0,88	0,75 0,67	0,44 0,53	0,25 0,43	0,09 0,27	0,03 0,18																
15	Pc % Vm/s				12 2,2	5,2 1,49	2,4 1,1	1,25 0,87	0,7 0,66	0,42 0,54	0,15 0,34	0,06 0,24																
18	Pc % Vm/s				17 2,64	7 1,78	3,5 1,3	1,7 1	1 0,78	0,6 0,64	0,2 0,4	0,08 0,28																
21	Pc % Vm/s				22 3,35	8,8 2,08	4,2 1,54	2,2 1,17	1,3 0,93	0,75 0,75	0,26 0,48	0,1 0,32	0,05 0,24															
24	Pc % Vm/s					12 2,38	5,7 1,76	3 1,34	1,7 1,06	1 0,86	0,36 0,54	0,14 0,36	0,07 0,28															
27	Pc % Vm/s					14 2,7	7 1,97	3,5 1,45	2 1,17	1,25 0,96	0,42 0,6	0,17 0,42	0,08 0,31															
30	Pc % Vm/s					17 2,98	8,2 2,2	4,2 1,74	2,5 1,32	1,5 1,08	0,5 0,68	0,2 0,48	0,09 0,34															
36	Pc % Vm/s					25 3,58	12 2,63	6,3 2	3,5 1,58	2 1,28	0,75 0,82	0,3 0,57	0,14 0,42	0,07 0,32														
42	Pc % Vm/s						16 3,07	8,5 2,34	4,5 1,85	2,7 1,5	0,85 0,96	0,33 0,66	0,18 0,48	0,08 0,37														
48	Pc % Vm/s						21 3,51	10 2,68	6 2,12	3,6 1,72	1,2 1,08	0,45 0,72	0,22 0,56	0,12 0,43	0,06 0,34													
54	Pc % Vm/s						25 3,94	13,5 3	7,6 2,34	4,5 1,92	1,5 1,2	0,55 0,84	0,28 0,63	0,14 0,48	0,08 0,38													
60	Pc % Vm/s							16 3,32	9 2,64	5,5 2,16	1,8 1,36	0,7 0,96	0,33 0,68	0,17 0,53	0,1 0,42													
75	Pc % Vm/s							24 4,17	14 3,31	8 2,68	2,76 1,72	1 1,18	0,49 0,87	0,24 0,67	0,14 0,53	0,08 0,43												
90	Pc % Vm/s								20 3,97	12,5 3,24	3,8 2,04	1,45 1,44	0,74 1,02	0,36 0,8	0,2 0,63	0,14 0,51	0,08 0,42											
105	Pc % Vm/s								26 4,6	16,5 3,74	5,3 2,41	1,95 1,66	0,9 1,22	0,47 0,93	0,27 0,74	0,16 0,59	0,1 0,49											
120	Pc % Vm/s									21,5 4,31	6,9 2,72	2,6 1,93	1,2 1,35	0,61 1,06	0,36 0,84	0,2 0,68	0,14 0,56	0,08 0,47										
135	Pc % Vm/s									26 4,81	9 1,07	3,3 2,13	1,5 1,56	0,76 1,19	0,45 0,95	0,25 0,76	0,17 0,63	0,1 0,53										
150	Pc % Vm/s										11 3,44	4 2,36	1,9 1,74	0,95 1,34	0,55 1,05	0,3 0,86	0,21 0,70	0,12 0,59	0,06 0,43									
165	Pc % Vm/s										13 3,75	4,7 2,61	2,2 1,91	1,13 1,46	0,65 1,15	0,37 0,94	0,24 0,77	0,15 0,65	0,08 0,48									
180	Pc % Vm/s										15,2 4,09	5,5 2,83	2,6 2,08	1,3 1,59	0,76 1,26	0,43 1,02	0,29 0,84	0,18 0,71	0,09 0,52									
210	Pc % Vm/s										21 4,70	7,4 3,32	3,5 2,43	1,8 1,86	1,1 1,49	0,6 1,19	0,37 0,98	0,24 0,82	0,12 0,61	0,06 0,47								
240	Pc % Vm/s											9,4 3,78	4,3 2,77	2,3 2,12	1,3 1,68	0,75 1,36	0,48 1,12	0,3 0,95	0,15 0,69	0,08 0,53								
270	Pc % Vm/s											12 4,26	5,5 3,13	2,8 2,39	1,62 1,90	0,9 1,53	0,58 1,26	0,35 1,07	0,18 0,78	0,09 0,59								
300	Pc % Vm/s											14 4,75	7,5 3,47	3,4 2,66	2 2,10	1,1 1,71	0,74 1,40	0,46 1,18	0,22 0,86	0,11 0,67	0,07 0,53							
360	Pc % Vm/s		For piping different to the new cast iron ones, multiply the table data for the following coefficients: - stainless steel ..... 0,8 - PVC ..... 0,7 - gres ..... 1,17 - rolled steel ..... 0,8 - galvanised steel ..... 0,8 - slightly rusty pipes ..... 1,25 - rust pipes with a lot of deposits 2,1										9 4,15	4,7 3,17	2,8 2,53	1,6 2,04	1 1,68	0,65 1,41	0,32 1,04	0,16 0,79	0,09 0,63	0,05 0,51						
420	Pc % Vm/s												11,6 4,86	6,2 3,72	3,5 2,94	2 2,37	1,3 1,96	0,82 1,64	0,41 1,22	0,21 0,94	0,12 0,76	0,07 0,59	0,03 0,41				
480	Pc % Vm/s													8,5 4,24	4,9 3,36	2,9 2,72	1,9 2,24	1,2 1,90	0,6 1,38	0,3 1,06	0,17 0,84	0,09 0,69	0,04 0,47				
540	Pc % Vm/s													11 4,78	6,5 3,80	3,7 3,06	2,35 2,52	1,52 2,13	0,75 1,56	0,38 1,19	0,22 0,94	0,12 0,76	0,05 0,53				
600	Pc % Vm/s													12,2 5,30	7,4 4,20	4,3 3,40	2,7 2,81	1,7 2,36	0,9 1,73	0,45 1,34	0,25 1,06	0,13 0,86	0,055 0,61	0,024 0,44			
660	Pc % Vm/s														9 4,61	5,2 3,76	3,3 3,07	2,1 2,59	1,1 1,89	0,54 1,46	0,3 0,15	0,16 0,93	0,06 0,65	0,03 0,48		
720	Pc % Vm/s														10 5,05	6 4,08	3,8 3,37	2,5 2,84	1,3 2,08	0,52 1,65	0,35 1,26	0,19 1,02	0,075 0,71	0,035 0,52		
780	Pc % Vm/s															7,3 4,43	4,5 3,65	3 3,08	1,5 2,26	0,75 1,73	0,42 1,36	0,23 1,11	0,08 0,77	0,04 0,56		
840	Pc % Vm/s															8 4,76	5,4 3,95	3,4 3,31	1,7 2,43	0,85 1,86	0,48 1,47	0,26 1,19	0,1 0,83	0,047 0,61		
900	Pc % Vm/s															9 5,1	5,8 4,22	3,75 3,54	1,9 2,60	0,96 2,00	0,53 1,57	0,29 1,27	0,11 0,88	0,053 0,65		
960	Pc % Vm/s																6,5 4,49	4,3 3,78	2,1 2,77	1,1 2,13	0,6 1,68	0,32 1,36	0,12 0,95	0,06 0,70		
1020	Pc % Vm/s																7,2 4,76	4,6 4,01	2,45 2,94	1,2 2,26	0,67 1,78	0,35 1,44	0,14 1,00	0,065 0,77	0,033 0,54		
1080	Pc % Vm/s																	5,4 4,26	2,8 3,12	1,4 2,38	0,78 1,86	0,43 1,53	0,16 1,06	0,073 0,78	0,037 0,57		
1140	Pc % Vm/s																	6 4,49	3,2 3,29	1,53 2,53	0,86 1,99	0,46 1,65	0,175 1,12	0,08 0,84	0,043 0,61	0,037 0,52	
1200	Pc % Vm/s																	6,5 4,72	3,4 3,45	1,7 2,68	0,93 2,12	0,5 1,72	0,19 1,23	0,09 0,88	0,046 0,63	0,04 0,54	0,025 0,4

It is possible to estimate the pressure drops caused by accessories with the following comparisons:

- Foot valve: like 15 m of piping
- Non-return valve: like 10 m of piping
- Gate: like 5 m of piping
- Bends and elbows: like 5 m of piping

Recommended discharge diameter

Recommended suction diameter

DET NORSKE VERITAS

QUALITY MANA[GEMENT] SYSTEM CERTIFICATE

Certificato No. [CERT-17819-2006-AQ-VEN-SINCERT]

IL SISTEMA DI GESTI[ONE PER LA QUALITÀ] [DI] [THE QUALITY MANAGEMENT SYSTEM OF]

(Rif[erimento al Supplemento "A" / Refer to Supplement "A"])

È CONFORME AI [REQUISITI DELLA NORMA PER I SISTEMI DI GESTIONE PER LA QUALITÀ]
CONF[ORMS TO THE QUALITY MANAGEMENT SYSTEMS STANDARD]

UNI EN ISO 9001:2000 (ISO 9001:2000)

(Ulteriori chiarimenti rigu[ardo l'organizzazione certificata)]
(Further clarifications regardi[ng the certified organisation)]

Progettazione, produzione, vendita e commercializzazione di pompe e sistemi di pompaggio

Design, manufacture, sales and trade of pumps and pumping systems

Luogo e data
Place and date
Agrate Brianza, (MI) 2006-10-13

Lead Auditor: BENEDETTO CIAMPA

Settore EA: 18 - 17

SINCERT
ACCREDITAMENTO ORGANISMI DI CERTIFICAZIONE E ISPEZIONE
SQQ Registrazione N. 003A
SGA Registrazione N. 003C
PRD Registrazione N. 003B
Membro degli Accordi di Mutuo Riconoscimento EA e IAF
Signatory of EA and IAF Mutual Recognition Agreements

per l'Organismo di Certificazione
for the Accredited Unit
Det Norske Veritas Italia S.r.l.

Vittore Marangon
Management Representative

La validità del presente certificato è subordinata a sorveglianza periodica (ogni 6, 9 o 12 mesi) e al riesame completo del sistema con periodicità triennale
The validity of this certificate is subject to periodical audits (every 6, 9 or 12 months) and the complete re-assessment of the system every three years
Le aziende in possesso di un certificato valido sono presenti nella banca dati sul sito www.dnv.it e sul sito Sincert (www.sincert.it) – All the companies with a valid certificate are online at the following addresses: www.dnv.it and www.sincert.it

SPECIFIC PERFORMANCE

The specifications given refer to the curves illustrated in our catalogues and Data Book (see www.ebaraeurope.com).
All of the performance curves are calculated according to ISO 9906 Attachment A.

TolleranzeTolerance according to ISO 9906 Annex A.
The curves refer to an effective speed of the 50 Hz asynchronous motors.
The measurements are made with water temperature of 20°C and cinematic viscosity of = 1 mm^2/s (1 cSt).
In order to prevent the risk of overheating, the pumps must not be used at a flow rate below 10% of the maximum efficiency flow rate.
During selection of the pumps, there is a safety margin of at least 1 m.

Symbols:
- Q = Flow rate [m^3/h]
- H = Head [m]
- P_1 = Power absorbed by the electric line
- P_2 = Power yielded to the motor axis (power absorbed by the pump)