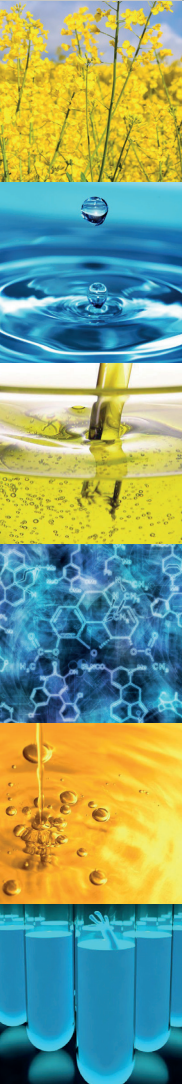
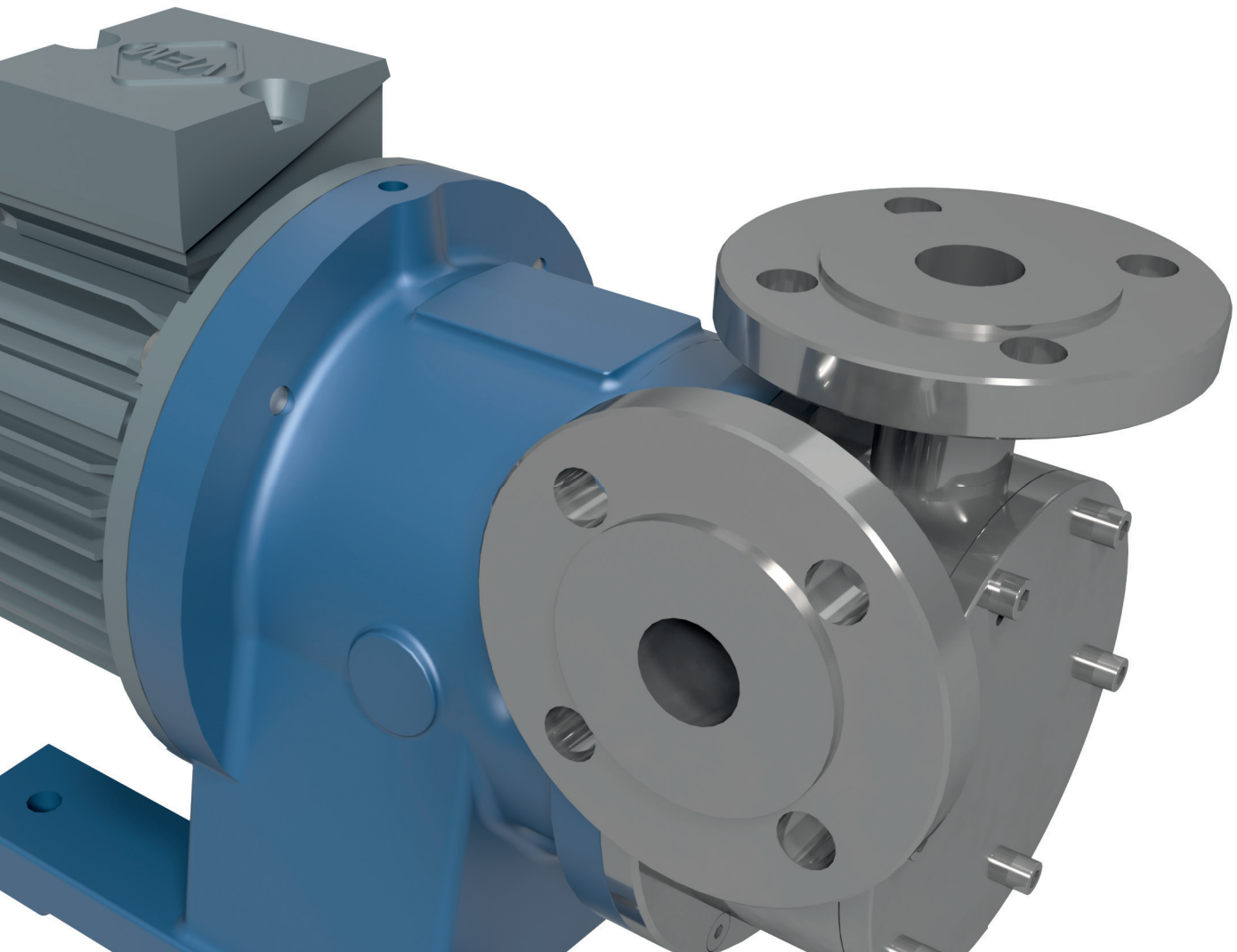


MAGNETIC DRIVEN REGENERATIVE TURBINE PUMPS

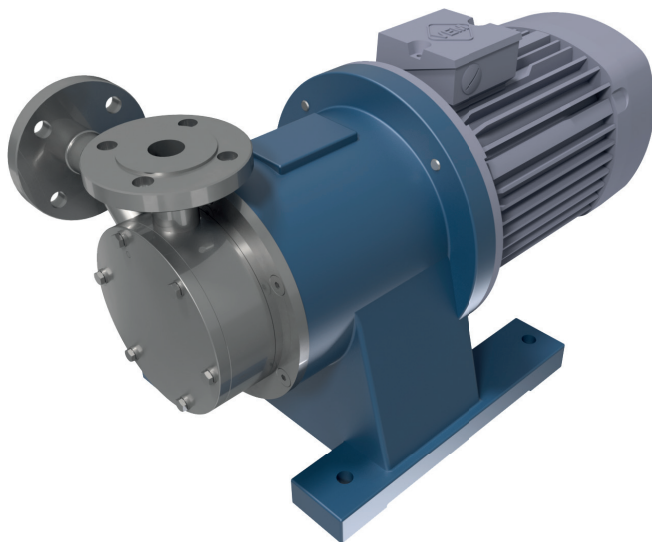
Series MTA



MAGNETIC DRIVEN REGENERATIVE TURBINE PUMP

Series MTA

MTA 25, 37, 49, 55, 78, 1011, 2020



TECHNICAL DATA

Nominal Speed:	2900 1/min
Capacity flow, max. / head, max.:	
MTA 25:	1,8 m³/h / 25m
MTA 37:	2,8 m³/h / 35m
MTA 49:	4,2 m³/h / 62m
MTA 55:	4,7 m³/h / 77m
MTA 78:	6,5 m³/h / 62m
MTA 1011:	10,0 m³/h / 97m
MTA 2020:	17,0 m³/h / 174m
Design Pressure:	16 ... 250 bar
Temperature:	-150 °C ... 315 °C
S.G., max.:	1,8 kg/dm³
Viscosity, max.:	200 cP

PROCESS NOZZLES

MTA 25:	G1/2" (f) / DN15
MTA 37:	G3/4" (f) / DN20
MTA 49:	G1" (f) / DN25
MTA 78:	G1" (f) / DN25
MTA 1011:	G1" (f) / DN25
MTA 2020:	G1 1/2" (f) / DN40

MATERIALS

Housings: AISI316L, HC276, Duplex, Titan
O-Rings: EPDM, FKM, FFKM, FEP
Bearings: PTFEC/G, Graphite, SiC
Shaft: SiC, AISI316L

*custom materials or executions available
upon request

APPLICATIONS

Main applications for this particular type of pumps are:

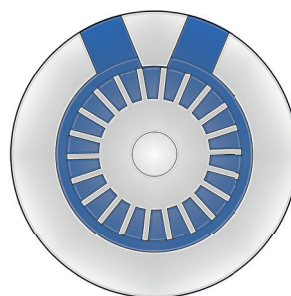
- Booster pump or CIP pump in chemical, food- or pharmaceutical industry.
- Circulation pump for cooling liquids with high temperature delta.
- Filterpump in the electroplating industry or reversible osmosis.

FEATURES / BENEFIT

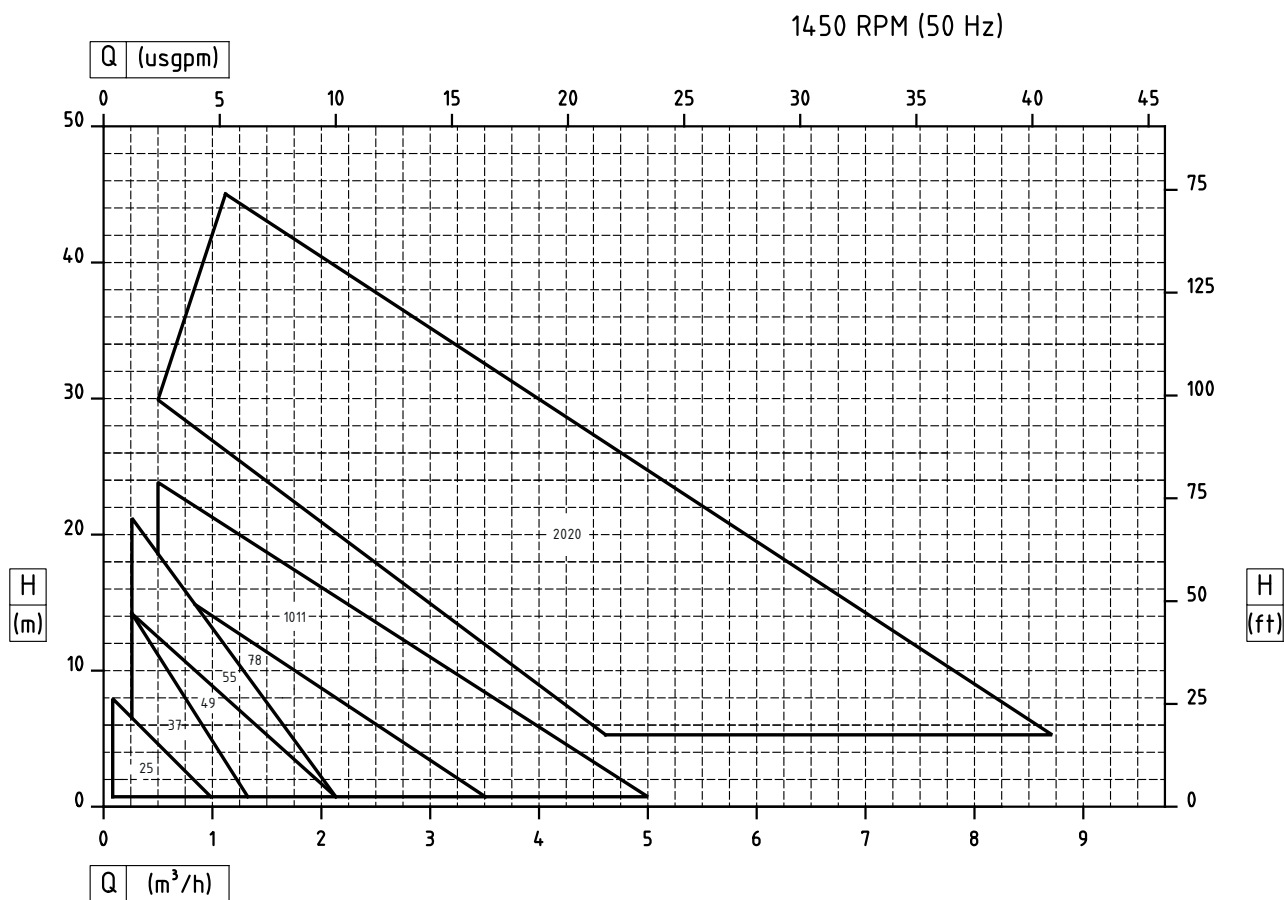
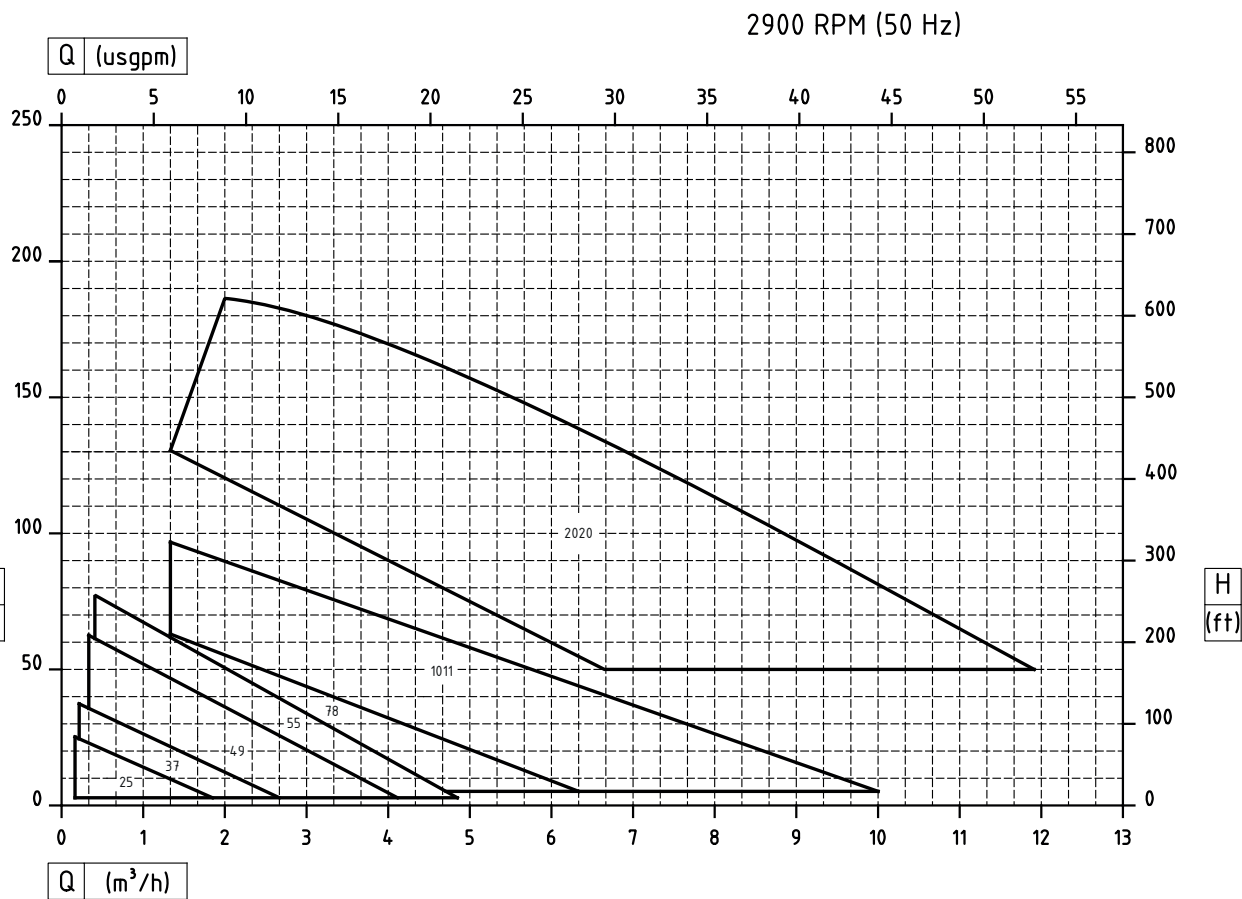
- Different sizes available:
- MTA25, 37, 49, 55, 78, 1011, 2020
- High head, low flow
- Leak-free
- Maintenance-free
- Can handle up to 20% entrained gas
- Reversible
- Heavy duty design for industrial applications
- Casing is made from solid block material
- Compact close coupled design
- Liquid gases, solvents. Toxic fluids and explosive fluids.

PRODUCT DESCRIPTION

MARCH Magnetically Coupled Regenerative Turbine Pumps are suitable for leak-free transport of aggressive or toxic liquids and fluids which are harmful to the environment. Especially designed for media which need to be pumped with a low flow rate and a high discharge head. The magnetic coupling guarantees an absolutely impermeable hermetic cabin of the pump. At the same time the construction of the pump allows a transport of gas content in the pumped liquid up to 20 Vol % without any problem. For applications in food- and pharmaceutical industries, pumps with electrolytic polished surfaces are available.



A large number of turbine vanes produce comparably high pressure by transport of small quantities. The friction bearings of the pump are finished with side channels so that the gas in the fluid can be transported without causing dry running. The transmission of energy in the driving gear in the hydraulic part is a result of permanent magnets which make the pumps leak-free and maintenance-free. The pumps will be manufactured in the appropriate compact close coupled block design, for applications with high or low temperatures the pump is available as long coupled process design pump with base frame skid. The pump is also available in the newest ATEX execution



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info@march-pumpen.com

Baureihe / Series:

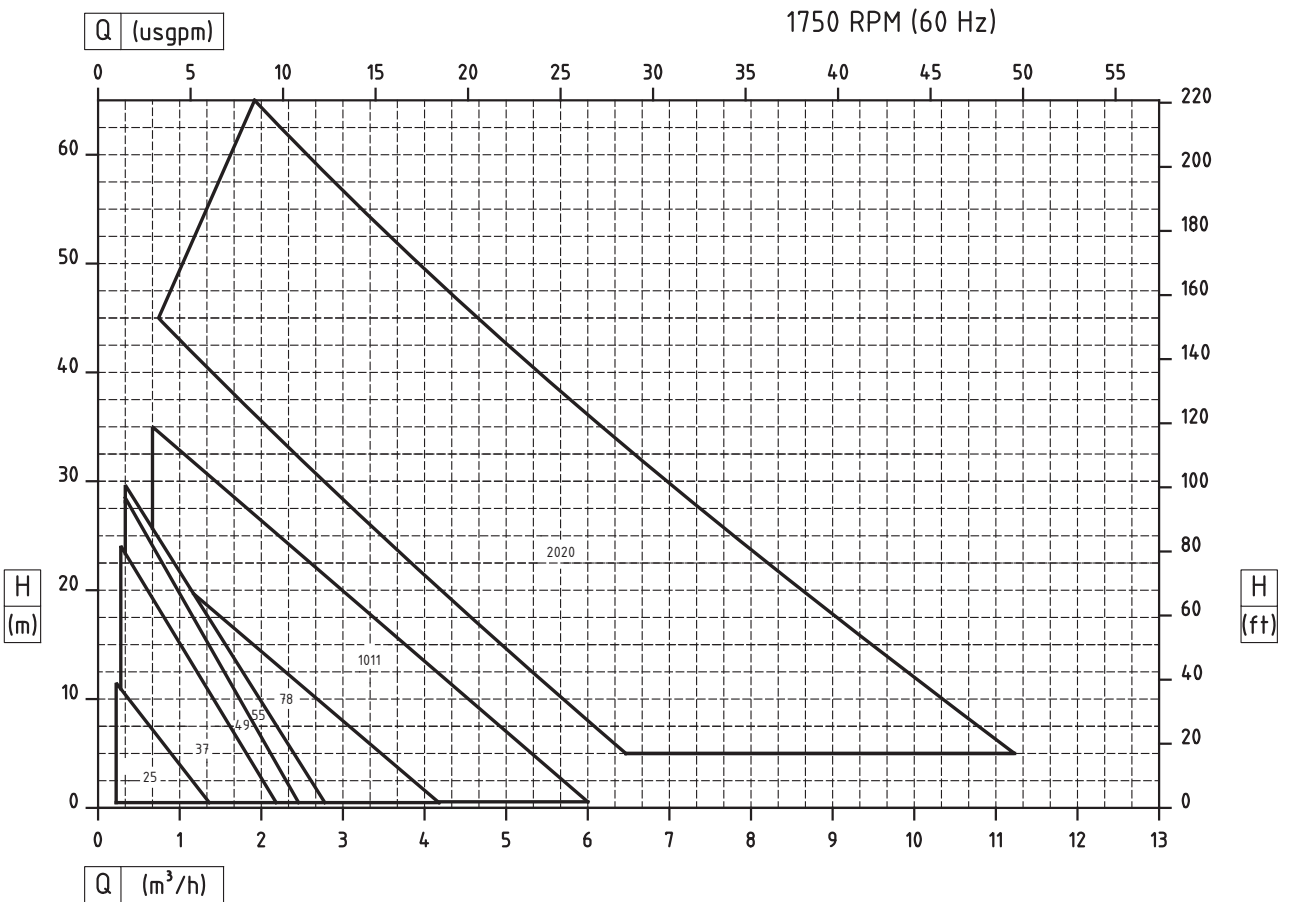
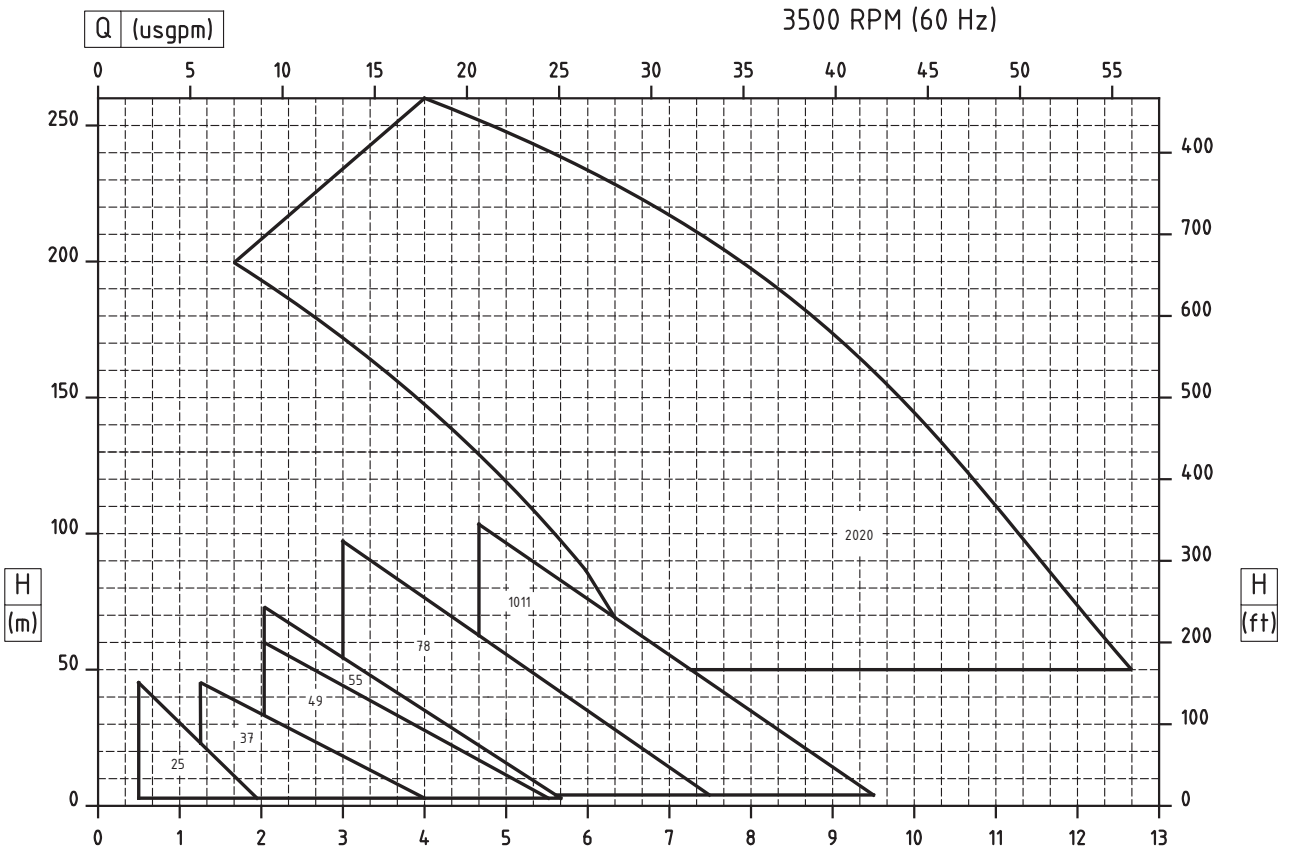
MTA

Typ / Type:

Family Curves

Motor Speed:

2900 / 1450 RPM (50 hz)



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Baureihe / Series:

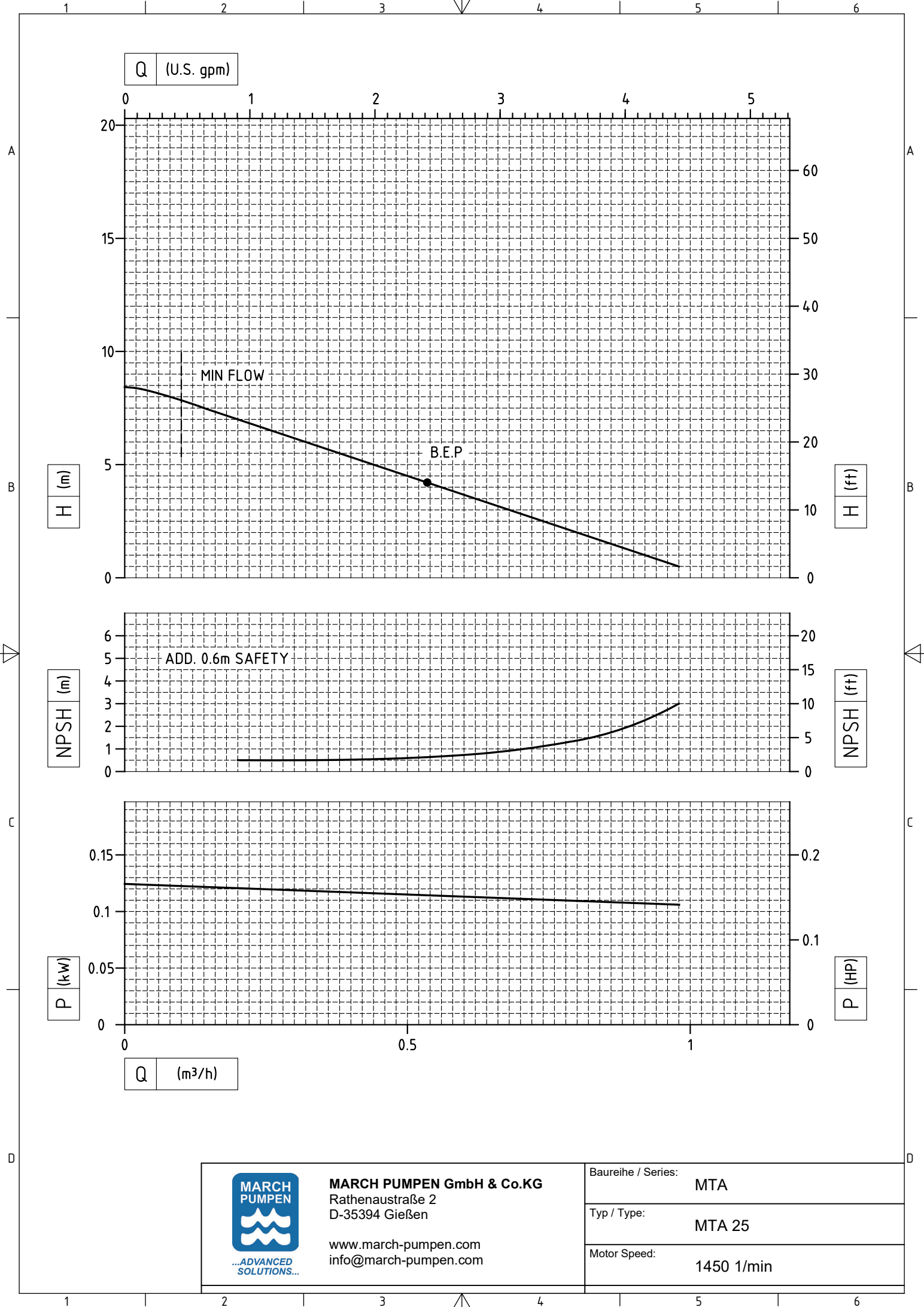
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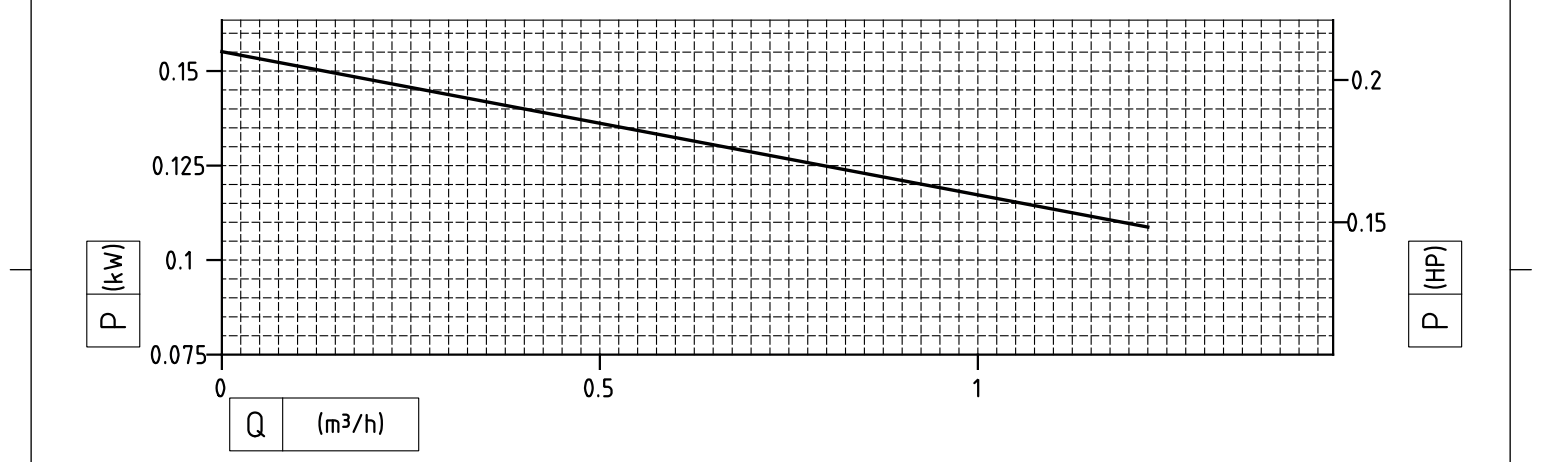
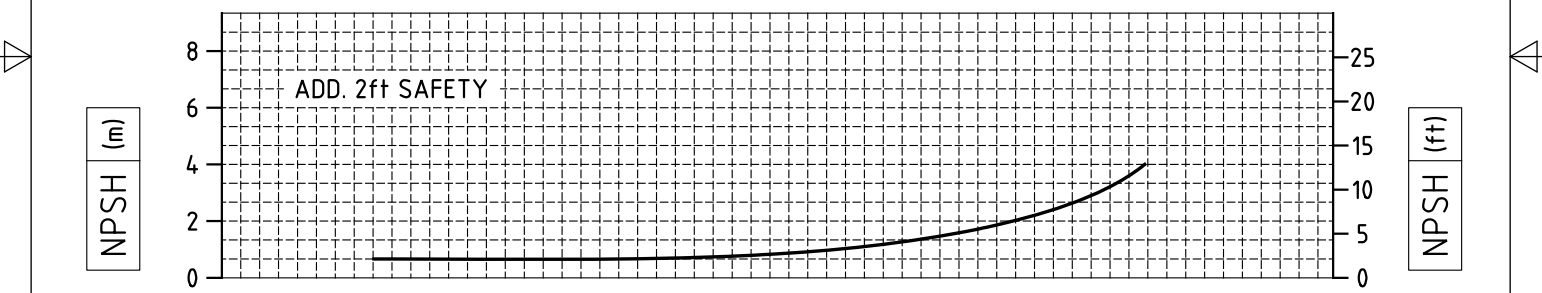
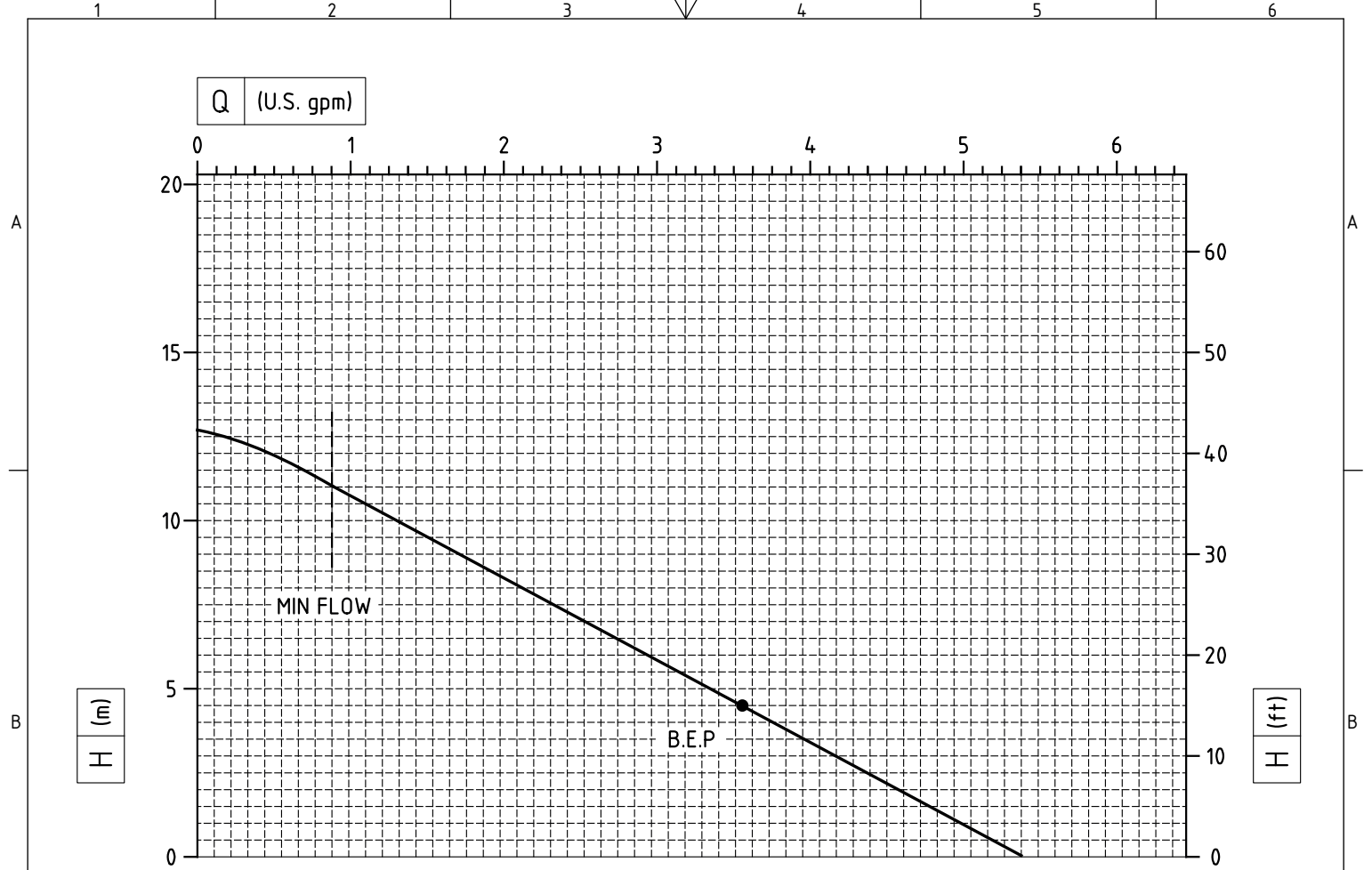
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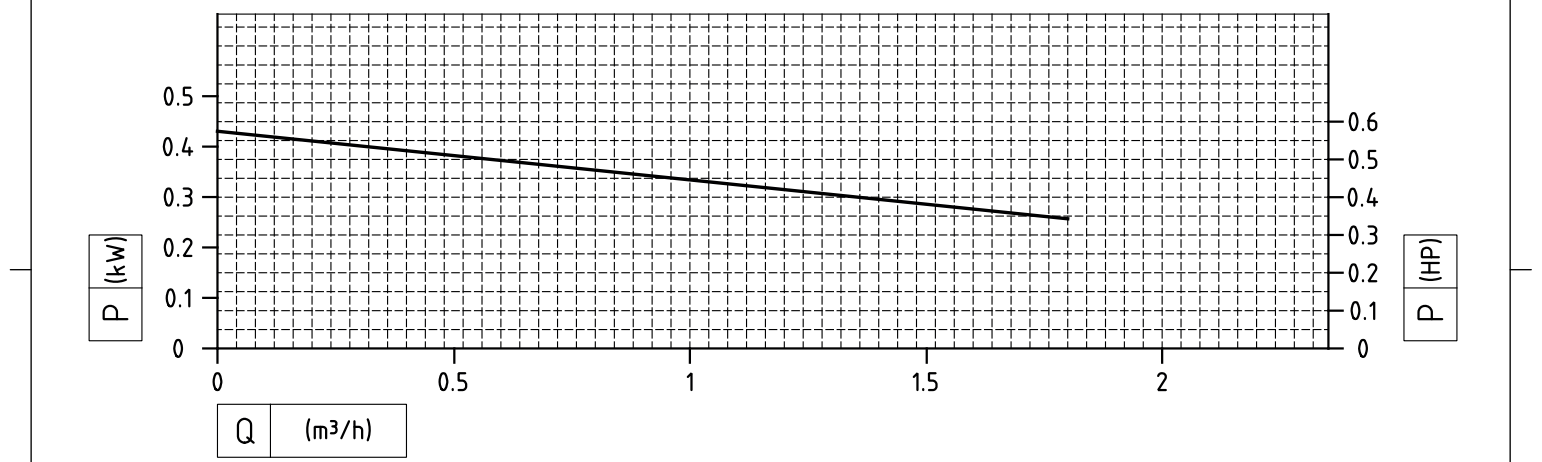
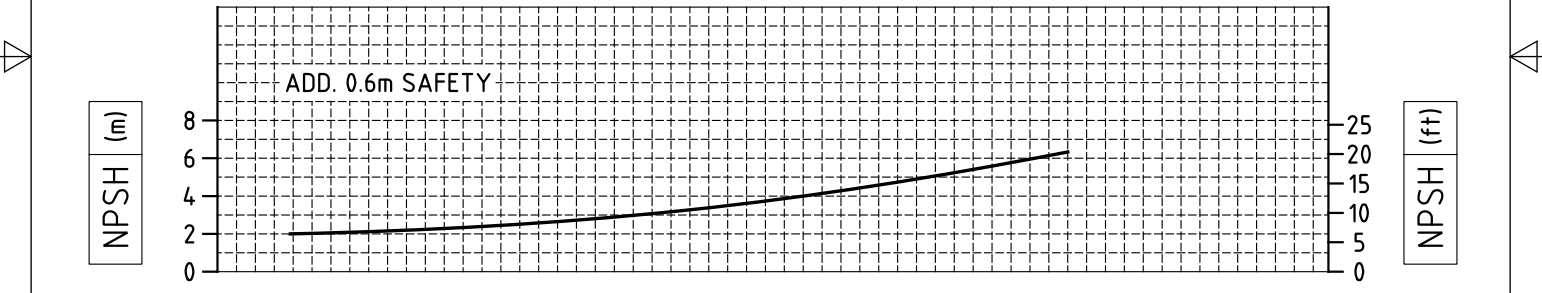
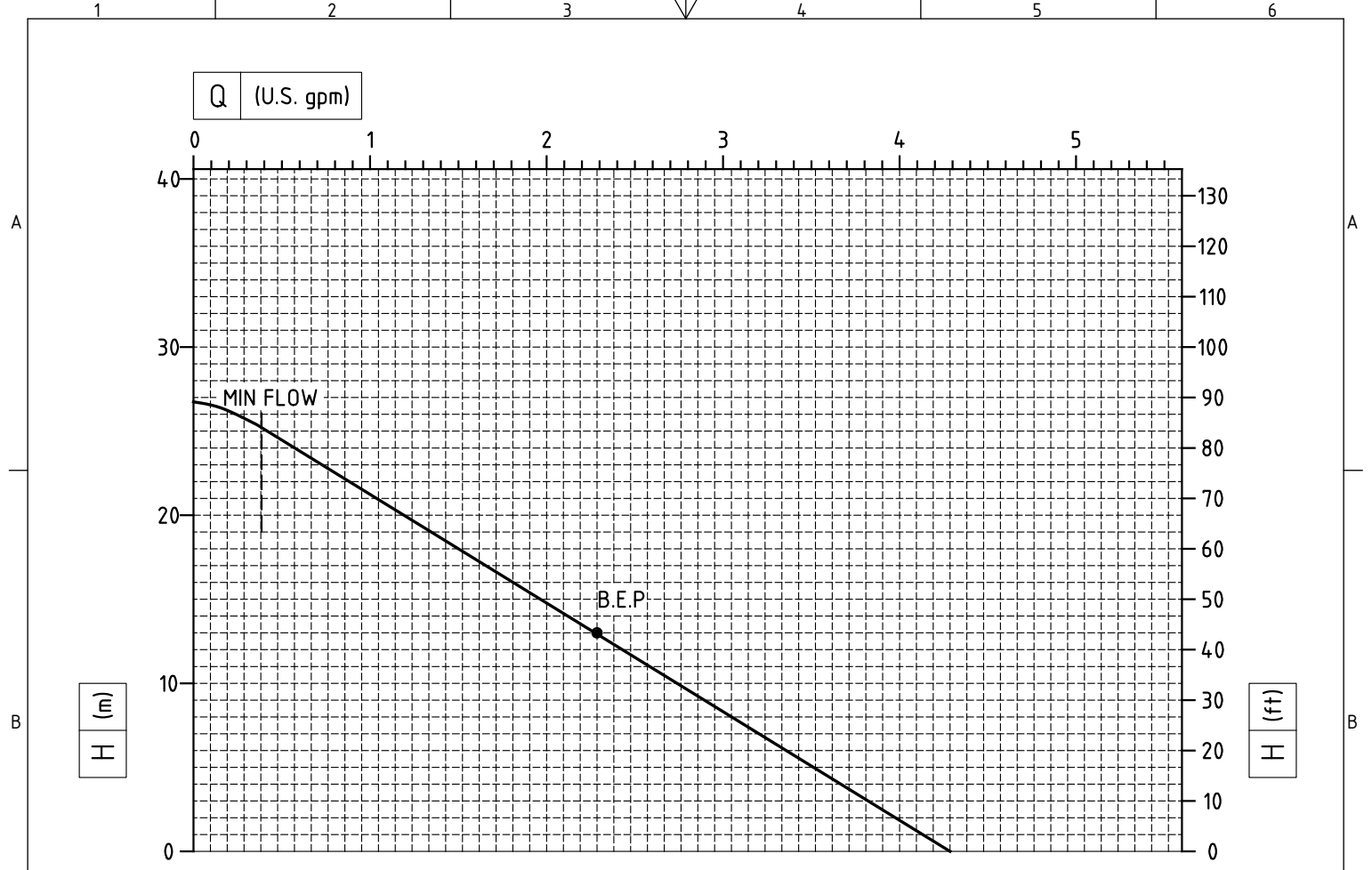
Motor Speed:

3500 / 1750 RPM (60 hz)

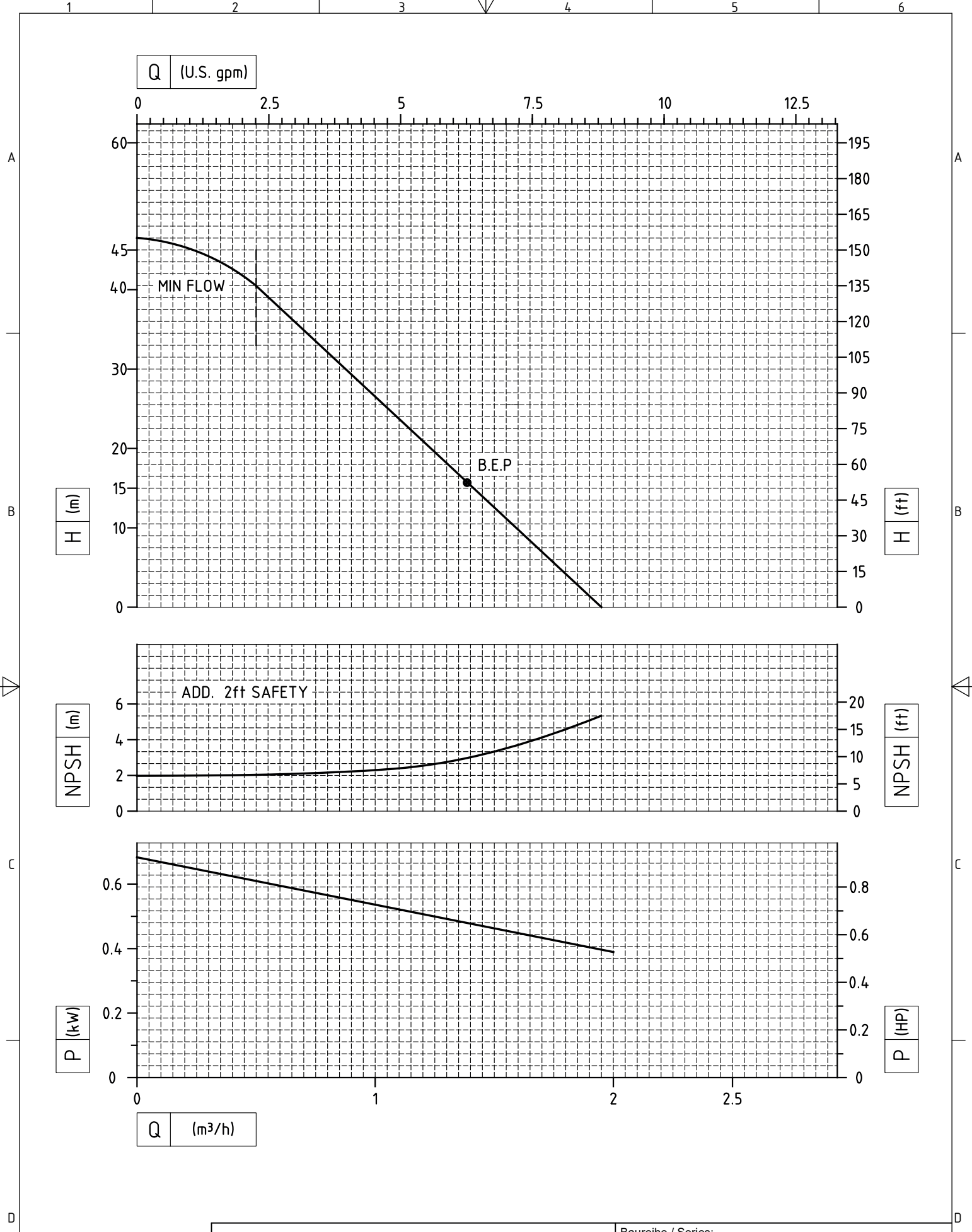




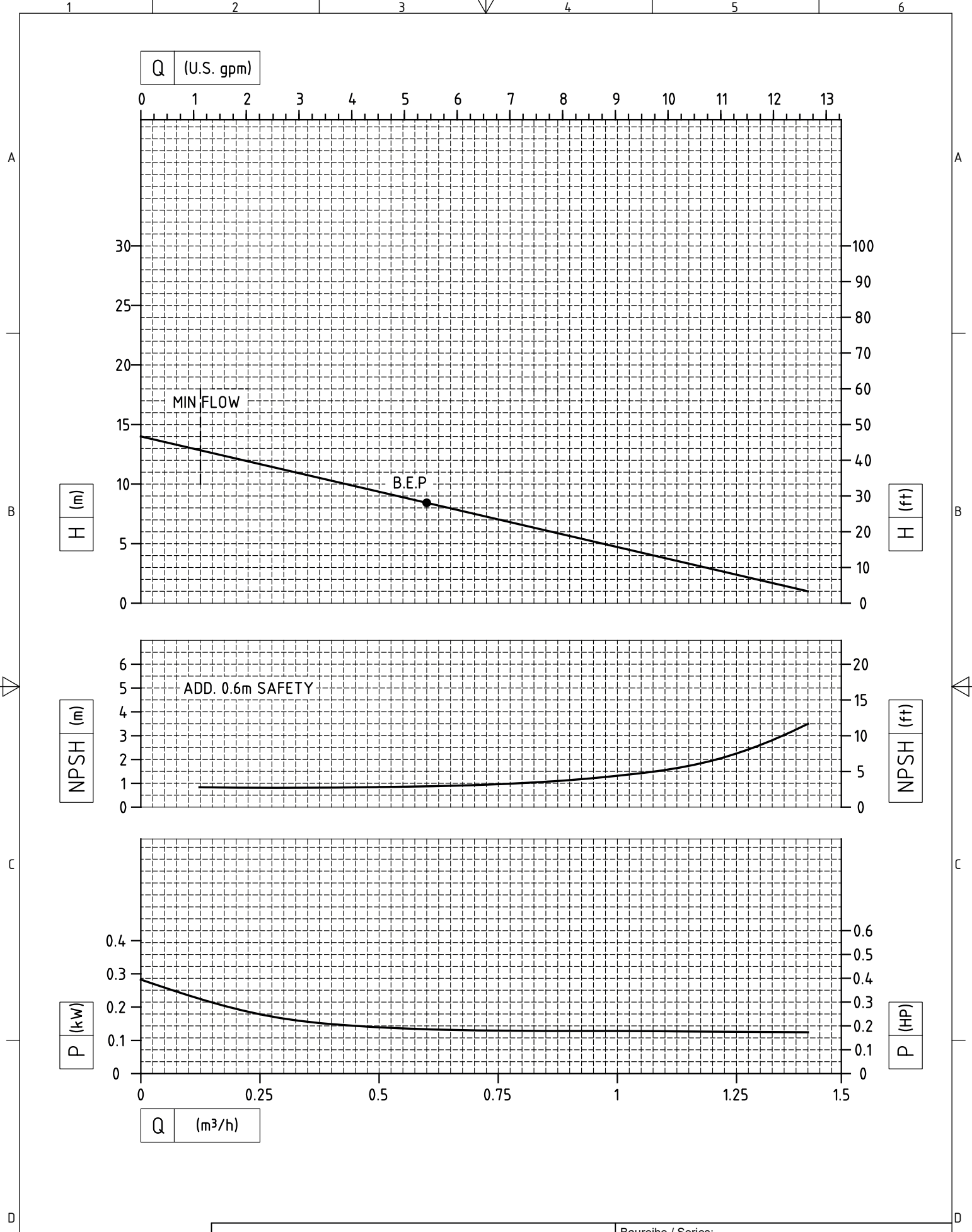
 ...ADVANCED SOLUTIONS...	MARCH PUMPEN GmbH & Co.KG Rathenaustraße 2 D-35394 Gießen www.march-pumpen.com info@march-pumpen.com	Baureihe / Series:	MTA
		Typ / Type:	MTA 25
		Motor Speed:	1750 1/min



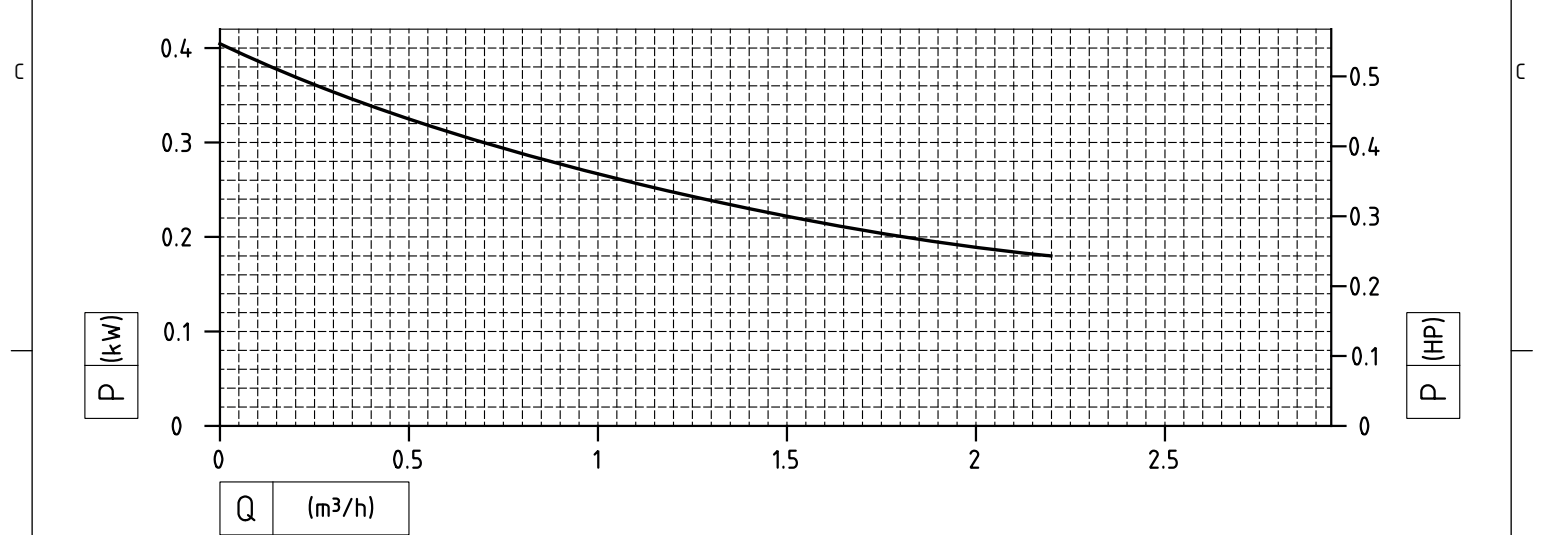
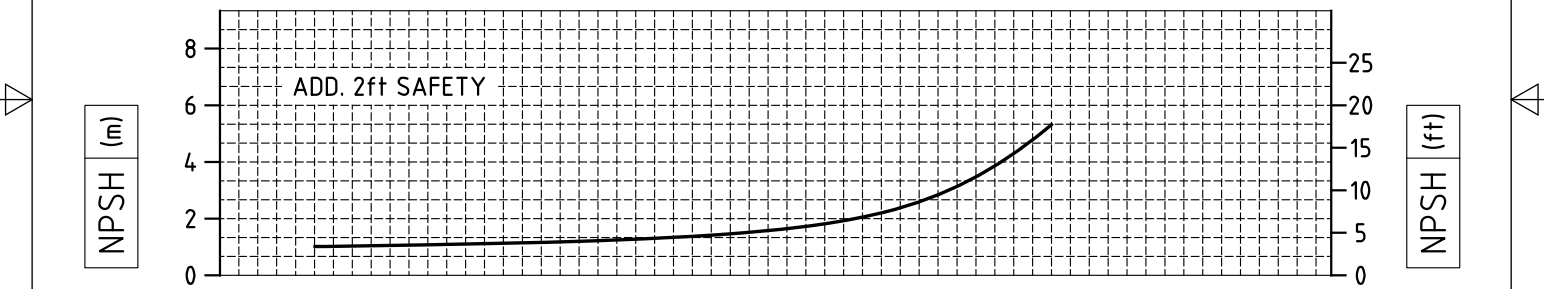
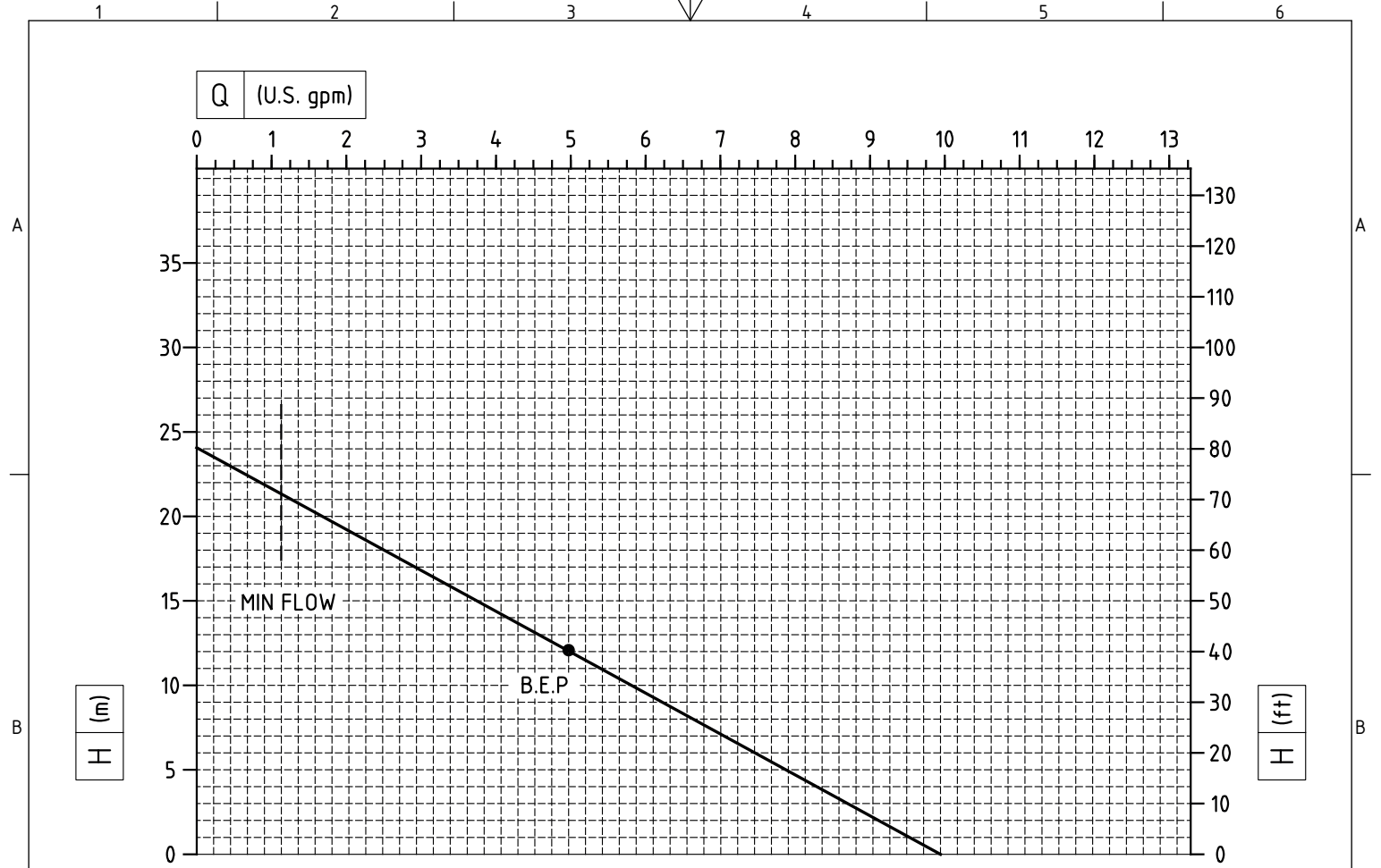
 ...ADVANCED SOLUTIONS...	MARCH PUMPEN GmbH & Co.KG Rathenaustraße 2 D-35394 Gießen www.march-pumpen.com info@march-pumpen.com	Baureihe / Series:	MTA
		Typ / Type:	MTA 25
		Motor Speed:	2900 1/min



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		Typ / Type:	MTA 25
		Motor Speed:	3500 1/min

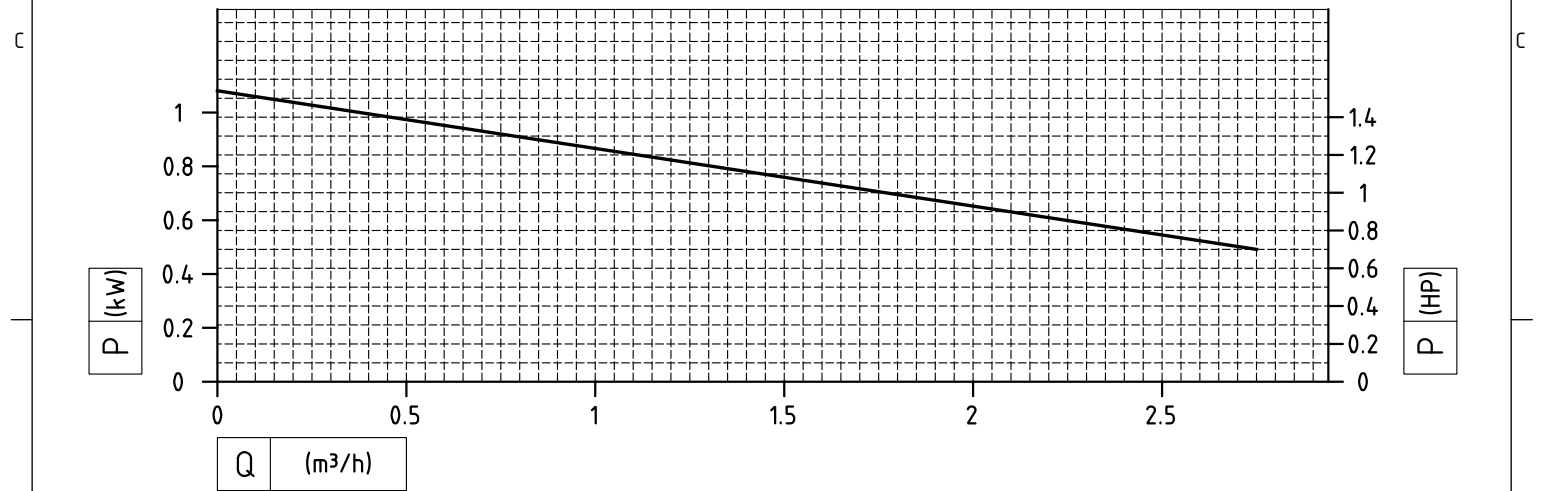
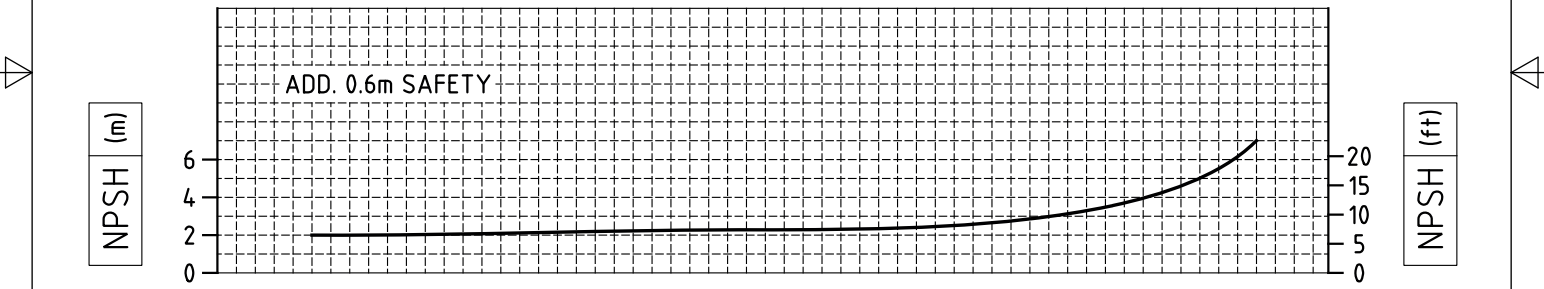
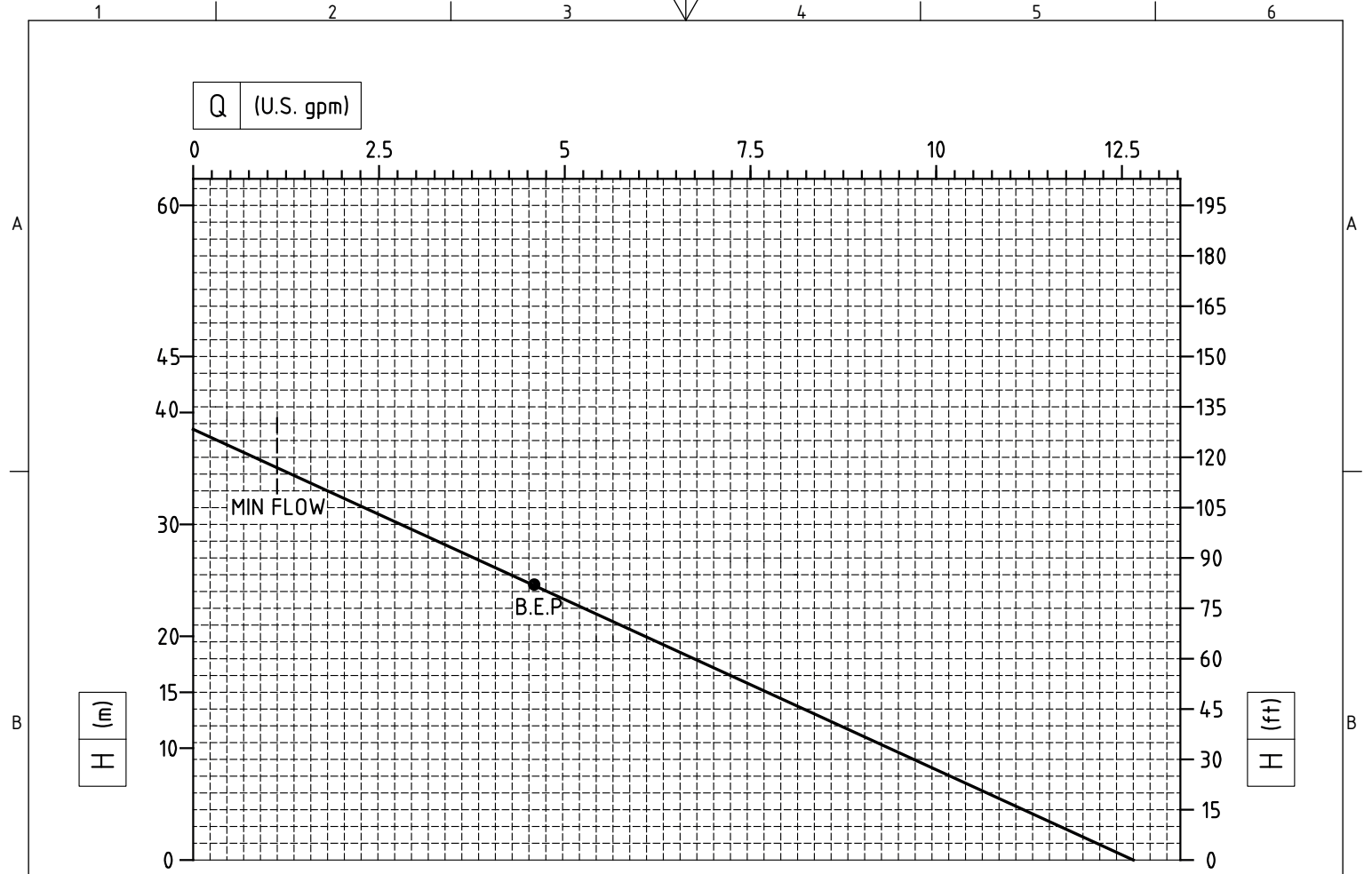


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	www.march-pumpen.com info@march-pumpen.com	Typ / Type: MTA 37
		Motor Speed: 1450 1/min



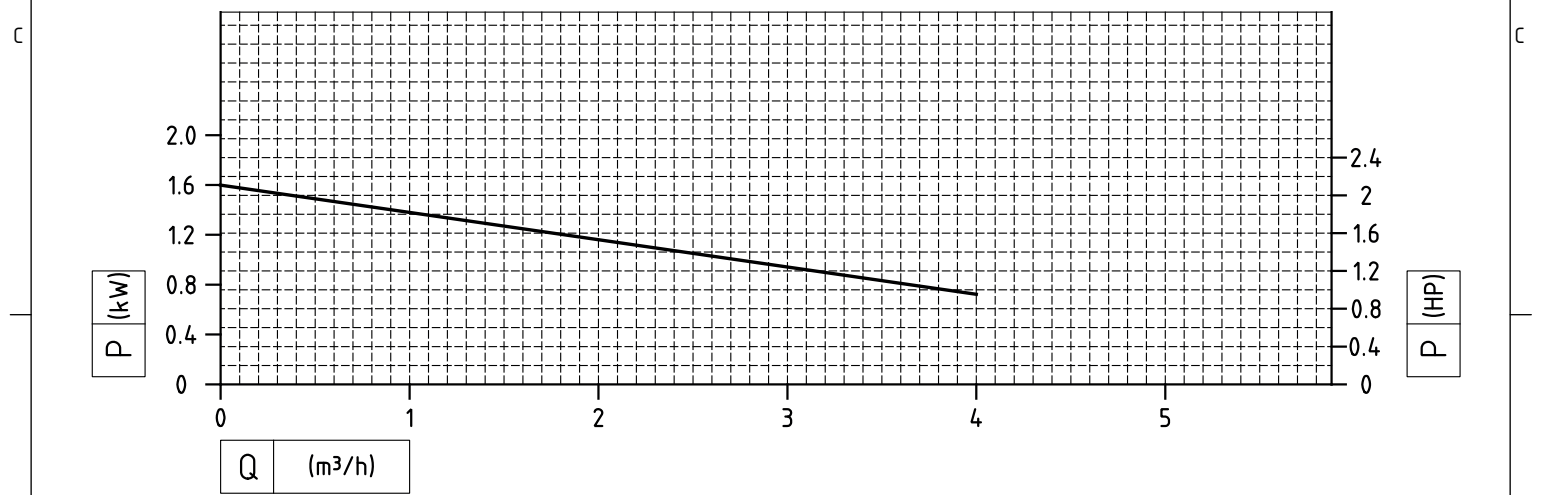
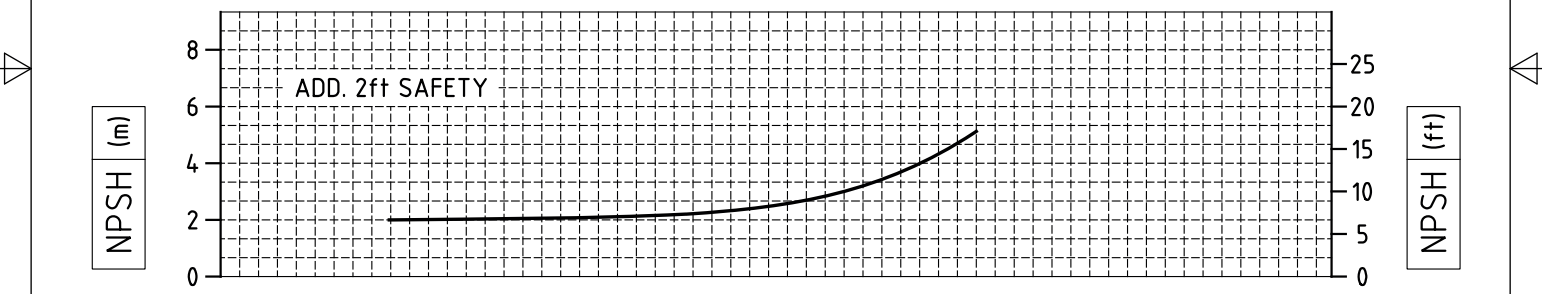
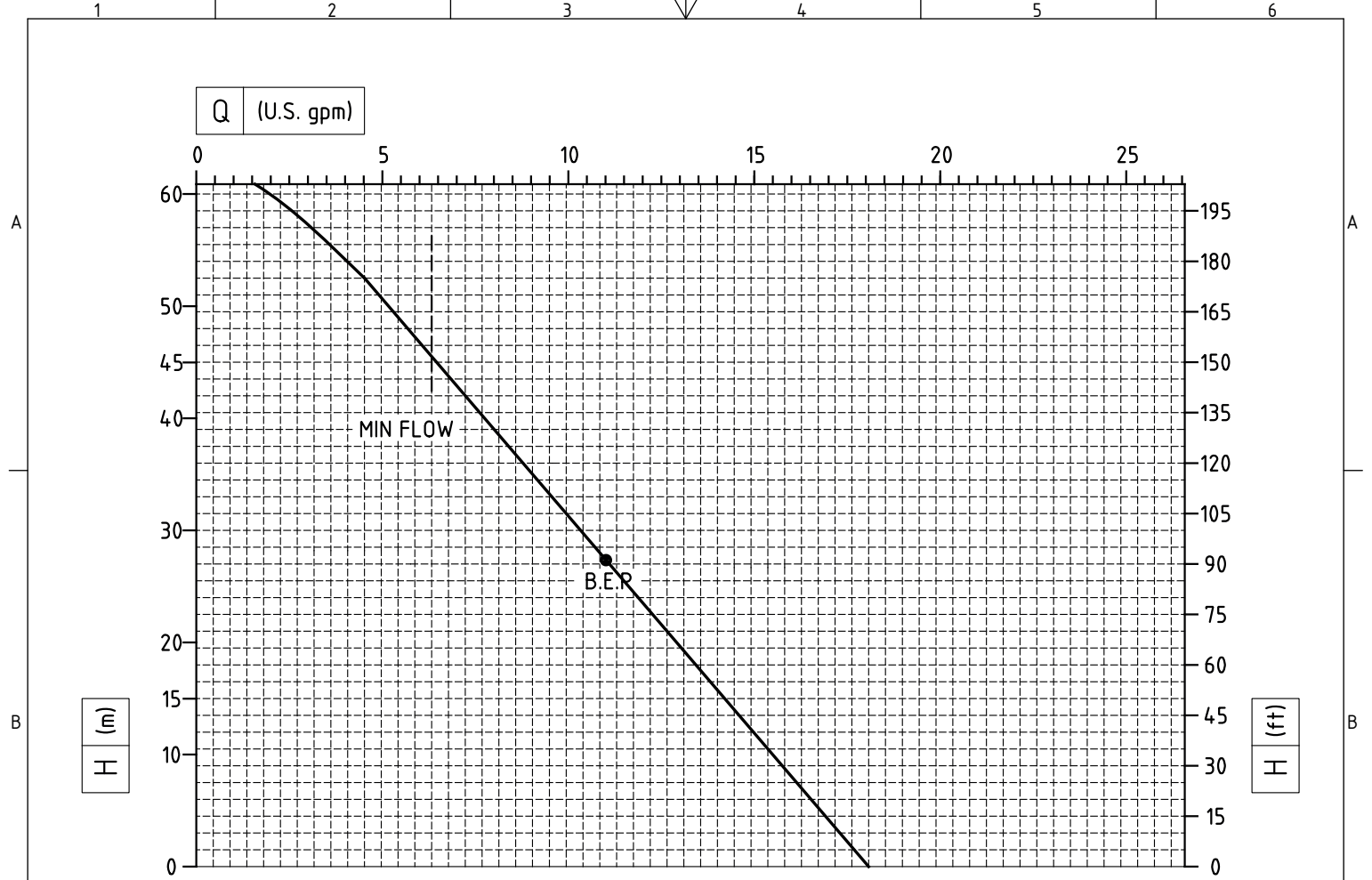
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info@march-pumpen.com

Baureihe / Series:	MTA
Typ / Type:	MTA 37
Motor Speed:	1750 1/min

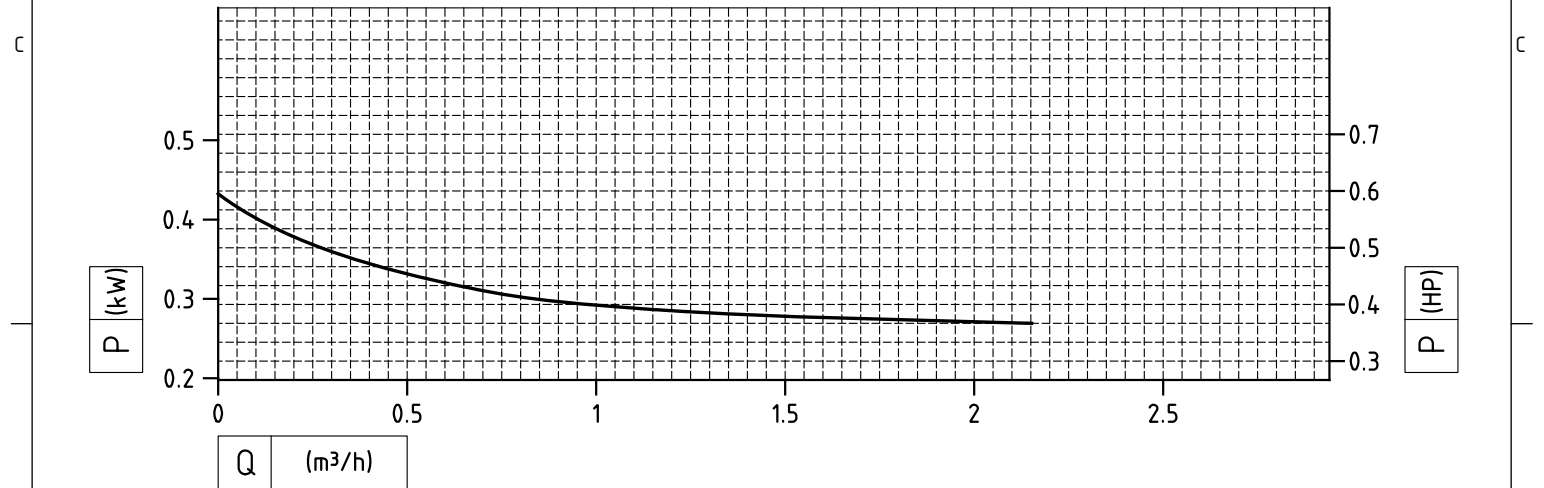
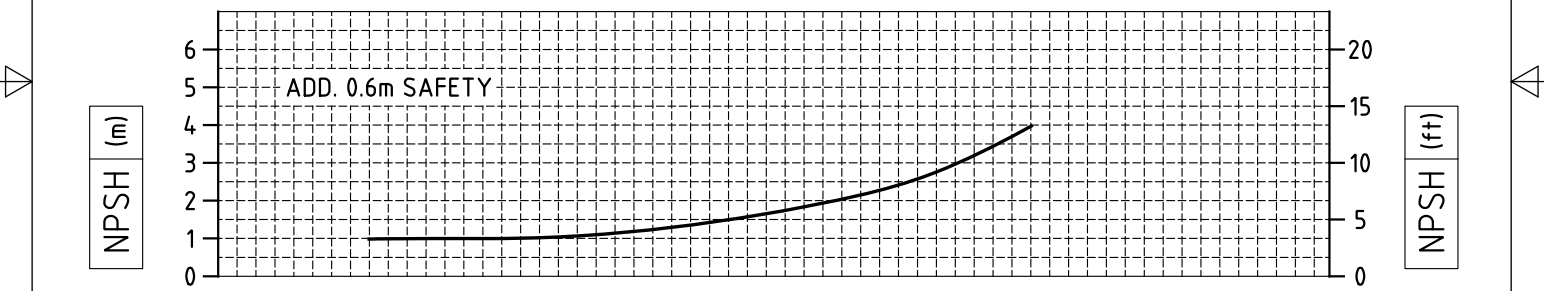
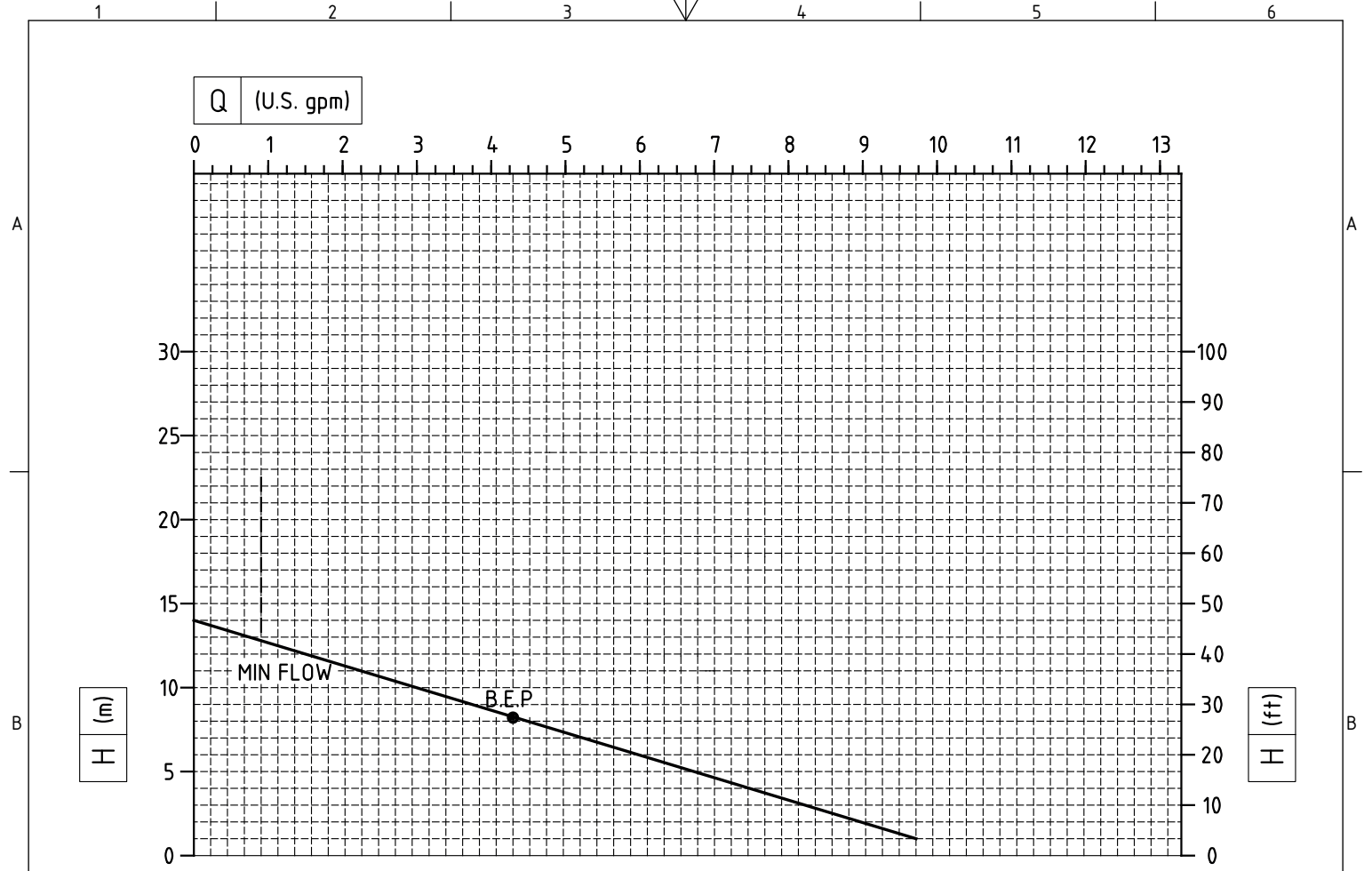


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Baureihe / Series:	MTA
Typ / Type:	MTA 37
Motor Speed:	2900 1/min



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		Typ / Type: MTA 37
		Motor Speed: 3500 1/min



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Baureihe / Series:

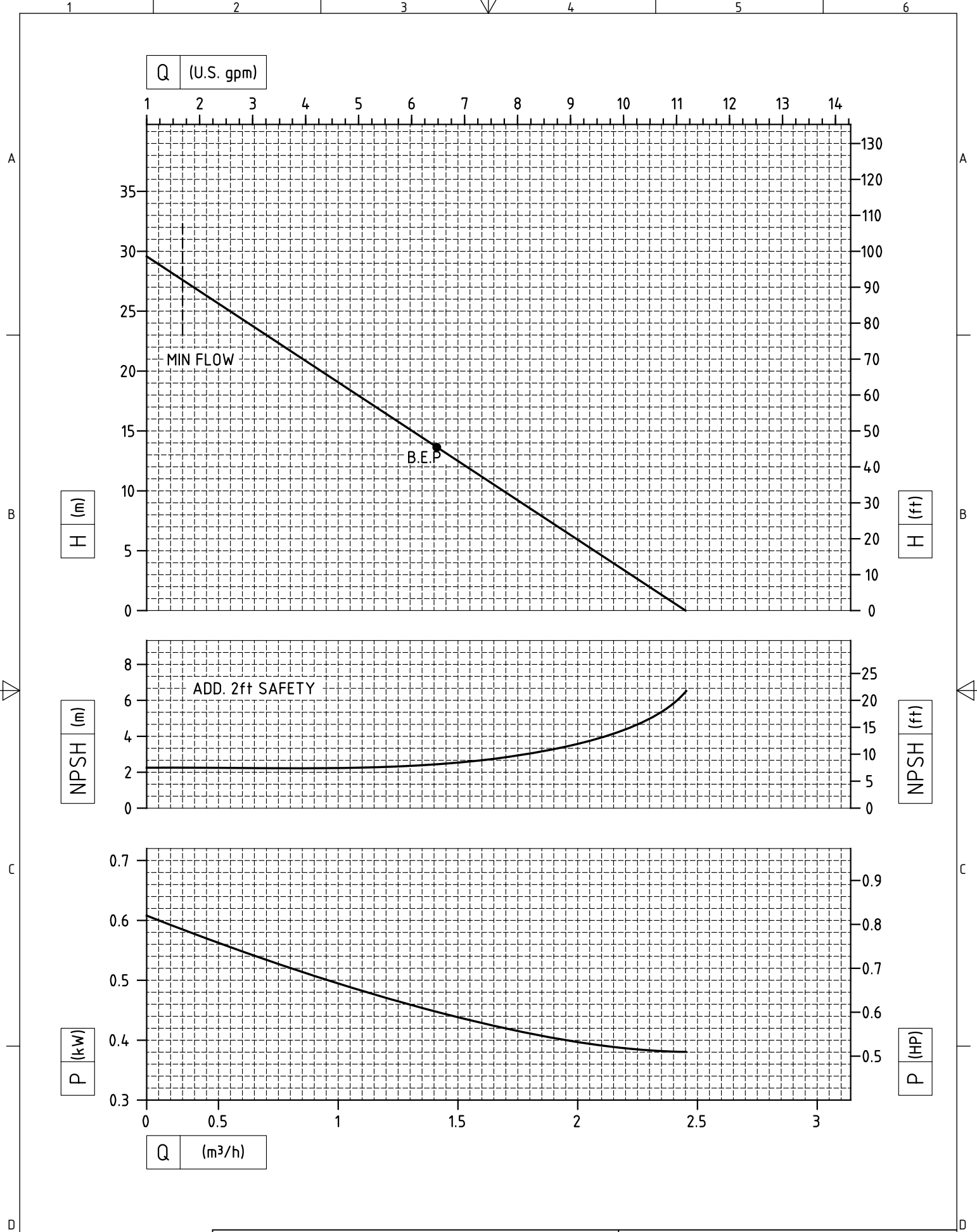
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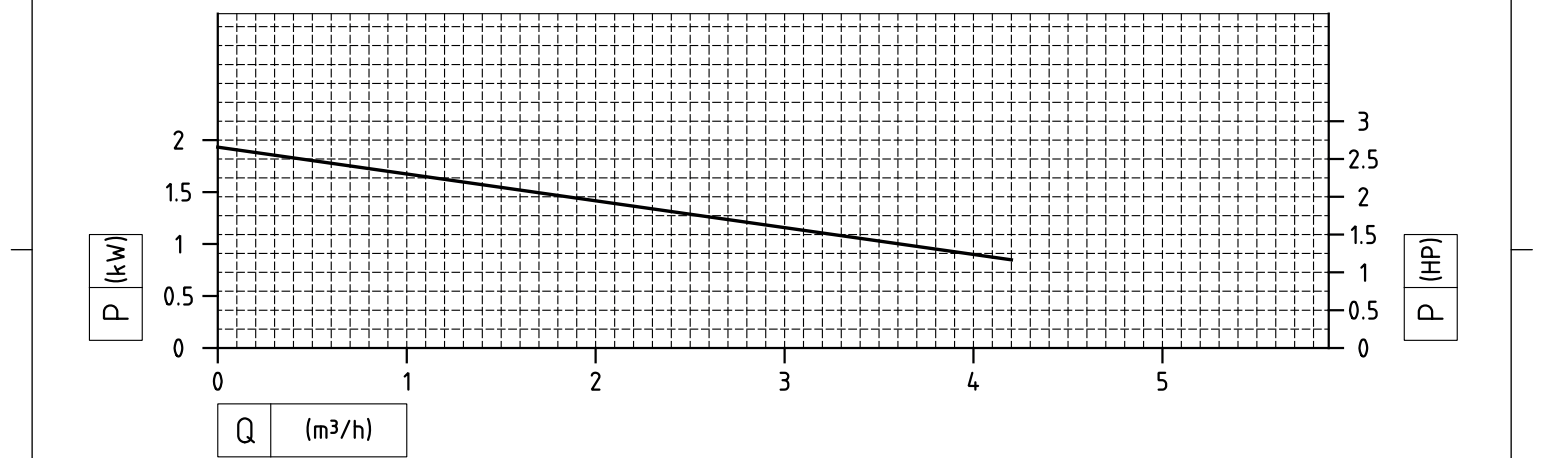
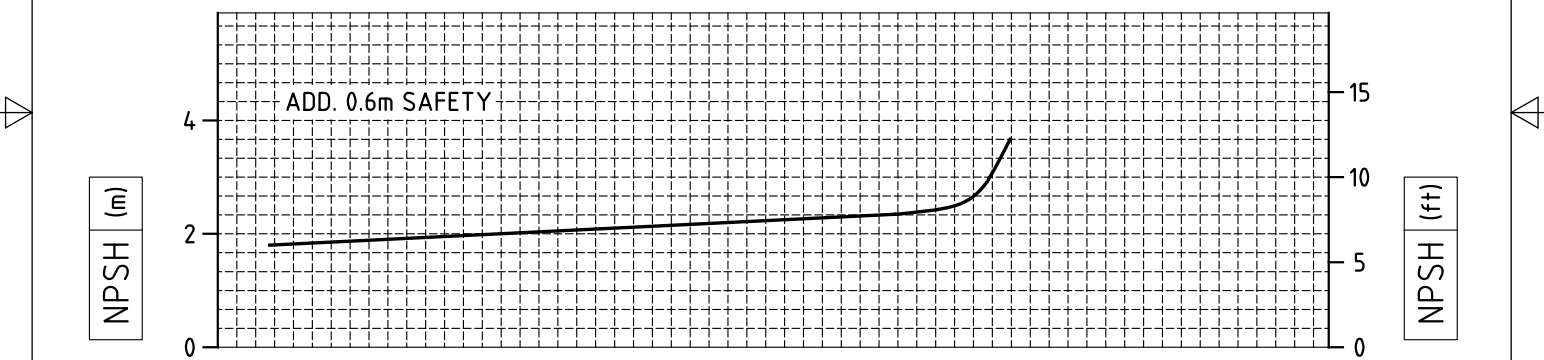
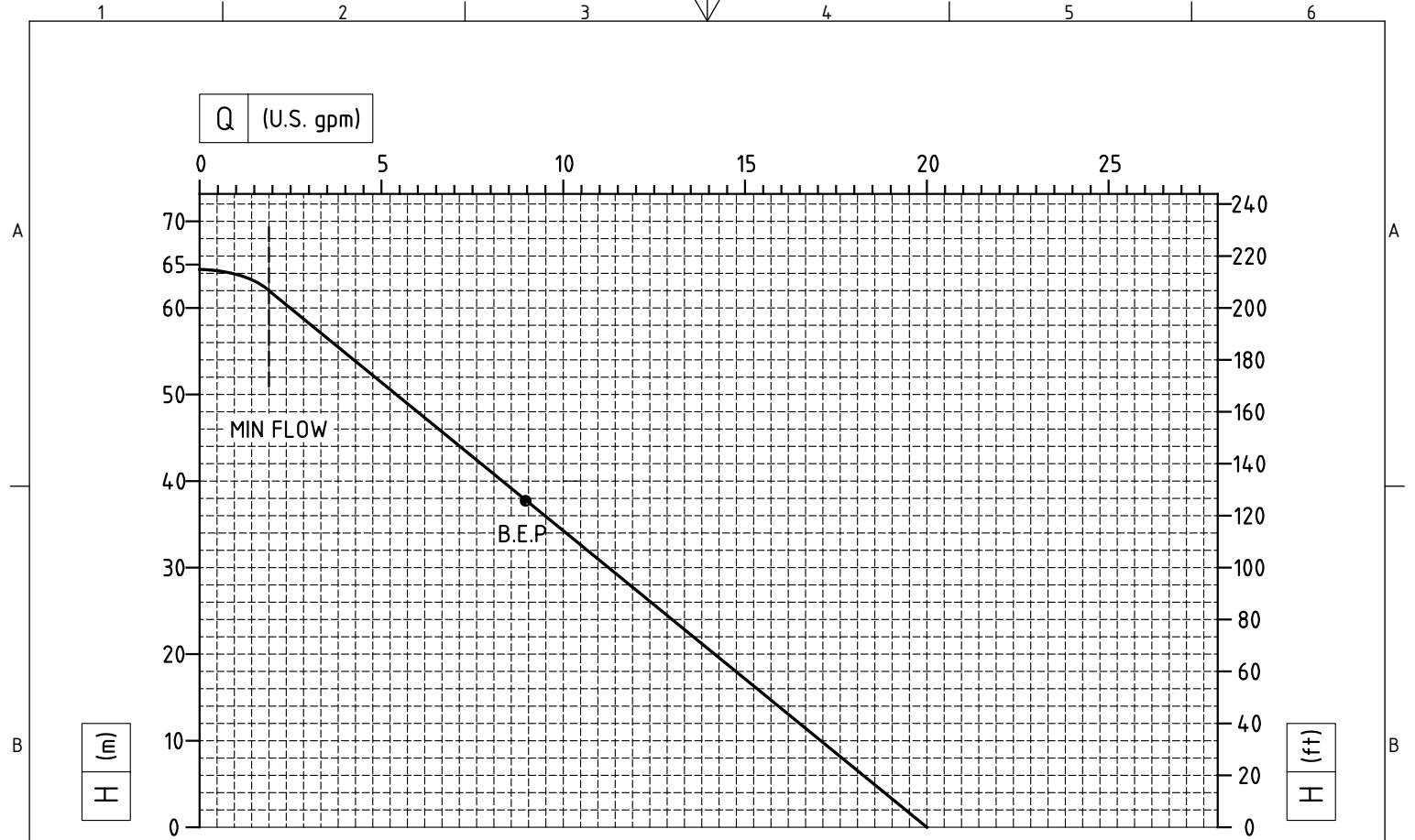
MTA 49

Motor Speed:

1450 1/min



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		Typ / Type: MTA 49
		Motor Speed: 1750 1/min



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Baureihe / Series:

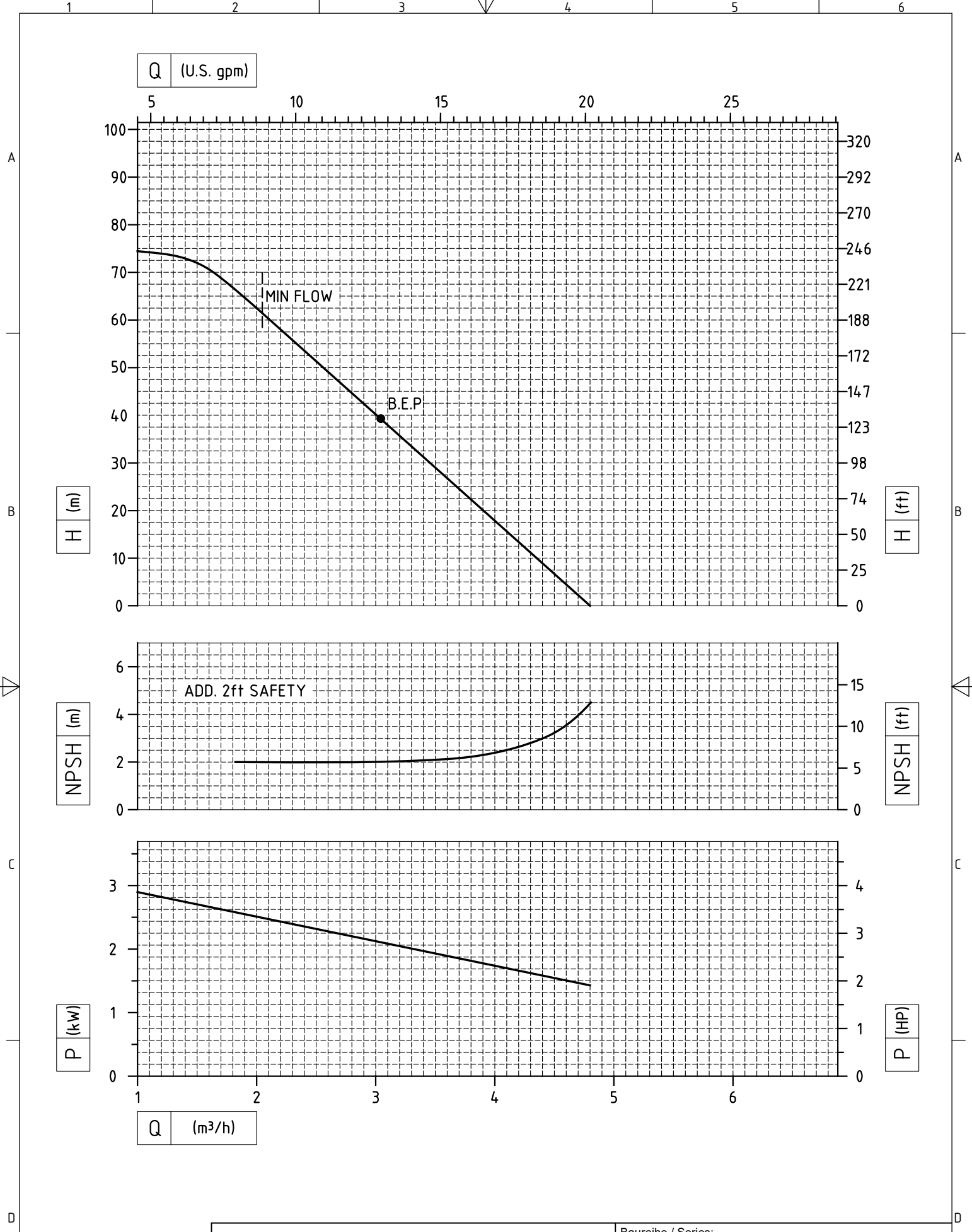
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Typ / Type:

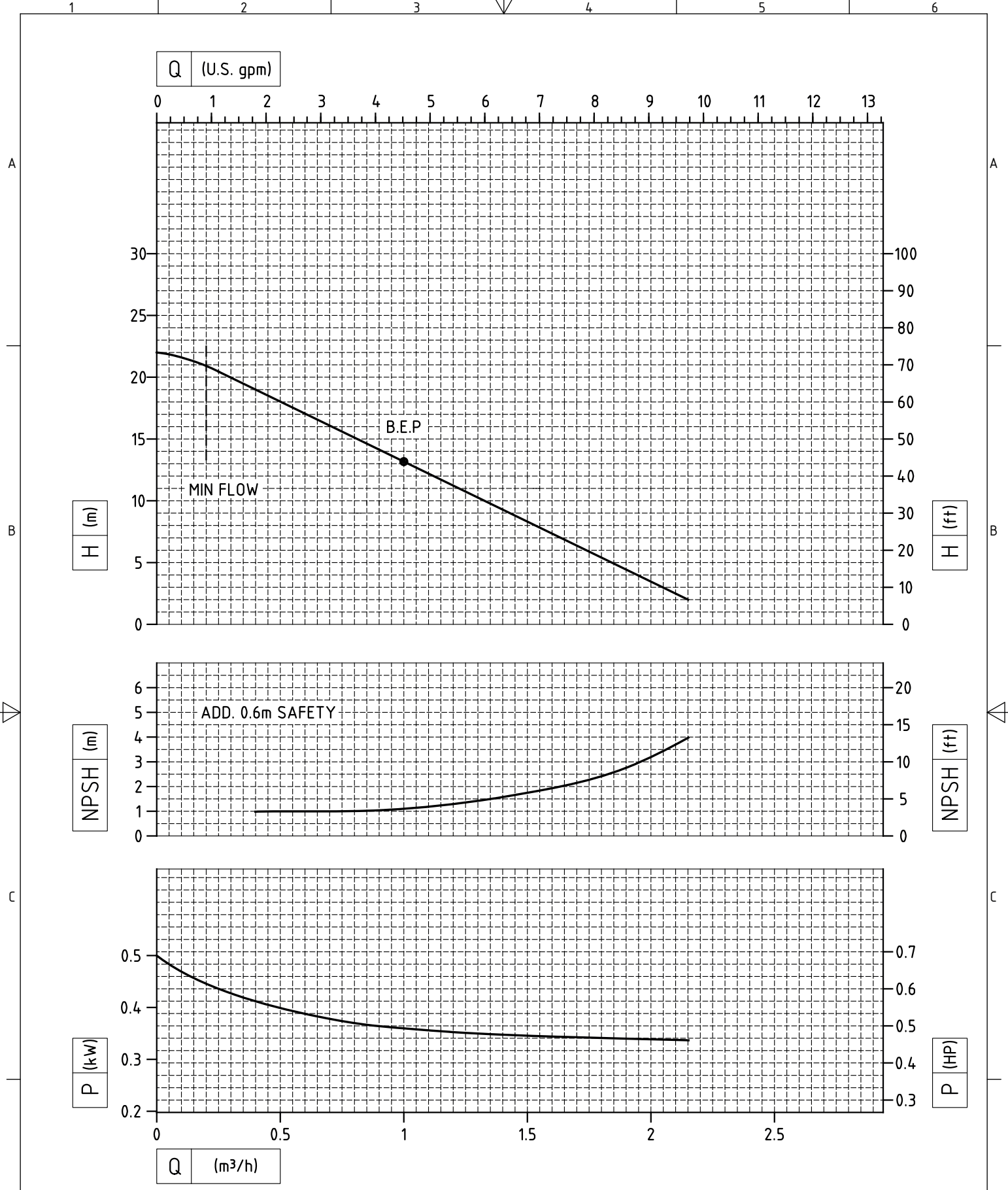
MTA 49

Motor Speed:

2900 1/min

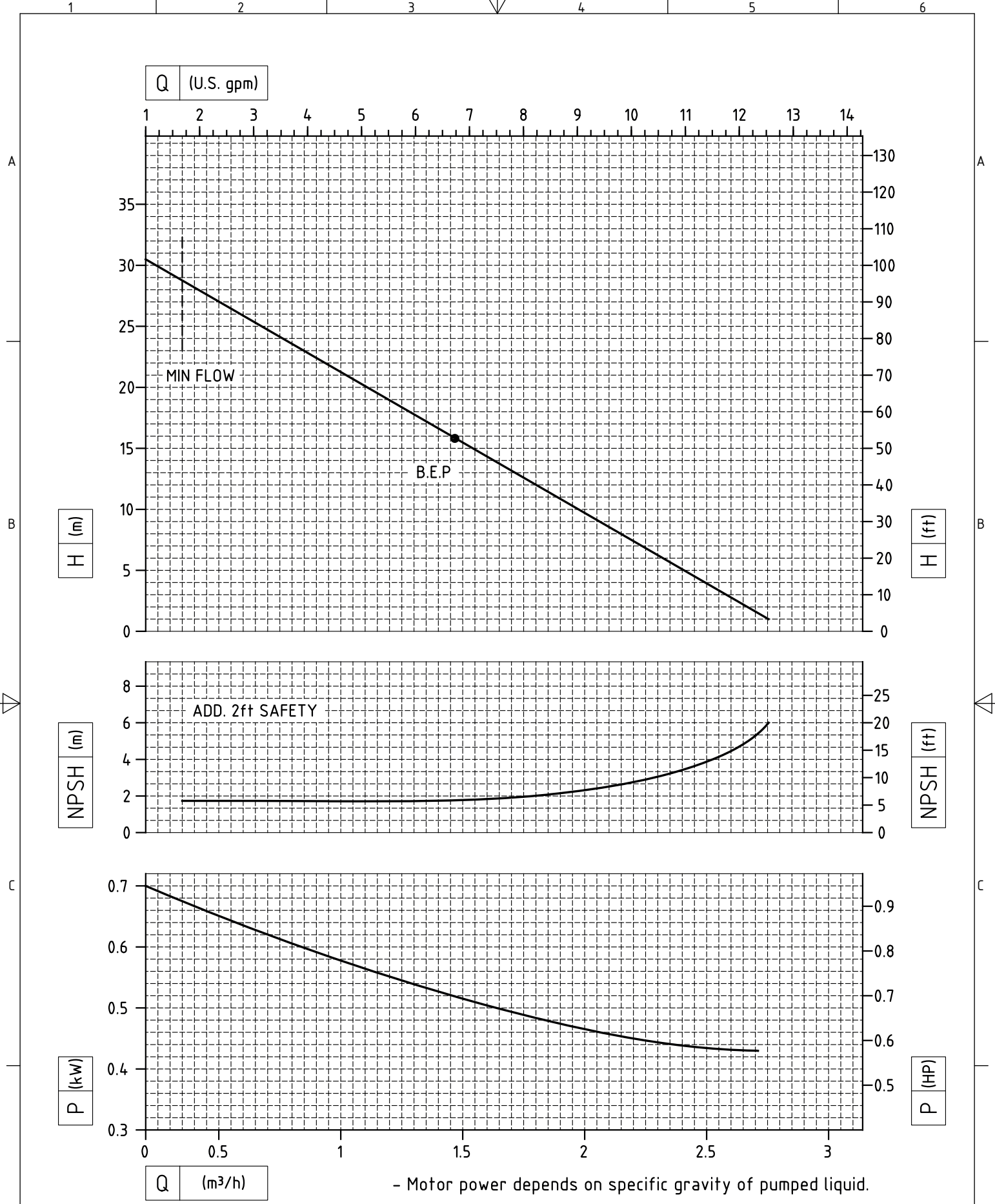


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		Typ / Type: MTA 49
		Motor Speed: 3500 1/min

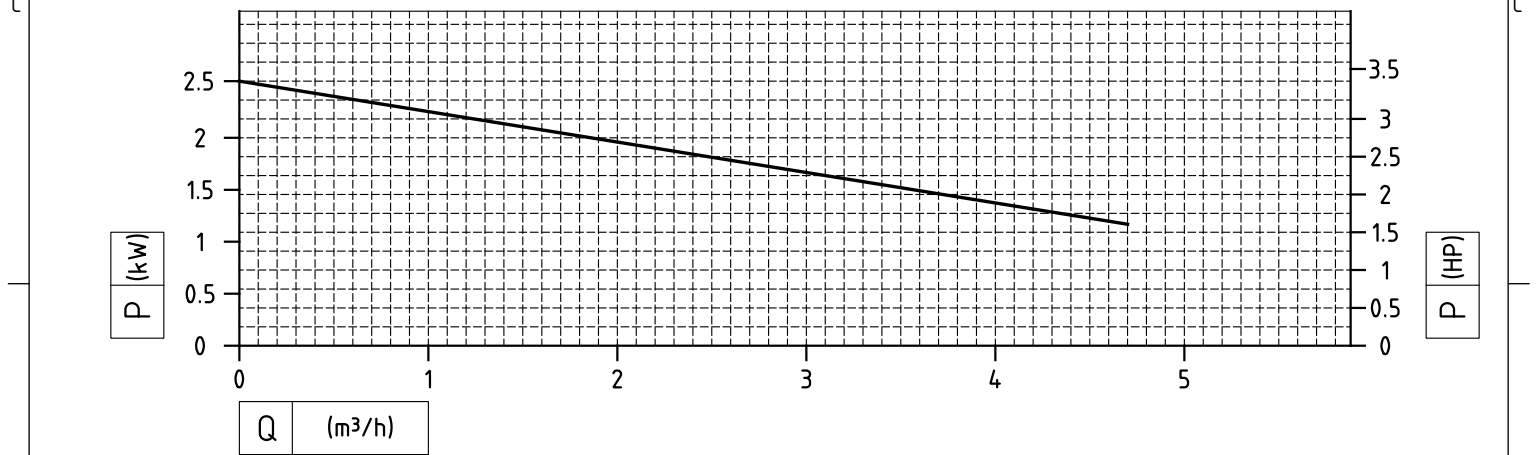
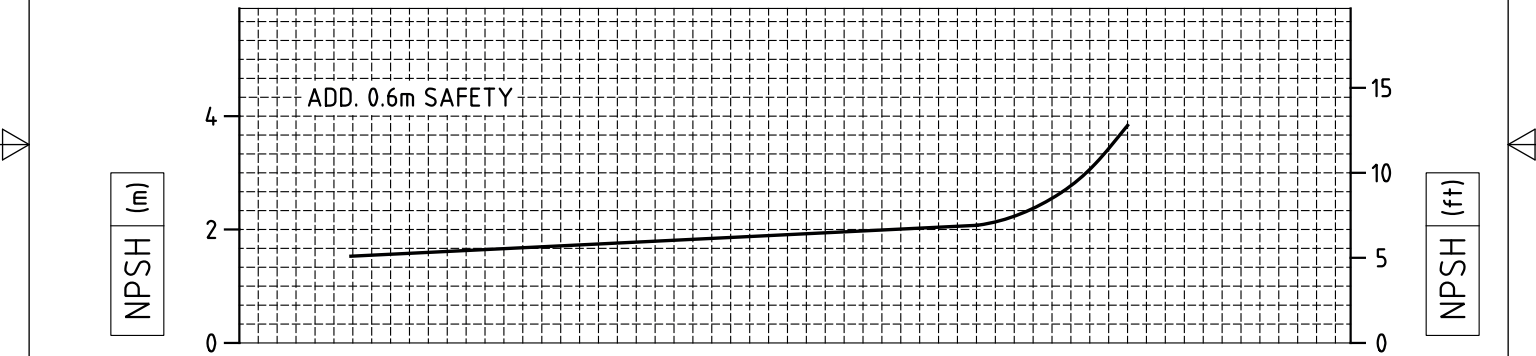
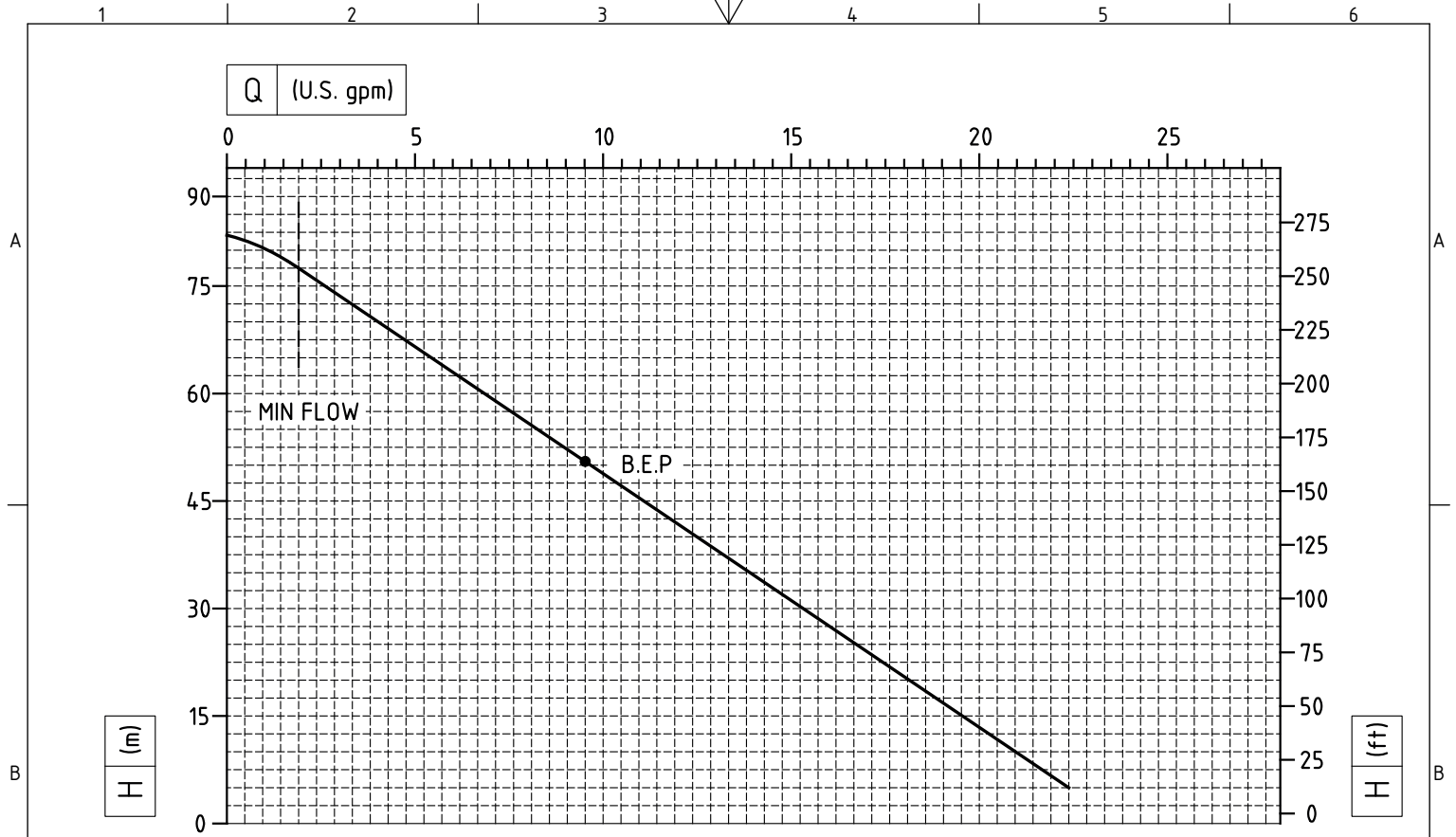


Motor power depends on specific gravity of pumped liquid.

 ...ADVANCED SOLUTIONS...	MARCH PUMPEN GmbH & Co.KG Rathenaustraße 2 D-35394 Gießen	Baureihe / Series: MTA
	www.march-pumpen.com info@march-pumpen.com	Typ / Type: MTA 55
		Motor Speed: 1450 1/min

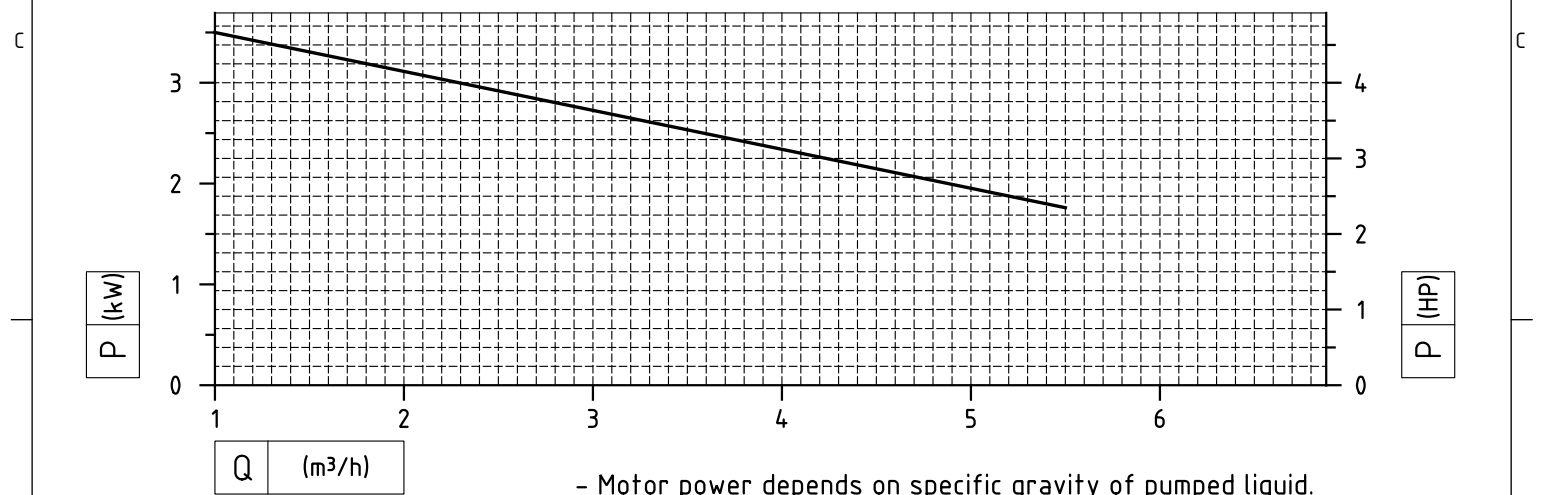
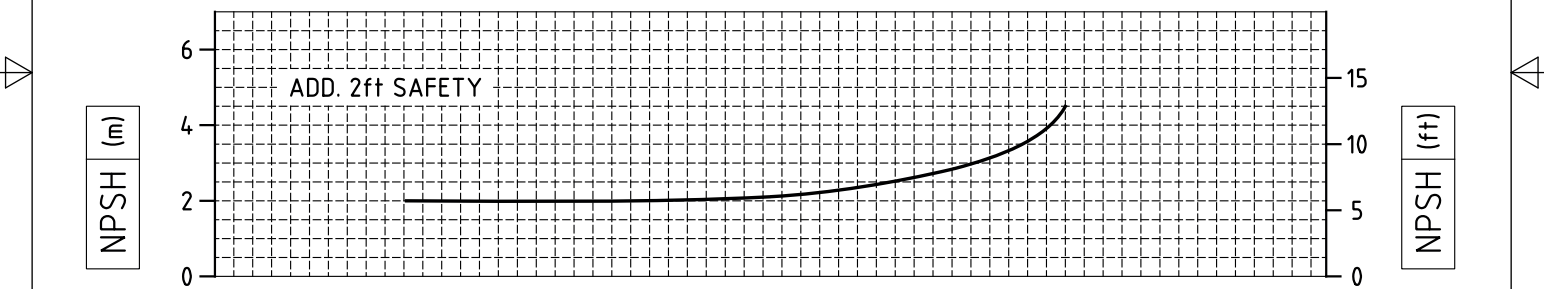
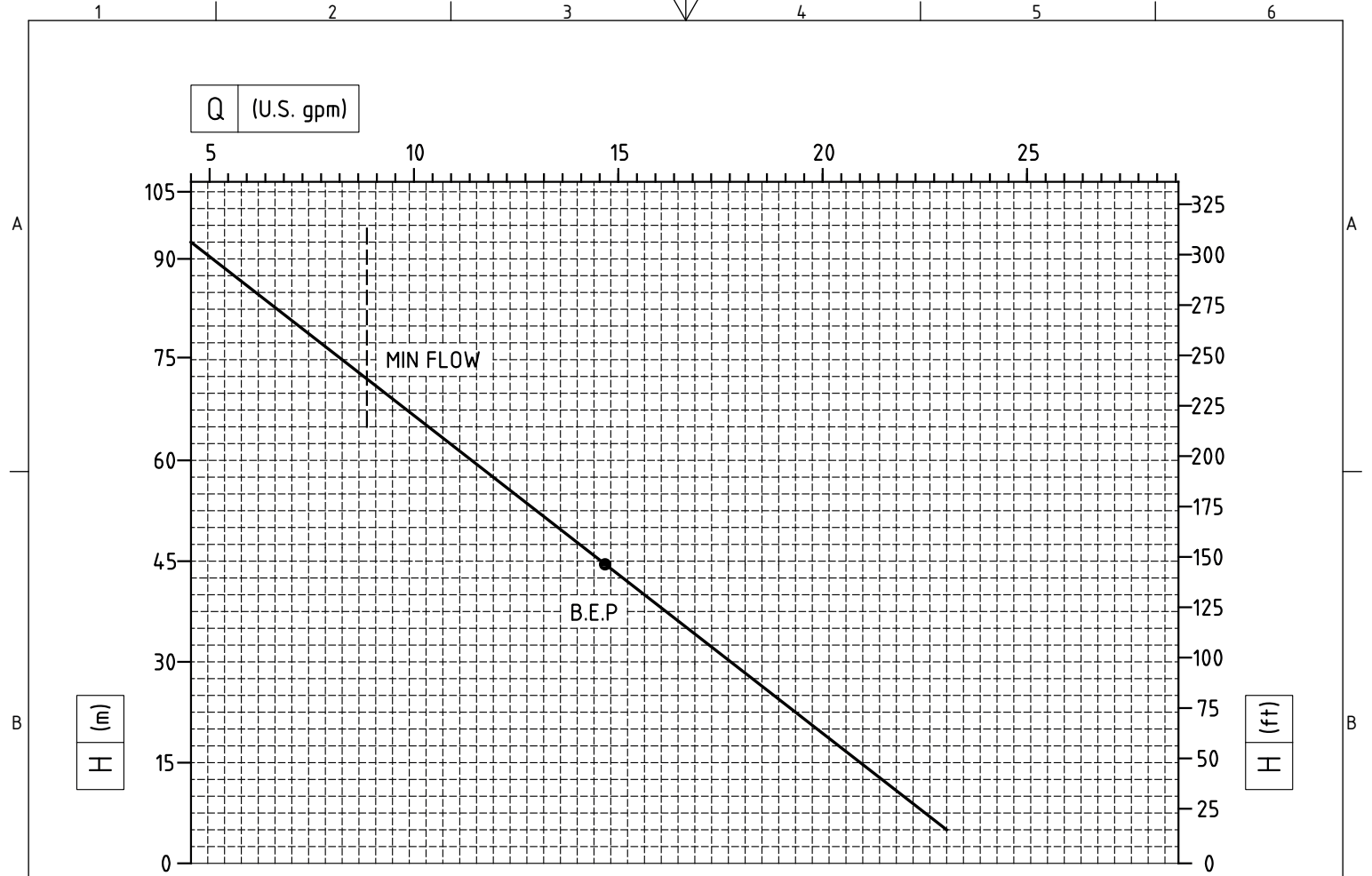


 ...ADVANCED SOLUTIONS...	MARCH PUMPEN GmbH & Co.KG Rathenaustraße 2 D-35394 Gießen www.march-pumpen.com info@march-pumpen.com	Baureihe / Series:	MTA
		Typ / Type:	MTA 55
		Motor Speed:	1750 1/min



Motor power depends on specific gravity
of pumped liquid.

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		Typ / Type:	MTA 55
		Motor Speed:	2900 1/min



- Motor power depends on specific gravity of pumped liquid.



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Baureihe / Series:

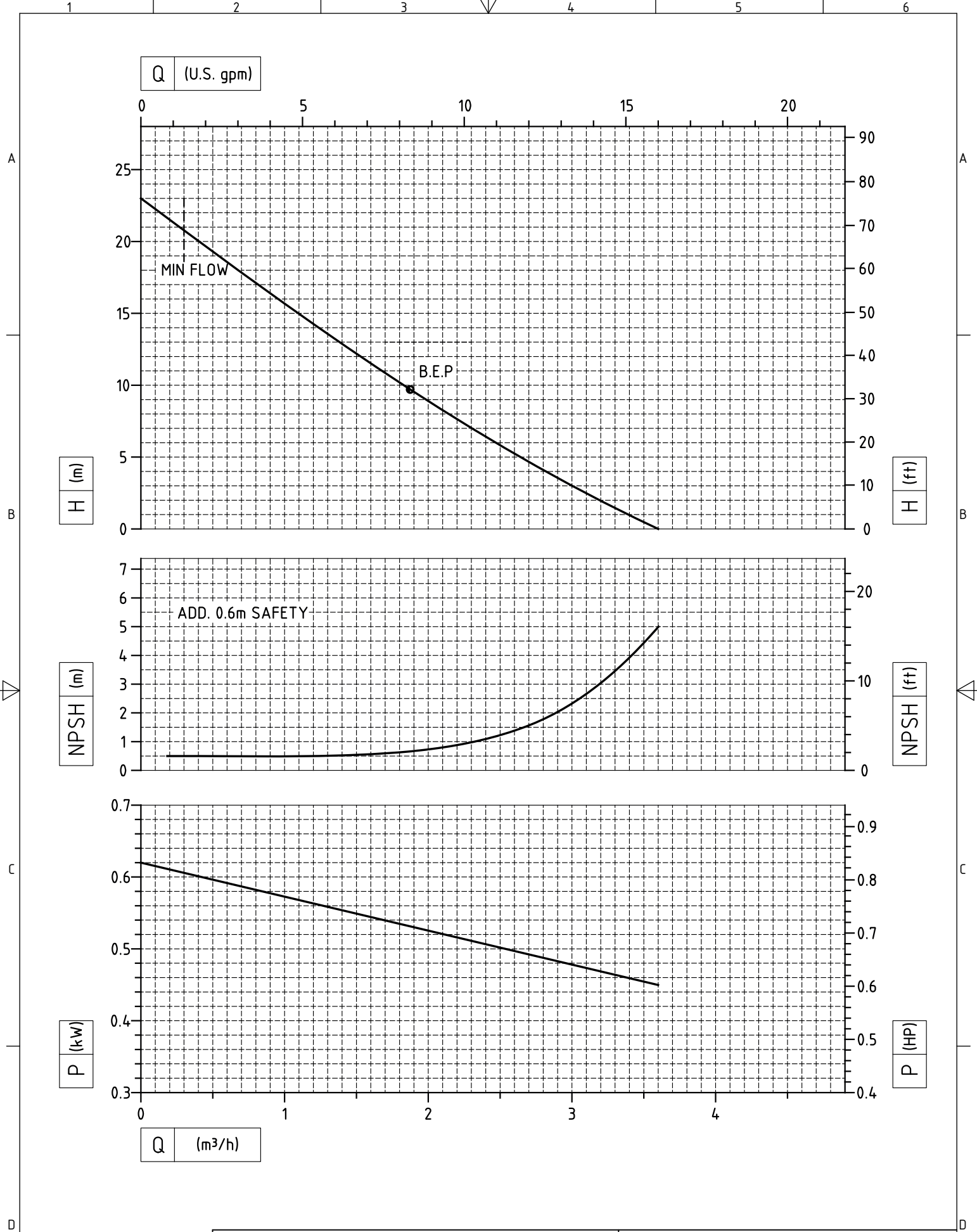
MTA

Typ / Type:

MTA 55

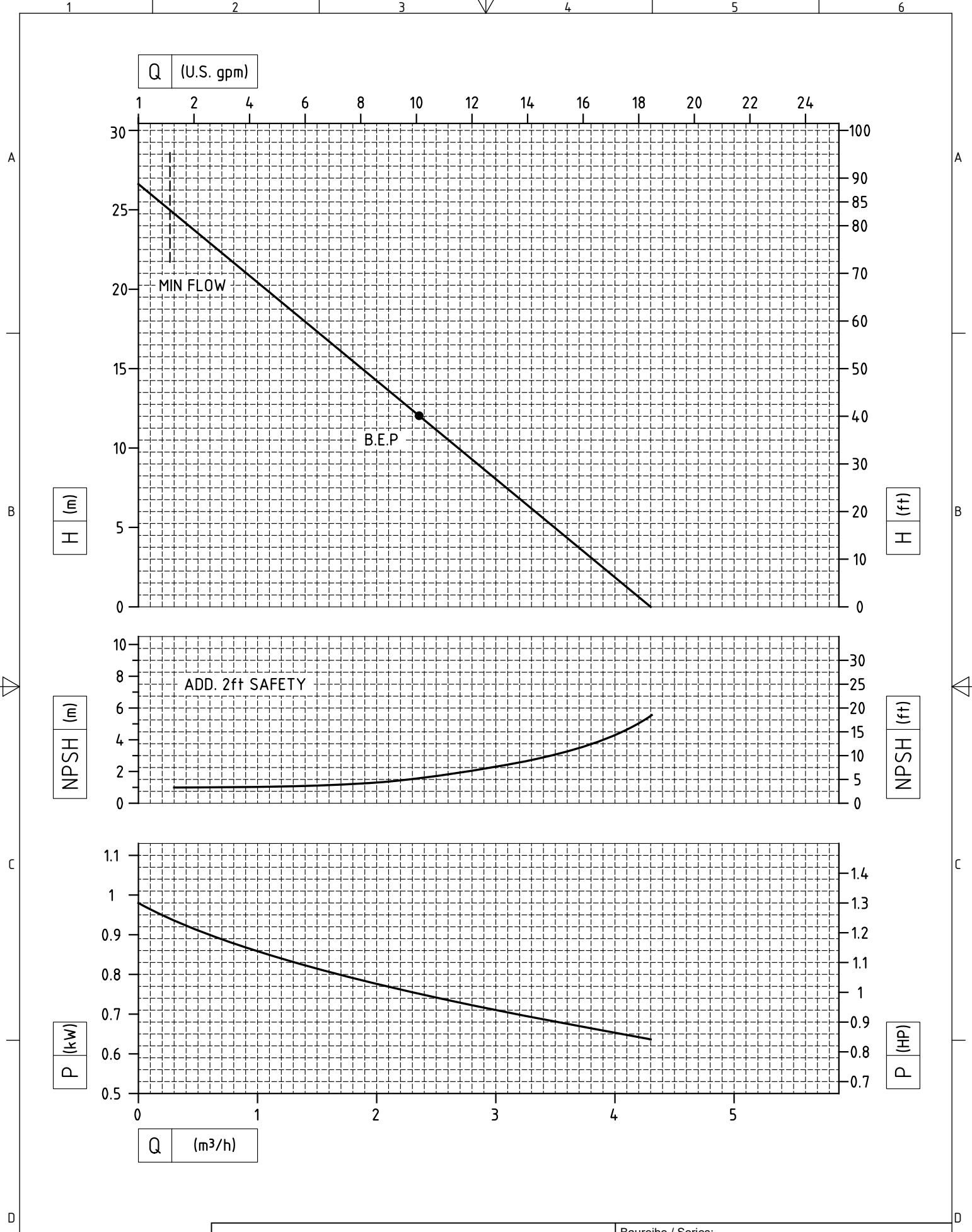
Motor Speed:

3500 1/min

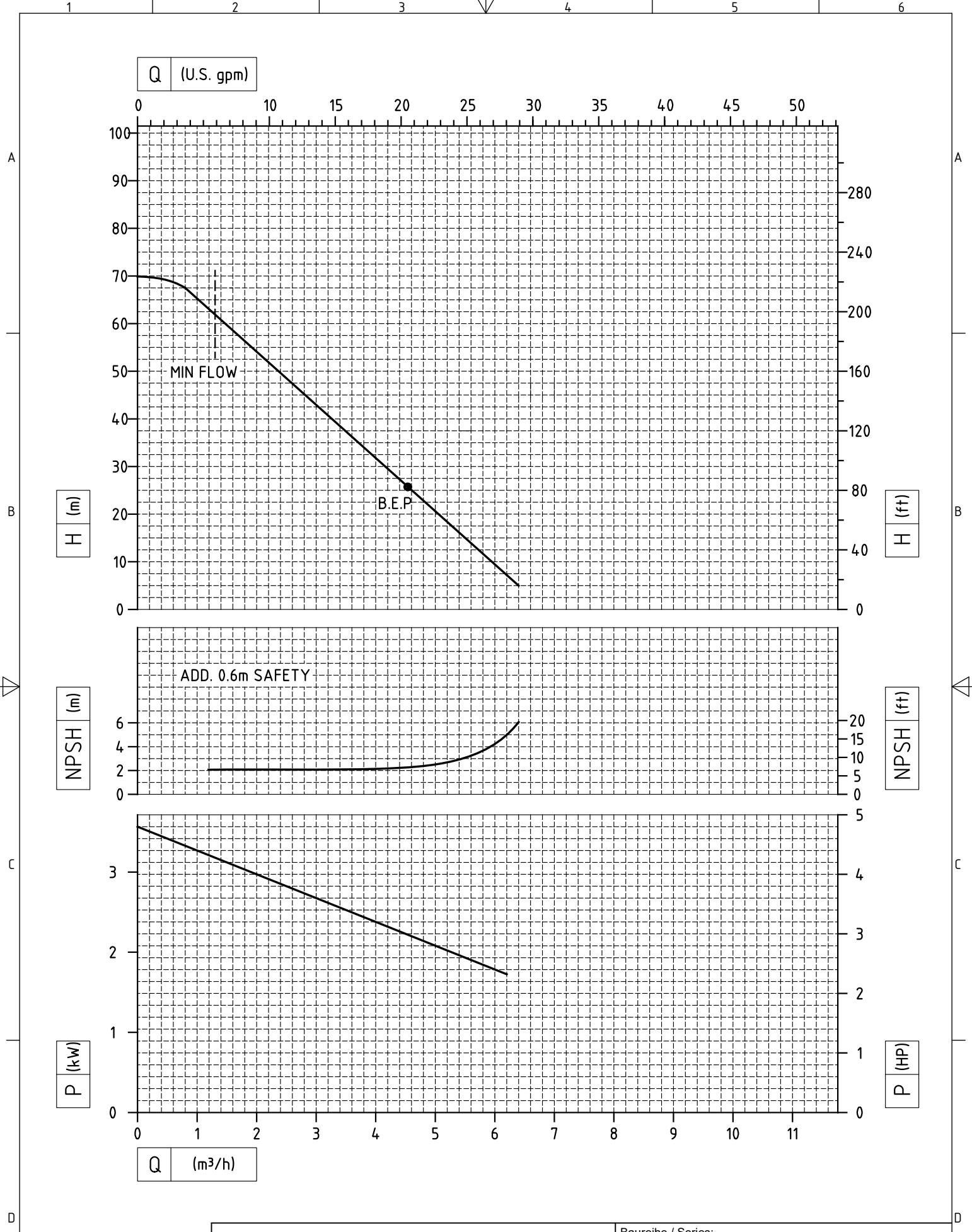


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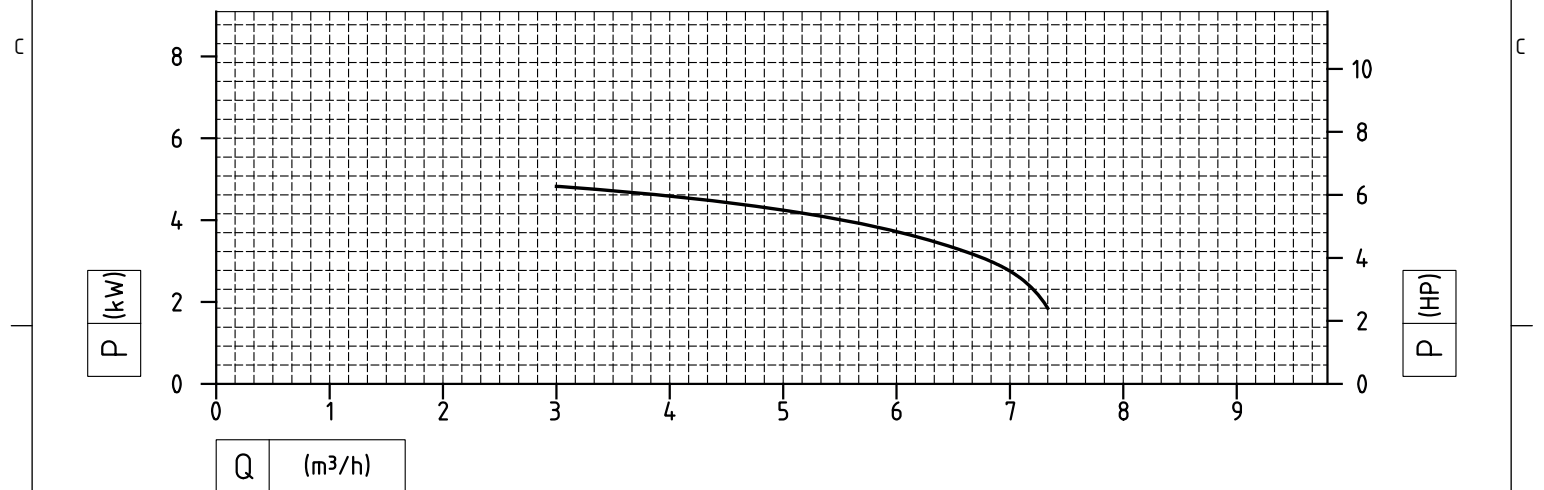
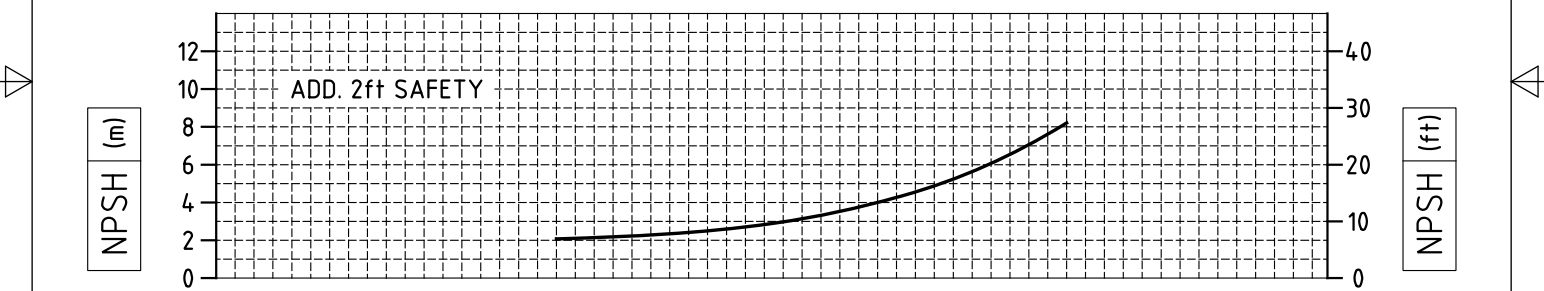
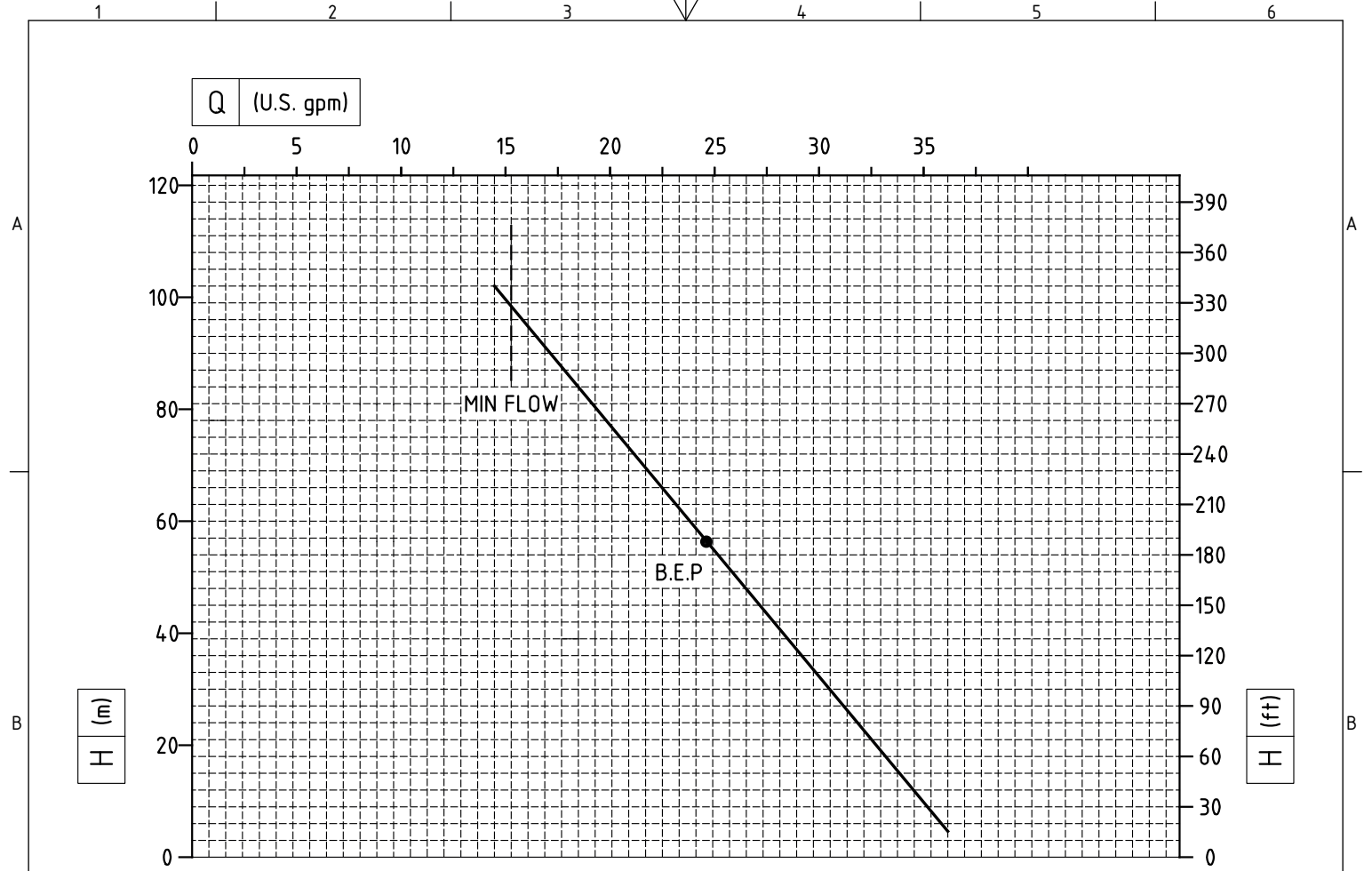
Baureihe / Series:	MTA
Typ / Type:	MTA 78
Motor Speed:	1450 1/min



 ...ADVANCED SOLUTIONS...	MARCH PUMPEN GmbH & Co.KG Rathenaustraße 2 D-35394 Gießen	Baureihe / Series: MTA
	www.march-pumpen.com info@march-pumpen.com	Typ / Type: MTA 78
		Motor Speed: 1750 1/min



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		Typ / Type: MTA 78
		Motor Speed: 2900 1/min



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Baureihe / Series:

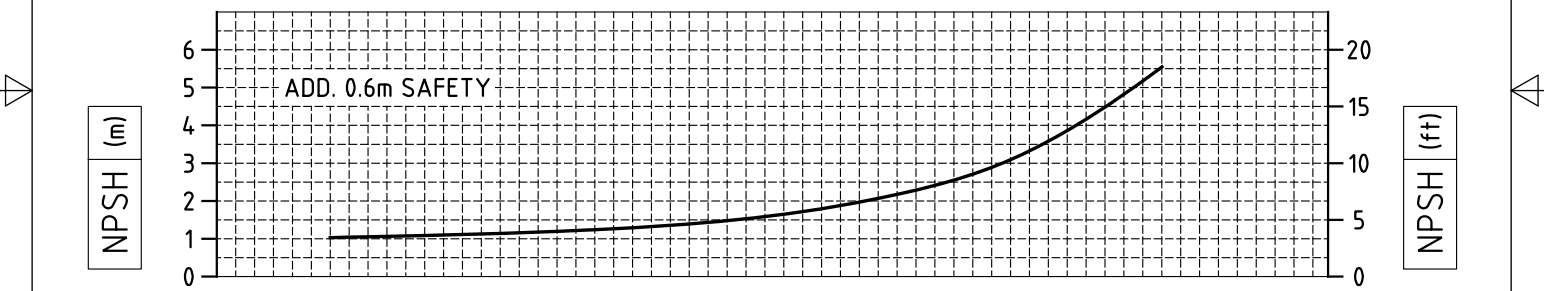
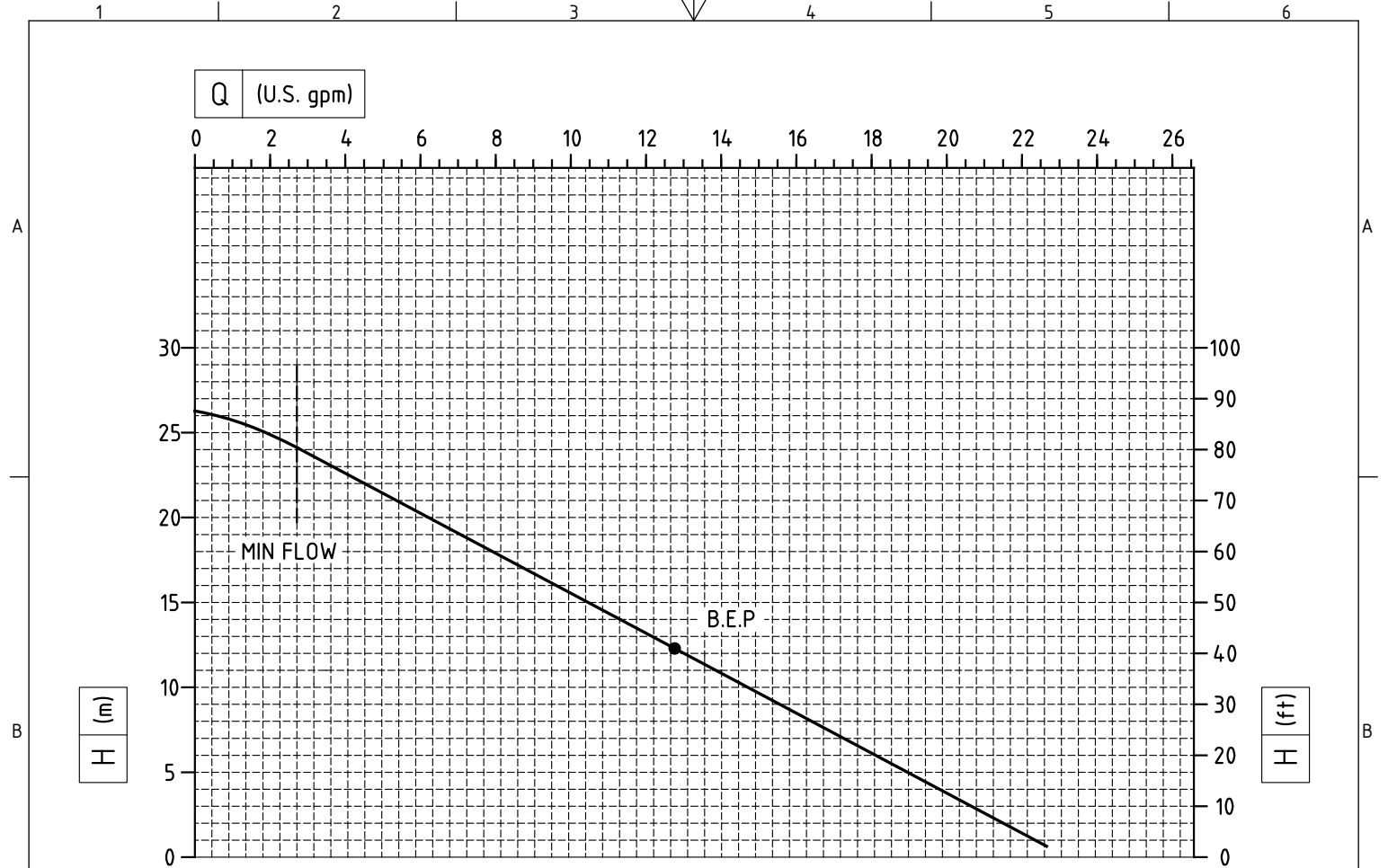
MTA

Typ / Type:

MTA 78

Motor Speed:

3500 1/min



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Baureihe / Series:

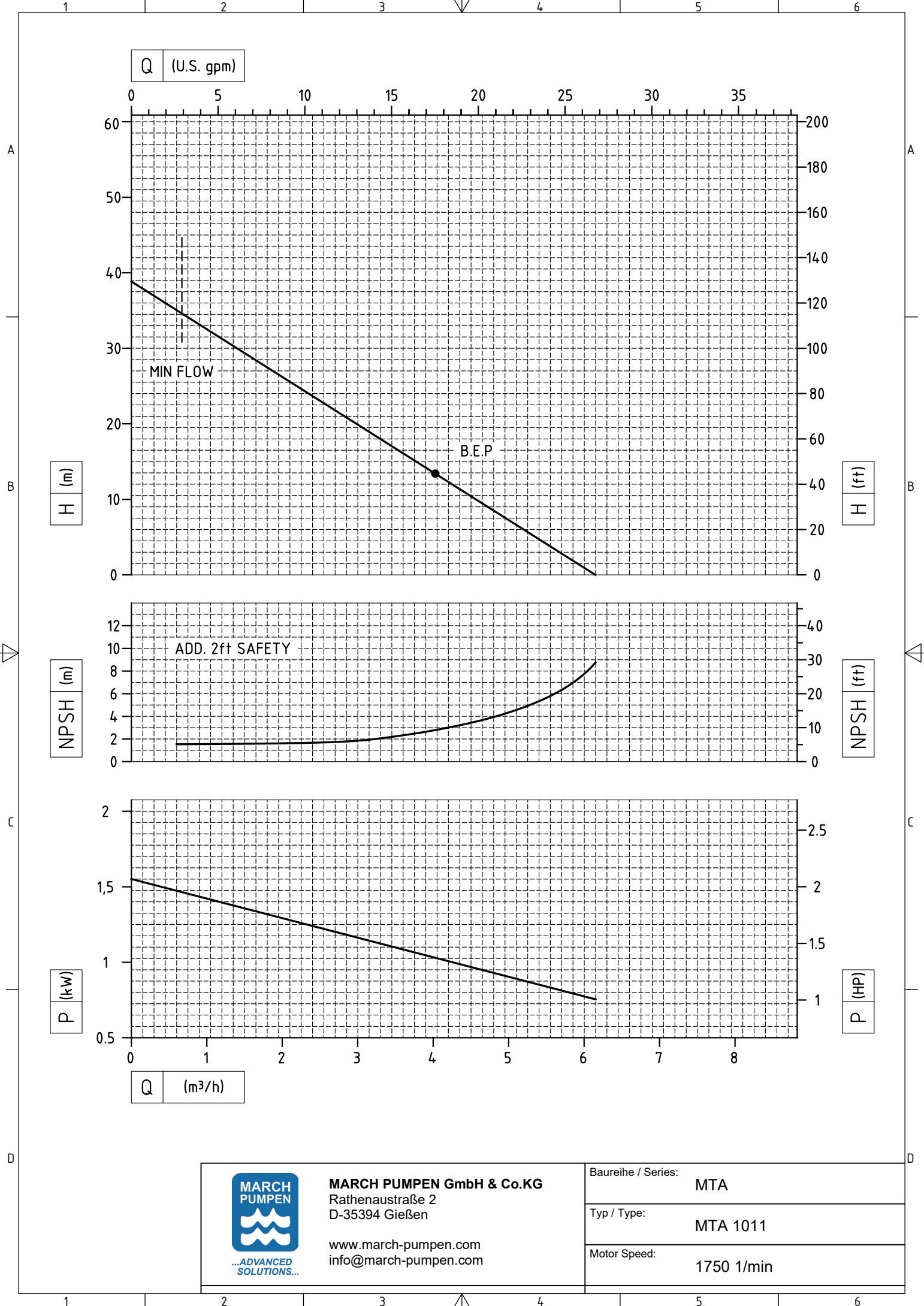
MTA

Typ / Type:

MTA 1011

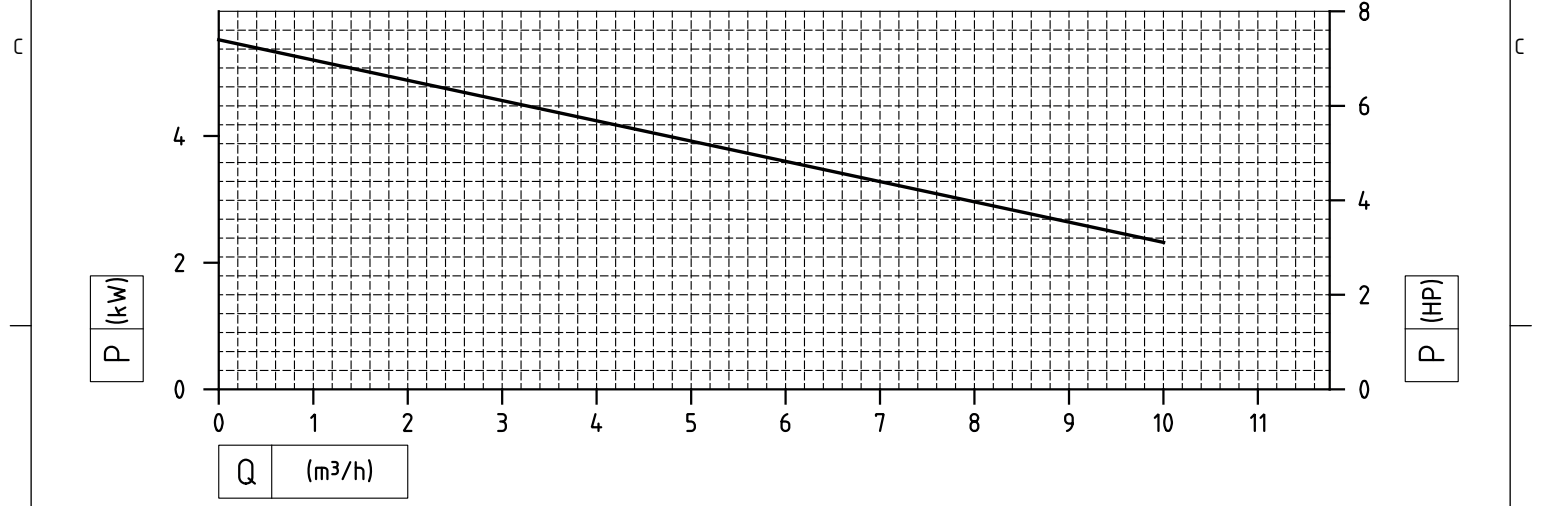
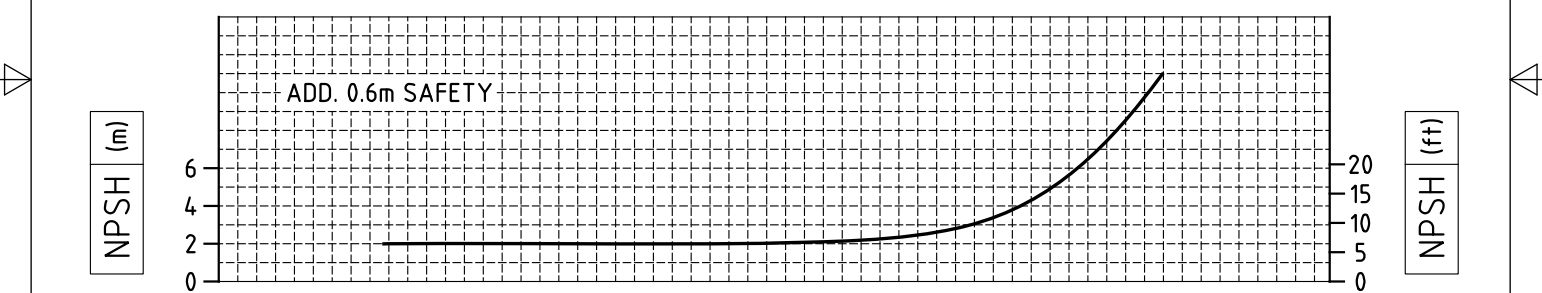
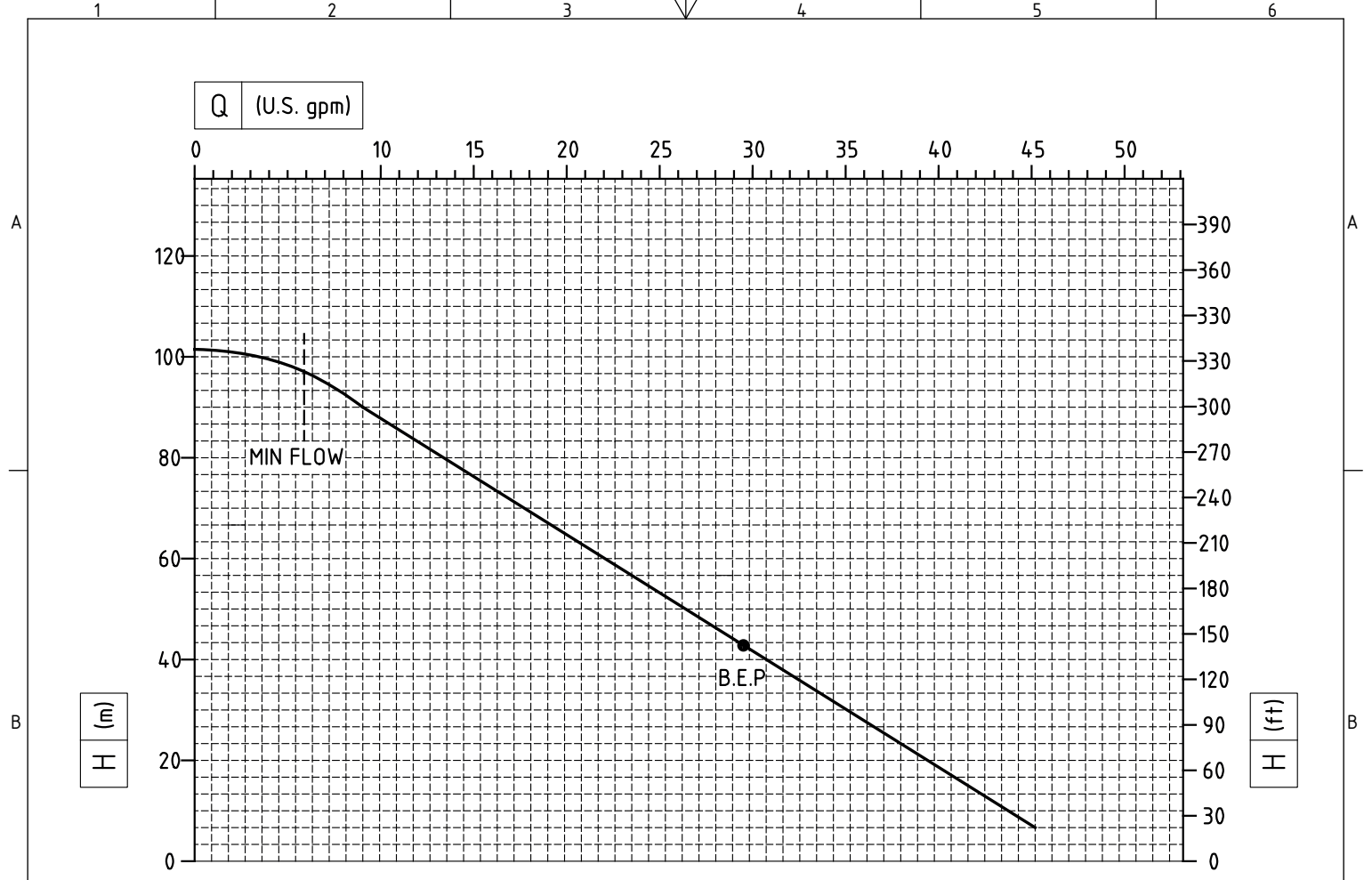
Motor Speed:

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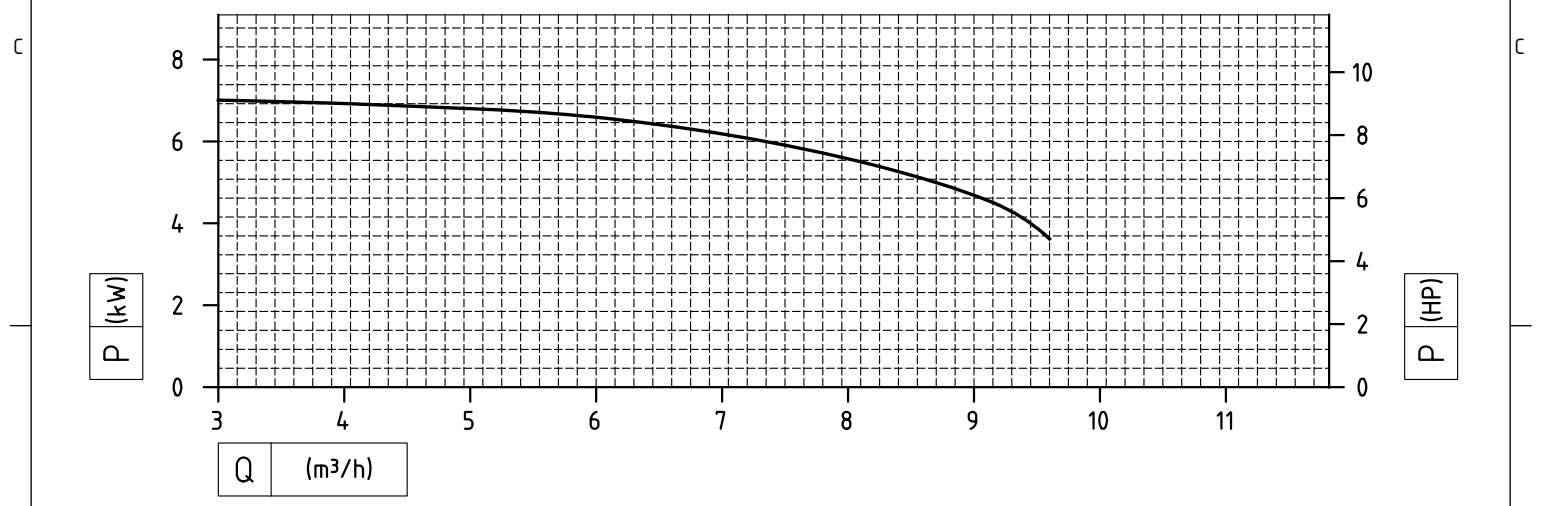
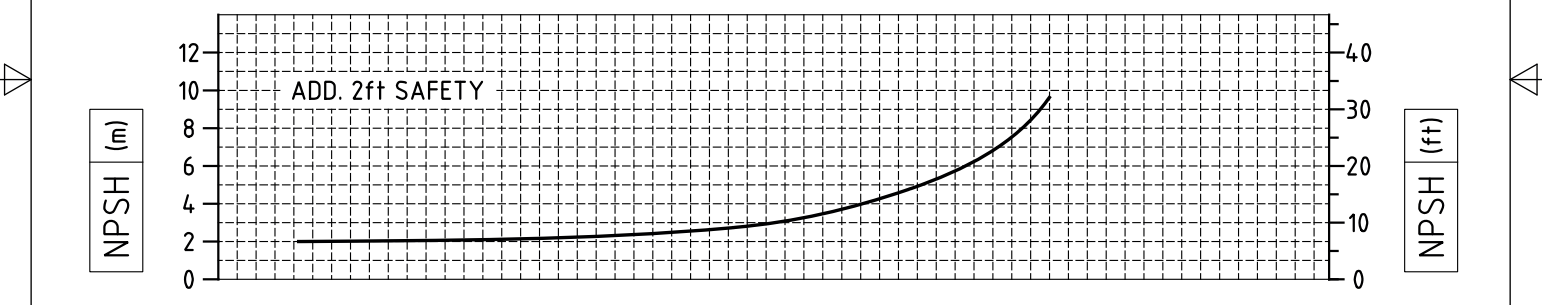
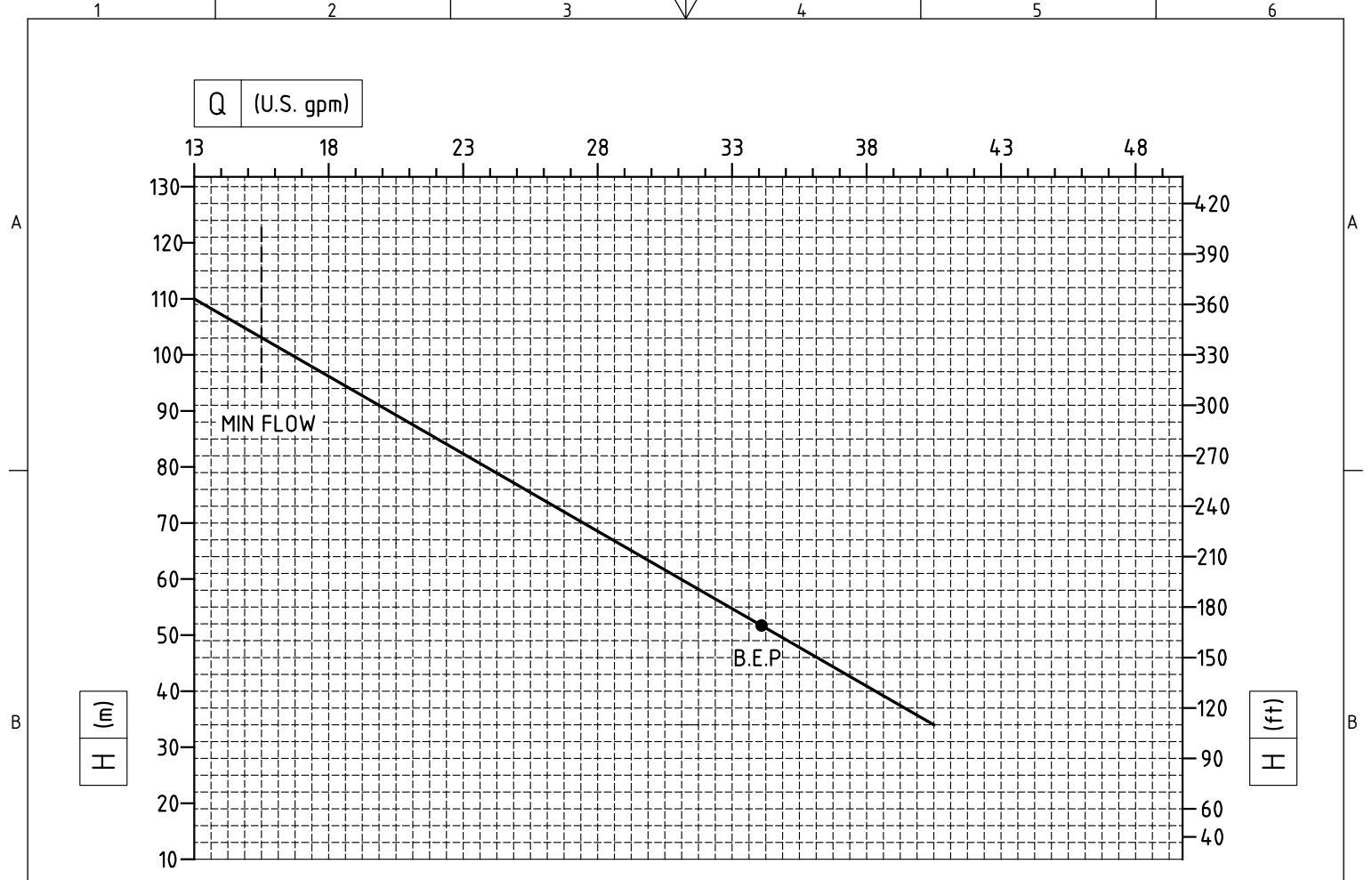


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info@march-pumpen.com

Baureihe / Series:	MTA
Typ / Type:	MTA 1011
Motor Speed:	1750 1/min



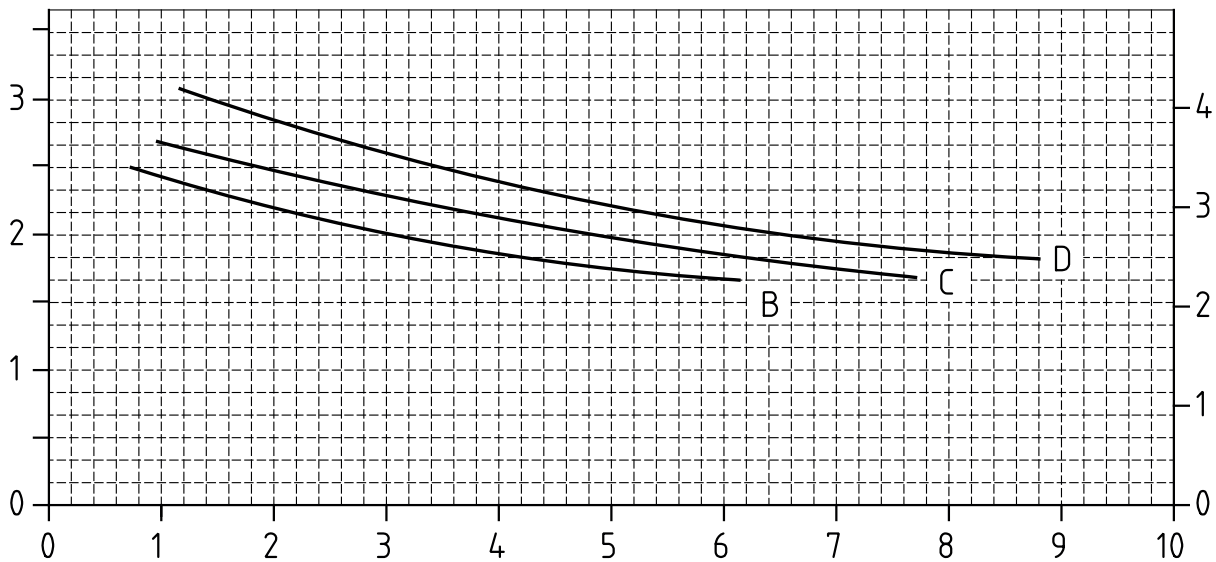
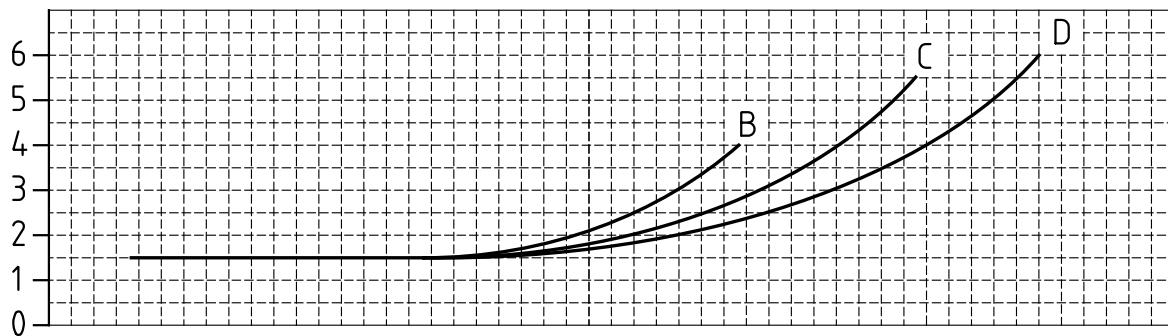
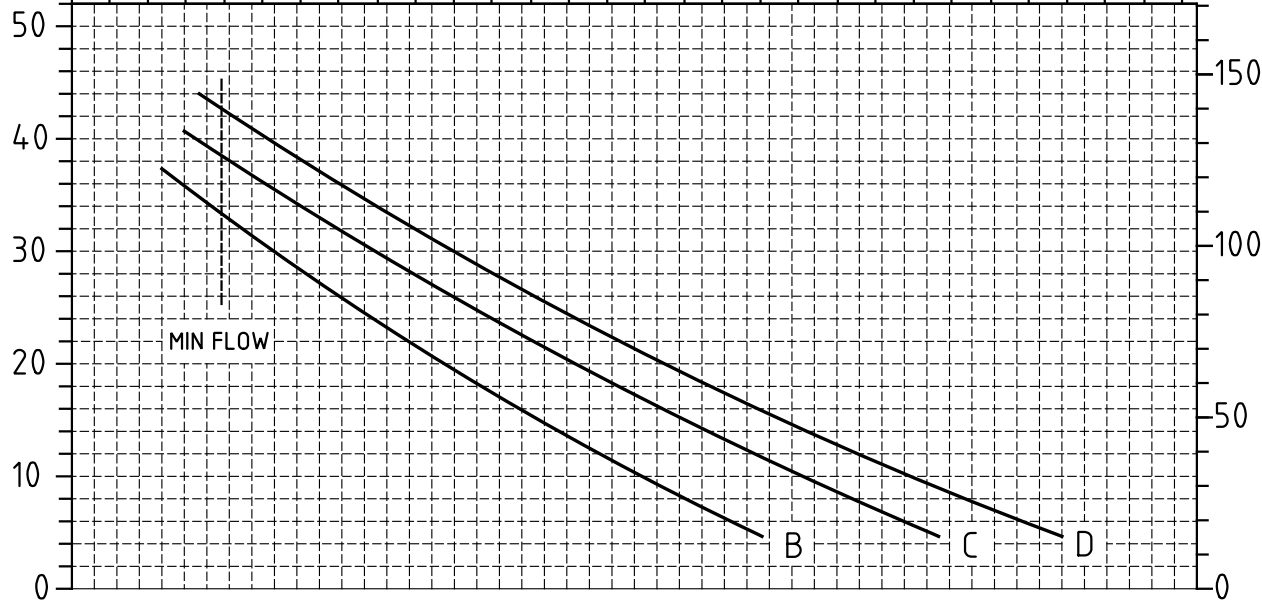
 ...ADVANCED SOLUTIONS...	MARCH PUMPEN GmbH & Co.KG Rathenaustraße 2 D-35394 Gießen www.march-pumpen.com info@march-pumpen.com	Baureihe / Series:	MTA
		Typ / Type:	MTA 1011
		Motor Speed:	2900 1/min



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		Typ / Type: MTA 1011
		Motor Speed: 3500 1/min

Q (U.S. gpm)

0 10 20 30 40 50 60 70



Q (m³/h)

0 1 2 3 4 5 6 7 8 9 10



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Rathenaustraße 2
D-35394 Gießen
www.march-pumpen.com
info@march-pumpen.com

Baureihe / Series:

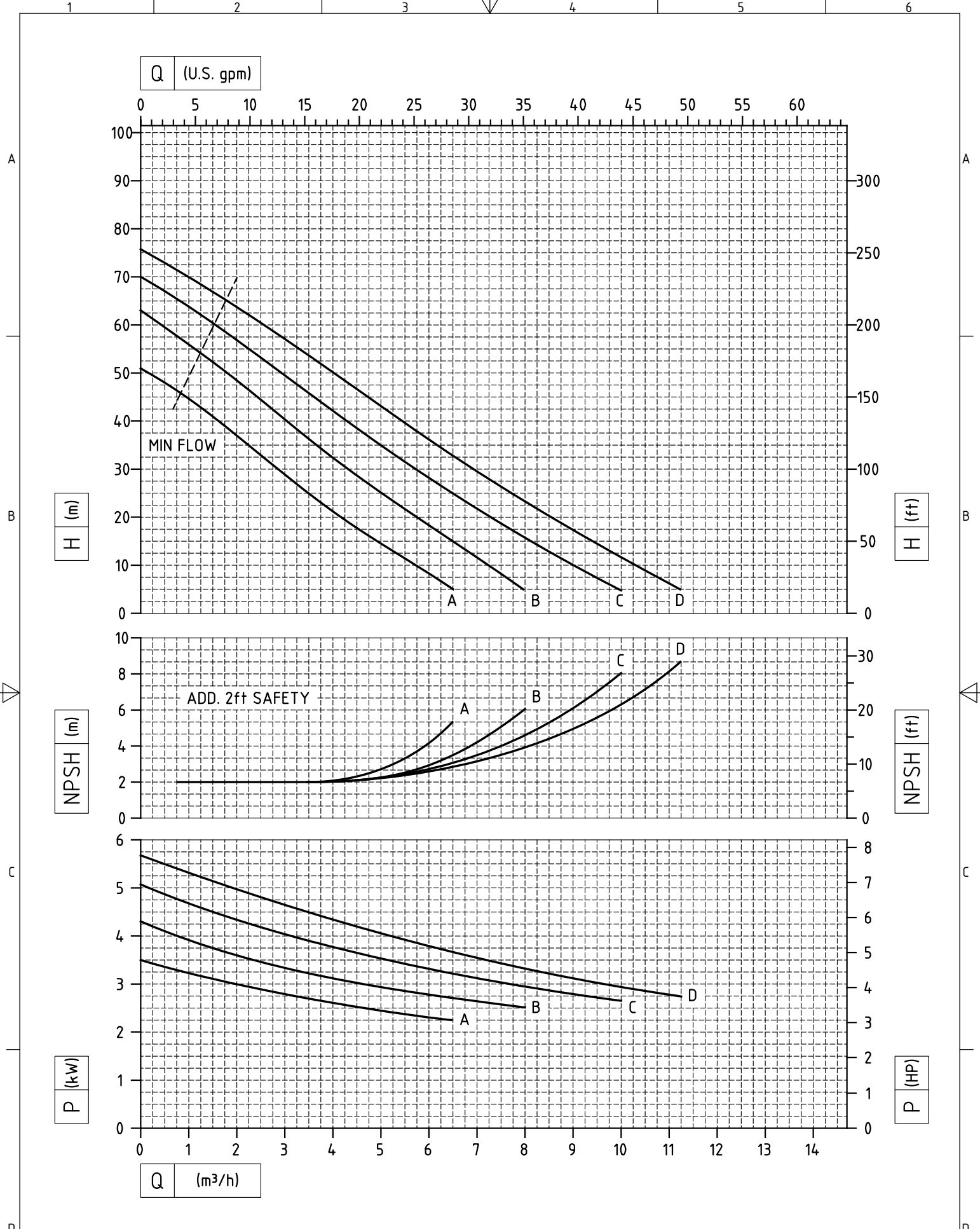
MTA

Typ / Type:

MTA 2020

Motor Speed:

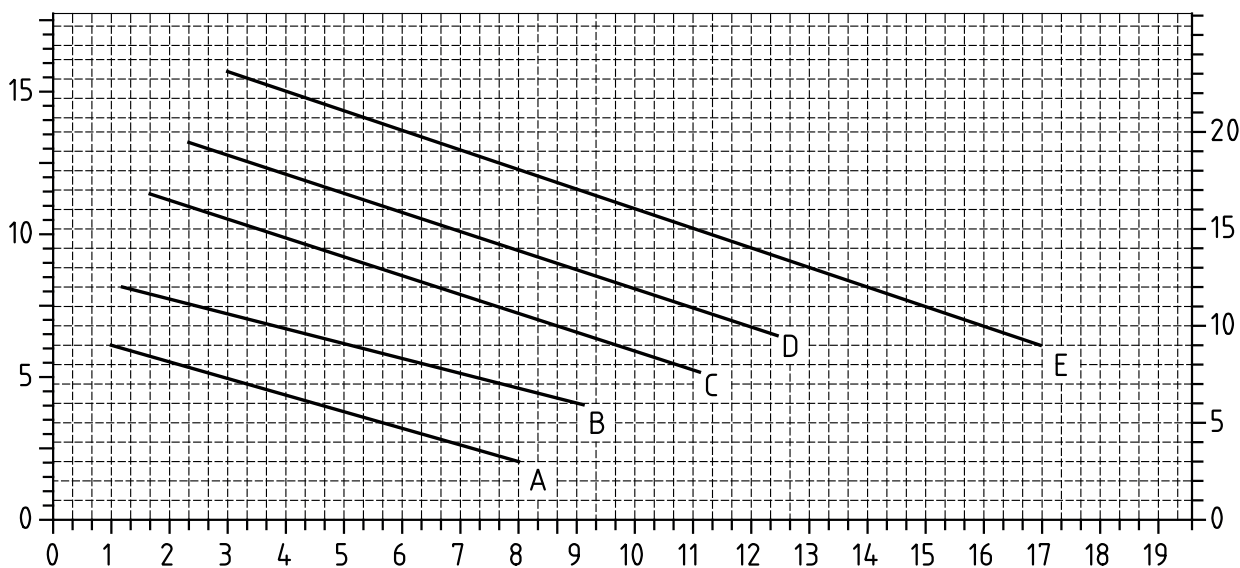
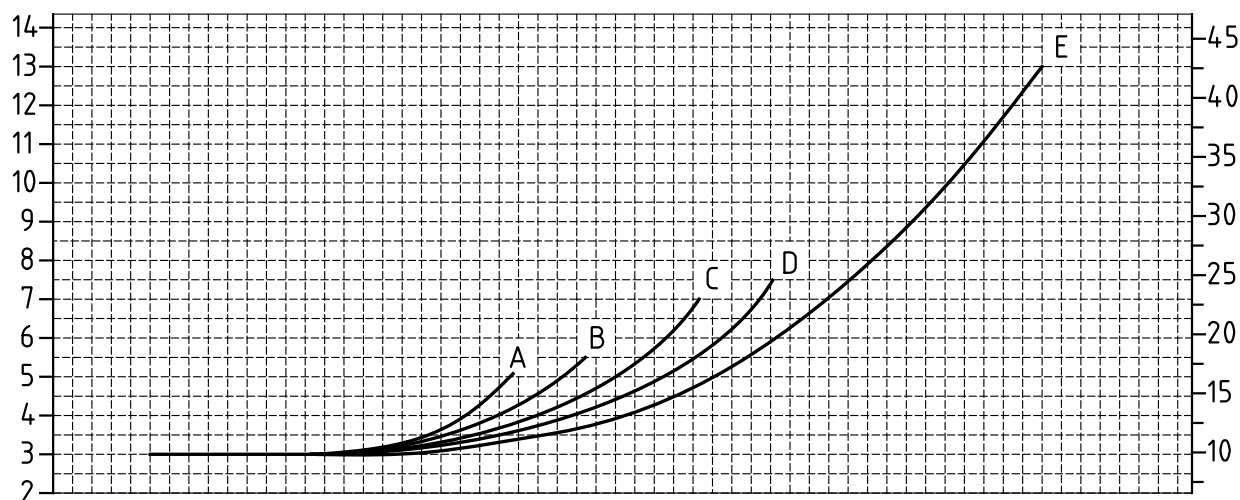
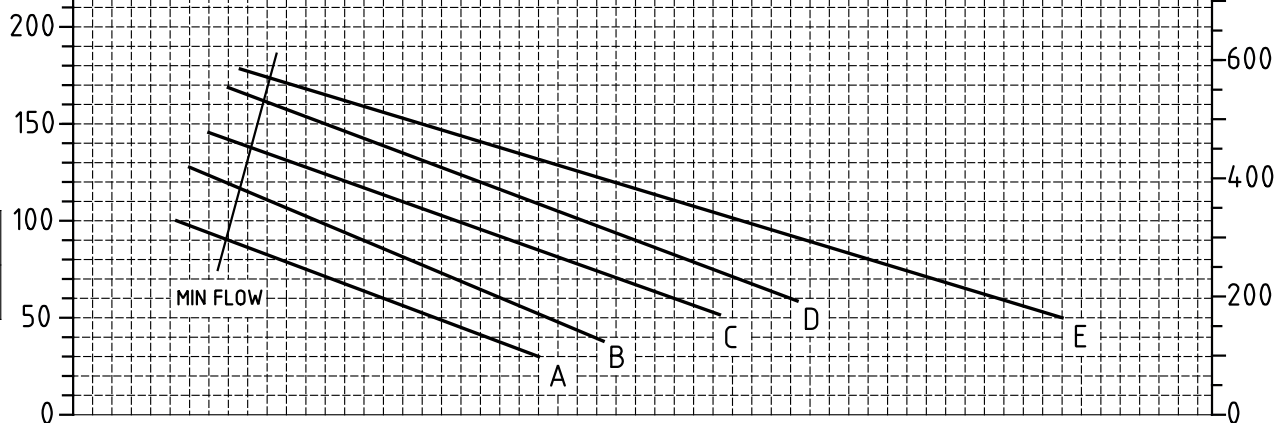
1450 1/min



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	www.march-pumpen.com info@march-pumpen.com	Typ / Type: MTA 2020
		Motor Speed: 1750 1/min

Q (U.S. gpm)

0 10 20 30 40 50 60 70 80



Q (m³/h)

0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19



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Baureihe / Series:

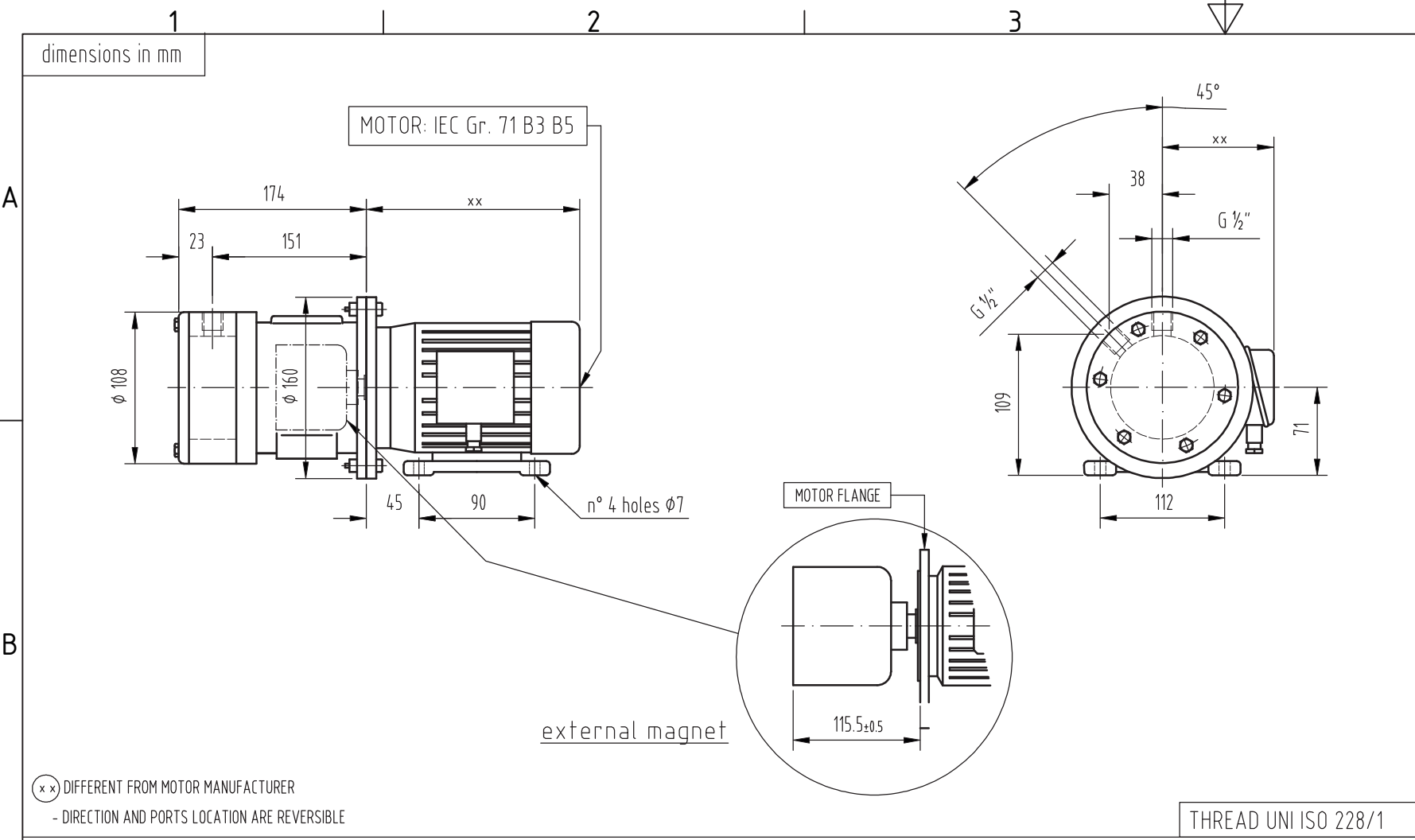
MTA

Typ / Type:

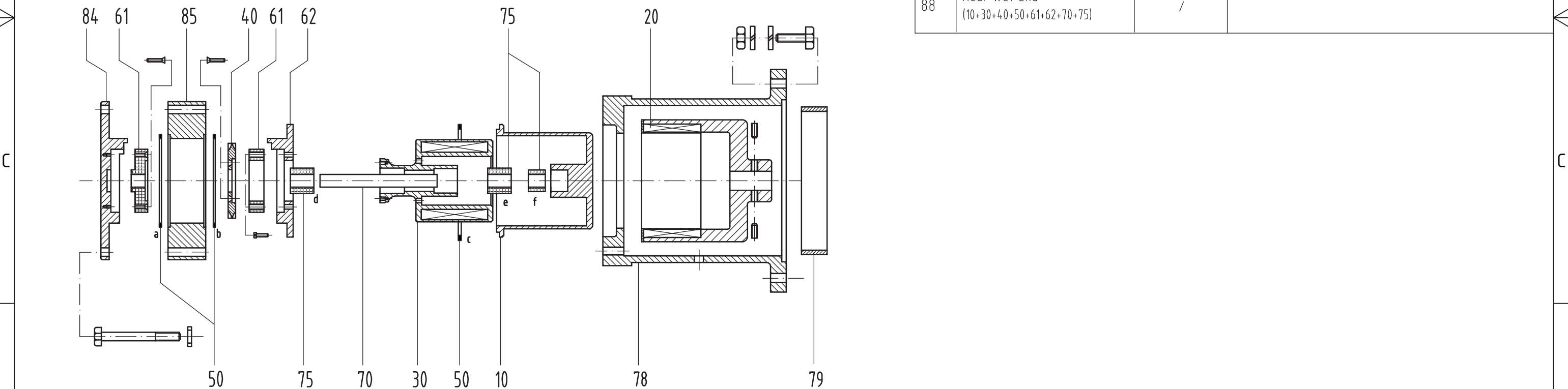
MTA 2020

Motor Speed:

2900 1/min



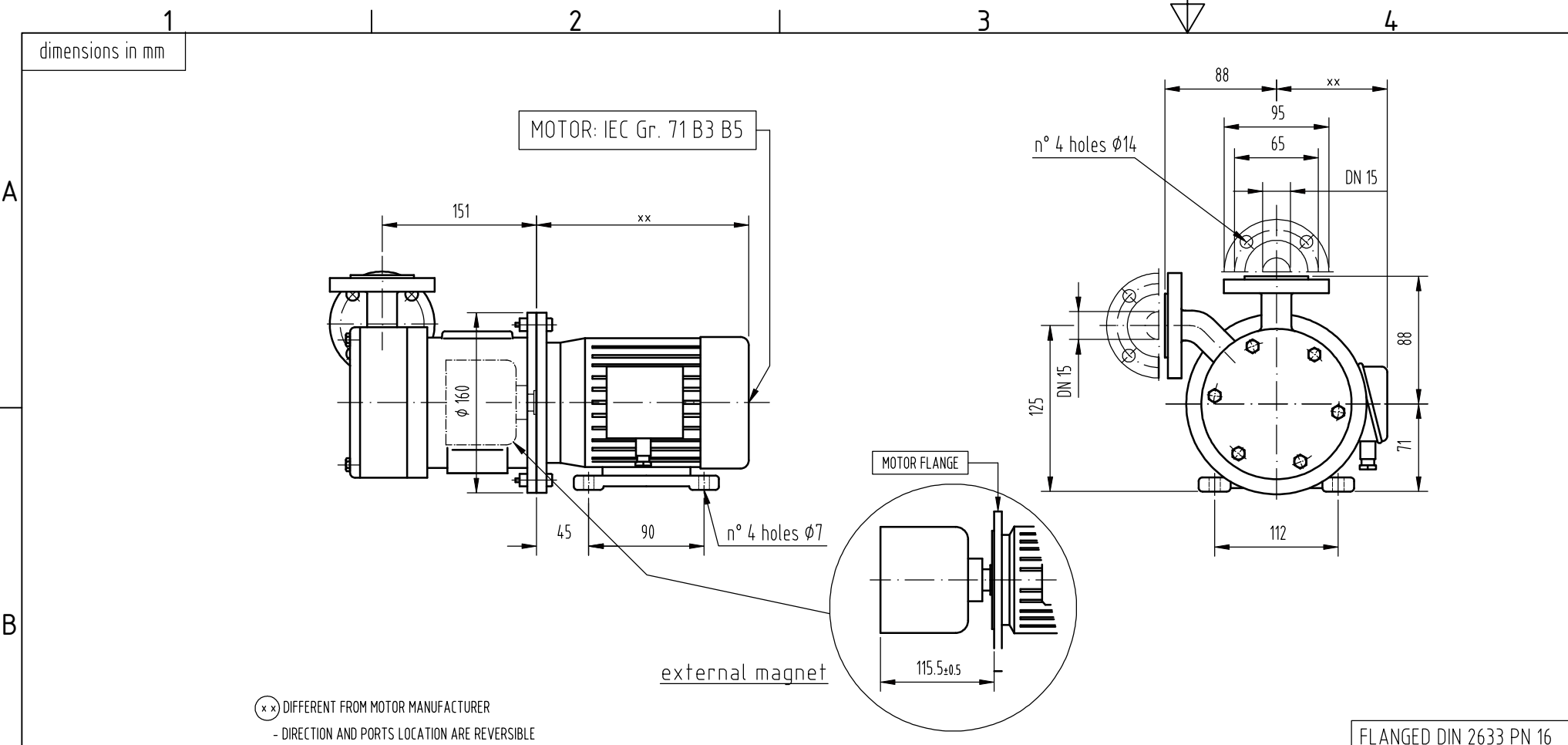
REF	DESCRIPTION	MATERIAL	CODE
10	Containment shell	SS 316L	
20	Ext. Magnet	CoSm/ Carbon Steel	
30	Int. Magnet	SS 316L/CoSm	
40	Impeller	SS 316L	
50	Set O-Rings (a+b+c) a + b = O-Ring 4250 (230) c = O-Ring 4312 (235)	Viton	
61	Thrust Bearings	Pcarbon	
62	Rear Ring	SS316L	
70	Shaft	SIC	
75	Sleeve Bearings Bearings (d+e) Bearing (f)	SIC SS316	
78	Bracket (160-110-14)	Alluminium	
79	Rub Ring	Bronze	
84	End Cover	SS 316L	
85	Pump Casing	SS 316L	
88	Rear Wet End (10+30+40+50+61+62+70+75)	/	



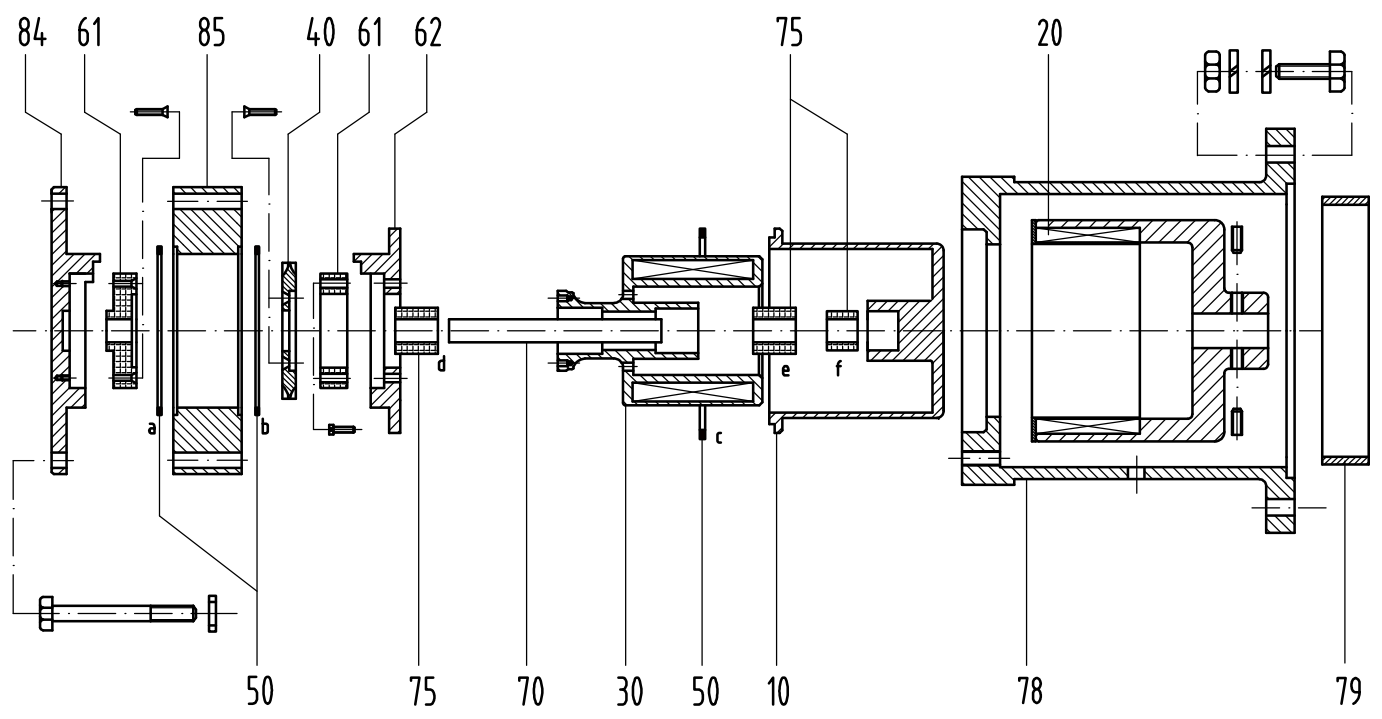
MARCH PUMPEN GmbH & Co.KG
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D-35394 Gießen

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Baureihe / Series:	MTA
Typ / Type:	MTA 25 SSR
Motor:	IEC 71 B35



5		6	
REF	DESCRIPTION	MATERIAL	CODE
10	Containment shell	SS 316L	
20	Ext. Magnet	CoSm/ Carbon Steel	
30	Int. Magnet	SS 316L/CoSm	
40	Impeller	SS 316L	
50	Set O-Rings (a+b+c) a + b = O-Ring 4250 (230) c = O-Ring 4312 (235)	Viton	
61	Thrust Bearings	Pcarbon	
62	Rear Ring	SS316L	
70	Shaft	SS316L	
75	Sleeve Bearings Bearings (d+e) Bearing (f)	Pcarbon SS316	
78	Bracket (160-110-14)	CAST IRON	
79	Rub Ring	Bronze	
84	End Cover	SS 316L	
85	Pump Casing	SS 316L	
88	Rear Wet End (10+30+40+50+61+62+70+75)	/	



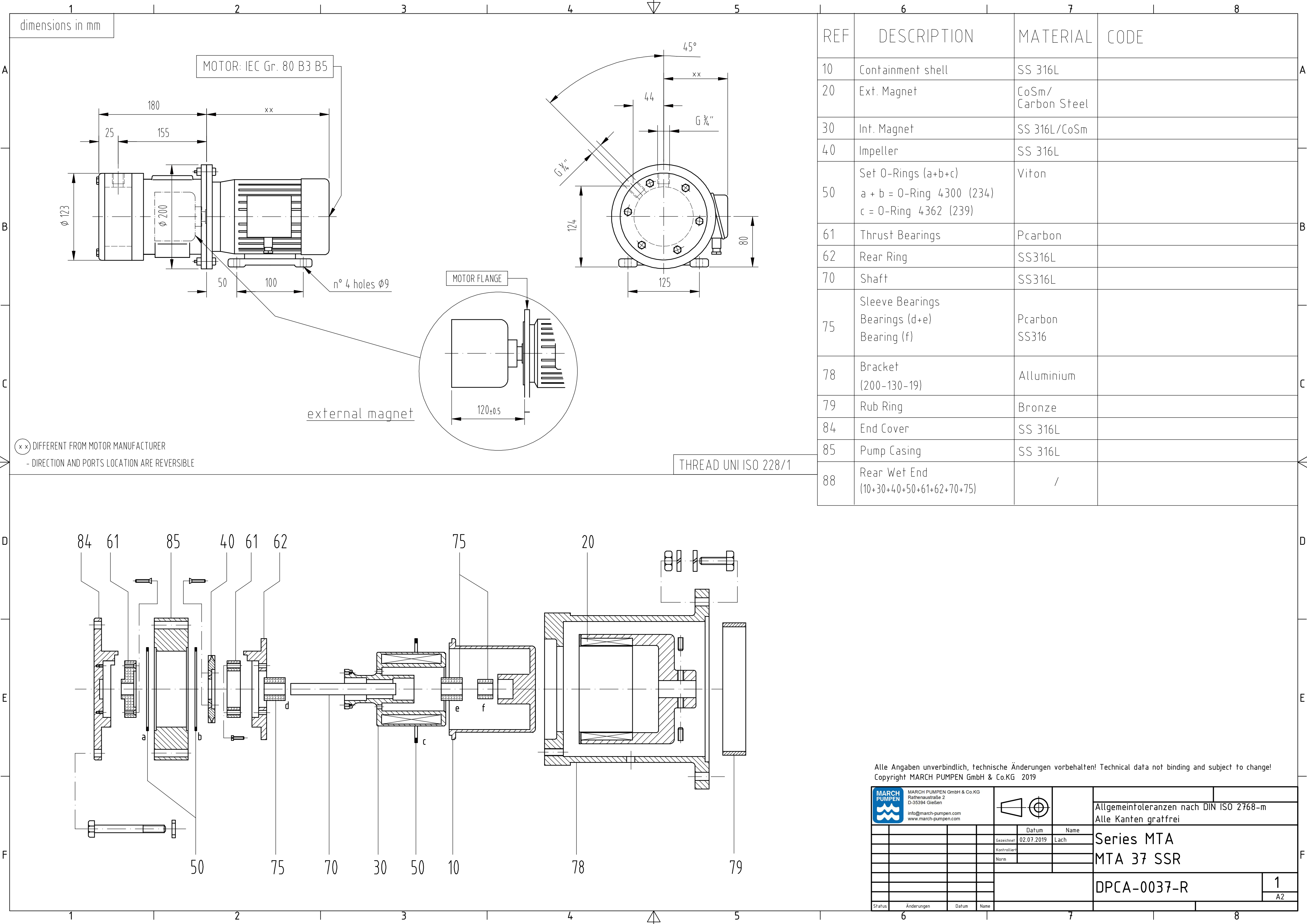


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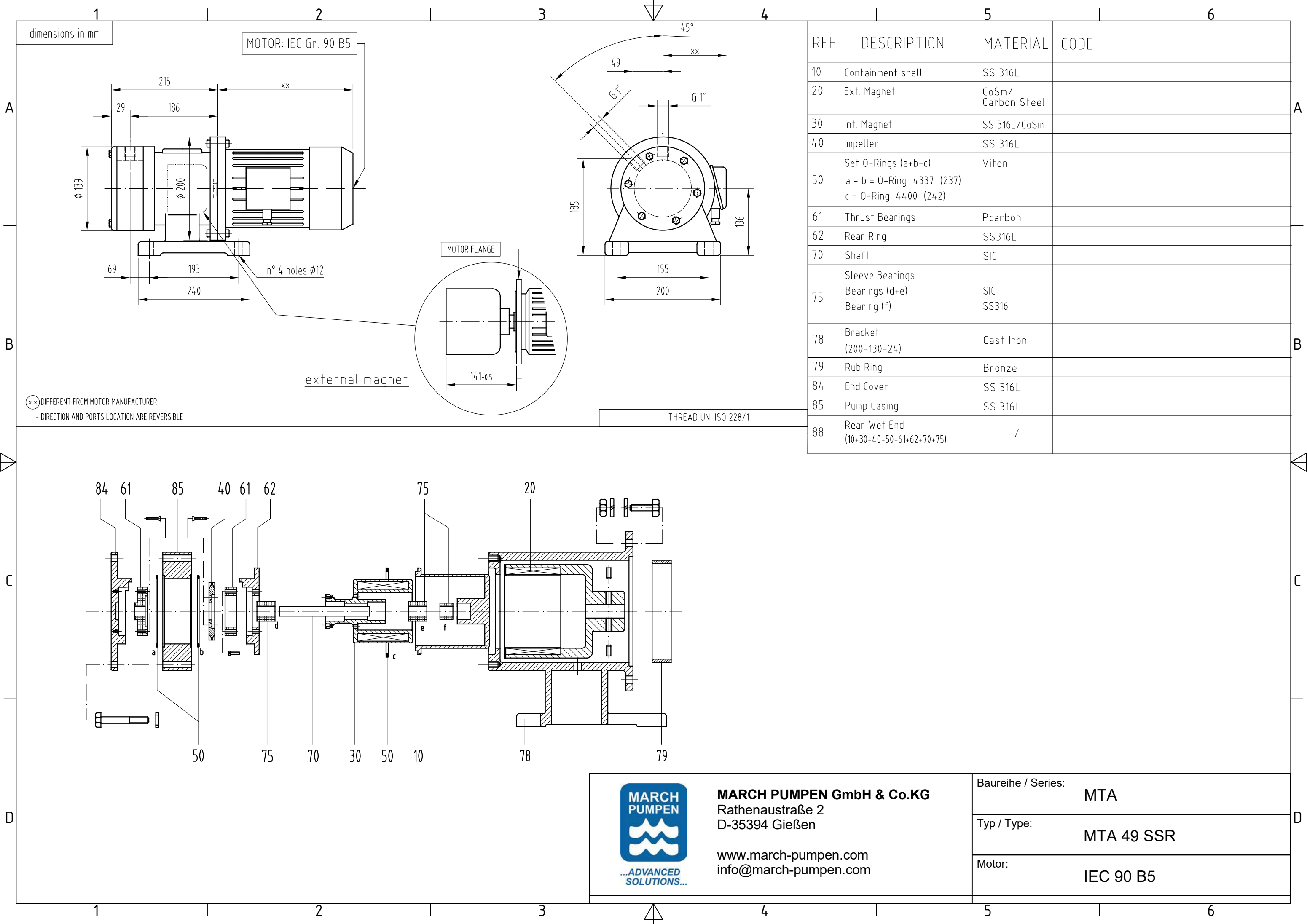
Baureihe / Series:	MTA
Typ / Type:	MTA 25 SSF
Motor:	IEC 71 B35

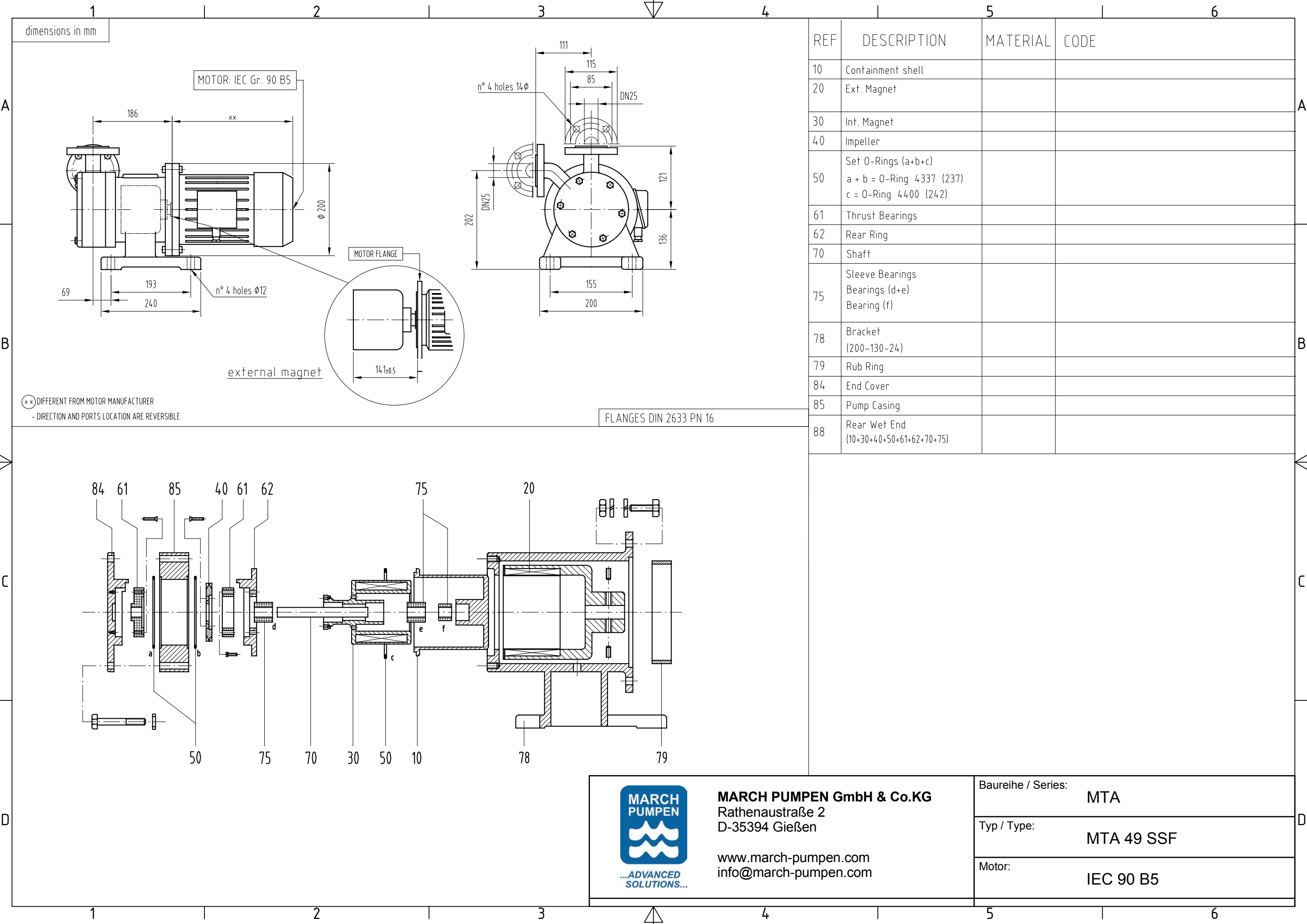


REF	DESCRIPTION	MATERIAL	CODE
10	Containment shell	SS 316L	A
20	Ext. Magnet	CoSm/ Carbon Steel	
30	Int. Magnet	SS 316L/CoSm	
40	Impeller	SS 316L	B
50	Set O-Rings (a+b+c) a + b = O-Ring 4300 (234) c = O-Ring 4362 (239)	Viton	
61	Thrust Bearings	Pcarbon	
62	Rear Ring	SS316L	C
70	Shaft	SS316L	
75	Sleeve Bearings Bearings (d+e) Bearing (f)	Pcarbon SS316	
78	Bracket (200-130-19)	Alluminium	D
79	Rub Ring	Bronze	
84	End Cover	SS 316L	
85	Pump Casing	SS 316L	E
88	Rear Wet End (10+30+40+50+61+62+70+75)	/	

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				Datum	Name	Series MTA MTA 37 SSR	
				Gezeichnet	Lach		
				Kontrolliert			
				Norm		DPCA-0037-R	
Status	Änderungen	Datum	Name			1 A2	





dimensions in mm

MOTOR: IEC Gr. 90 B5

MOTOR FLANGE

external magnet

FLANGES DIN 2633 PN 16

xx DIFFERENT FROM MOTOR MANUFACTURER
- DIRECTION AND PORTS LOCATION ARE REVERSIBLE

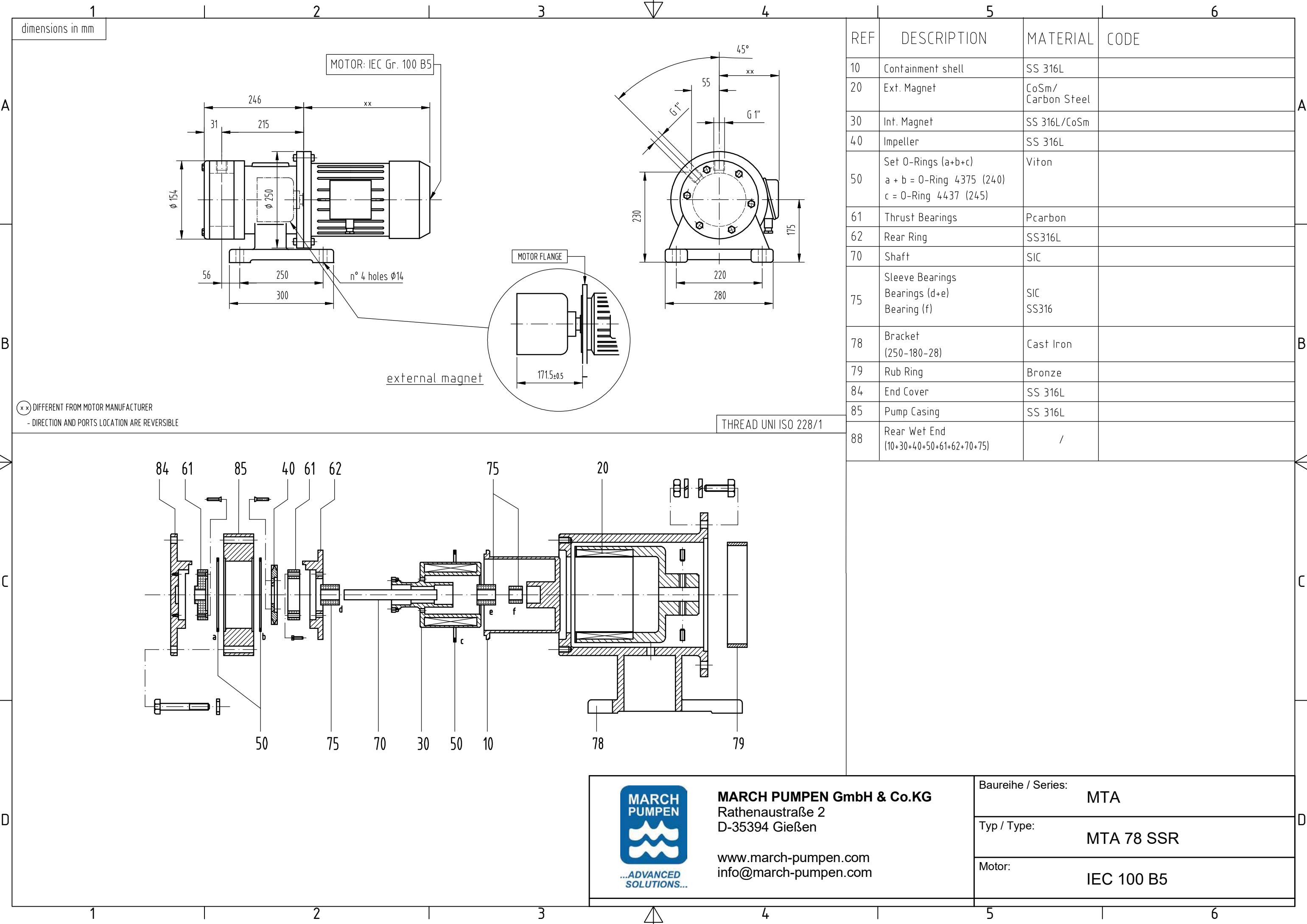
REF	DESCRIPTION	MATERIAL	CODE
10	Containment shell		
20	Ext. Magnet		
30	Int. Magnet		
40	Impeller		
50	Set O-Rings (a+b+c) a + b = O-Ring 4337 (237) c = O-Ring 4400 (242)		
61	Thrust Bearings		
62	Rear Ring		
70	Shaft		
75	Sleeve Bearings Bearings (d+e) Bearing (f)		
78	Bracket (200-130-24)		
79	Rub Ring		
84	End Cover		
85	Pump Casing		
88	Rear Wet End (10+30+40+50+61+62+70+75)		



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Baureihe / Series:	MTA
Typ / Type:	MTA 49 SSF
Motor:	IEC 90 B5



dimensions in mm

MOTOR: IEC Gr. 100 B5

MOTOR FLANGE

external magnet

THREAD UNI ISO 228/1

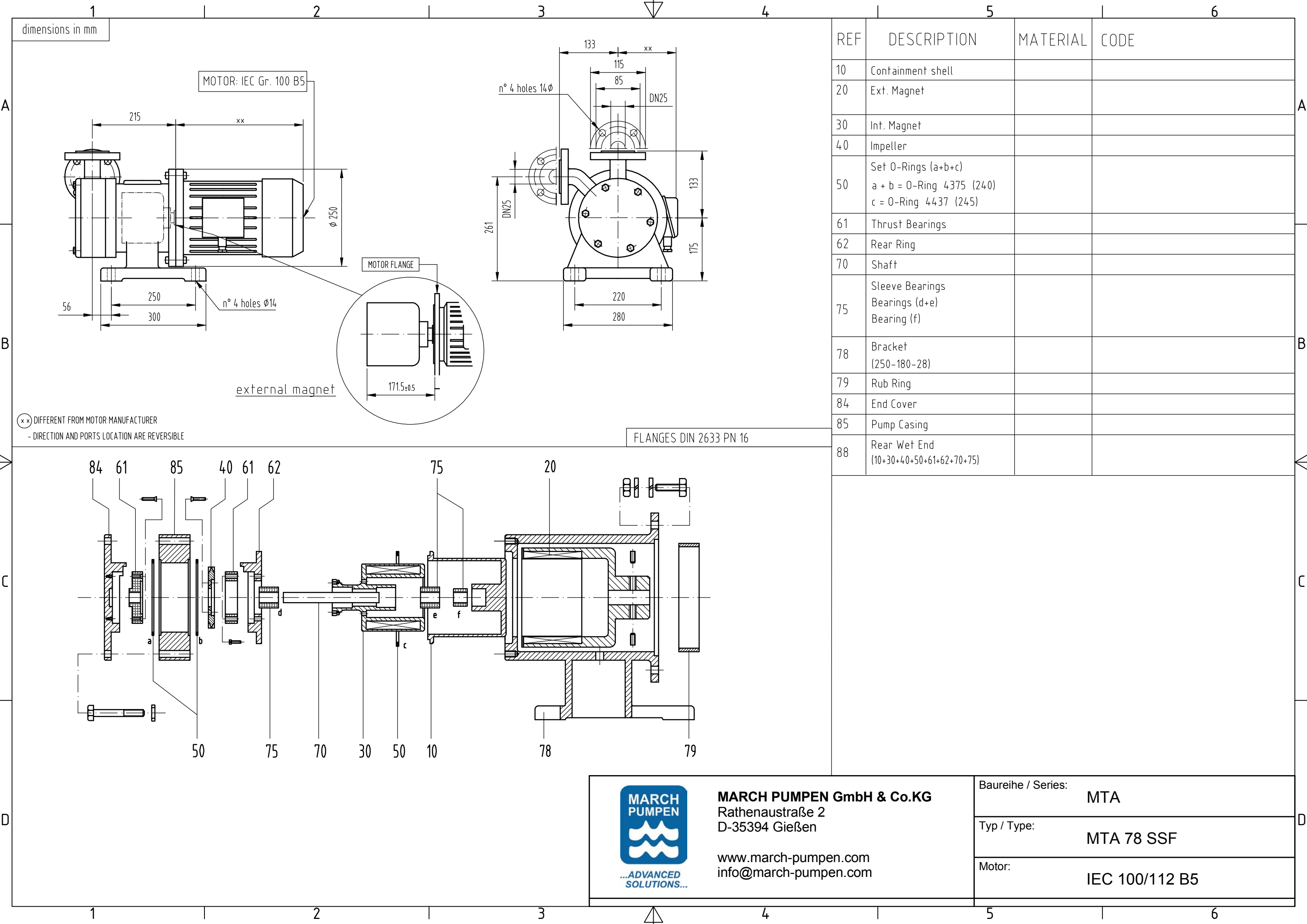
(x x) DIFFERENT FROM MOTOR MANUFACTURER
- DIRECTION AND PORTS LOCATION ARE REVERSIBLE

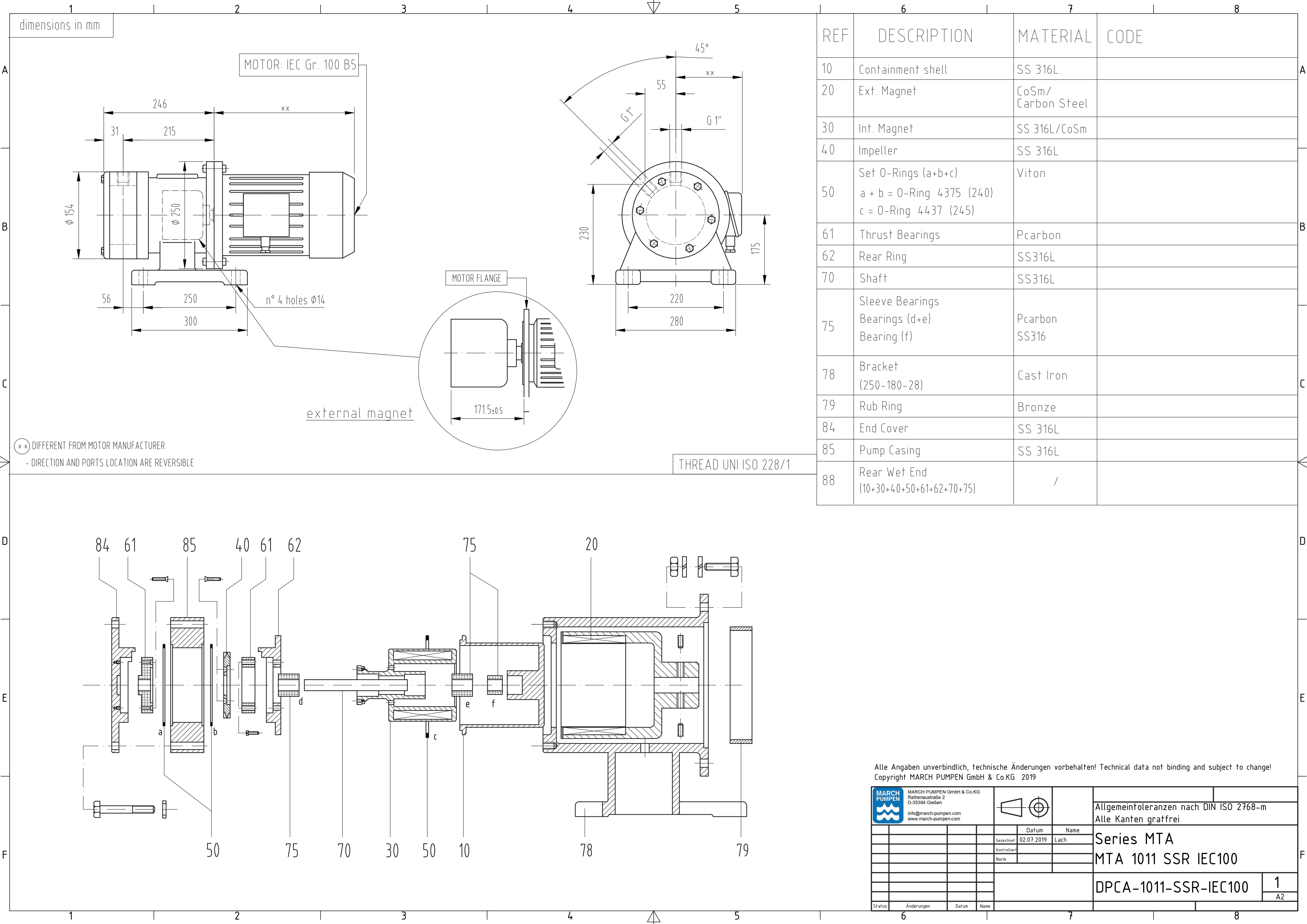
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20	Ext. Magnet	CoSm/ Carbon Steel	
30	Int. Magnet	SS 316L/CoSm	
40	Impeller	SS 316L	
50	Set O-Rings (a+b+c) a + b = O-Ring 4375 (240) c = O-Ring 4437 (245)	Viton	
61	Thrust Bearings	Pcarbon	
62	Rear Ring	SS316L	
70	Shaft	SIC	
75	Sleeve Bearings Bearings (d+e) Bearing (f)	SIC SS316	
78	Bracket (250-180-28)	Cast Iron	
79	Rub Ring	Bronze	
84	End Cover	SS 316L	
85	Pump Casing	SS 316L	
88	Rear Wet End (10+30+40+50+61+62+70+75)	/	



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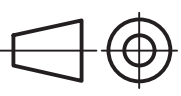
Baureihe / Series:	MTA
Typ / Type:	MTA 78 SSR
Motor:	IEC 100 B5

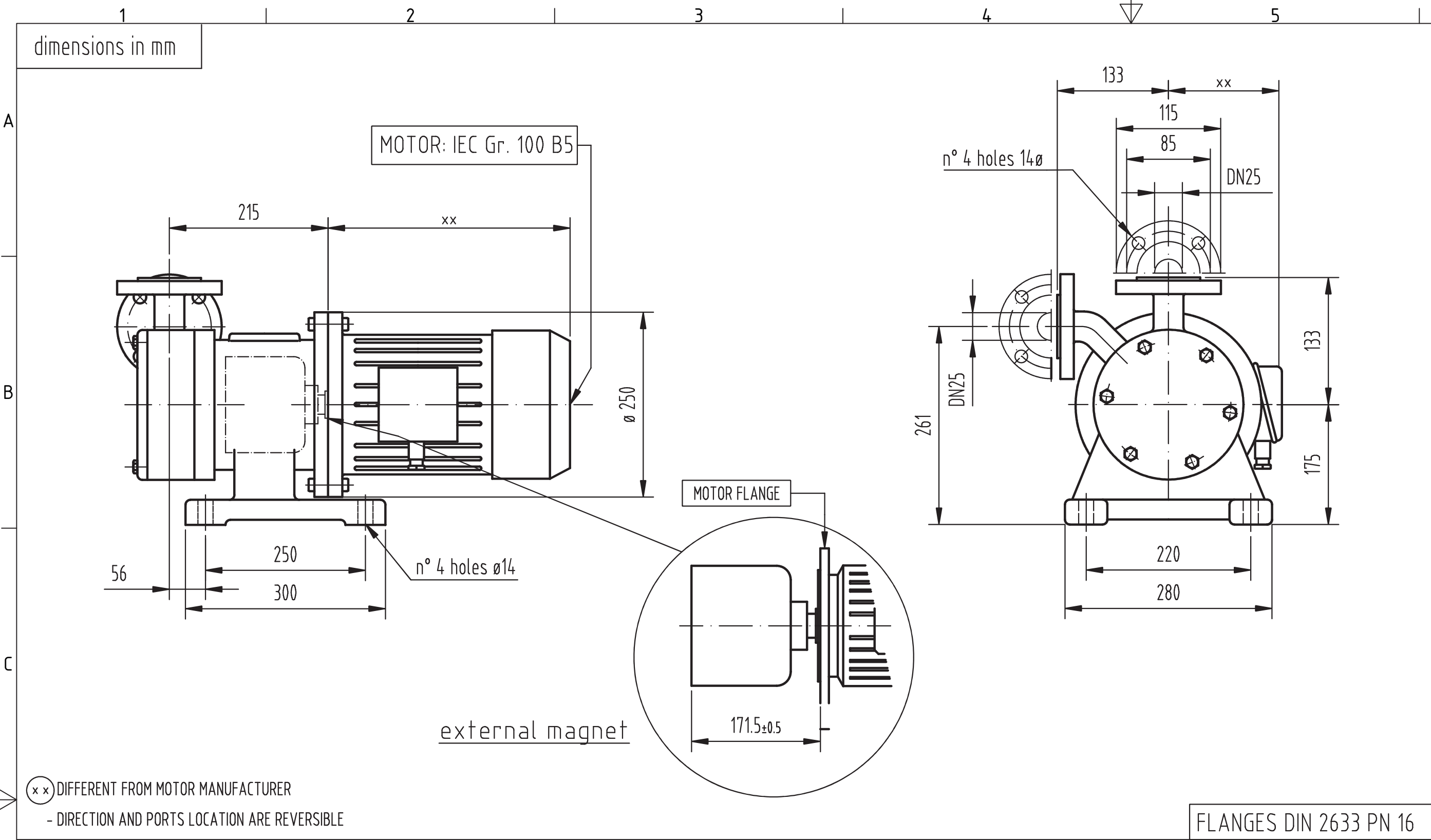




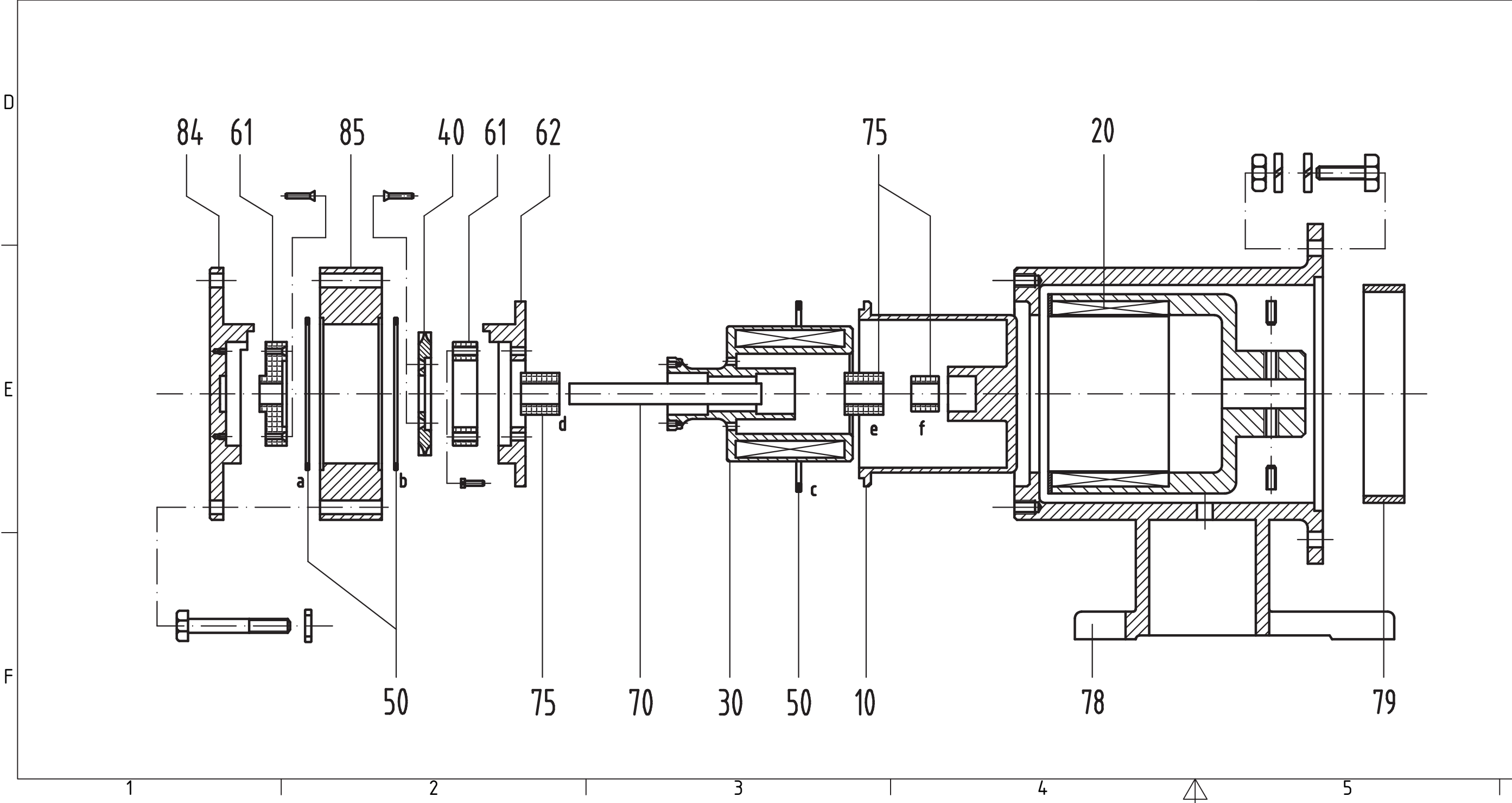
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20	Ext. Magnet	CoSm/ Carbon Steel	
30	Int. Magnet	SS 316L/CoSm	
40	Impeller	SS 316L	
50	Set O-Rings (a+b+c) a + b = O-Ring 4375 (240) c = O-Ring 4437 (245)	Viton	
61	Thrust Bearings	Pcarbon	
62	Rear Ring	SS316L	
70	Shaft	SS316L	
75	Sleeve Bearings Bearings (d+e) Bearing (f)	Pcarbon SS316	
78	Bracket (250-180-28)	Cast Iron	
79	Rub Ring	Bronze	
84	End Cover	SS 316L	
85	Pump Casing	SS 316L	
88	Rear Wet End (10+30+40+50+61+62+70+75)	/	

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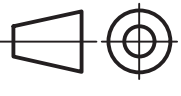
MARCH PUMPEN MARCH PUMPEN GmbH & Co.KG Räthelstraße 2 D-35394 Gießen info@march-pumpen.com www.march-pumpen.com				Allgemeintoleranzen nach DIN ISO 2768-m Alle Kanten gratfrei	
		Datum	Name	Series MTA MTA 1011 SSR IEC100	
		Gezeichnet	Lach		
		Kontrolliert			
		Norm		DPCA-1011-SSR-IEC100	
Status	Änderungen	Datum	Name	1 A2	

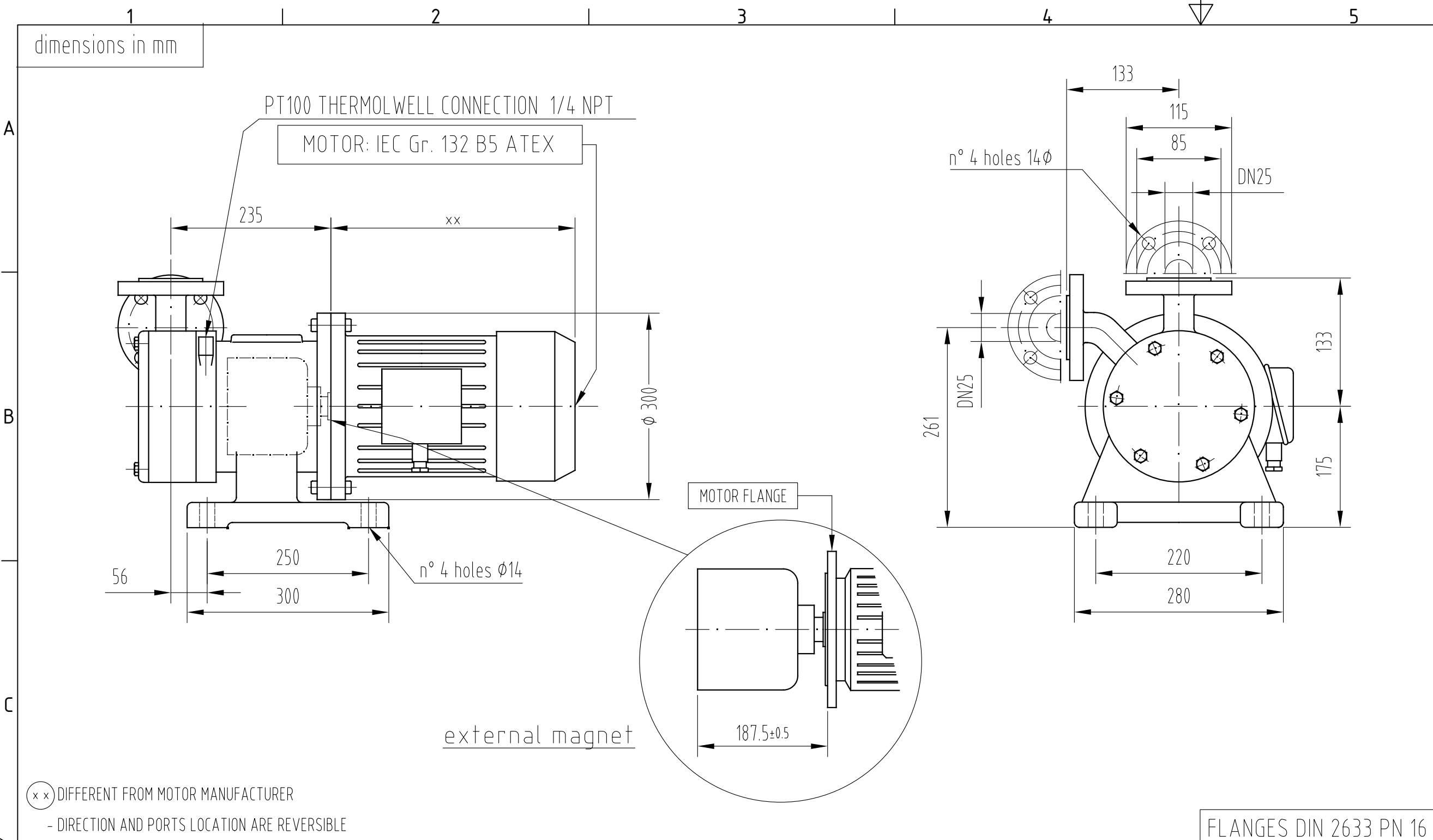


REF	DESCRIPTION	MATERIAL	CODE
10	Containment shell	SS 316L	
20	Ext. Magnet	CoSm/ Carbon Steel	
30	Int. Magnet	SS 316L/CoSm	
40	Impeller	SS 316L	
50	Set O-Rings (a+b+c) a + b = O-Ring 4375 (240) c = O-Ring 4437 (245)	Viton	
61	Thrust Bearings	Pcarbon	
62	Rear Ring	SS316L	
70	Shaft	SIC	
75	Sleeve Bearings Bearings (d+e) Bearing (f)	SIC SS316	
78	Bracket (250-180-28)	Cast Iron	
79	Rub Ring	Bronze	
84	End Cover	SS 316L	
85	Pump Casing	SS 316L	
88	Rear Wet End (10+30+40+50+61+62+70+75)	/	

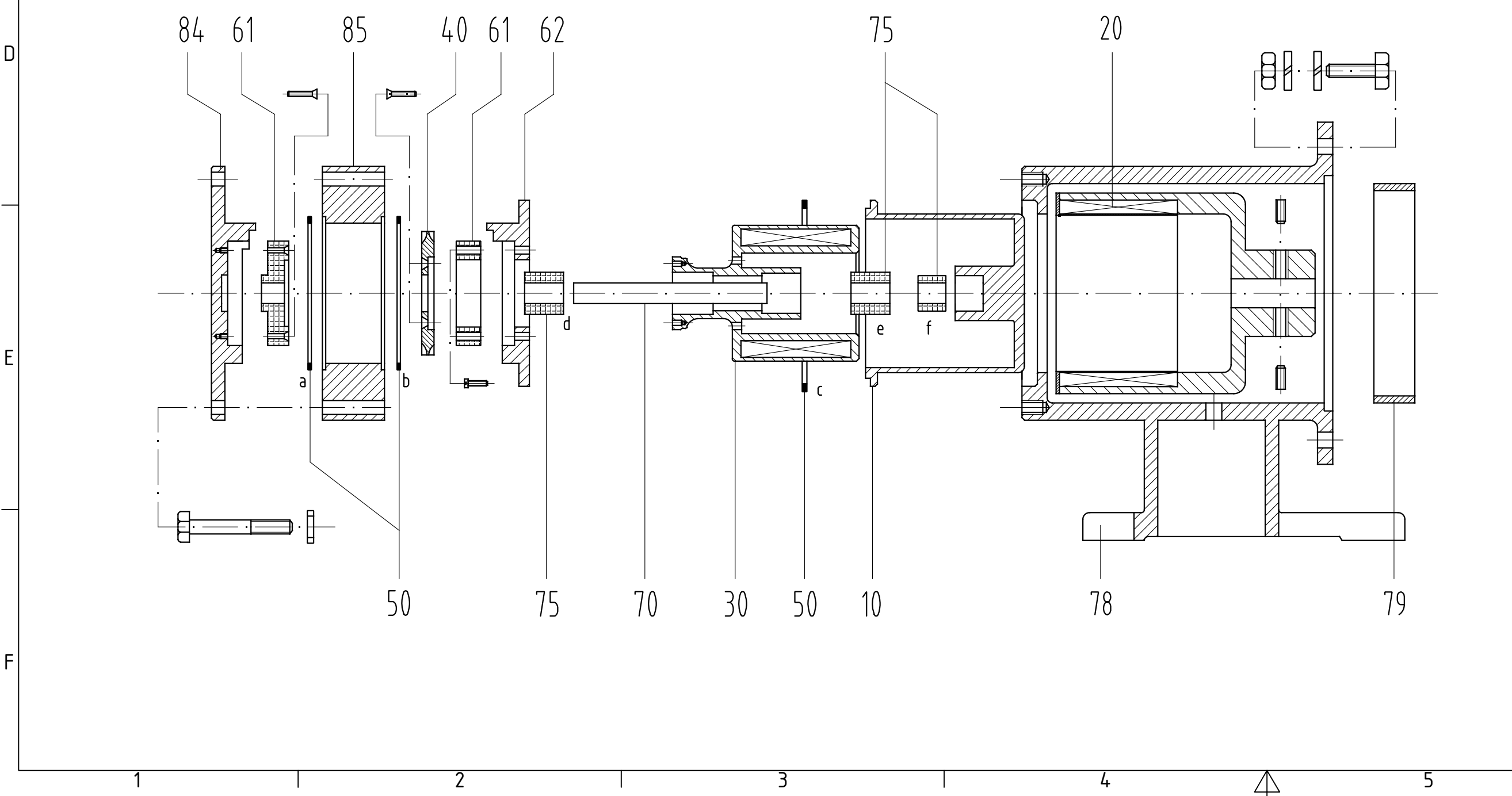


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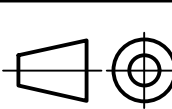
MARCH PUMPEN		MARCH PUMPEN GmbH & Co.KG Räthelstraße 2 D-35394 Gießen info@march-pumpen.com www.march-pumpen.com				Allgemeintoleranzen nach DIN ISO 2768-m Alle Kanten gratfrei	
				Datum	Name	Series MTA MTA 1011 SSF IEC100/112	
			Gezeichnet	02.07.2019	Lach		
			Kontrolliert				
			Norm			DPCA-1011-SSF-100/112	
Status	Änderungen	Datum	Name			1 A2	



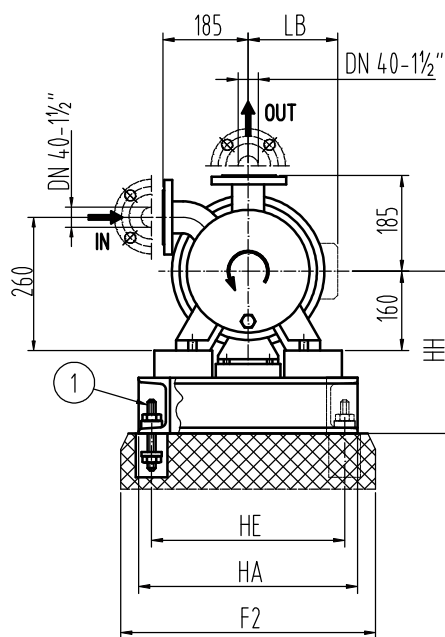
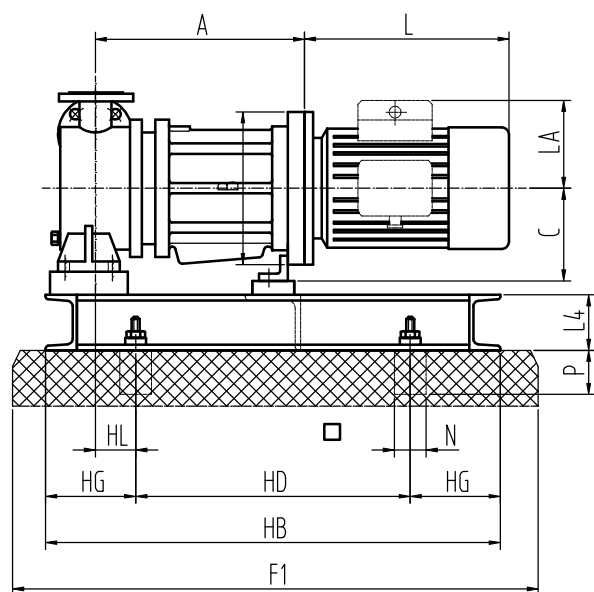
REF	DESCRIPTION	MATERIAL	CODE
10	Containment shell	SS 316L	A
20	Ext. Magnet	CoSm/ Carbon Steel	
30	Int. Magnet	SS 316L/CoSm	
40	Impeller	SS 316L	B
50	Set O-Rings (a+b+c) a + b = O-Ring 4387 (241) c = O-Ring 4437 (245)	FEP	
61	Thrust Bearings	Pcarbon	
62	Rear Ring	SS316L	C
70	Shaft	SIC	
75	Sleeve Bearings Bearings (d+e) Bearing (f)	SIC SS316	
78	Bracket (300-250-38)	Cast Iron	D
79	Rub Ring	Bronze	
84	End Cover	SS 316L	
85	Pump Casing	SS 316L	E
88	Rear Wet End (10+30+40+50+61+62+70+75)	/	



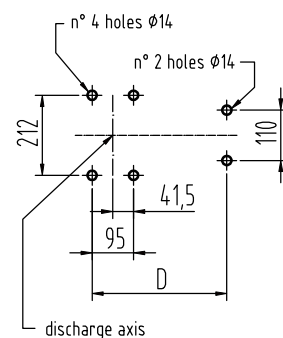
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				Allgemeintoleranzen nach DIN ISO 2768-m Alle Kanten gratfrei	
				Datum	Name
				Gezeichnet	05.04.2019 Lach
				Kontrolliert	
				Norm	

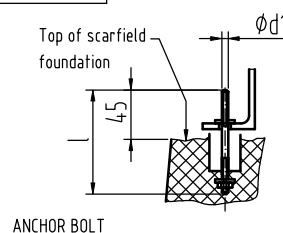
all dimensions in mm.



FOOT PRINT SKETCH



PART. 1



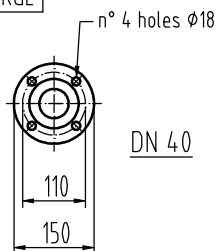
PUMP

FLANGES DIN 2634 - PN 25

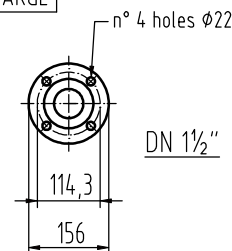
FLANGES ANSI B 16.5 - 300 Lb RF

MOTOR SIZE	A	B (φ)	C	D	WEIGHT (kg) (without motor)
132	292	300	180	280	85
160/180	322	350			
256C	12.67	11.03	7.08	11.02	

SUCTION - DISCHARGE



SUCTION - DISCHARGE



NEMA motor dimensions are in inches

MOTOR		OUTPUT MAX. (kW)		SHAFT Ø d	H	L	LA	LB	WEIGHT (kg)	BASEPLATE												FOUNDATION				BOLTS
		2P	4P							BASEPLATE N°	HB	HD	HG	HL	HE	HA	L4	N° BOLTS	HH	WEIGHT (kg)	F1	F2	□ N	P	Ø d1 x l	
	132 S	5,5	5,5	38	-					07	700	480	110	29	360	400	80	4	280	27	850	550	120	250	M16 x 270	
		7,5																								
	132 M	9,2	7,5	38	-																					
			9,2																							
	160 M	11,0	11,0	42	-																					
																										15,0
	160 L	18,5	15,0	42	-																					
	180 M	22,0	18,5	48	-																					
	180 L	-	22,0	48	-																					
	256C	20HP	-	1.406	-																					



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 D-35394 Gießen
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Baureihe / Series:

MTA

Typ / Type:

MTA 2020

Motor:

2900 1/min