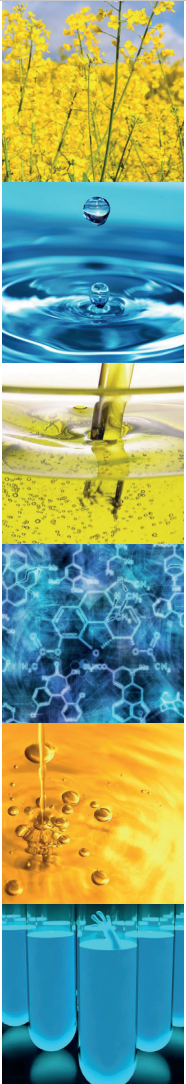
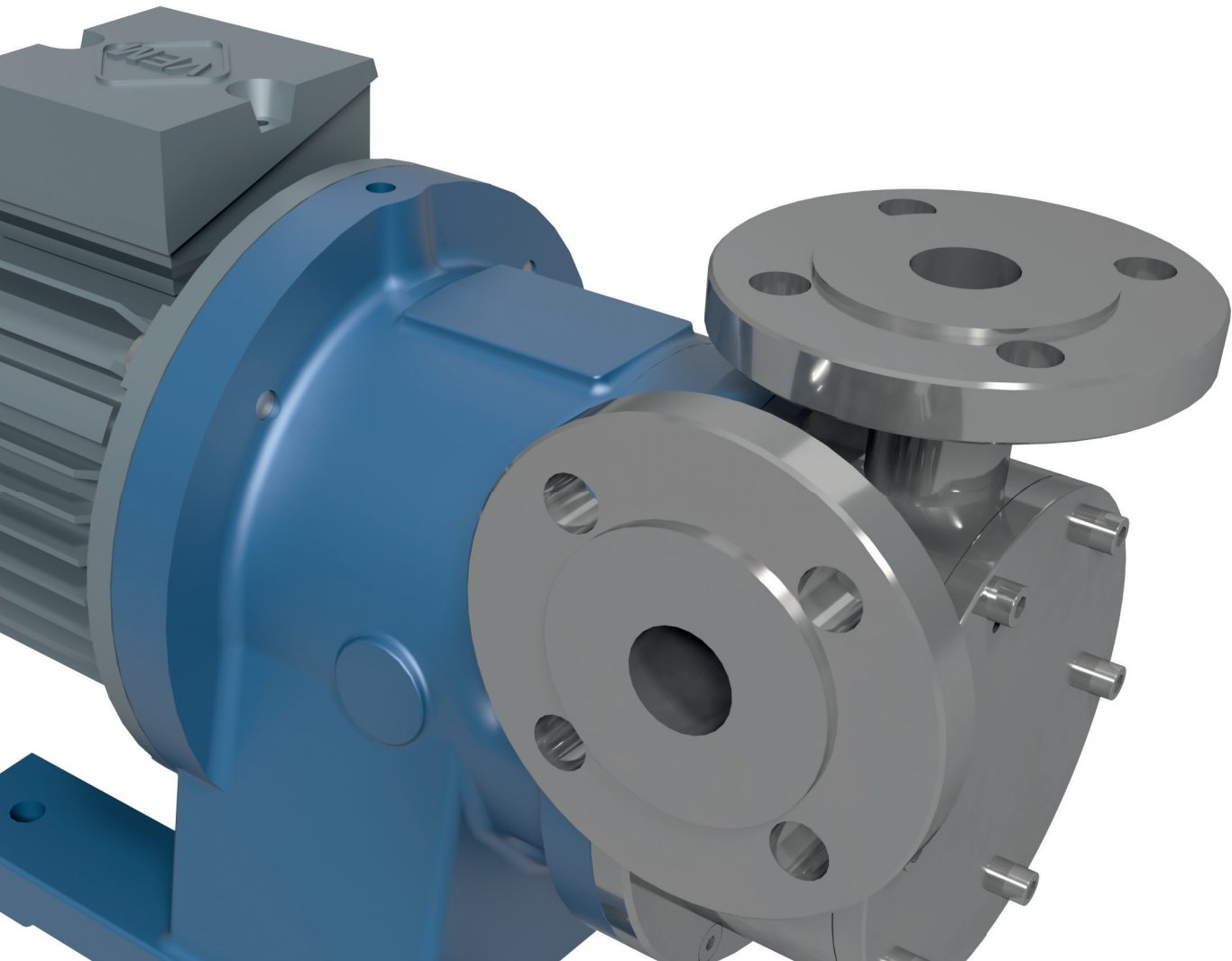


MAGNETGEKUPPELTE SEITENKANAL PERIPHERALRADPUMPEN

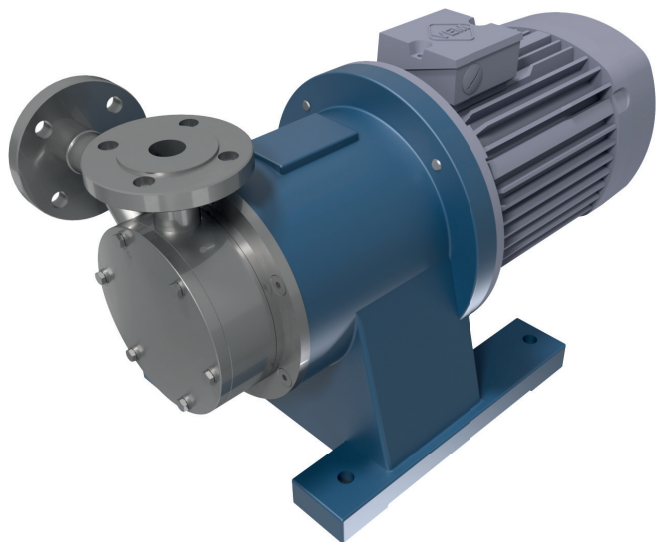
Baureihe MTA



MAGNETGEKUPPELTE PERIPHERALRADPUMPEN

Baureihe MTA

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



TECHNISCHE DATEN

Nenndrehzahl: 2900 1/min
Fördermenge / Förderhöhe, 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
Systemdruck: PN16 ... 250 bar
Temperaturen: -100 ... 315 °C
Dichte max.: 1,8 kg/dm³
Viskosität max.: 200 cP

ANSCHLÜSSE

Rohr-Innengewinde / Flansch
MTA 25: G 1/2" / DN15
MTA 37: G 3/4" / DN20
MTA 49: G 1" / DN25
MTA 78: G 1" / DN25
MTA 1011: G 1" / DN25
MTA 2020: G 1 1/2" / DN40

WERKSTOFFE

Gehäuse: AISI316, HC276, Duplex, Titan
O-Ringe: EPDM, FKM, FFKM, FEP
Gleitlager: Kohle-Graphit, PTFEC, SiC
Axiallager: Kohle-Graphit, PTFEC

ANWENDUNGEN

Hauptanwendungen der Pumpen dieser Baureihen sind:

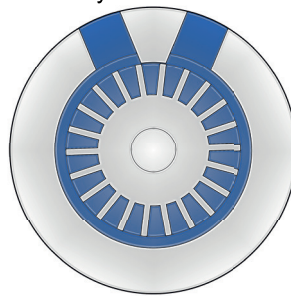
- Tieftemperaturanwendungen
- Kältemittel
- Hochtemperatur / Hochdruckanwendungen
- Flüssiggase
- Pharmazie- und Biotechnik
- Druckerhöhungspumpen
- Abwasseraufbereitung
- Umkehrosmose

KONSTRUKTIONSMERKMALE

- Seitenkanal Peripheralradpumpe
- Turbinenrad
- Leckagefrei
- Magnetgekuppelt
- Gas-mitfördernd
- Selbstansaugend (nass)
- NdFeB / CoSm Permanentmagnete
- Blockbauweise
- Wartungsfrei
- Wenige Verschleißteile
- Pumpe auch nach ATEX 2014/34/EU

PRODUKTBESCHREIBUNG

MARCH Magnetgekuppelte Peripheralradpumpen der Baureihe MTA sind in verschiedenen Metallausführungen erhältlich. Eine Vielzahl turbinenförmiger Leitschaufeln erzeugen einen vergleichsweise hohen Förderdruck, bei geringen Fördermengen. Die Pumpen der Baureihe MTA sind in Seitenkanalausführung gefertigt, so dass Gasanteile im Medium von max. 20 Vol-% problemlos mitgefördert werden können, ohne Trockenlaufschäden zu verursachen. Magnetgekuppelte Pumpen arbeiten völlig ohne mechanische Wellenabdichtung. Die Kraftübertragung erfolgt berührungslos und kraftschlüssig durch starke Permanentmagneten auf das Hydraulikteil.

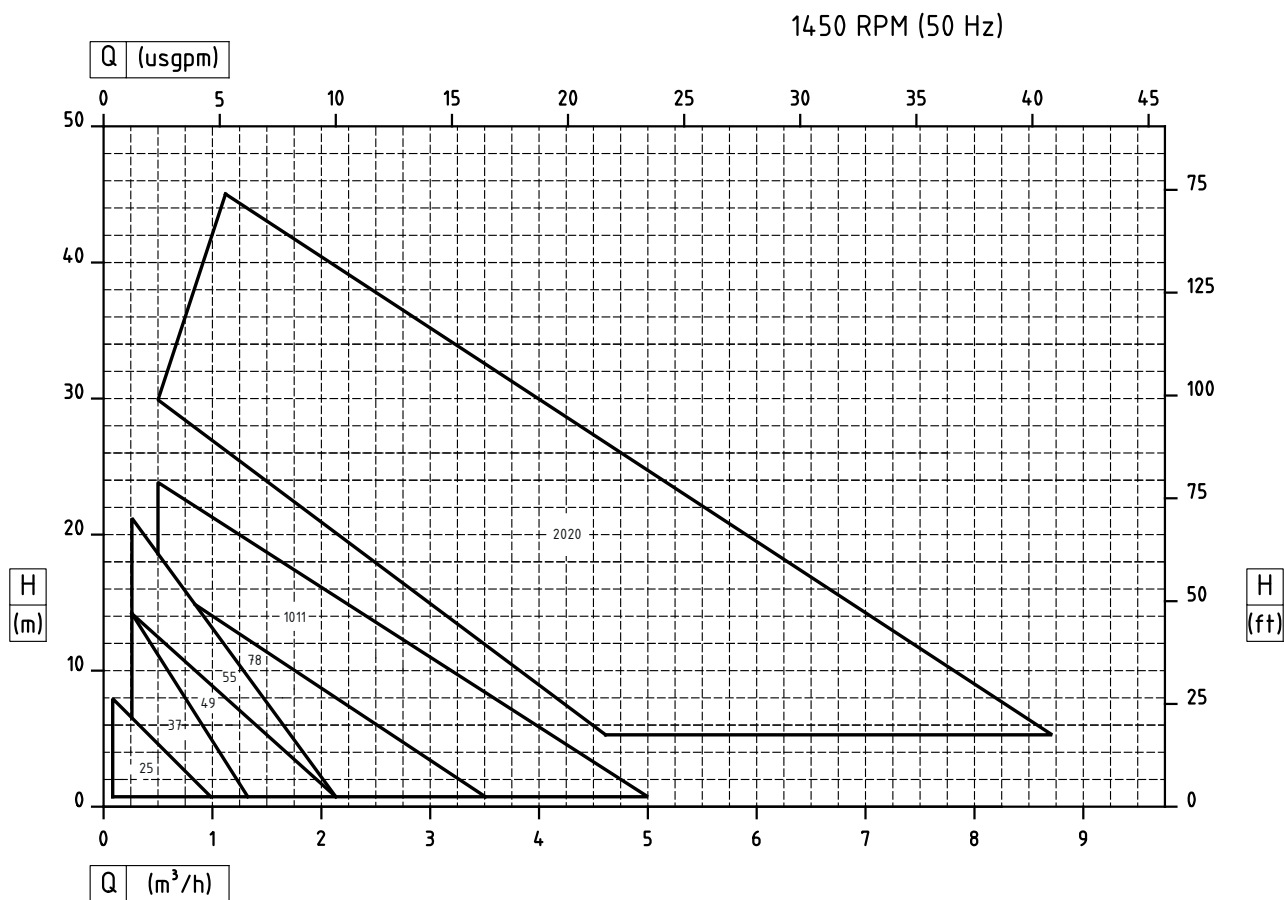
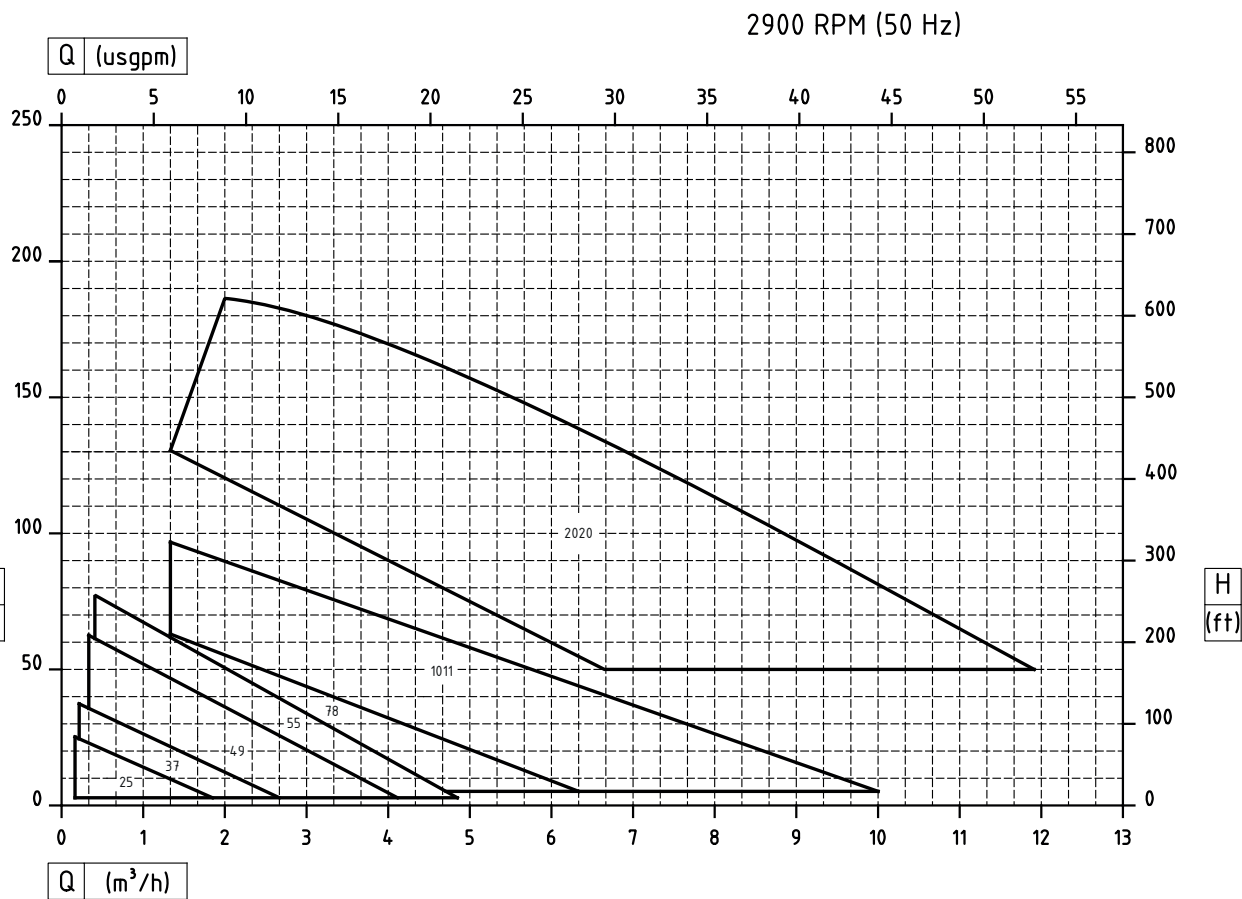


MARCH Magnetgekuppelte Peripheralradpumpen eignen sich zur leckagefreien Förderung aggressiver, umweltgefährdender und toxischer Medien, insbesondere dann, wenn kleine Fördermengen bei großen geodätischen Förderhöhen gepumpt werden müssen.

Die Magnetkupplung gewährleistet eine absolute hermetische Dichtheit der Pumpe. Die Pumpen werden standardmäßig in kompakter Blockbauweise angefertigt. Das modulare Baukastensystem ermöglicht die schnelle Austauschbarkeit der Einzelteile ohne besondere Werkzeuge.

Als Antriebe werden ausschließlich europäische IEC-Normmotoren nach DIN/EN 60034 und VDE 0530 adaptiert.

Für einen störungsfreien Pumpenbetrieb sind die Einsatzgrenzen, insbesondere aber die Mindestfördermenge und die erforderliche Zulaufhöhe (NPSH, erf.) zu beachten.



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 D-35394 Gießen
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info@march-pumpen.com

Baureihe / Series:

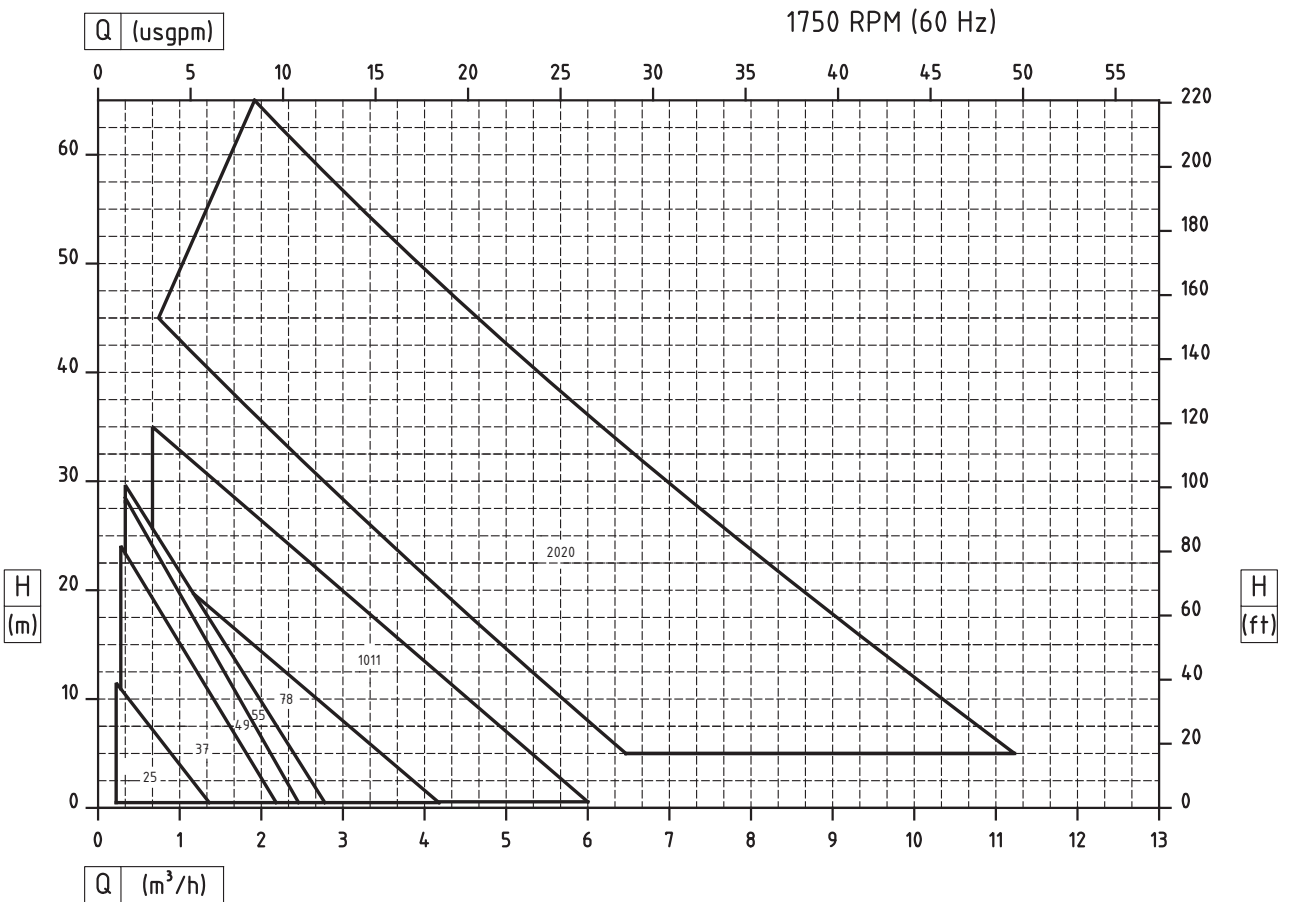
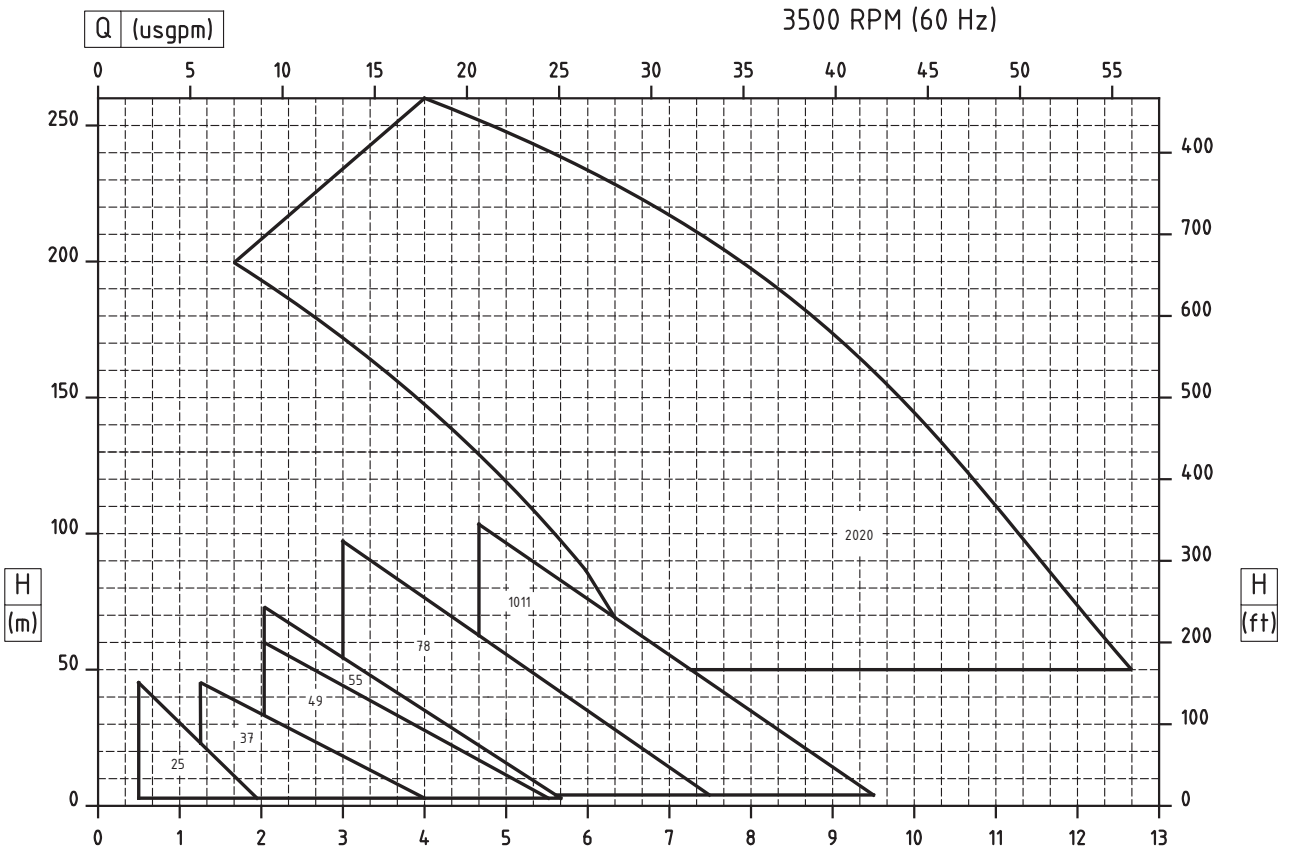
MTA

Typ / Type:

Family Curves

Motor Speed:

2900 / 1450 RPM (50 hz)



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Baureihe / Series:

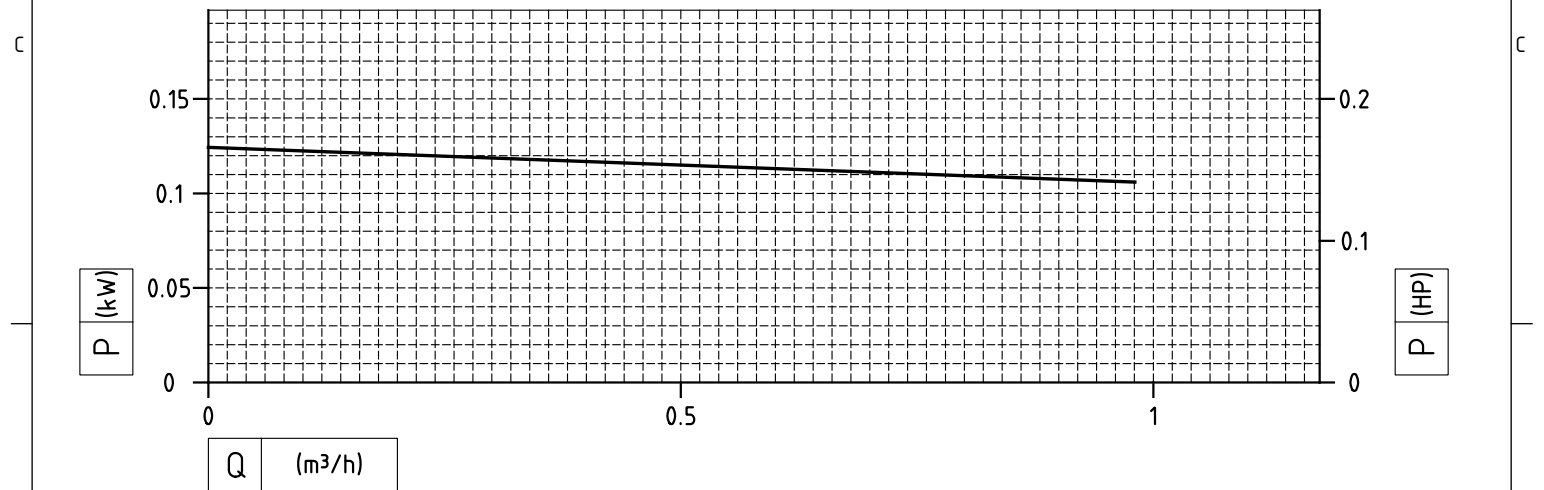
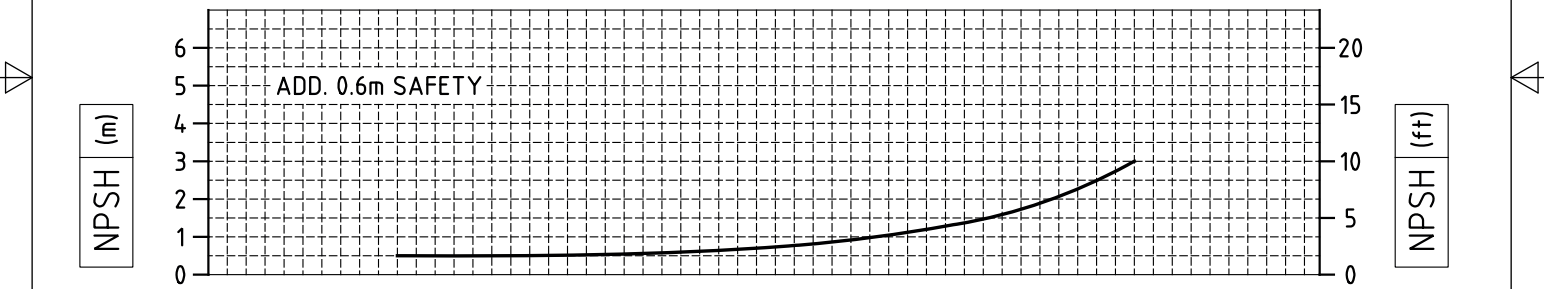
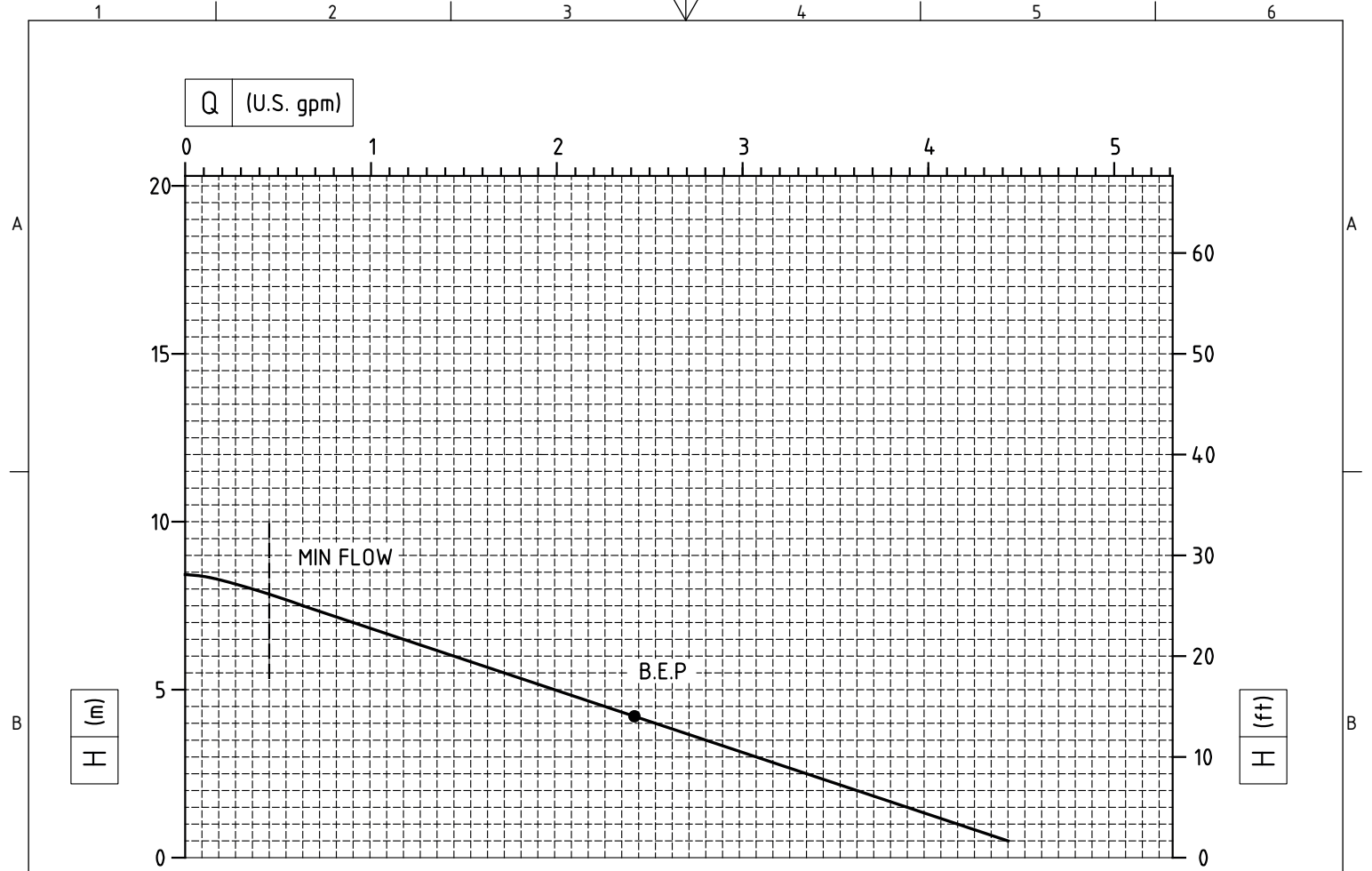
MTA

Typ / Type:

Family Curves

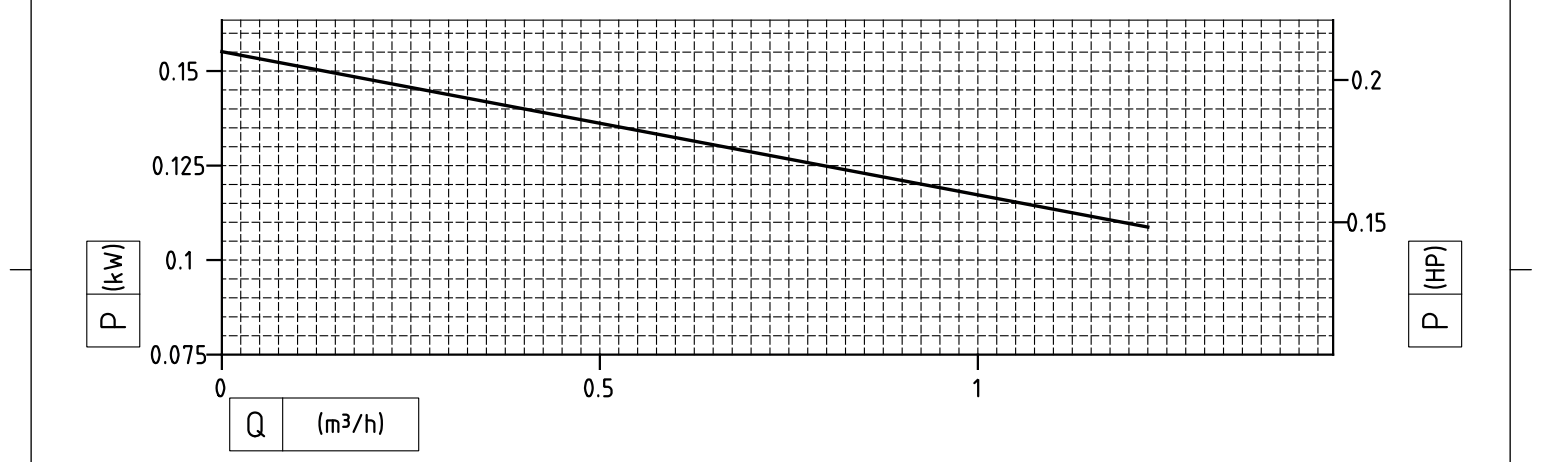
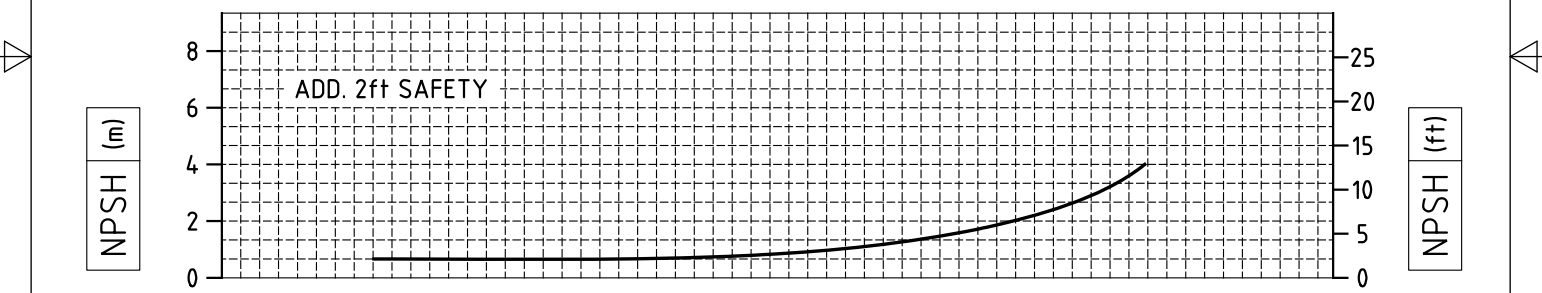
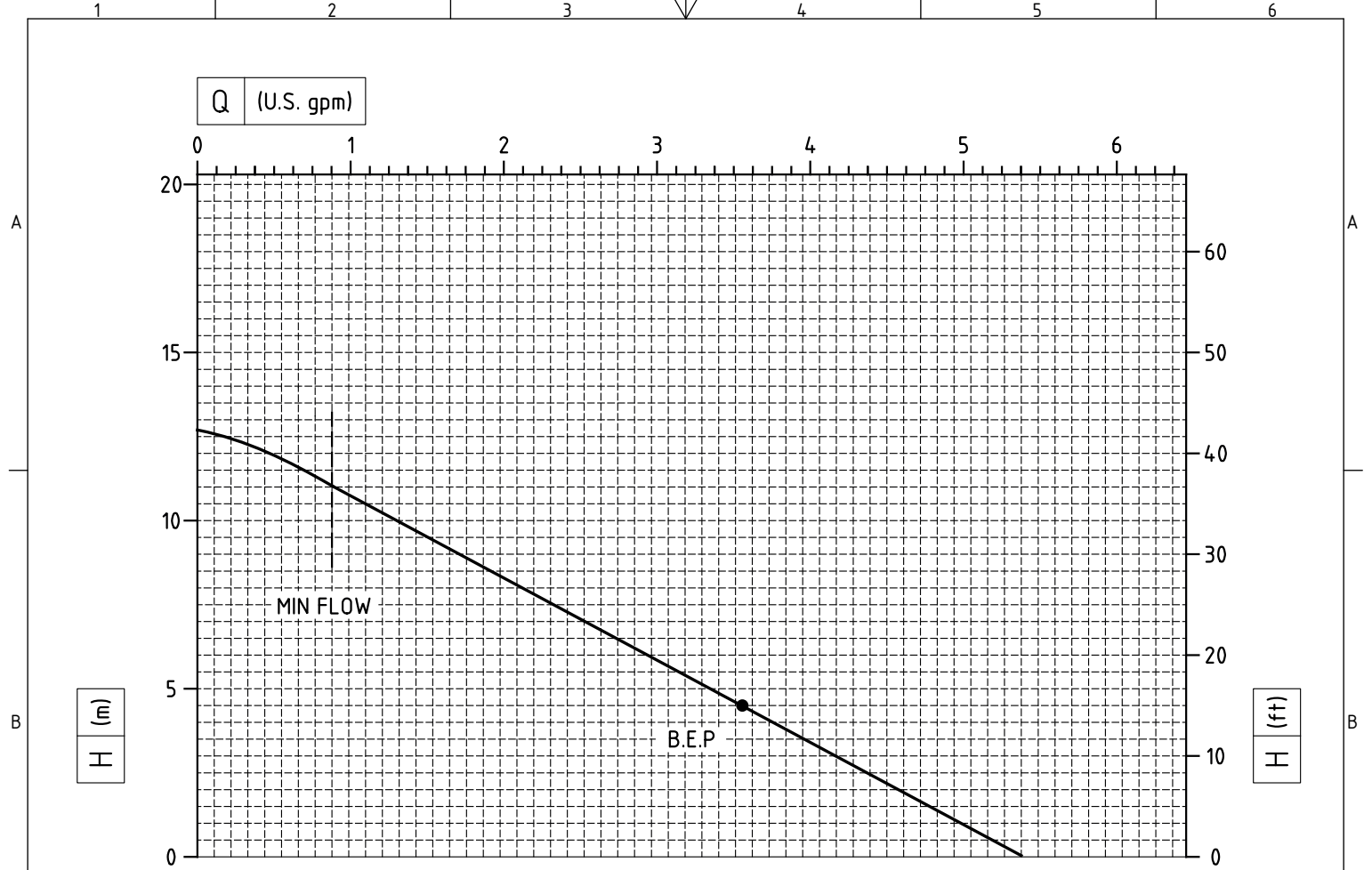
Motor Speed:

3500 / 1750 RPM (60 hz)

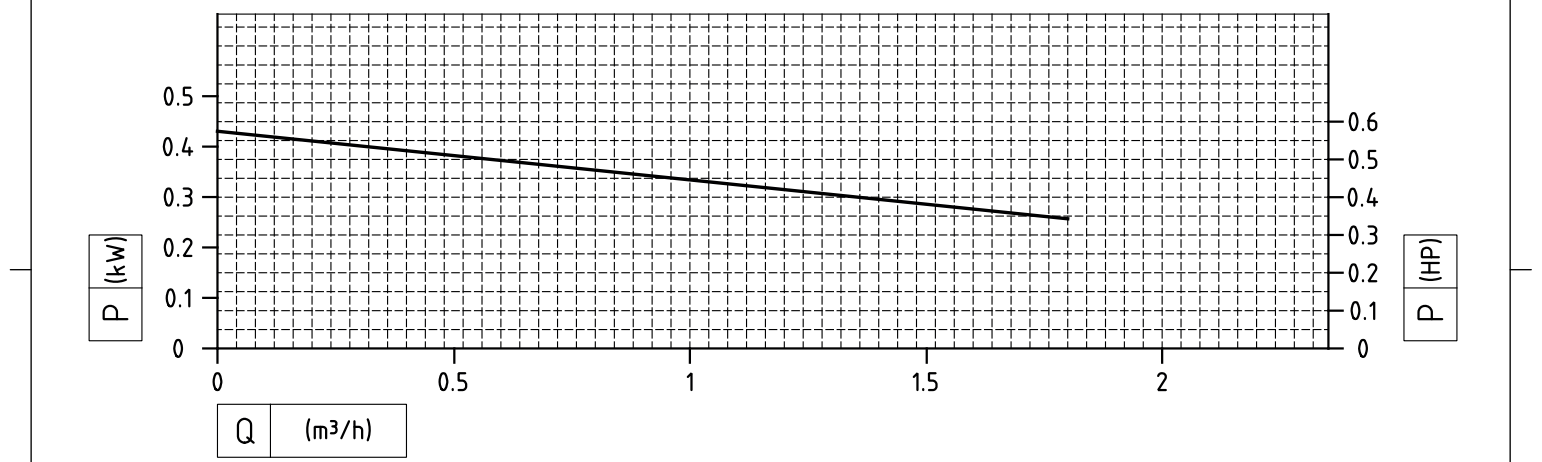
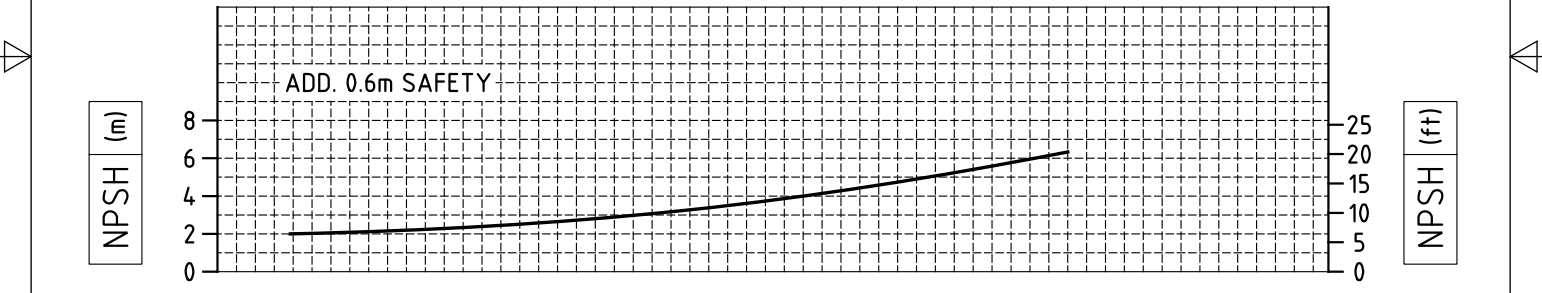
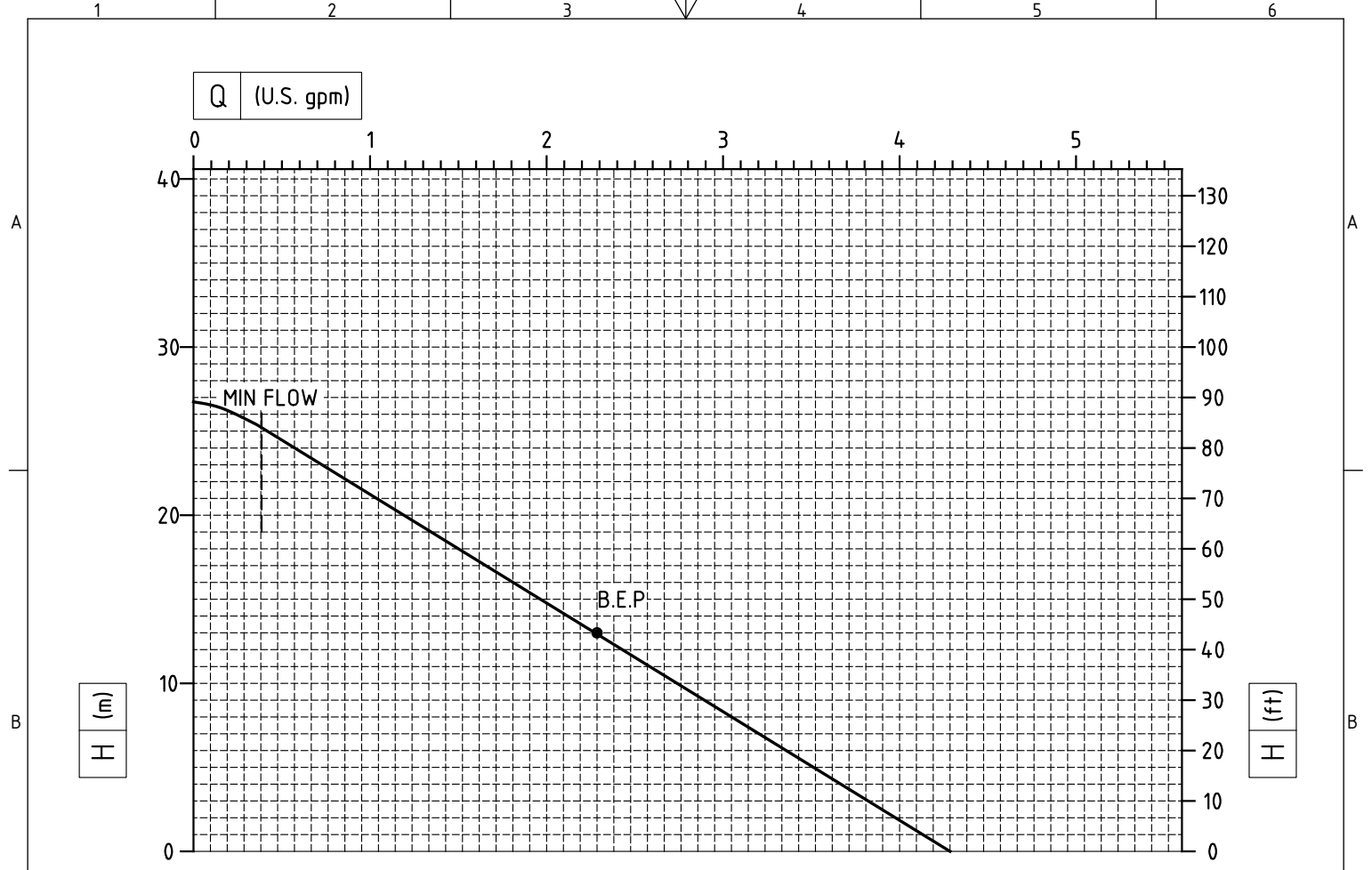


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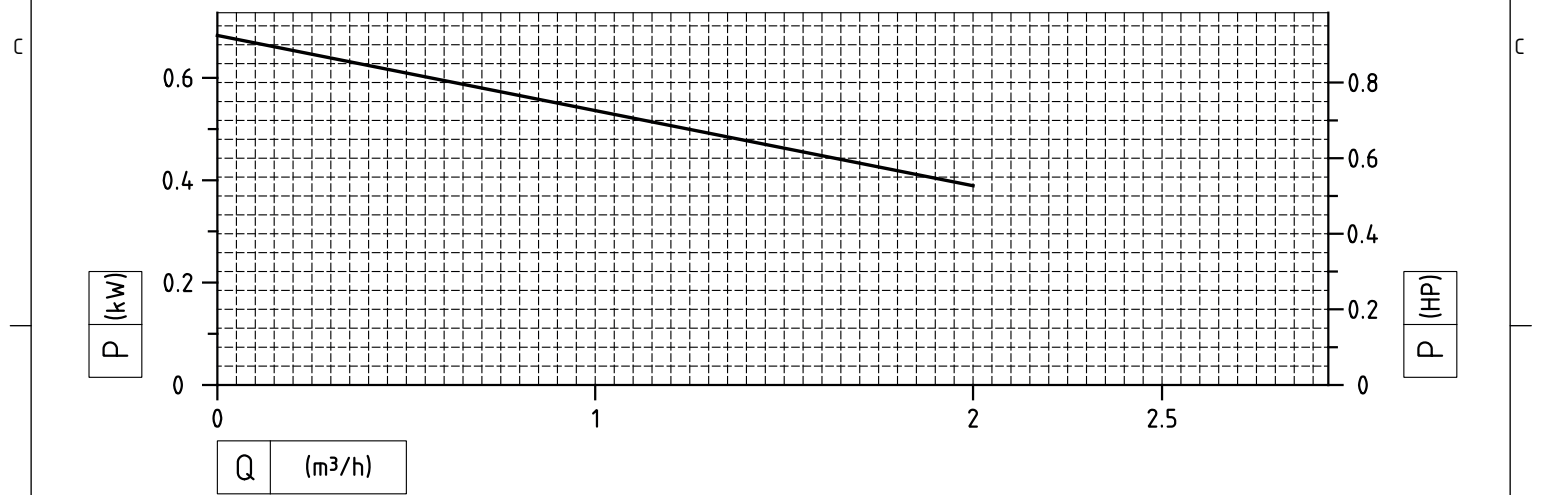
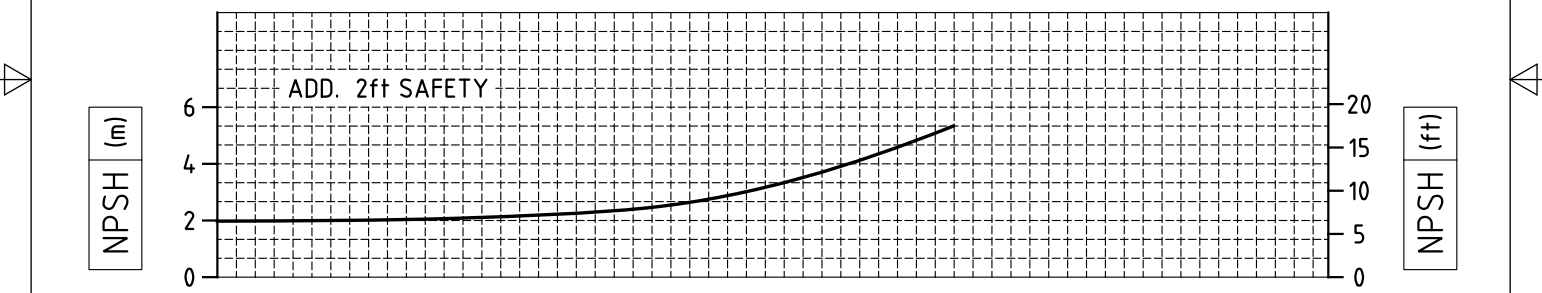
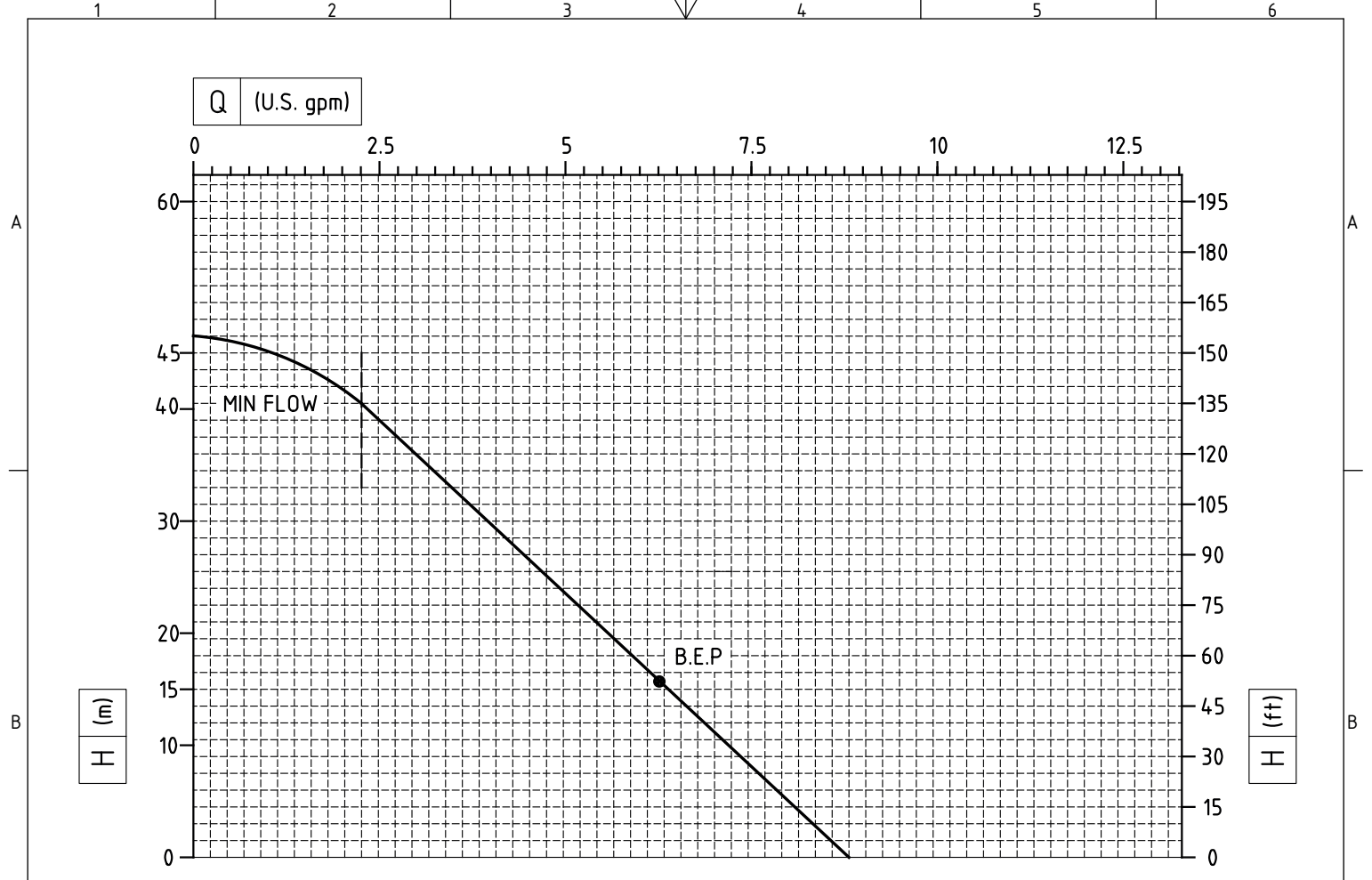
Baureihe / Series:	MTA
Typ / Type:	MTA 25
Motor Speed:	1450 1/min



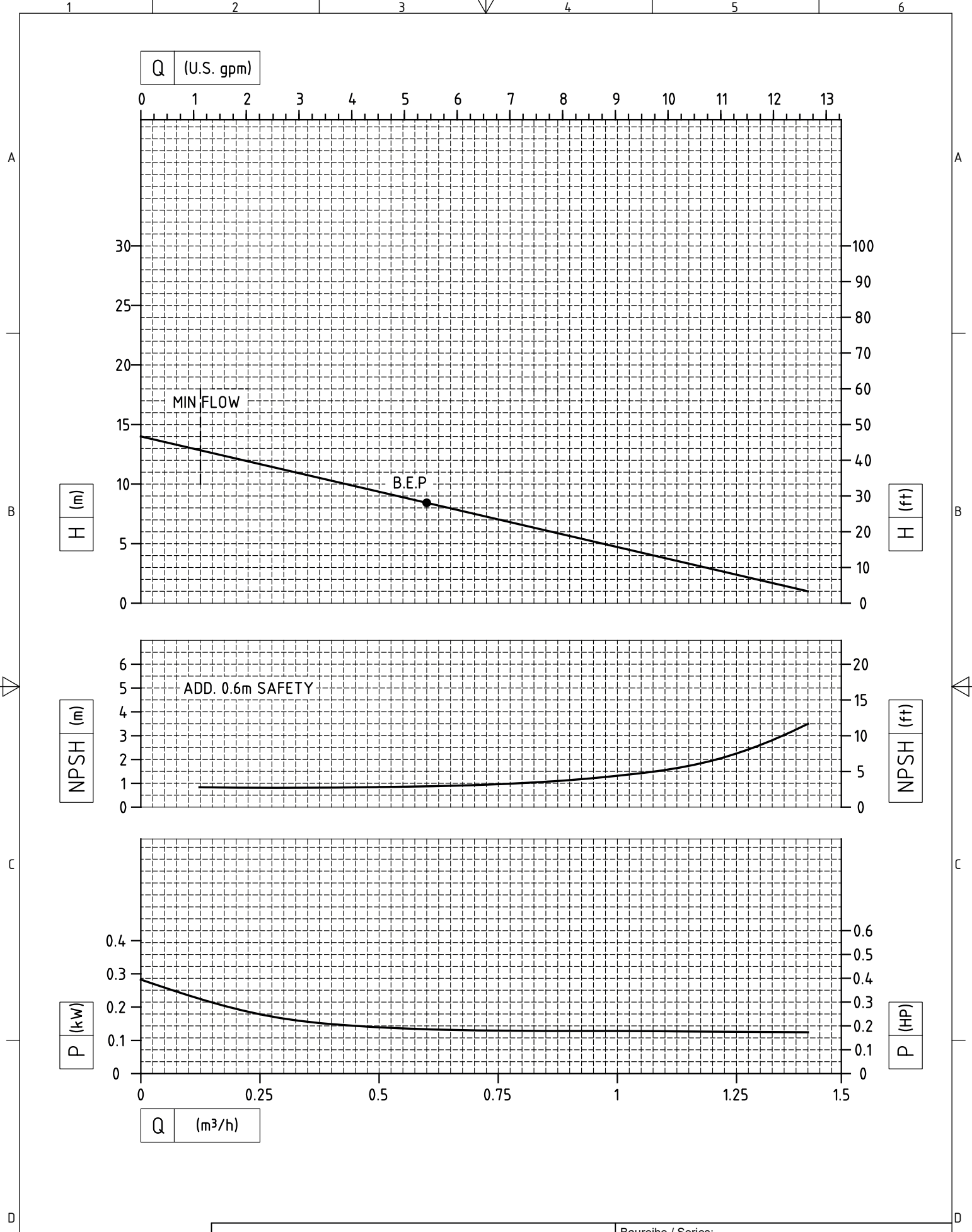
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		Typ / Type:	MTA 25
		Motor Speed:	1750 1/min



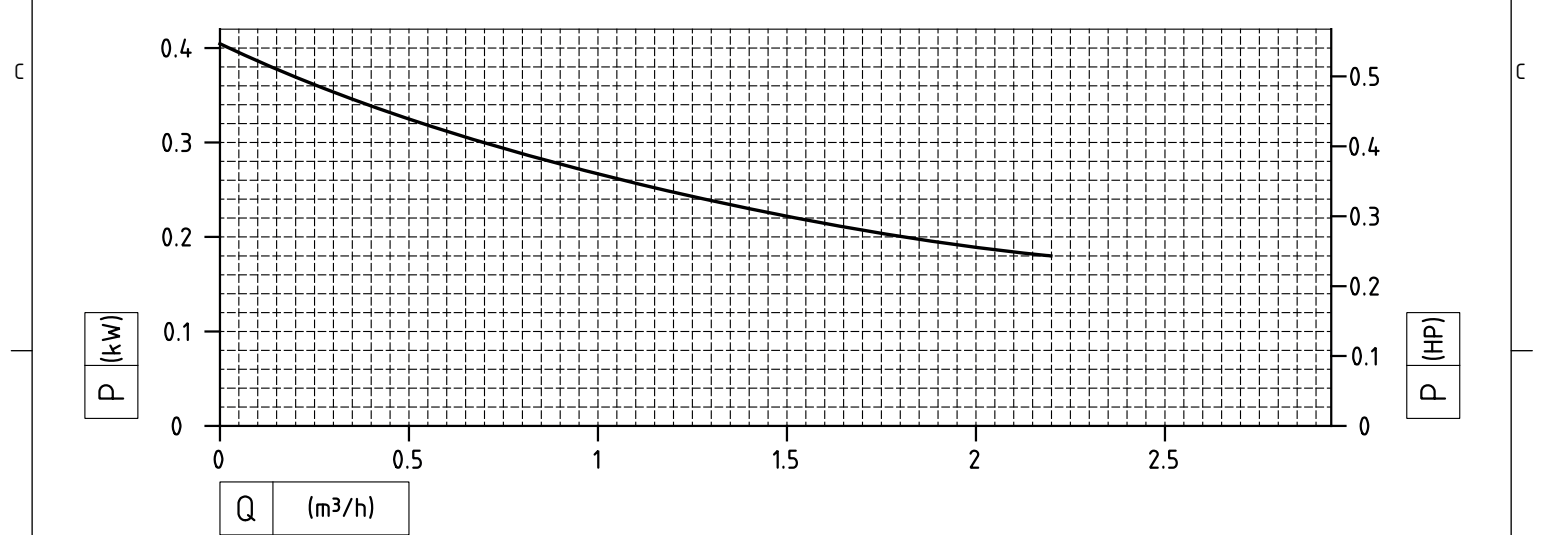
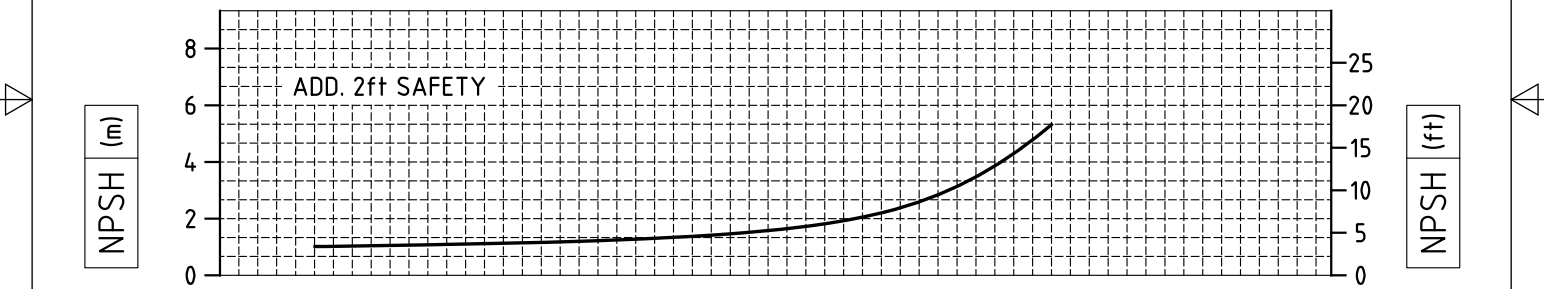
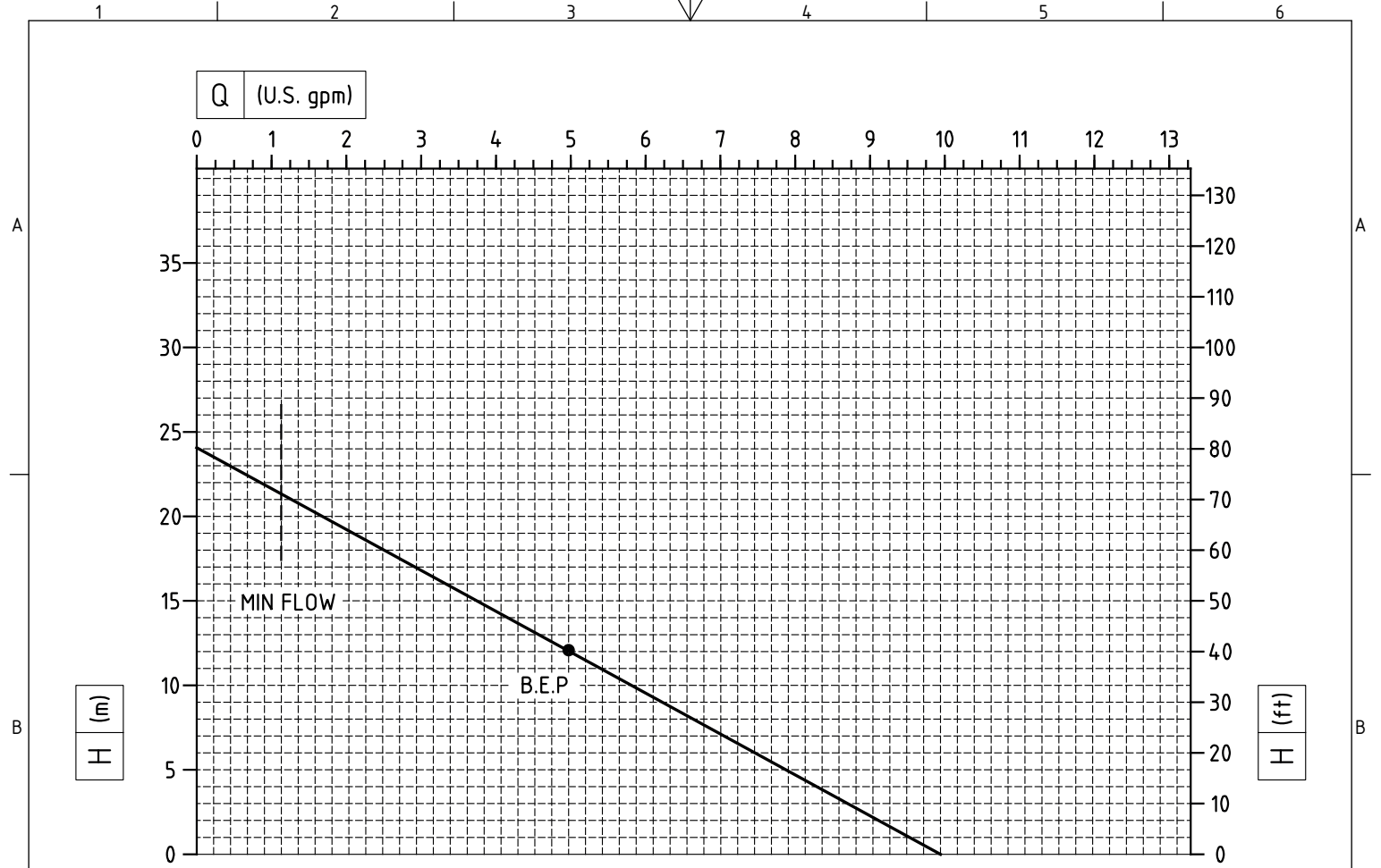
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		Typ / Type:	MTA 25
		Motor Speed:	2900 1/min



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

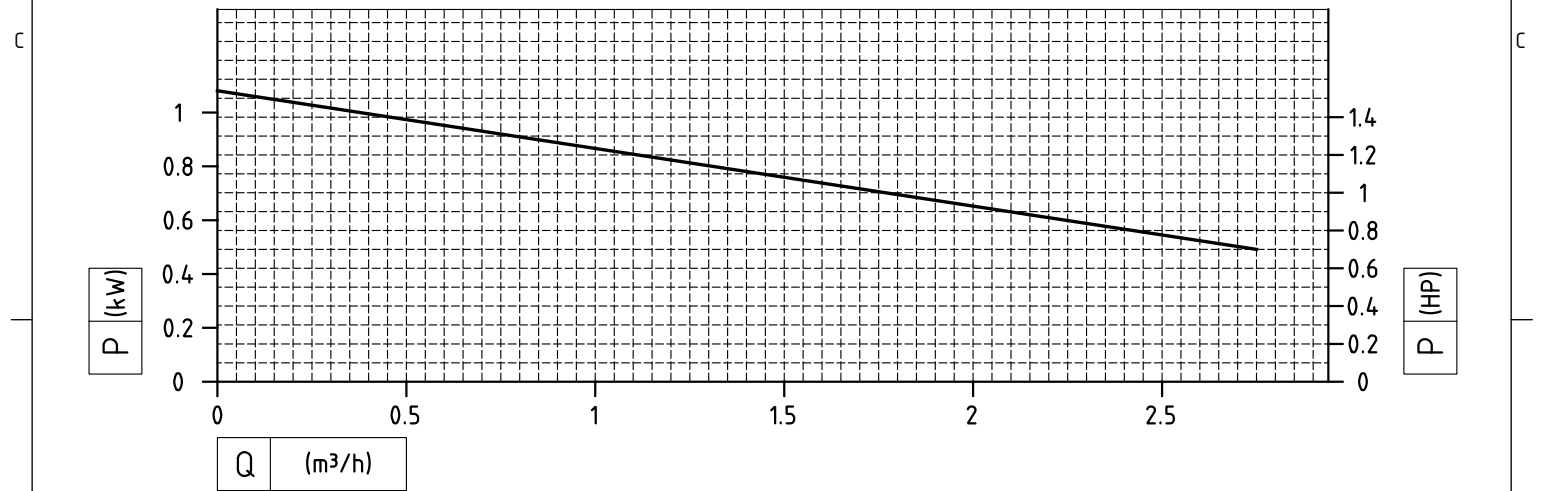
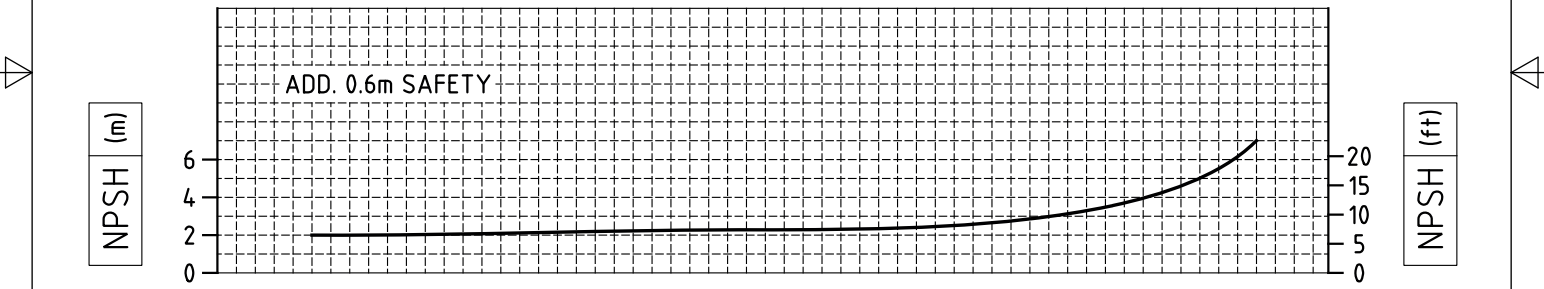
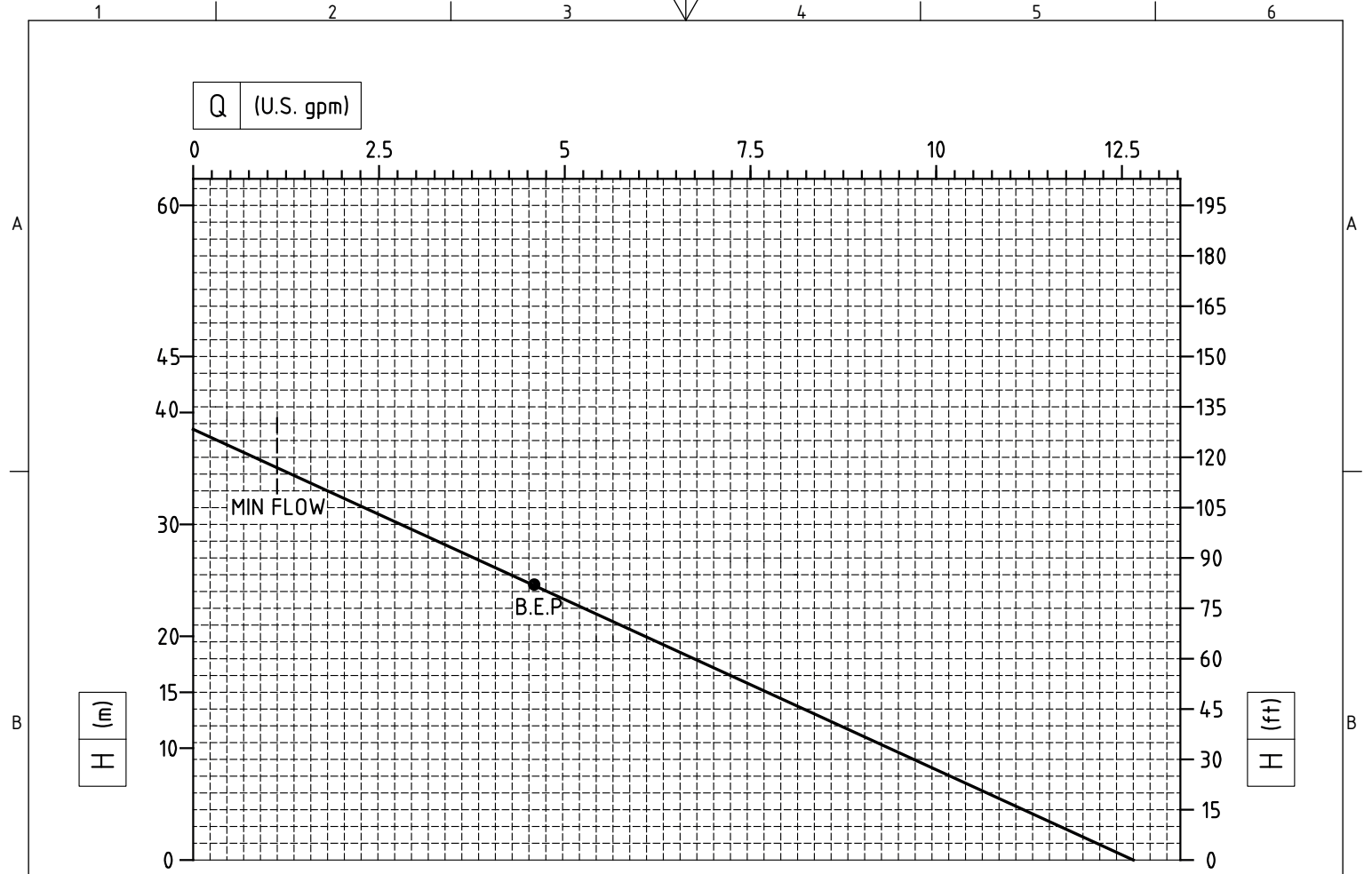


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	www.march-pumpen.com info@march-pumpen.com	Typ / Type: MTA 37
		Motor Speed: 1450 1/min



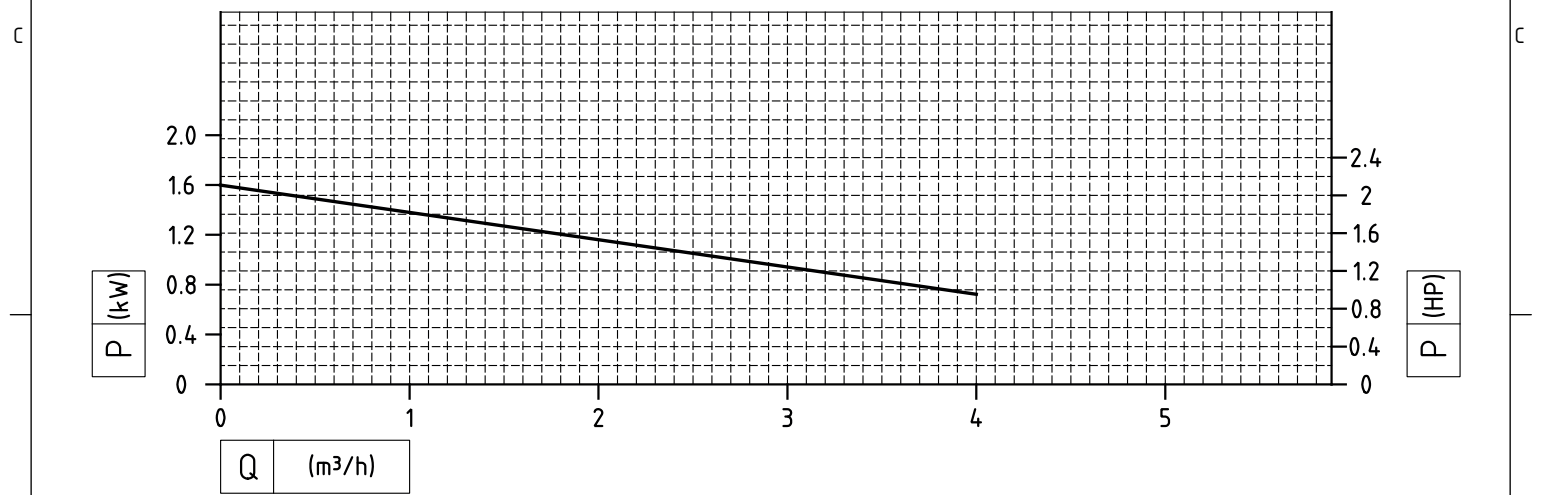
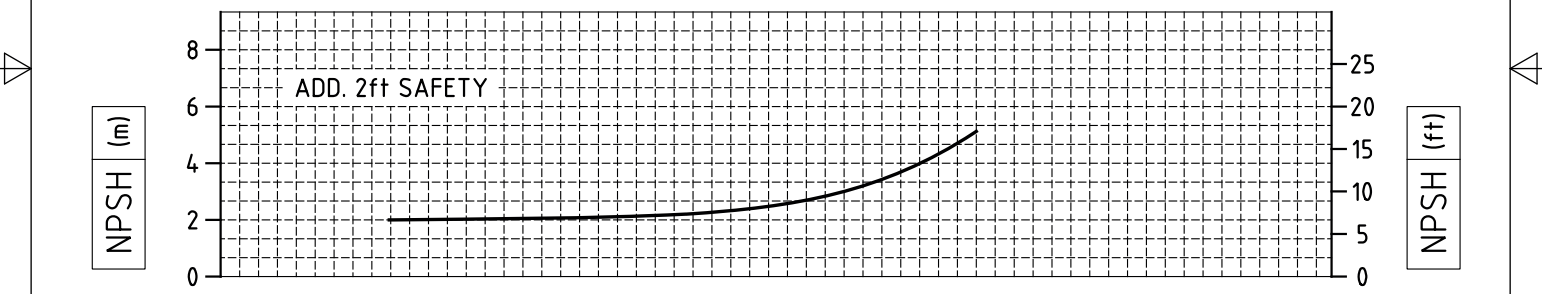
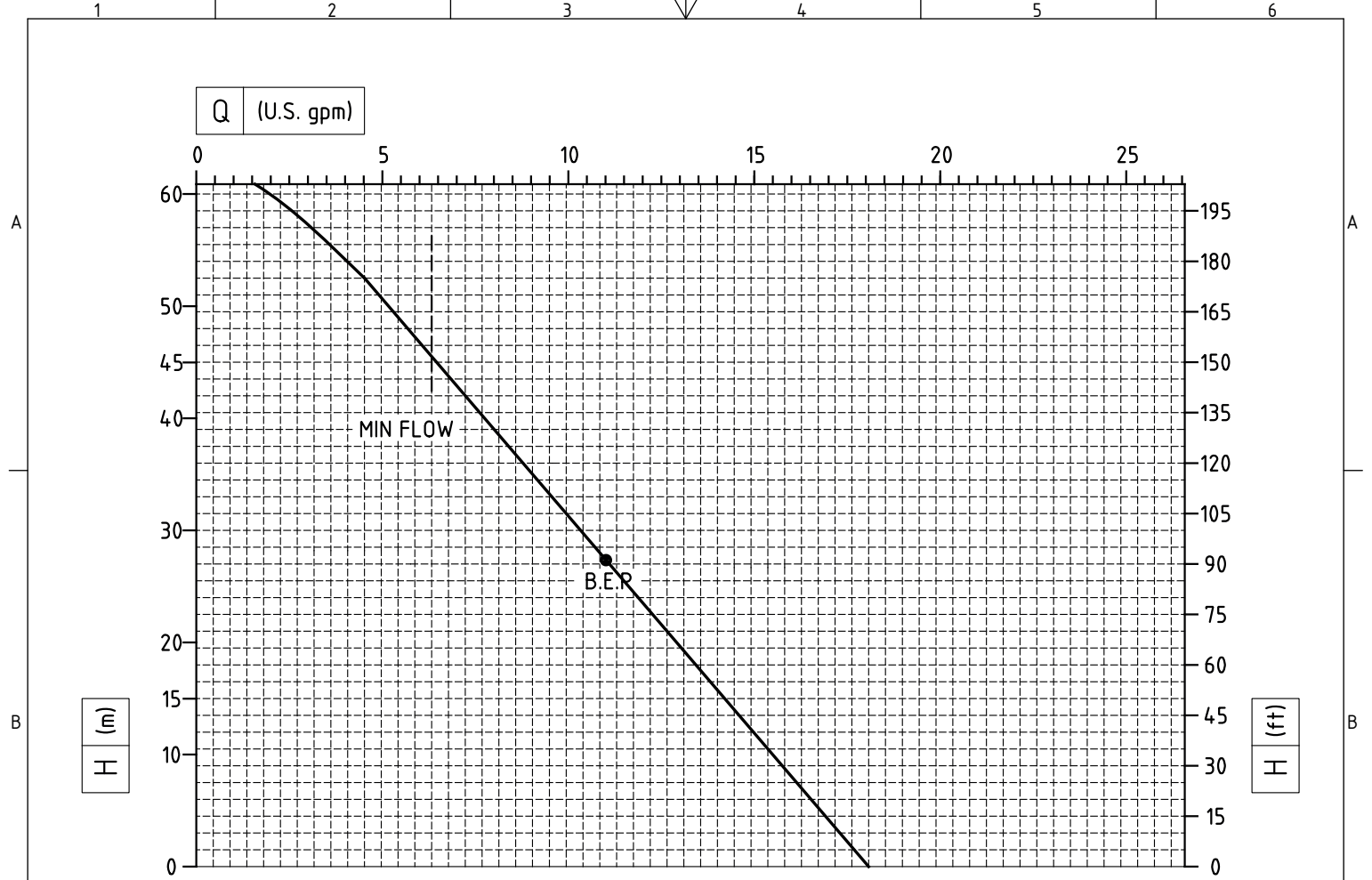
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info@march-pumpen.com

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

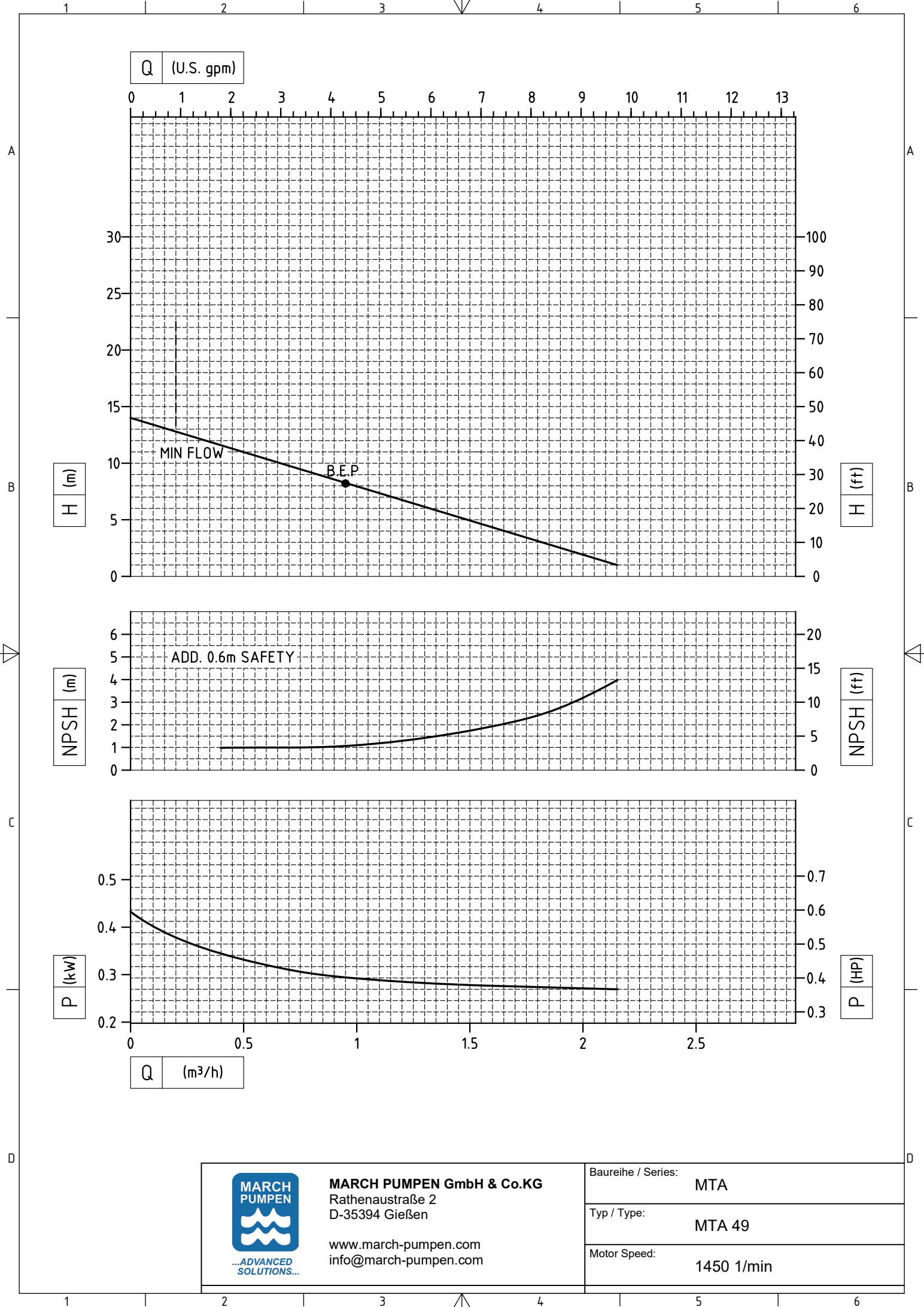


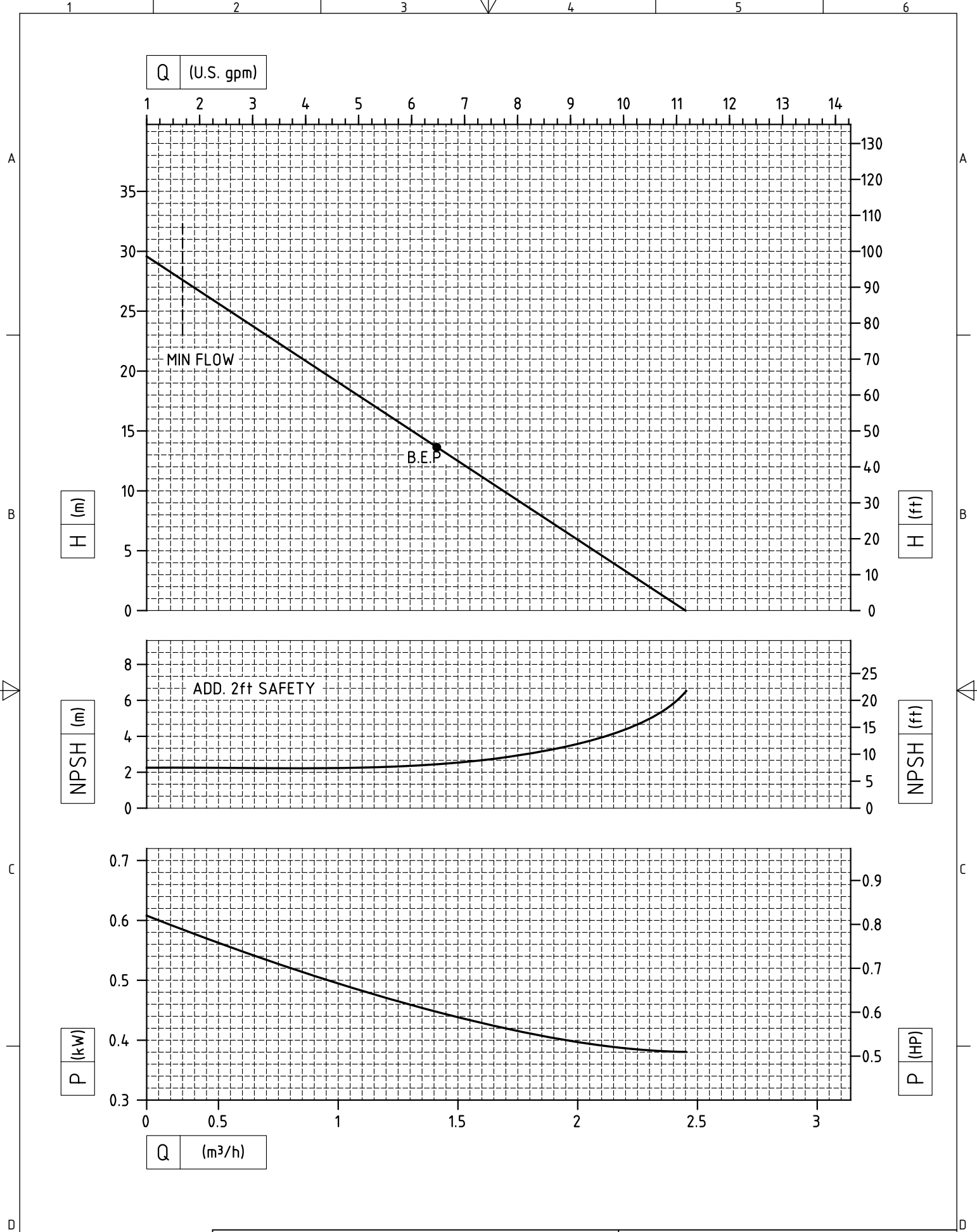
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info@march-pumpen.com

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

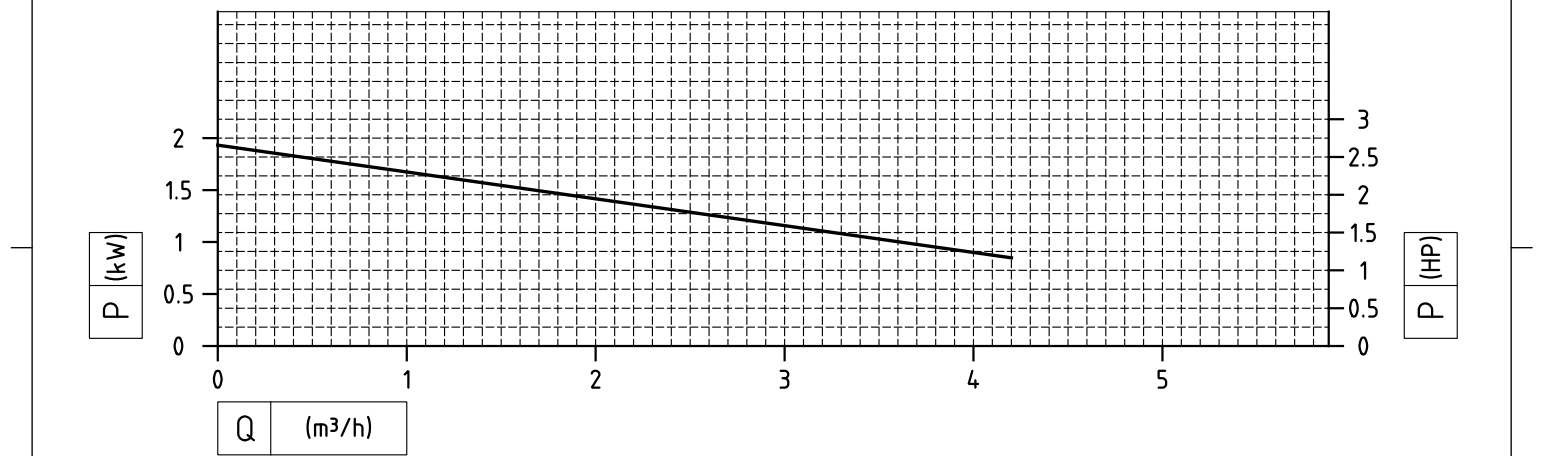
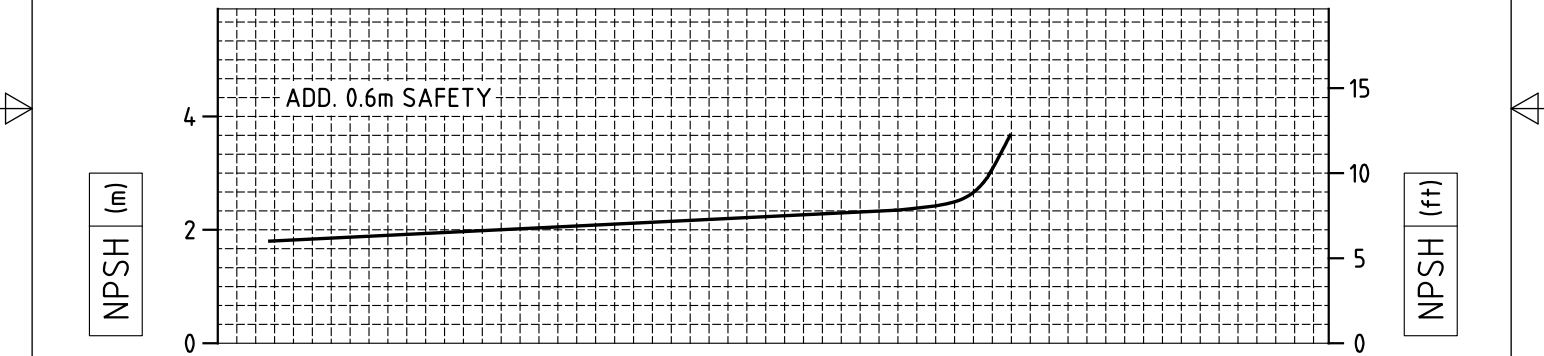
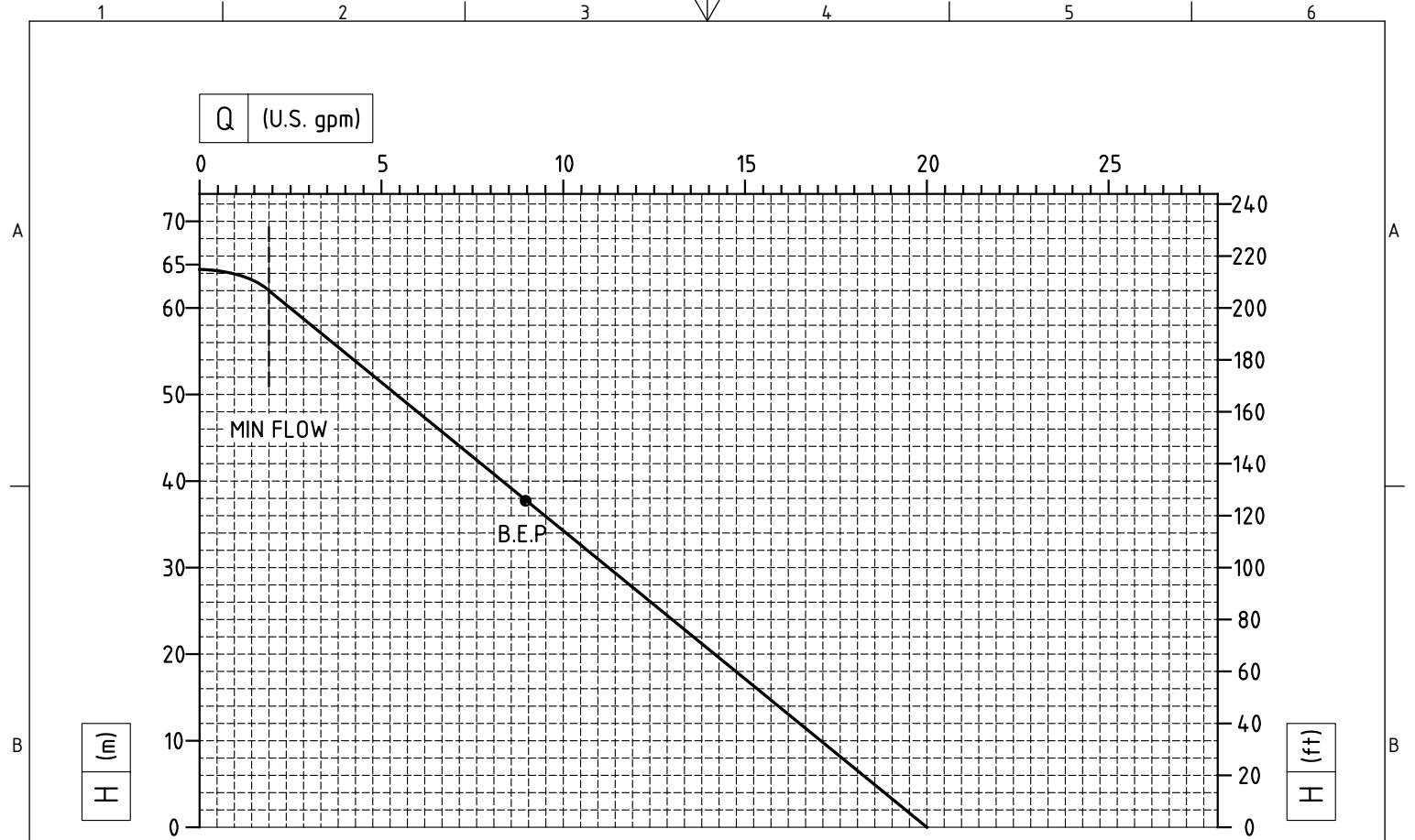


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	www.march-pumpen.com info@march-pumpen.com	Typ / Type: MTA 37
		Motor Speed: 3500 1/min





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



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Baureihe / Series:

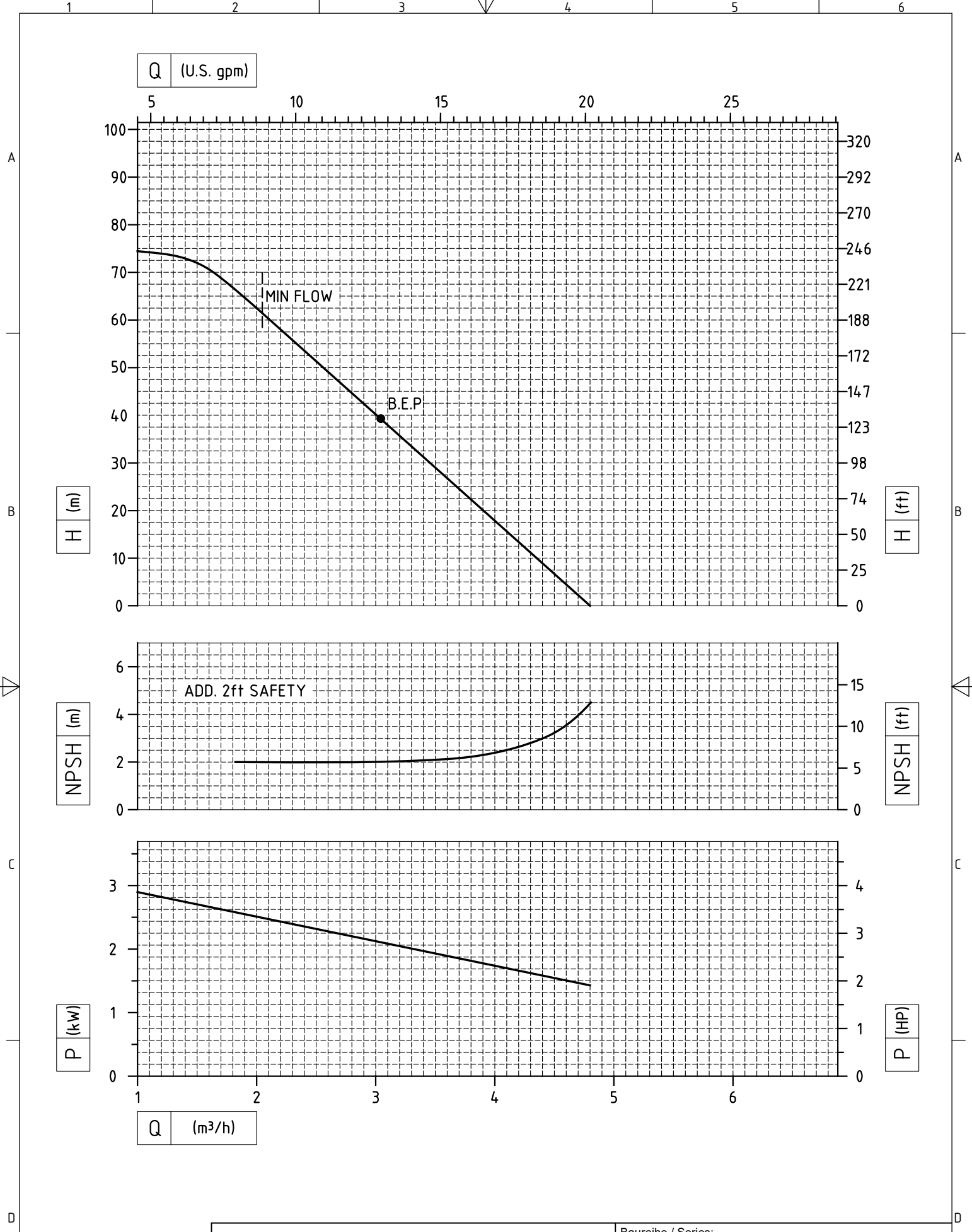
MTA

Typ / Type:

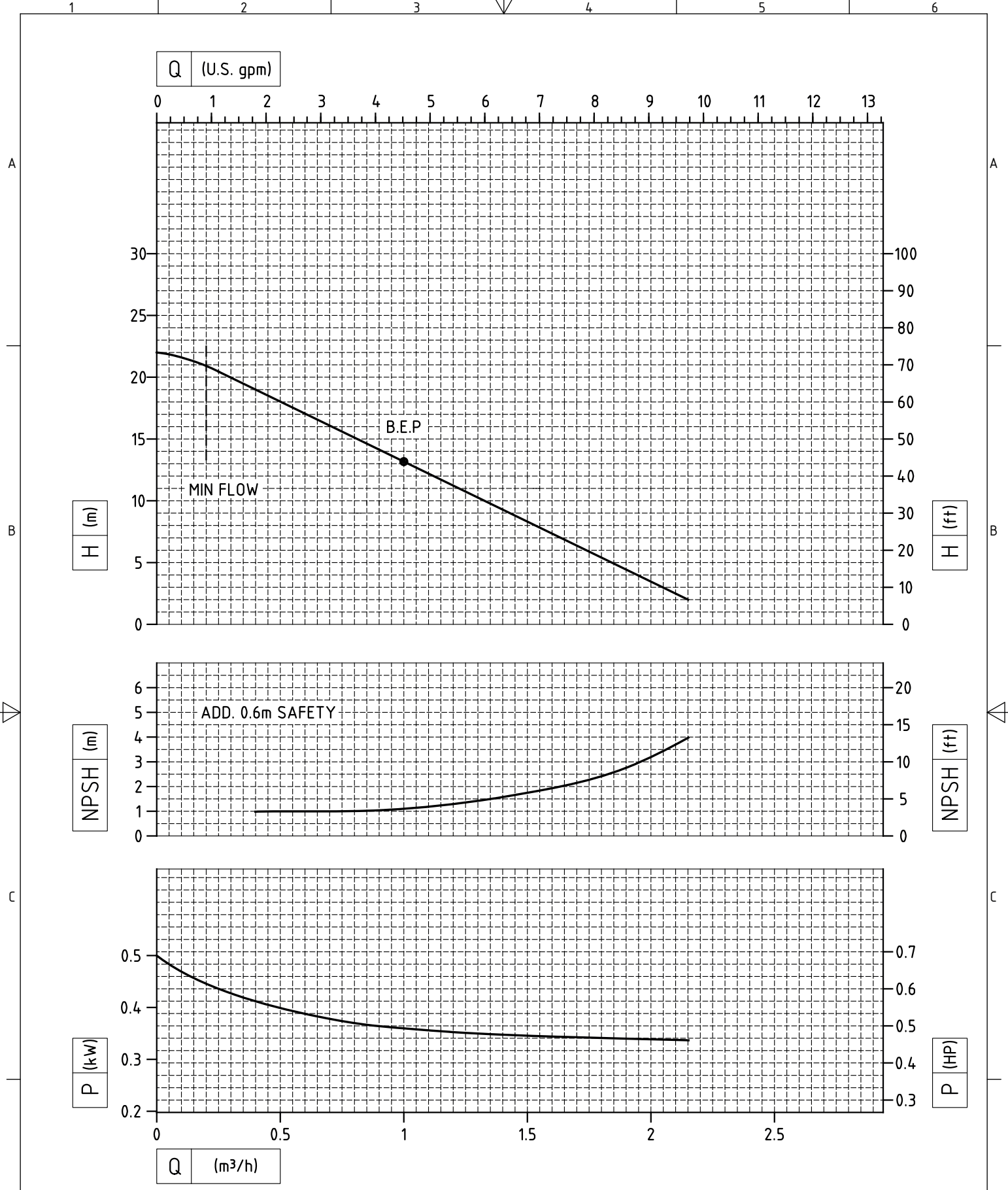
MTA 49

Motor Speed:

2900 1/min

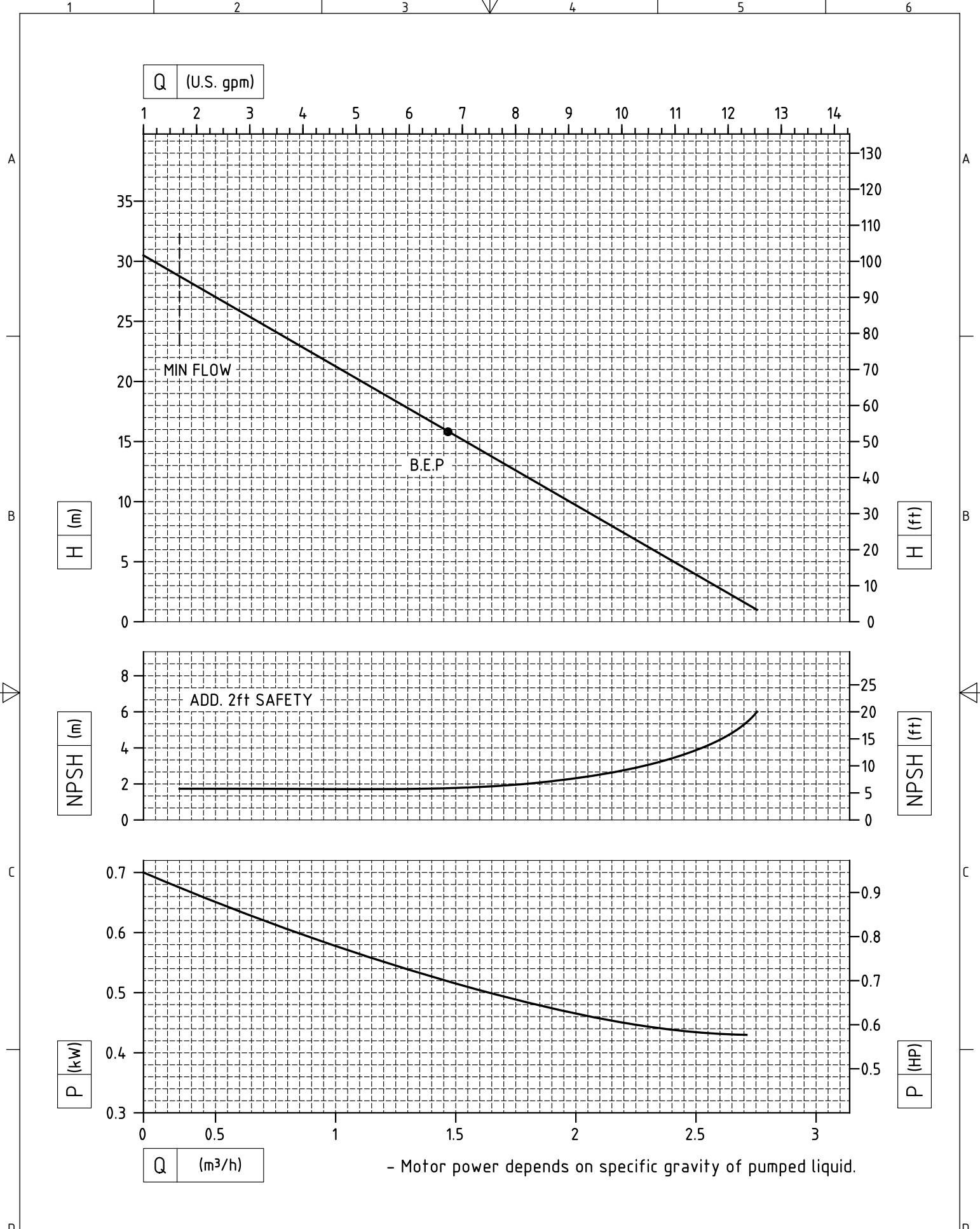


 ...ADVANCED SOLUTIONS...	MARCH PUMPEN GmbH & Co.KG Rathenaustraße 2 D-35394 Gießen www.march-pumpen.com info@march-pumpen.com	Baureihe / Series: MTA
		Typ / Type: MTA 49
		Motor Speed: 3500 1/min

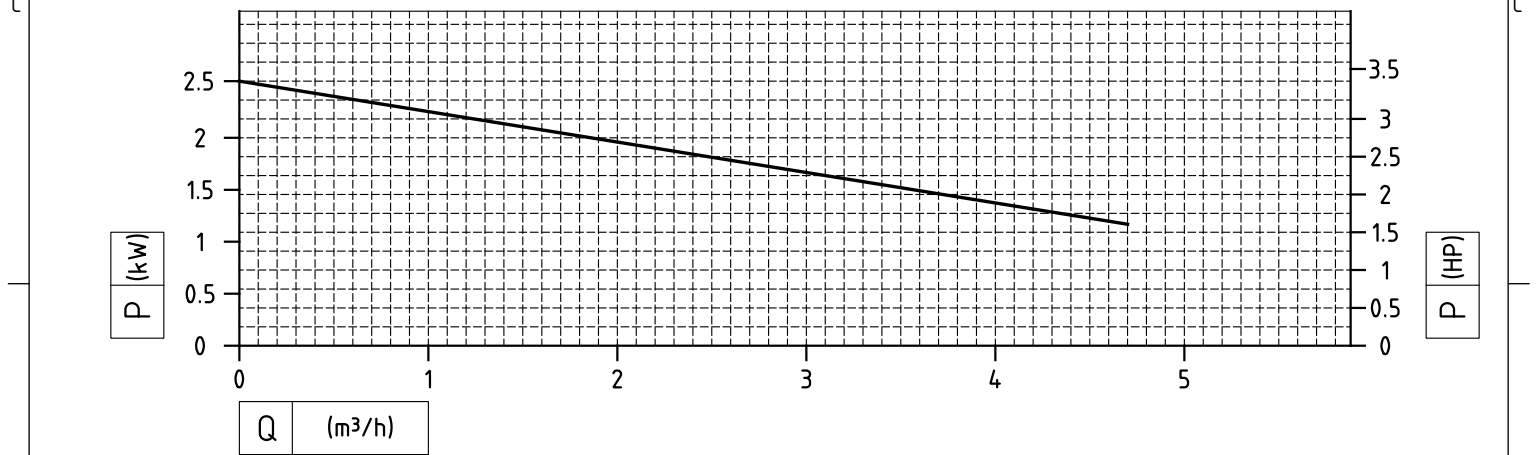
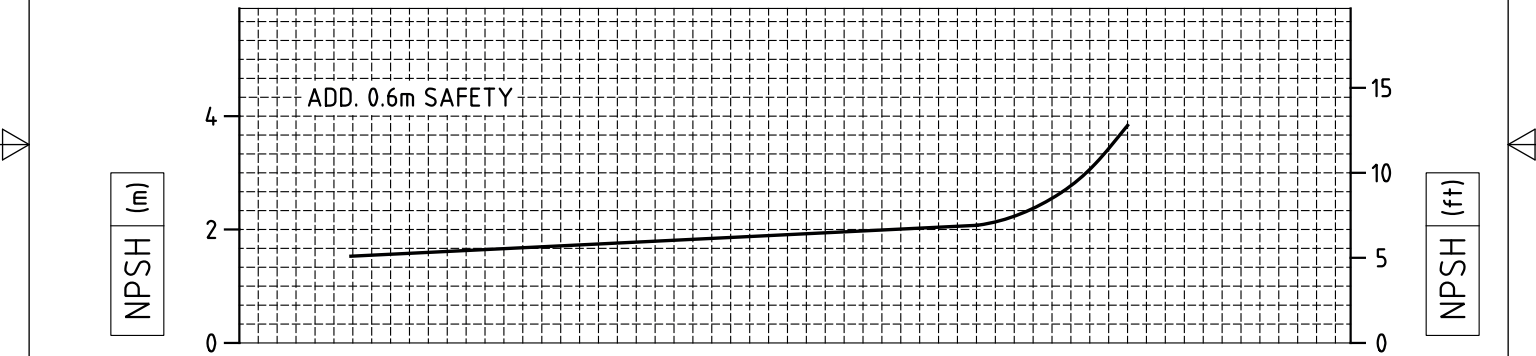
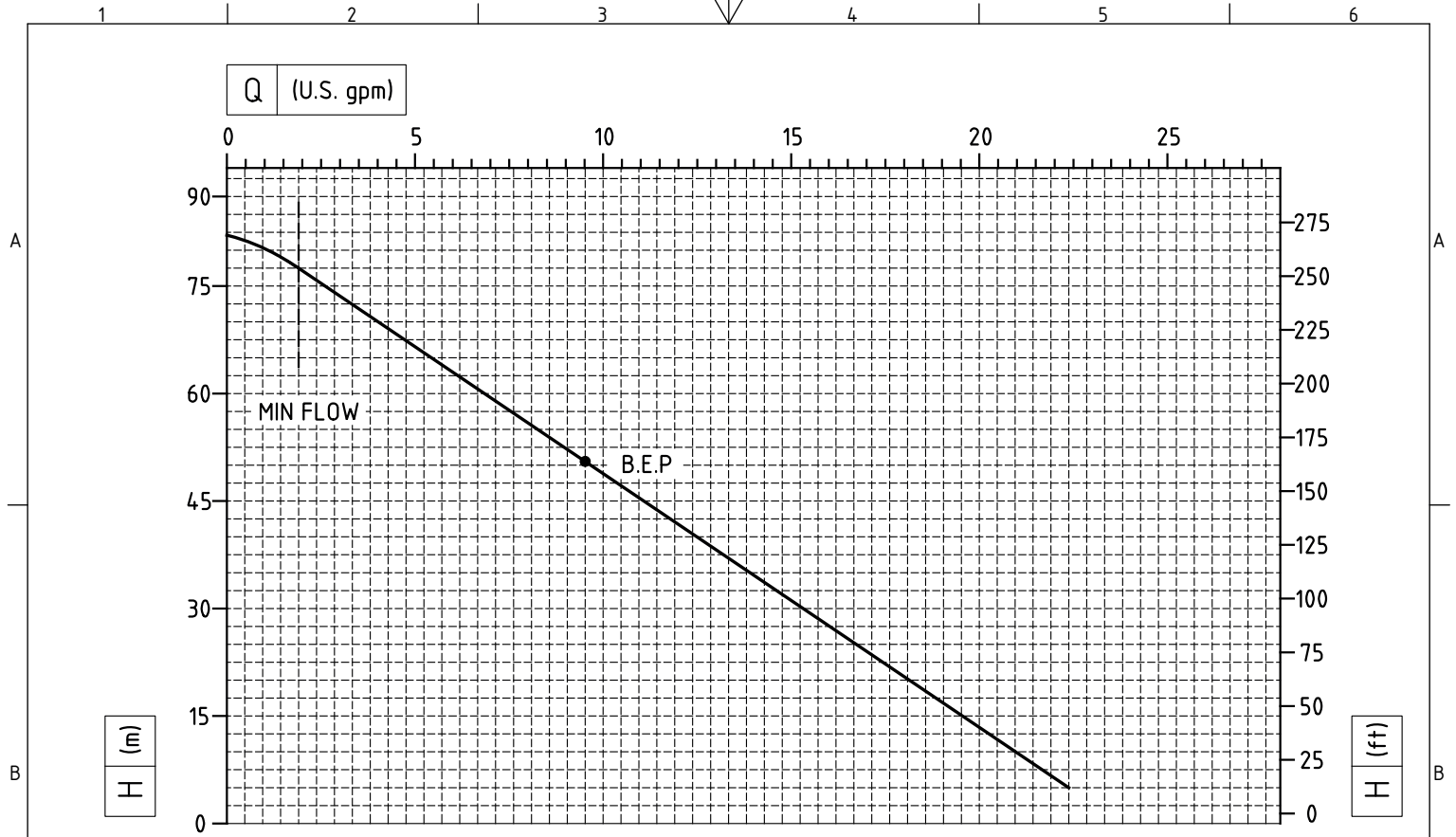


Motor power depends on specific gravity of pumped liquid.

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	Typ / Type:	MTA 55
	Motor Speed:	1450 1/min



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		Typ / Type:	MTA 55
		Motor Speed:	1750 1/min



Motor power depends on specific gravity
of pumped liquid.



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info@march-pumpen.com

Baureihe / Series:

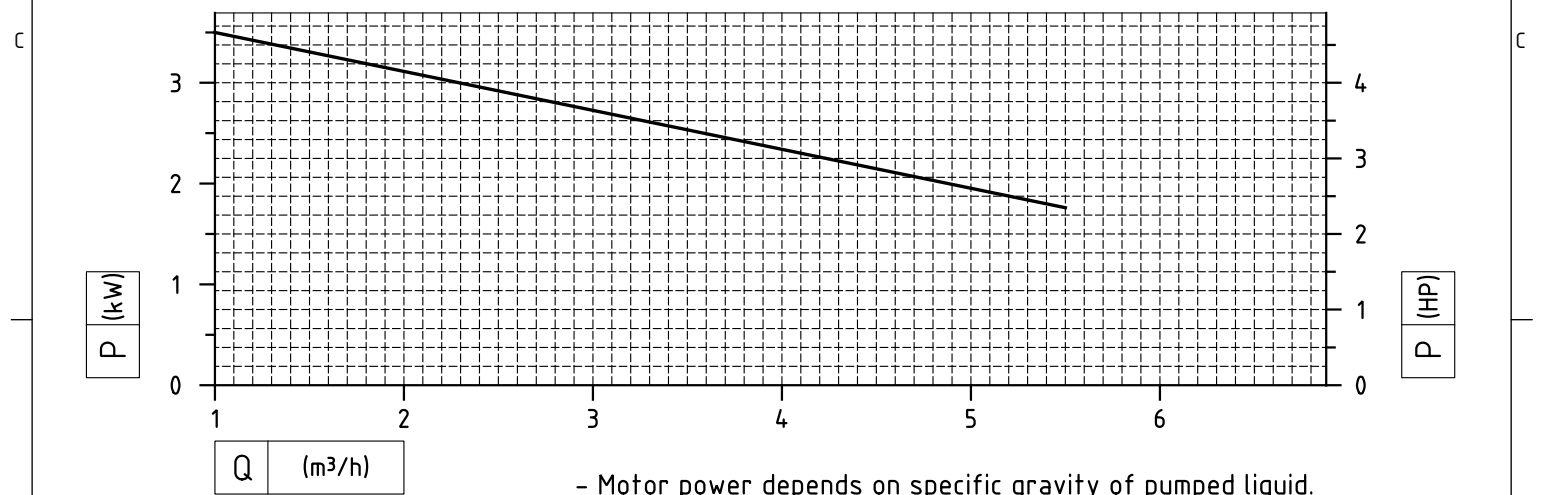
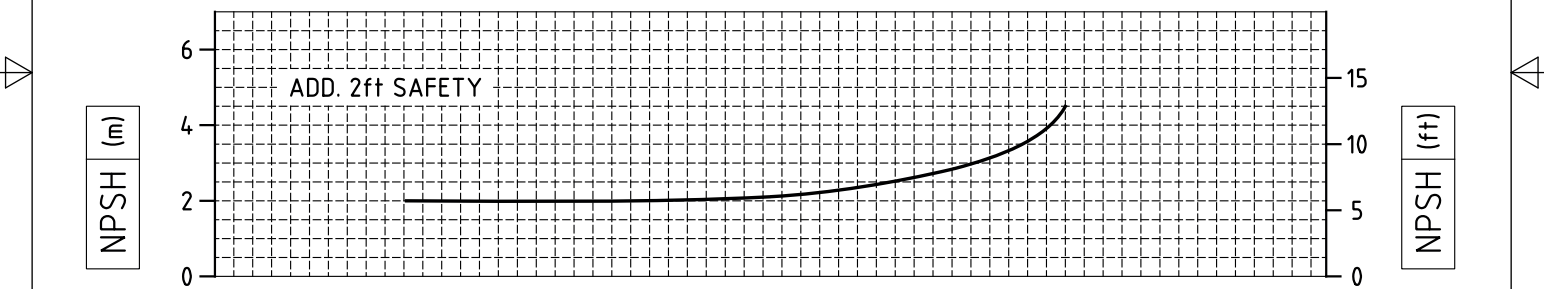
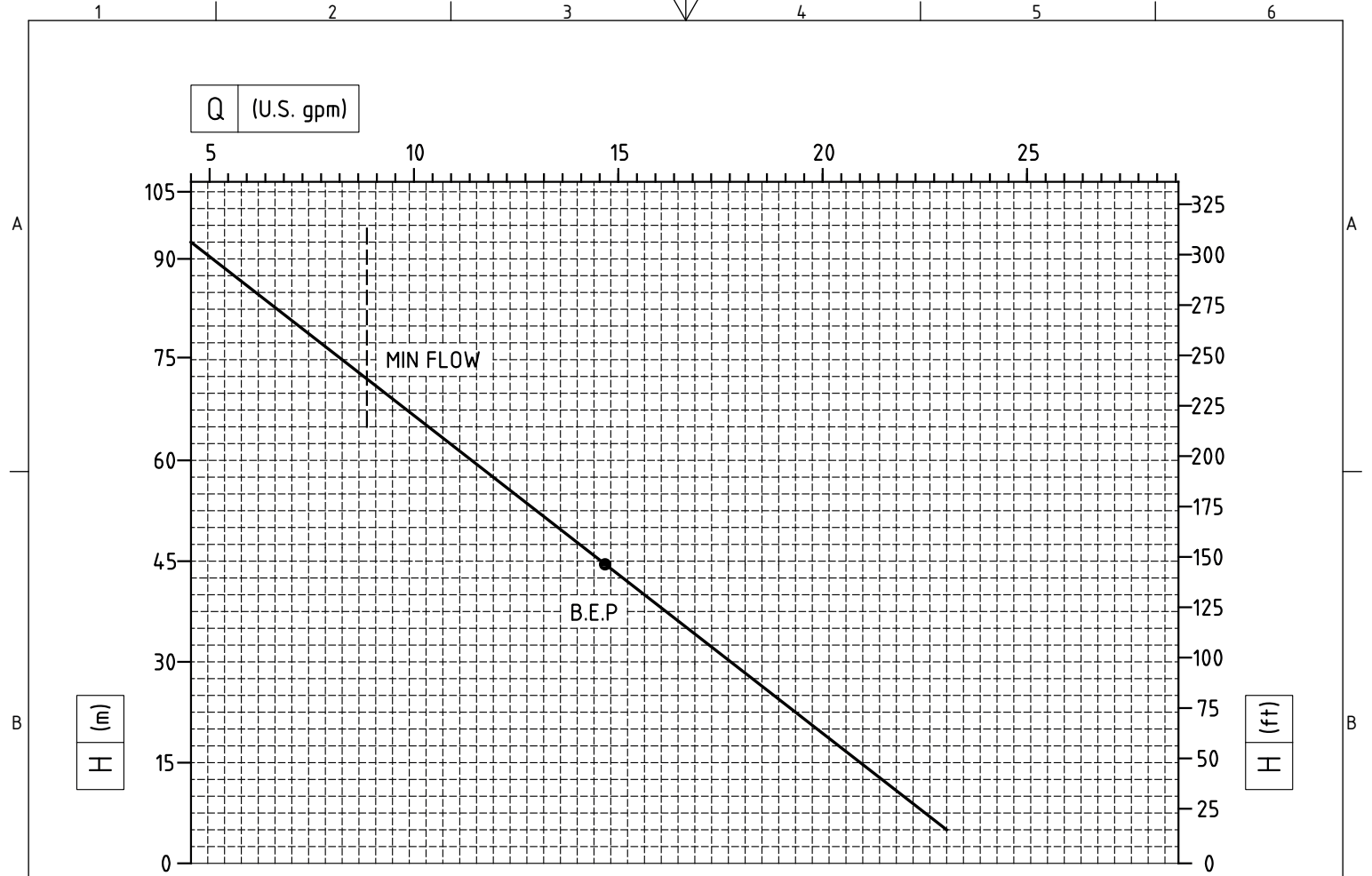
MTA

Typ / Type:

MTA 55

Motor Speed:

2900 1/min



- Motor power depends on specific gravity of pumped liquid.



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Baureihe / Series:

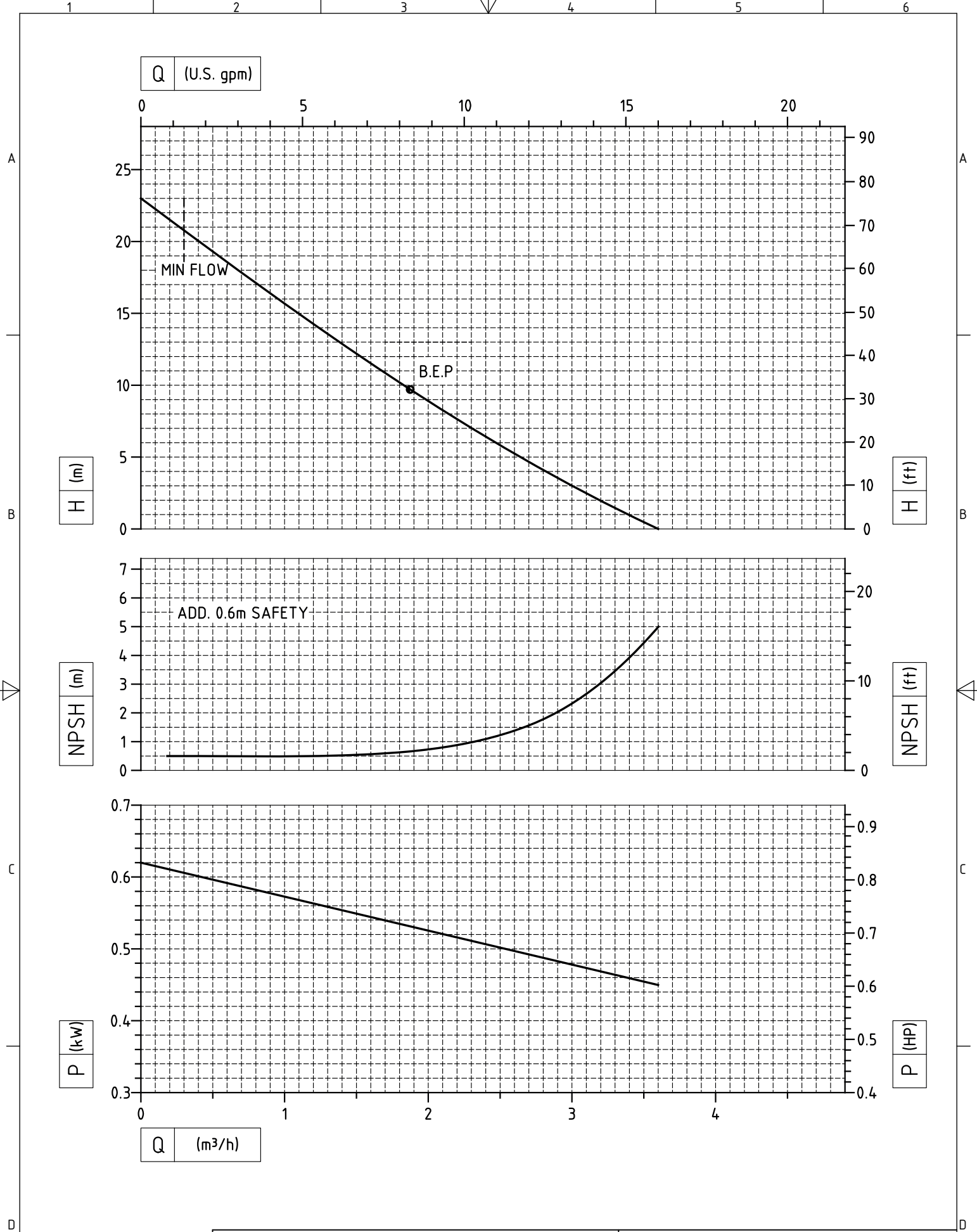
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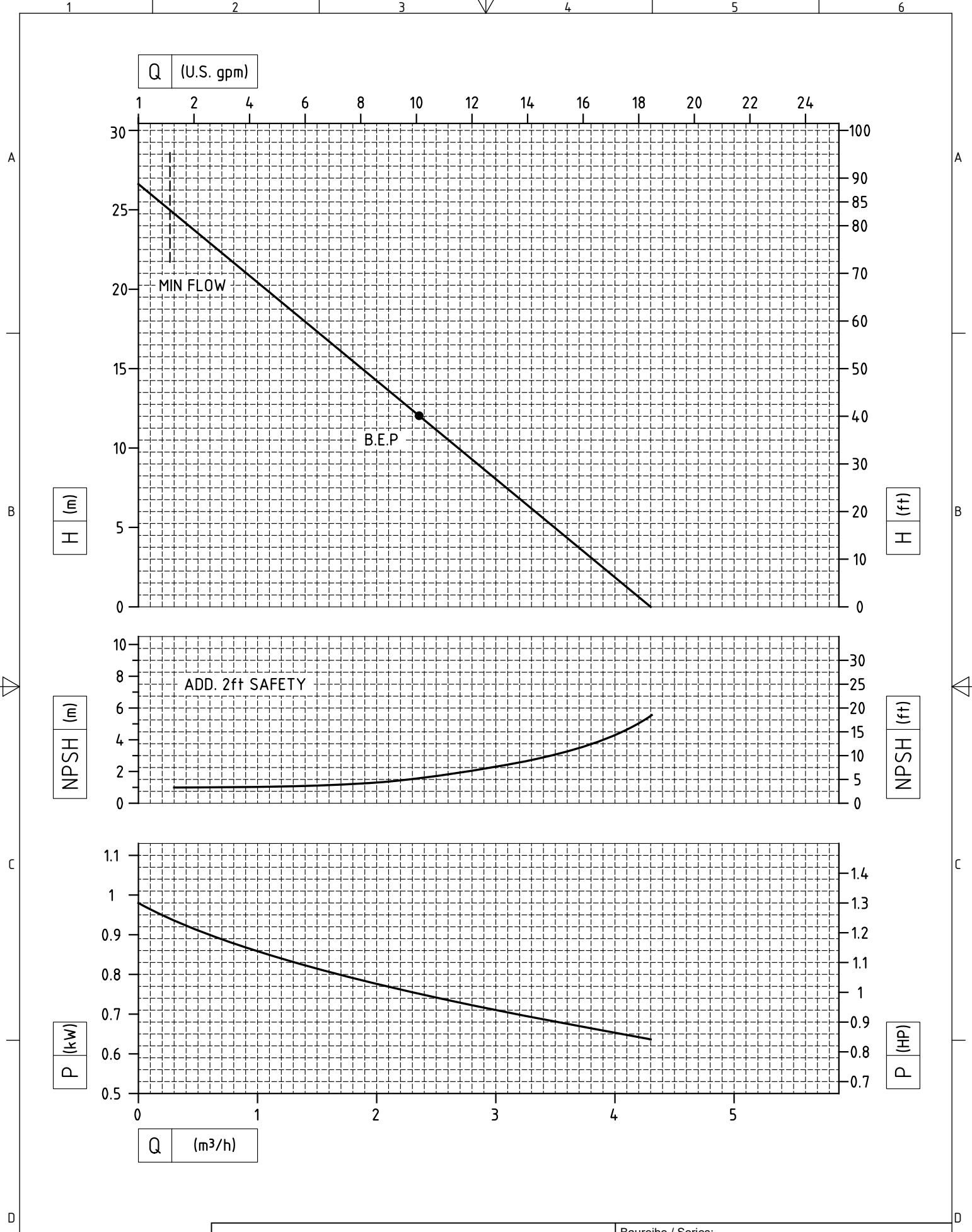
MTA 55

Motor Speed:

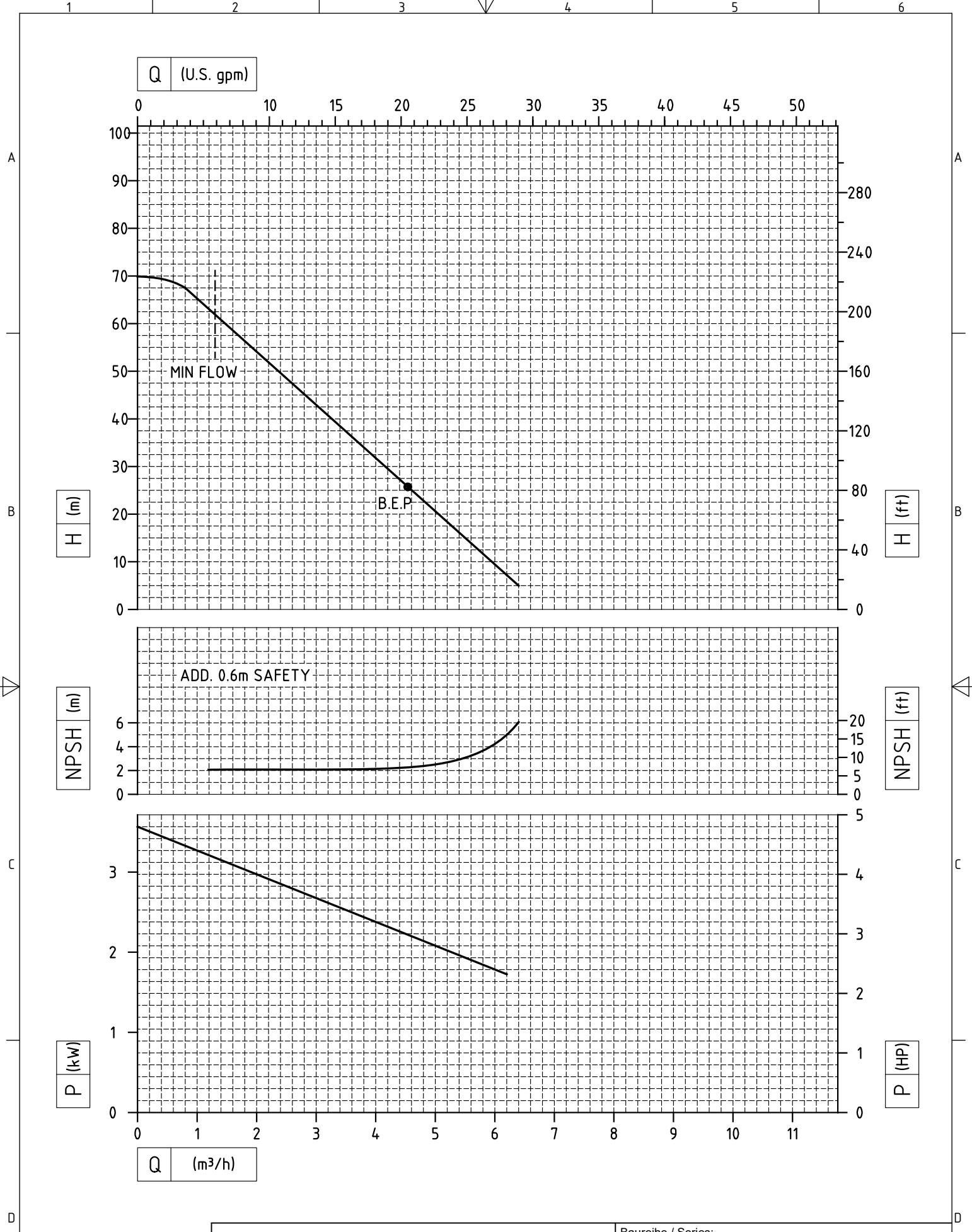
3500 1/min



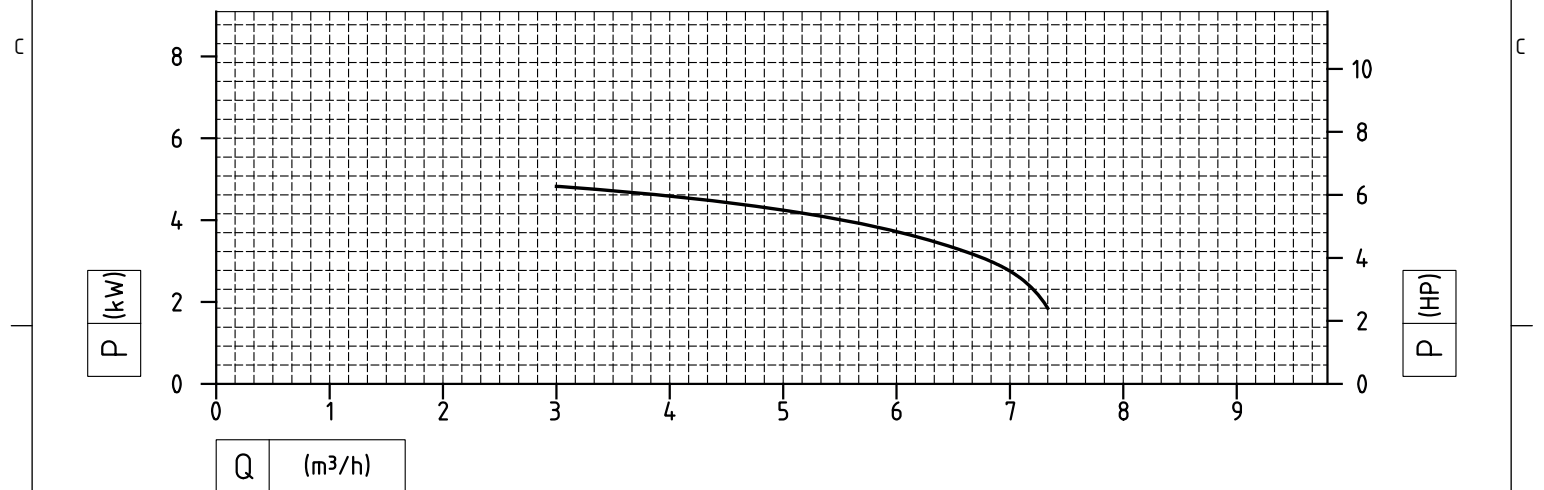
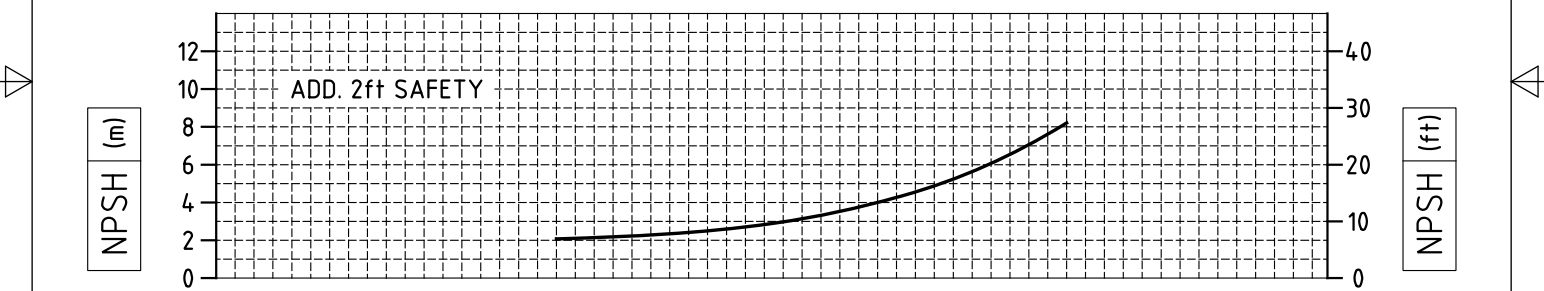
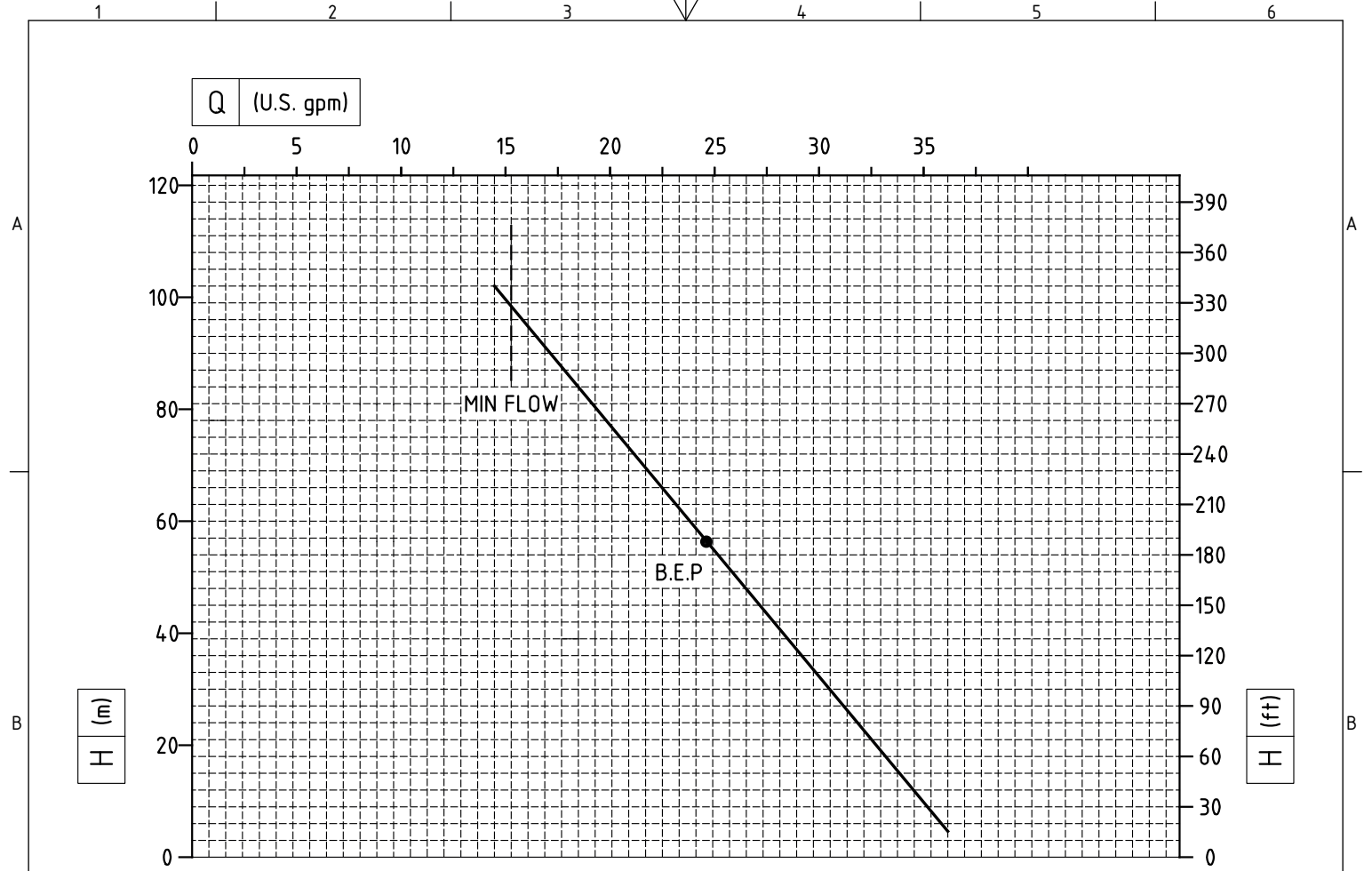
 ...ADVANCED SOLUTIONS...	MARCH PUMPEN GmbH & Co.KG Rathenaustraße 2 D-35394 Gießen www.march-pumpen.com info@march-pumpen.com	Baureihe / Series: MTA
		Typ / Type: MTA 78
		Motor Speed: 1450 1/min



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		Motor Speed: 1750 1/min



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



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Baureihe / Series:

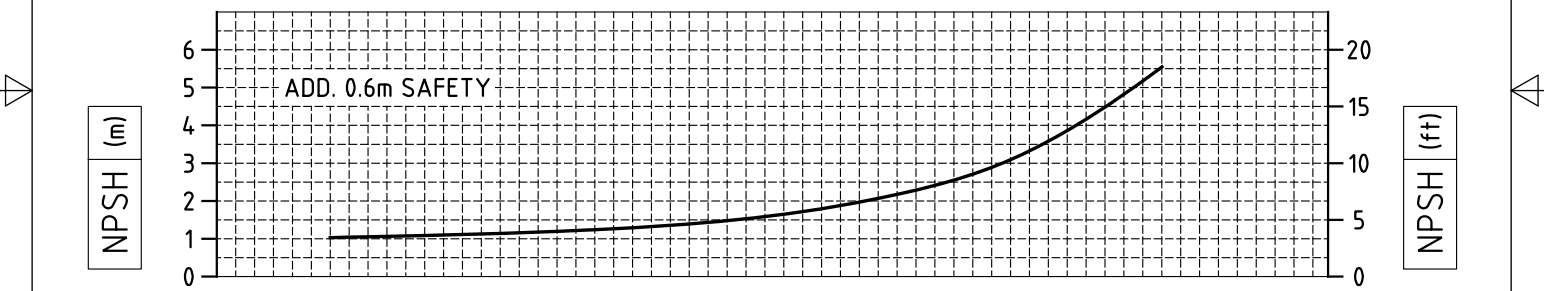
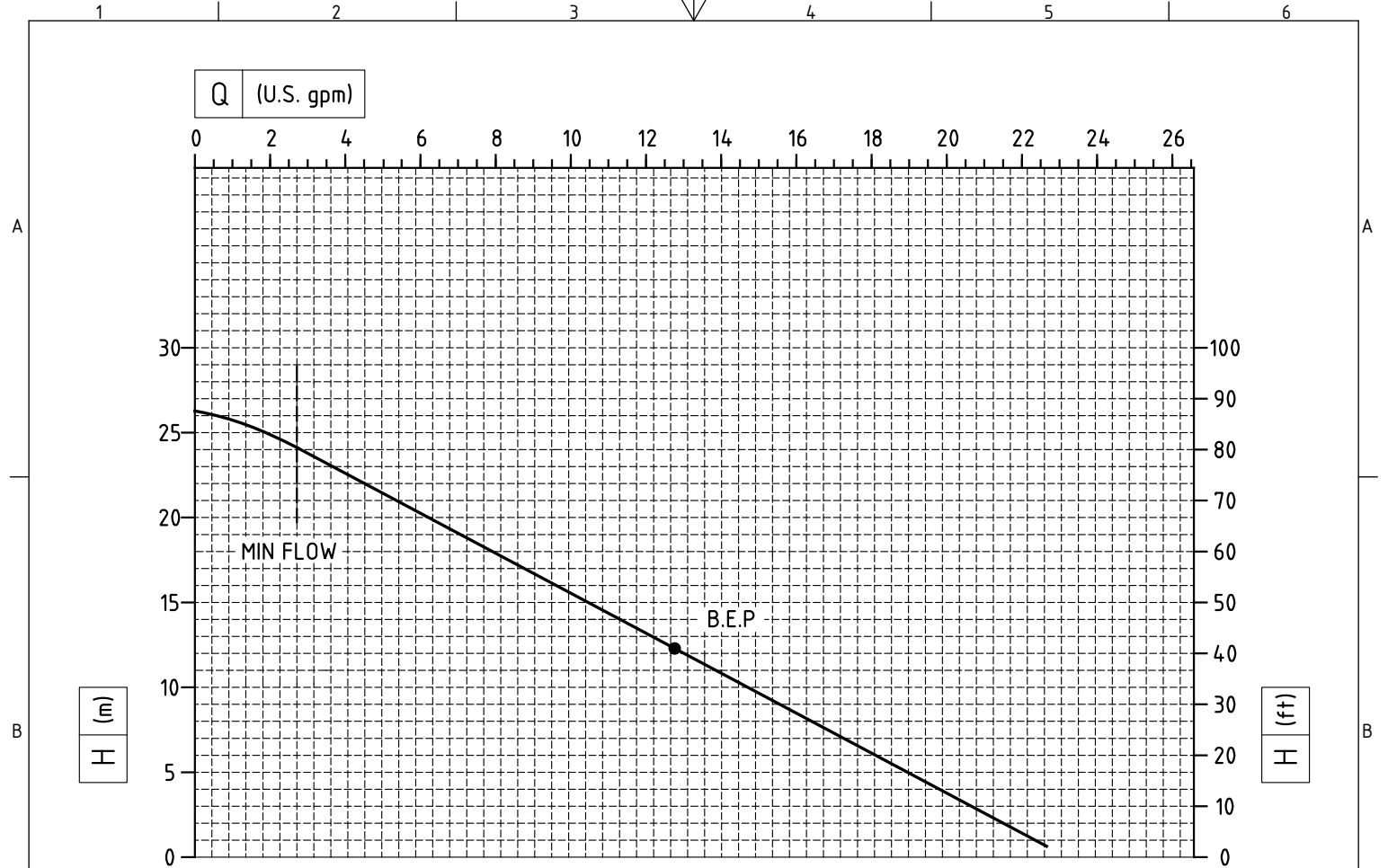
MTA

Typ / Type:

MTA 78

Motor Speed:

3500 1/min



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Baureihe / Series:

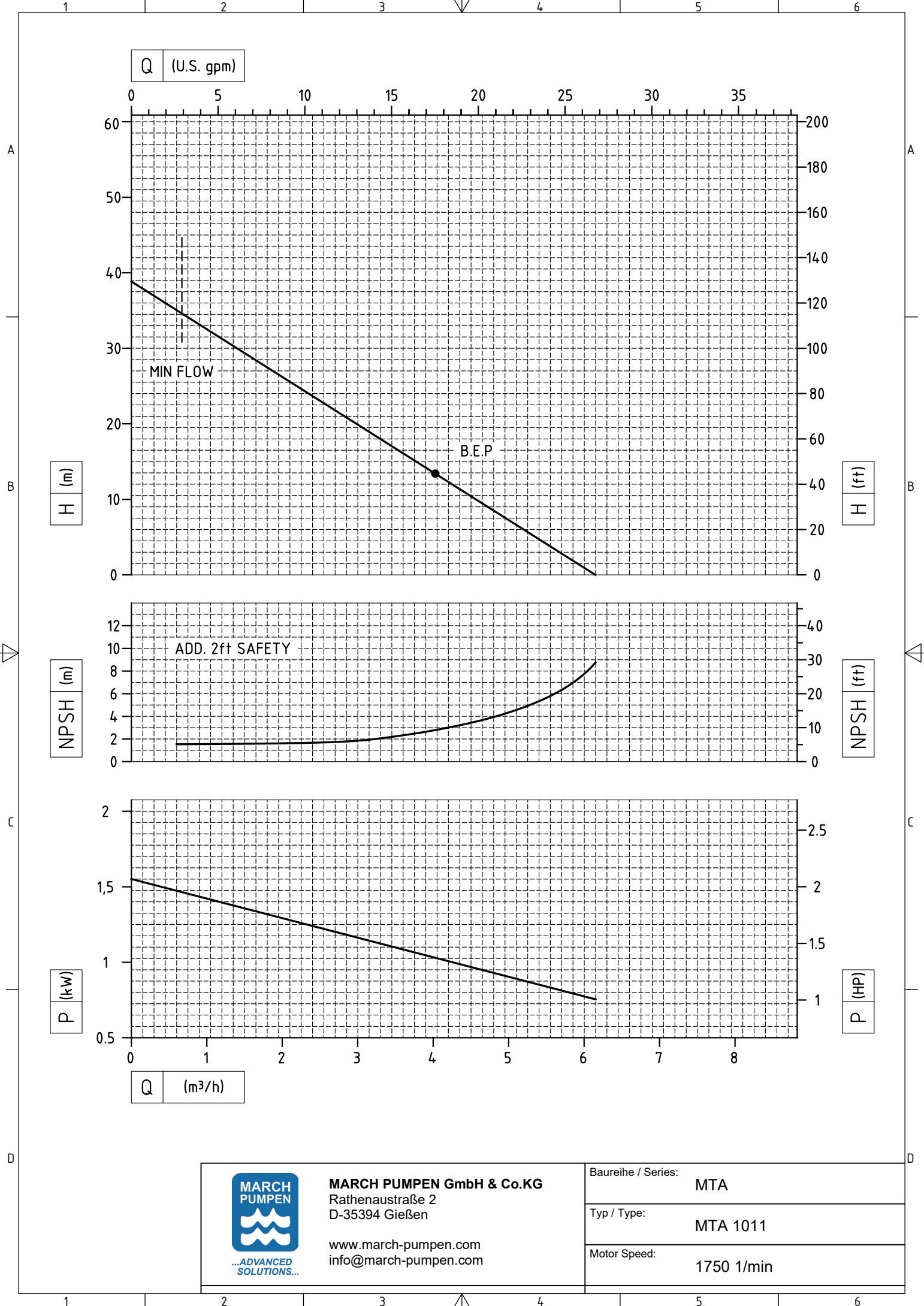
MTA

Typ / Type:

MTA 1011

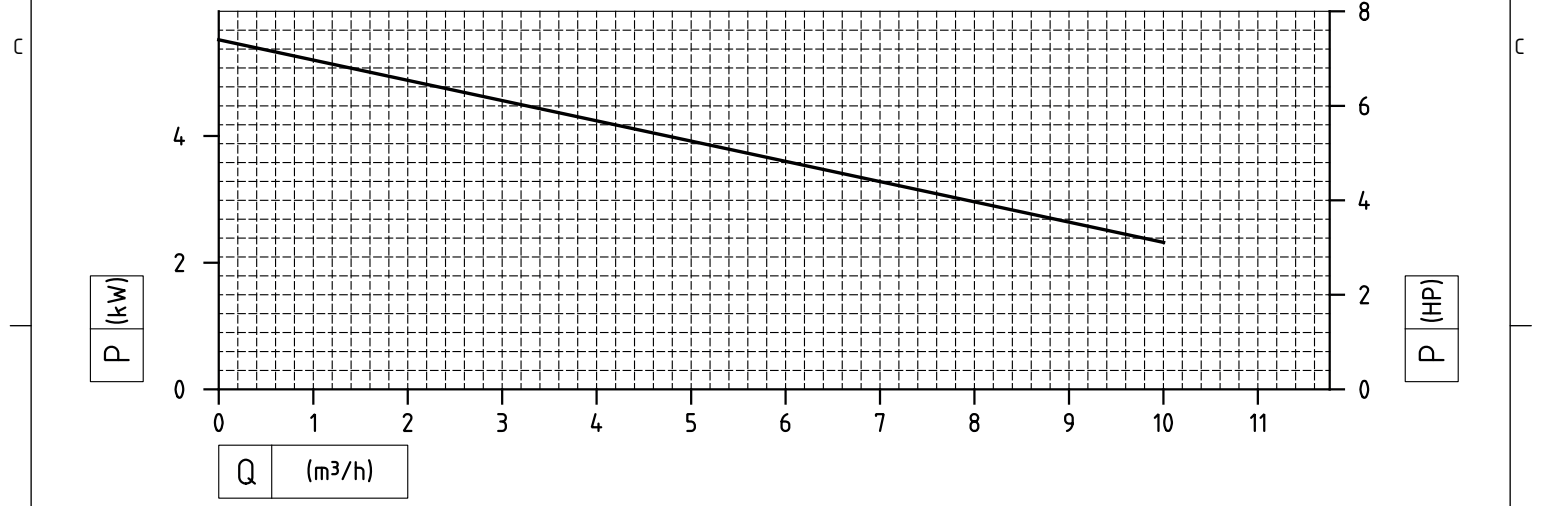
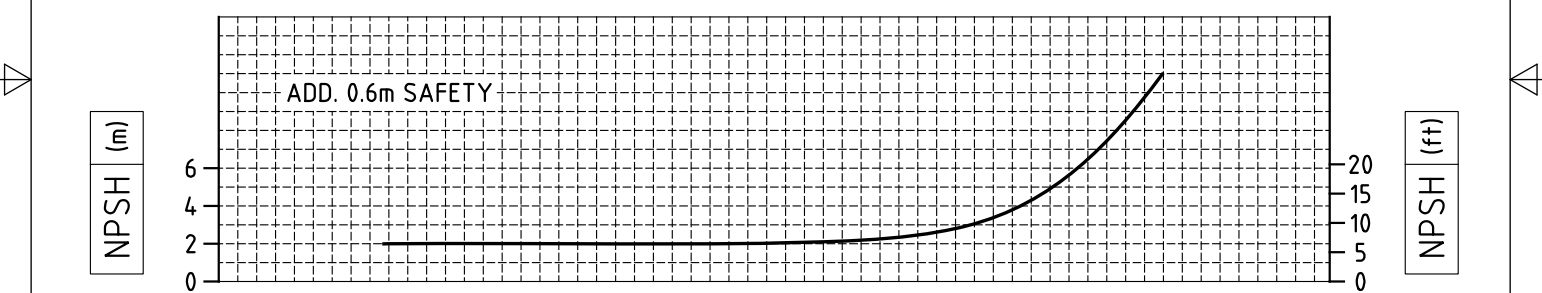
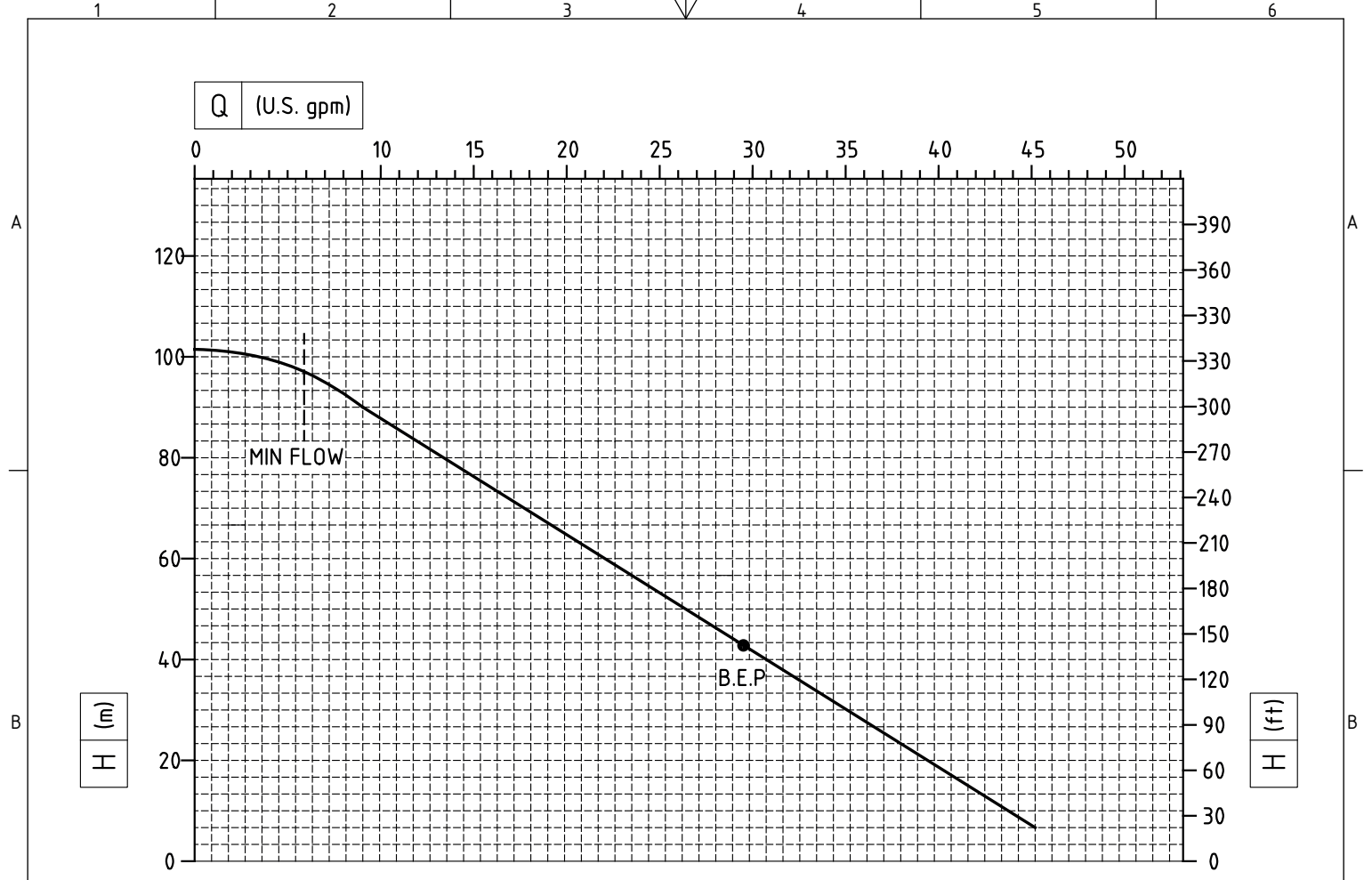
Motor Speed:

1450 1/min

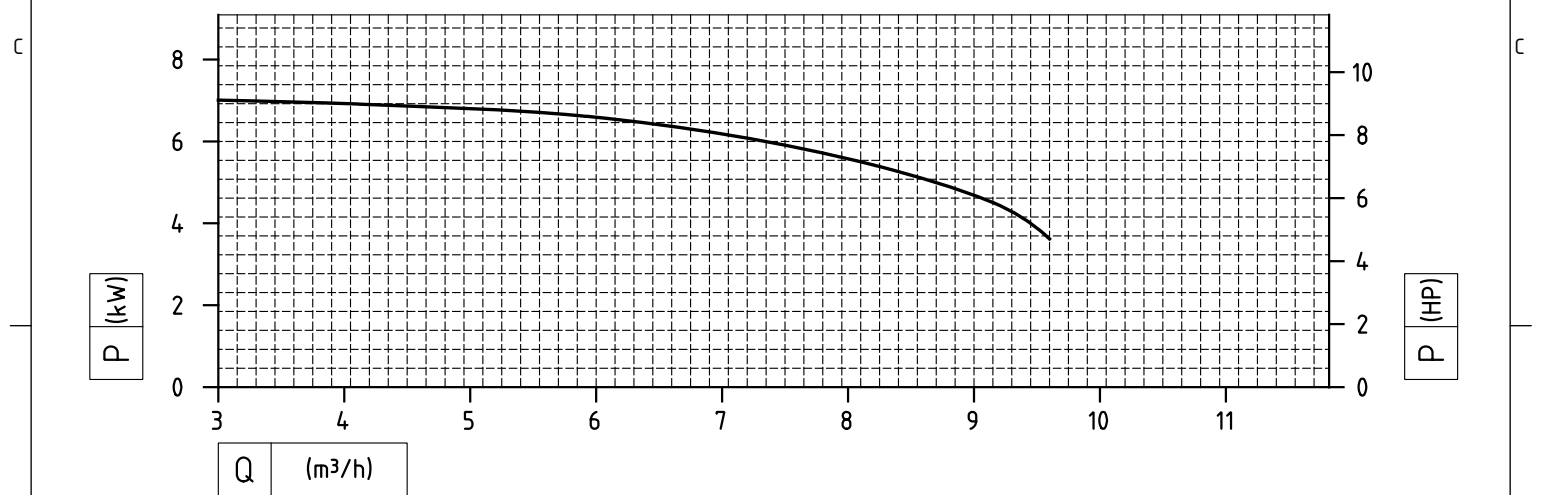
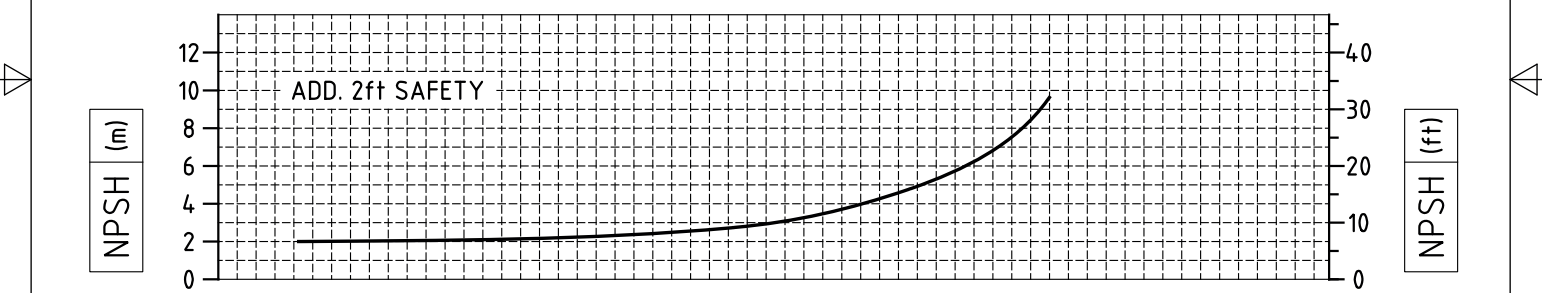
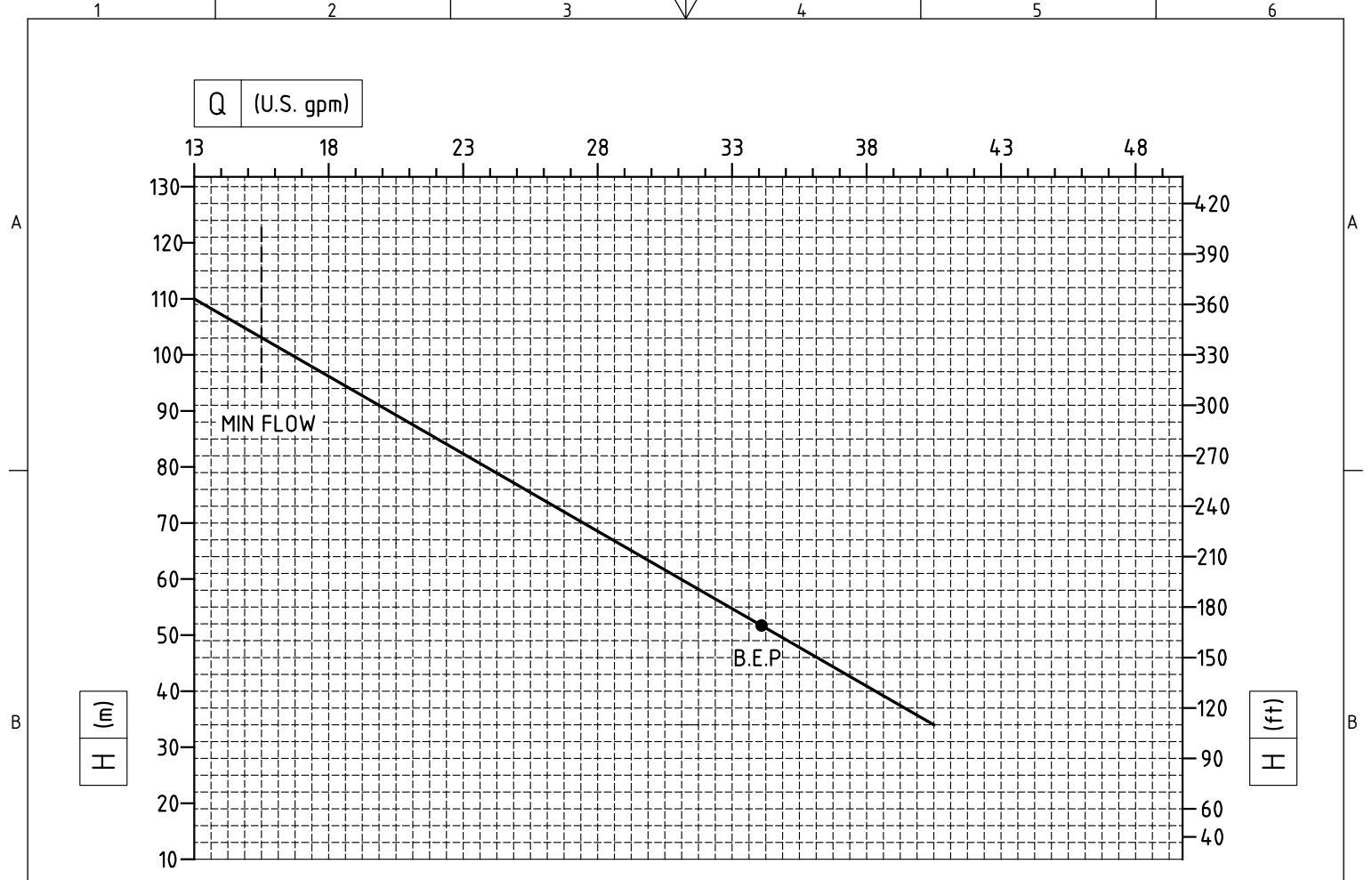


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info@march-pumpen.com

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



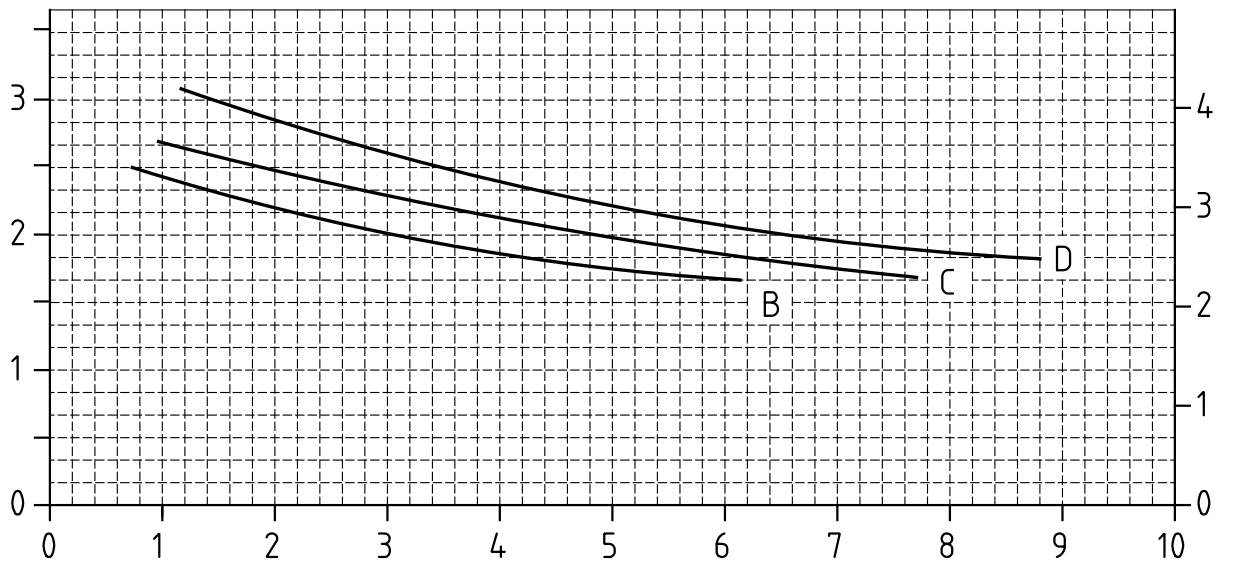
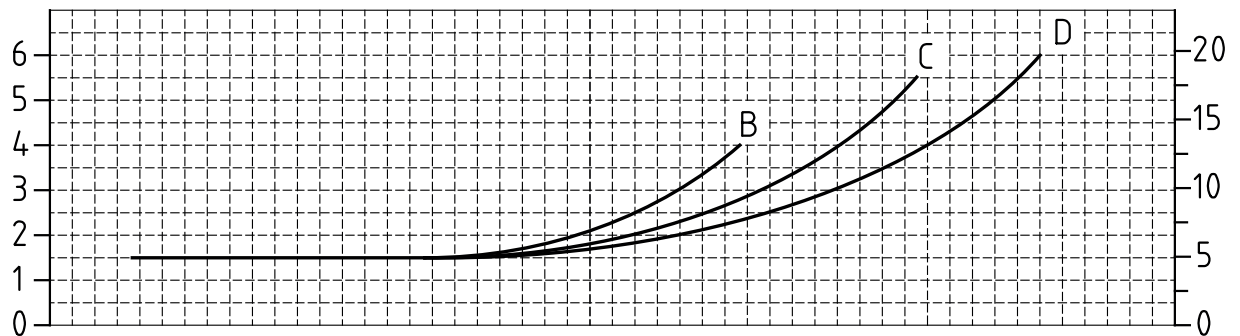
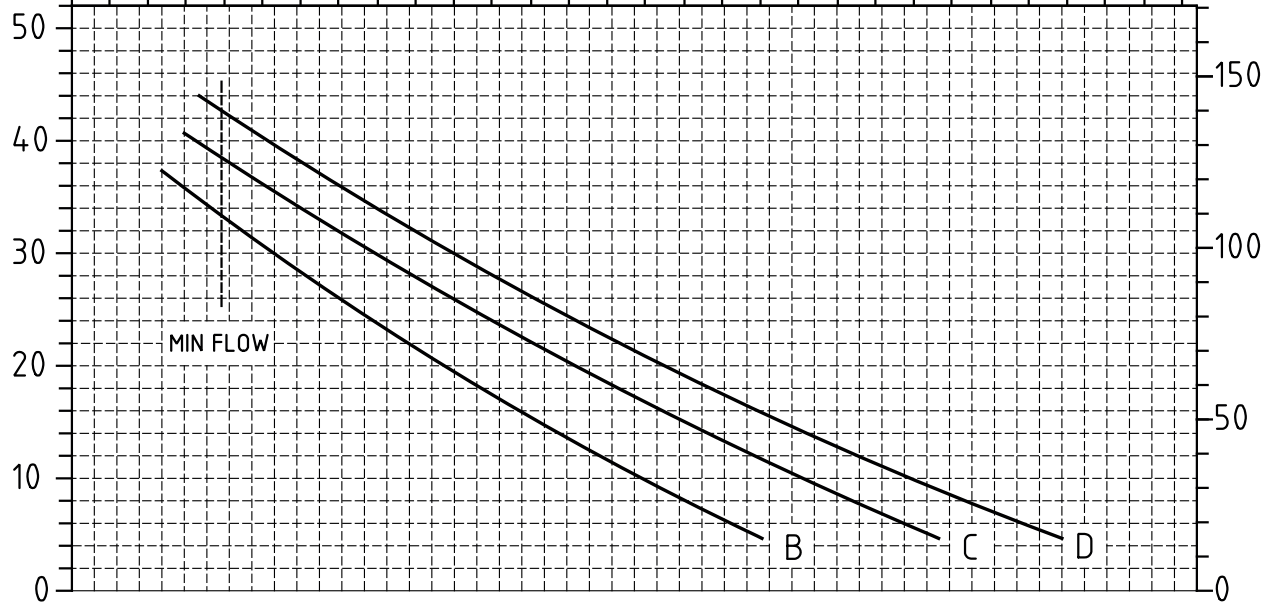
 ...ADVANCED SOLUTIONS...	MARCH PUMPEN GmbH & Co.KG Rathenaustraße 2 D-35394 Gießen www.march-pumpen.com info@march-pumpen.com	Baureihe / Series:	MTA
		Typ / Type:	MTA 1011
		Motor Speed:	2900 1/min



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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



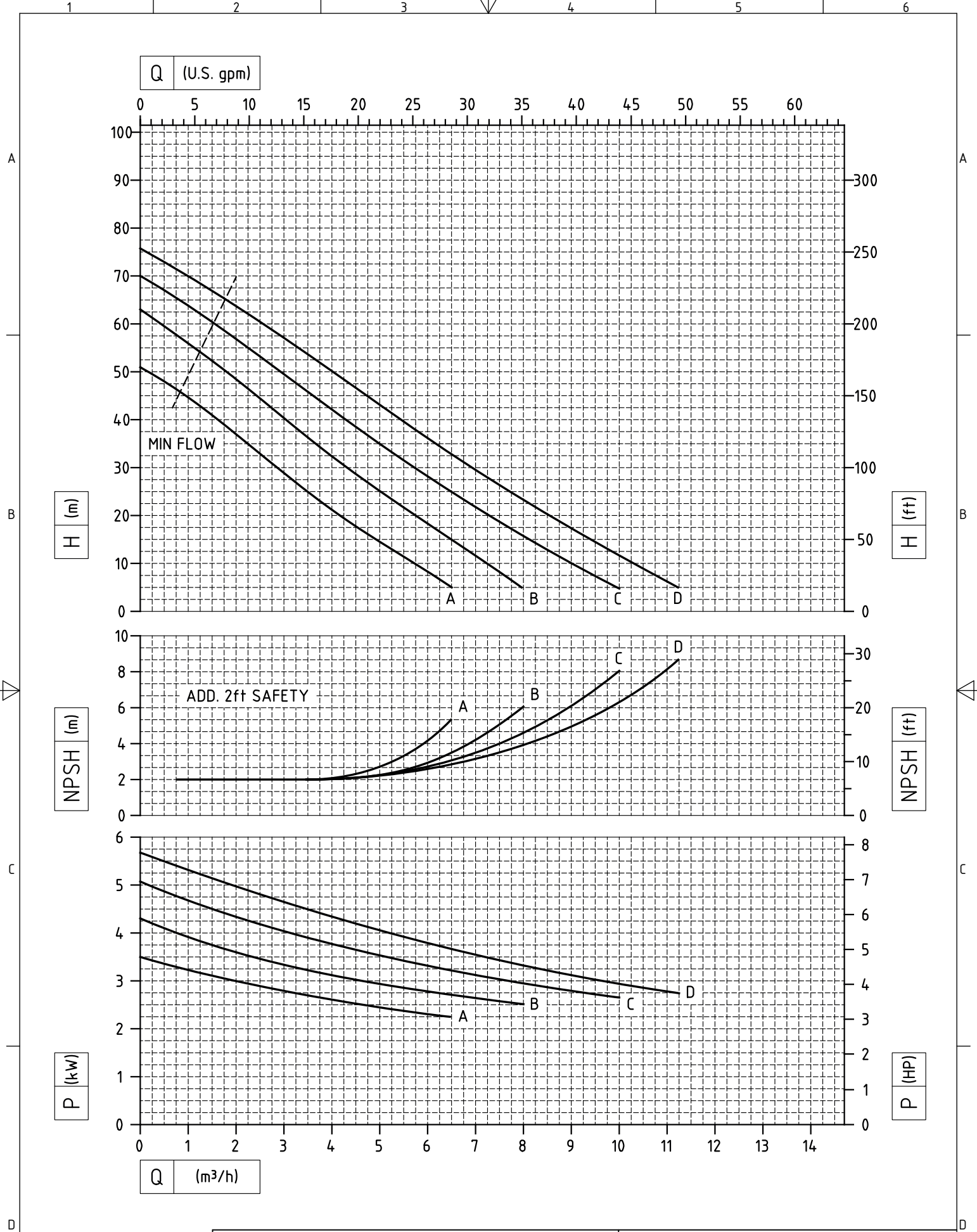
Q (m³/h)

0 1 2 3 4 5 6 7 8 9 10



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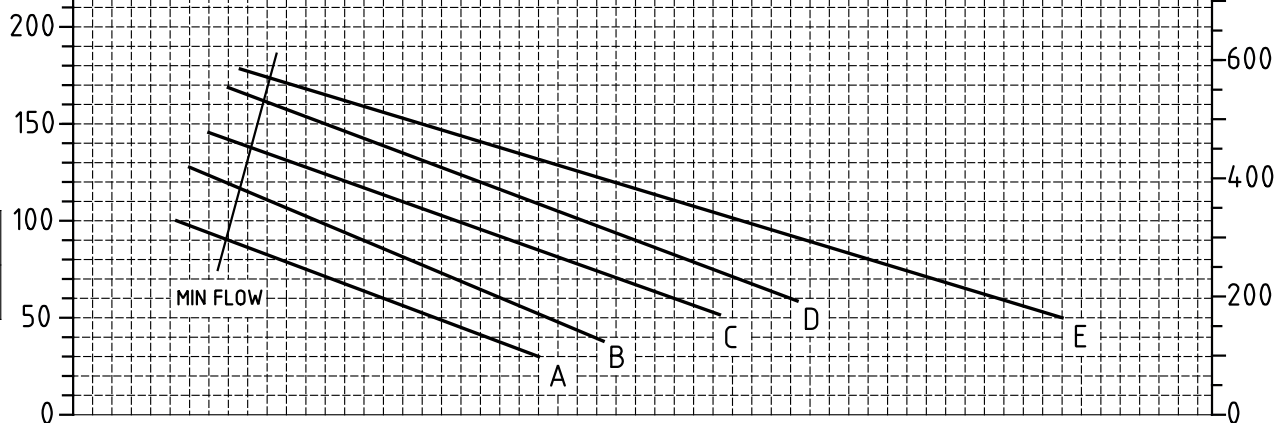
Baureihe / Series:	MTA
Typ / Type:	MTA 2020
Motor Speed:	1450 1/min



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	Typ / Type:	MTA 2020
	Motor Speed:	1750 1/min

Q (U.S. gpm)

0 10 20 30 40 50 60 70 80

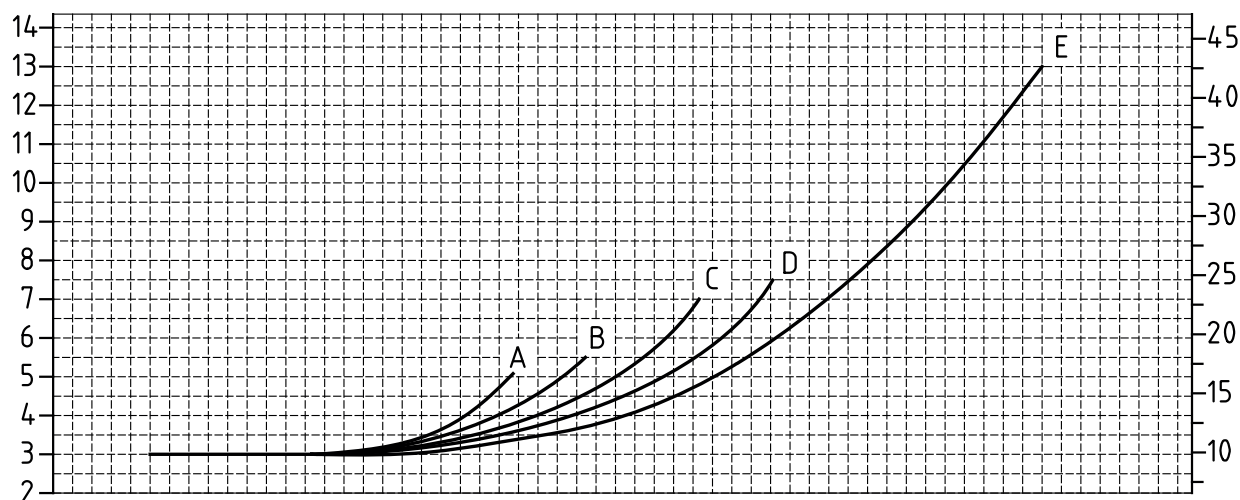


H
(m)

H
(ft)

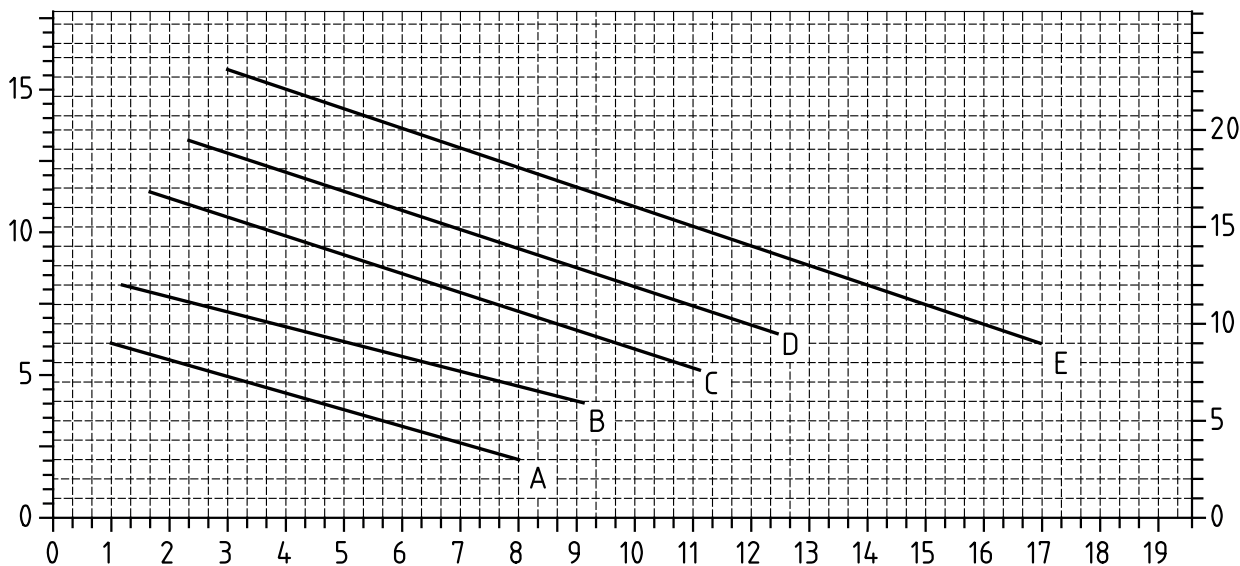
N
P
S
H
(m)

N
P
S
H
(ft)



P
(kW)

P
(HP)



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:

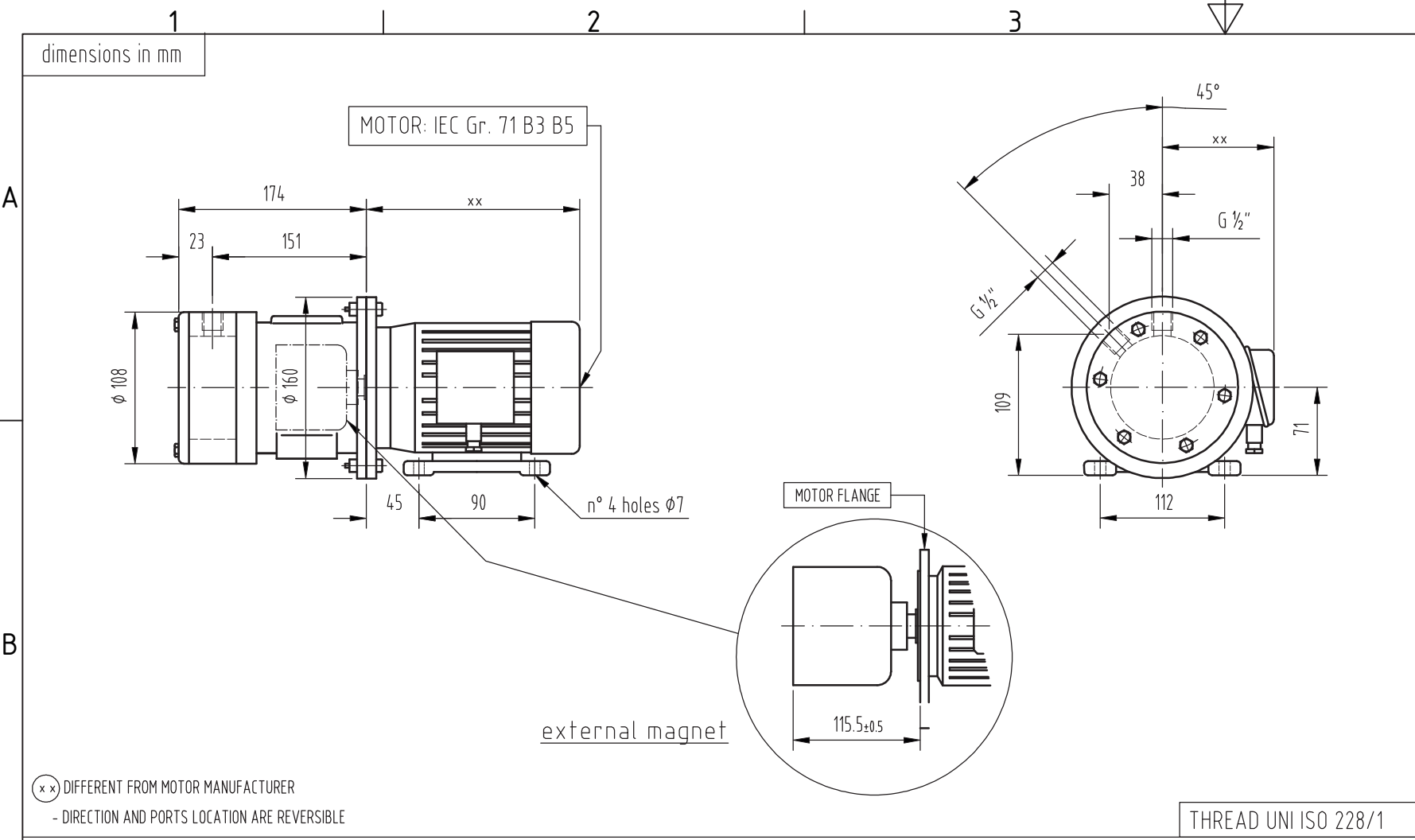
MTA

Typ / Type:

MTA 2020

Motor Speed:

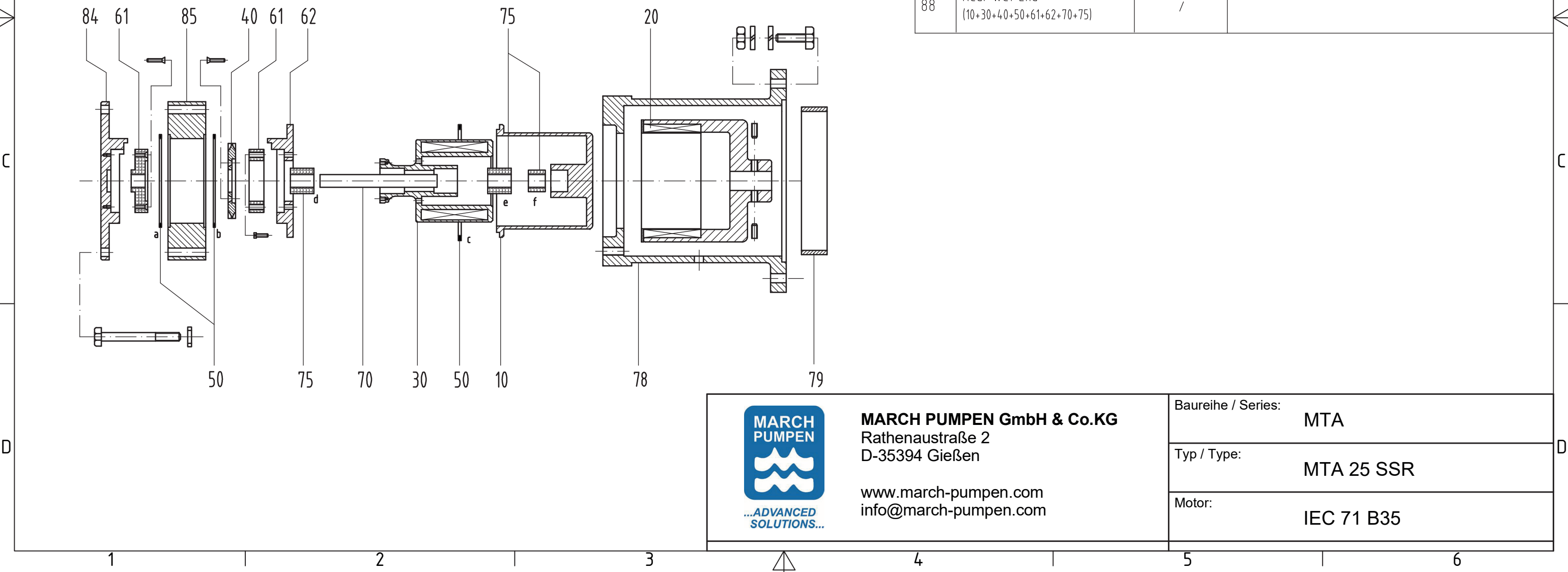
2900 1/min



4 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	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)	/	

A B C

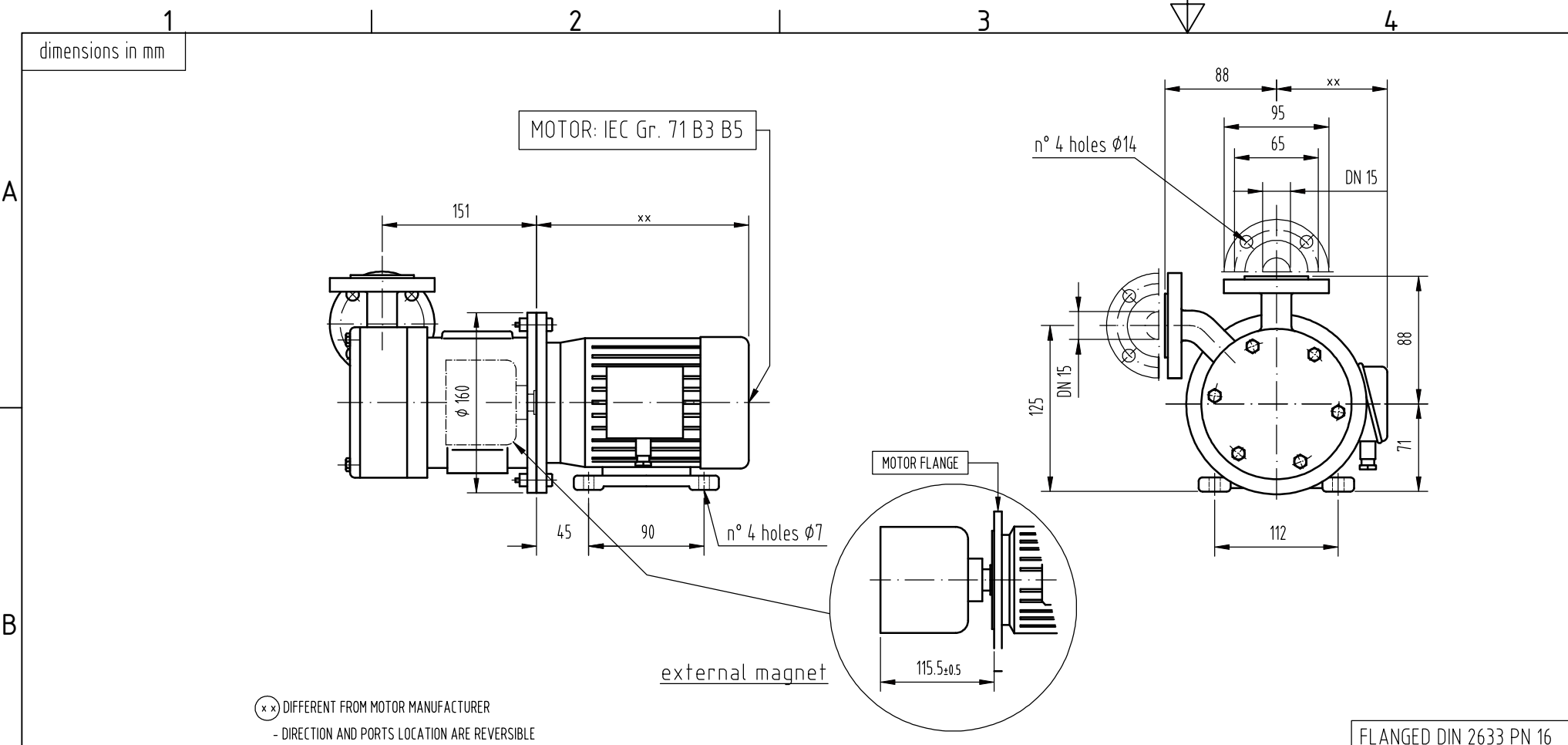


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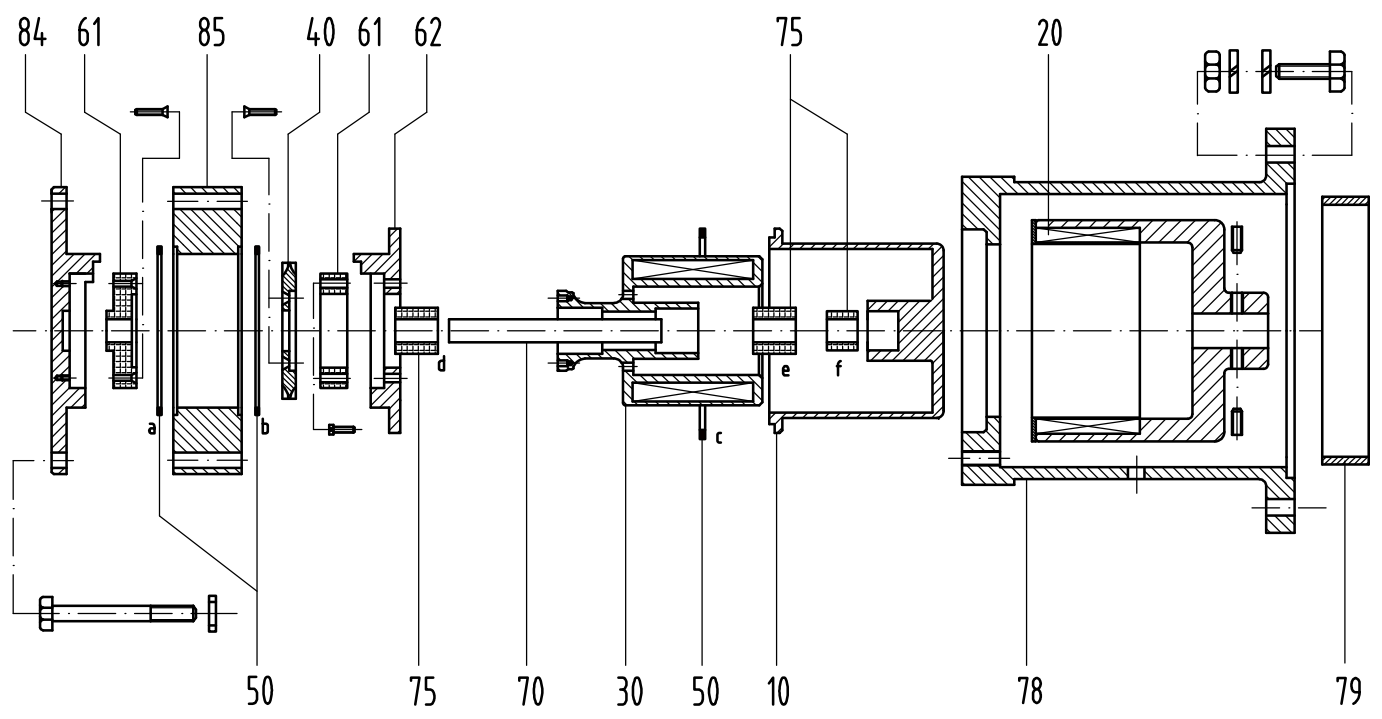
Baureihe / Series: MTA

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)	/		



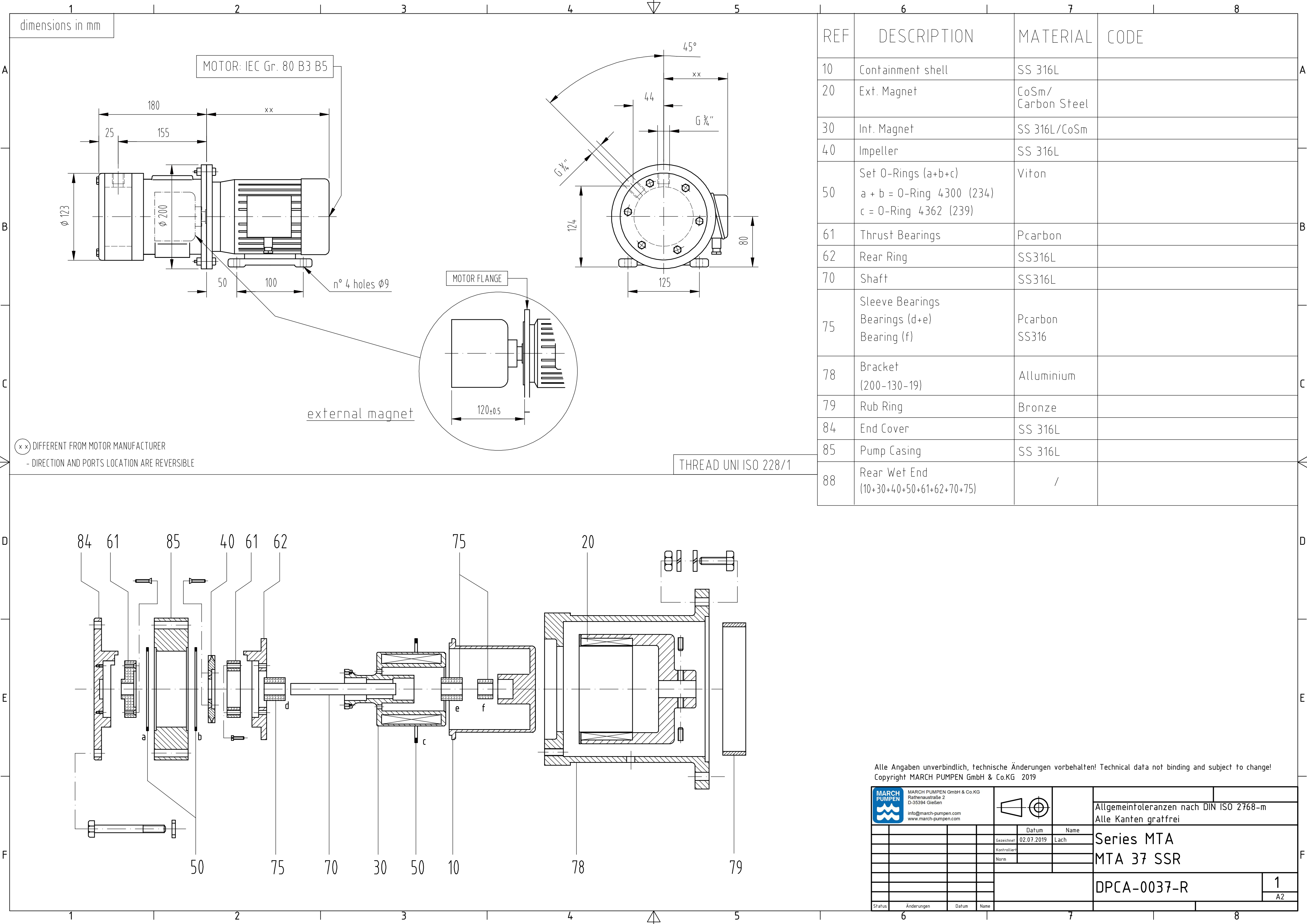


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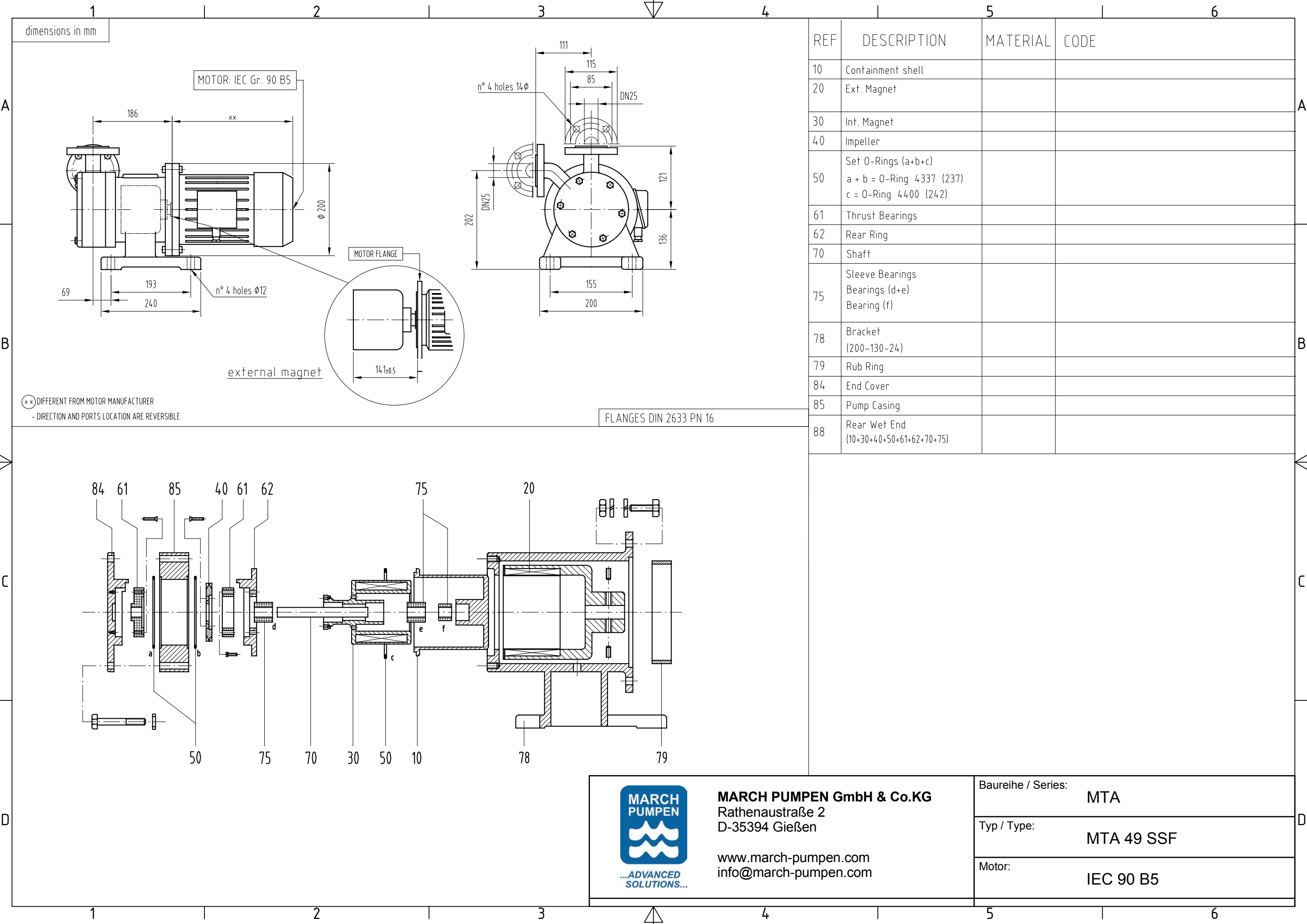
Baureihe / Series:	MTA
Typ / Type:	MTA 25 SSF
Motor:	IEC 71 B35



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	02.07.2019					Lach
				Kontrolliert						
				Norm						
							DPCA-0037-R			
									1	
									A2	
Status	Änderungen	Datum	Name							



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

A

B

C

D

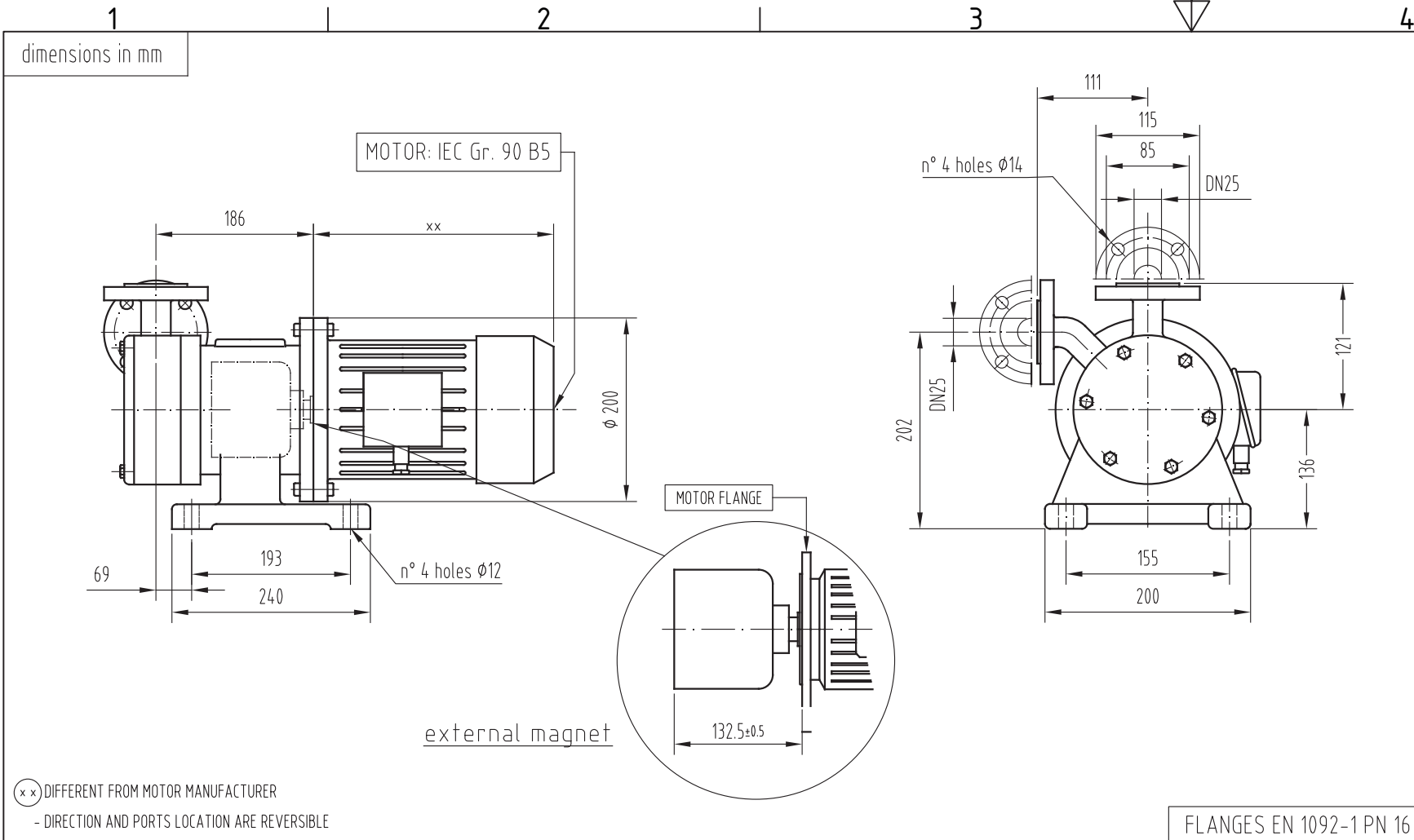
A

B

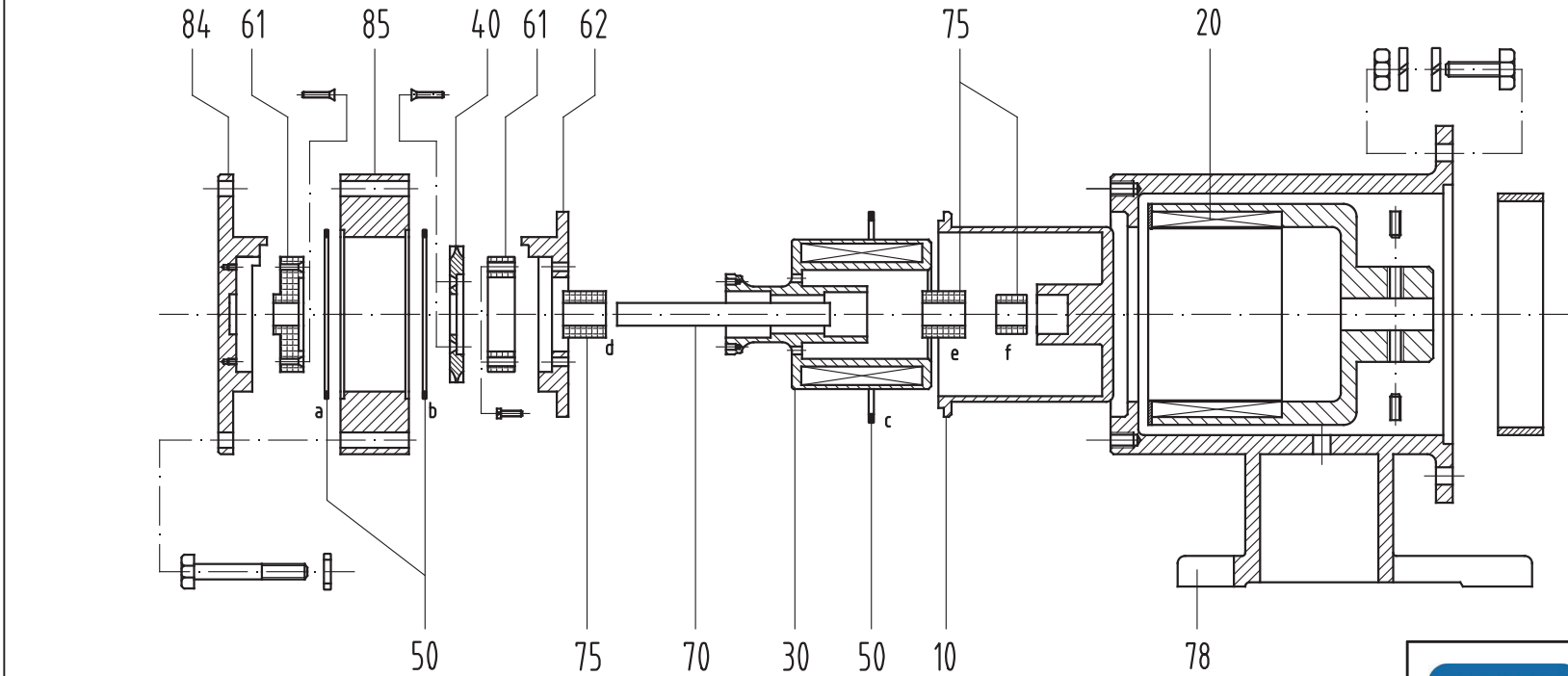
C

D

1 dimensions in mm



REF	DESCRIPTION	MATERIAL	CODE
10	Containment shell	SS 316	
20	Ext. Magnet	CoSm/ Carbon Steel	
30	Int. Magnet	SS 316L/CoSm	
40	Impeller	SS 316	
50	Set O-Rings (a+b+c) a + b = O-Ring 4350 (237) c = O-Ring 4400 (242)	Viton	
61	Thrust Bearings	Pcarbon	
62	Rear Ring	SS316	
70	Shaft	SIC	
75	Sleeve Bearings Bearings (d+e) Bearing (f)	SIC SS316	
78	Bracket (200-130-24)	Cast Iron	
79	Rub Ring	Bronze	
84	End Cover	SS 316	
85	Pump Casing	SS 316	
88	Rear Wet End (10+30+40+50+61+62+70+75)	/	



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Baureihe / Series:	MTA
Typ / Type:	MTA 55 SSF
Motor:	IEC 90 B5

A

B

C

D

1
dimensions in mm

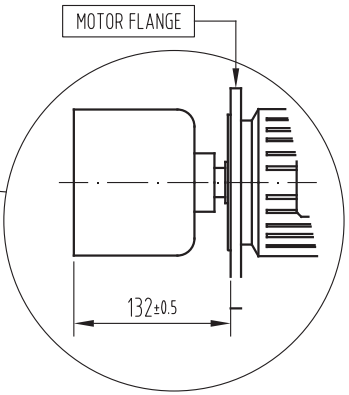
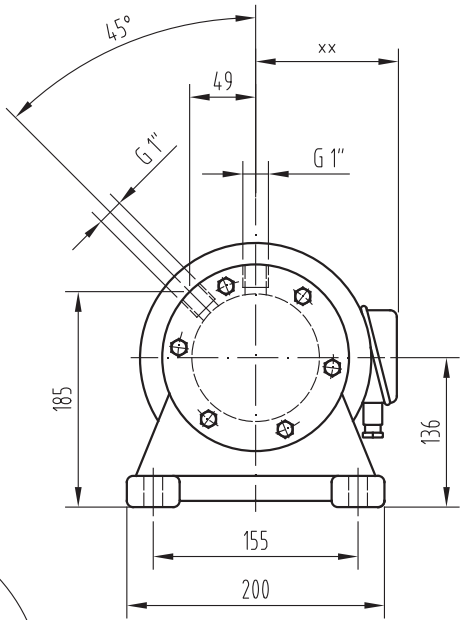
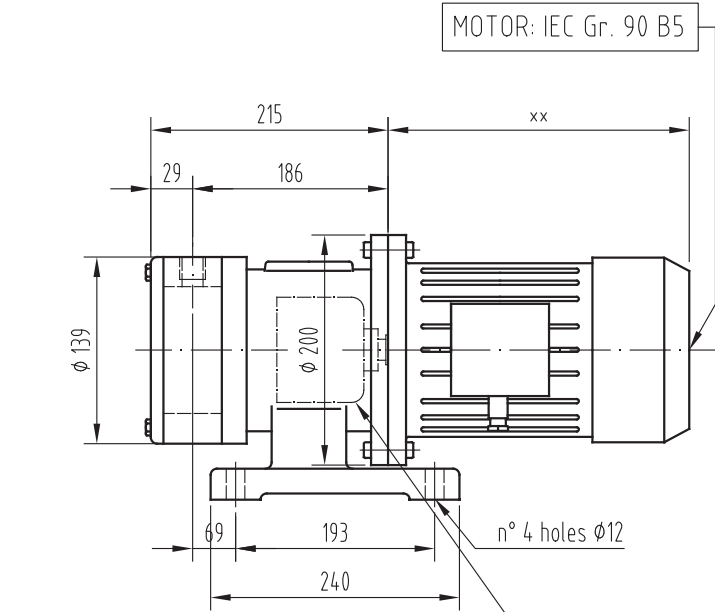
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3

4

5

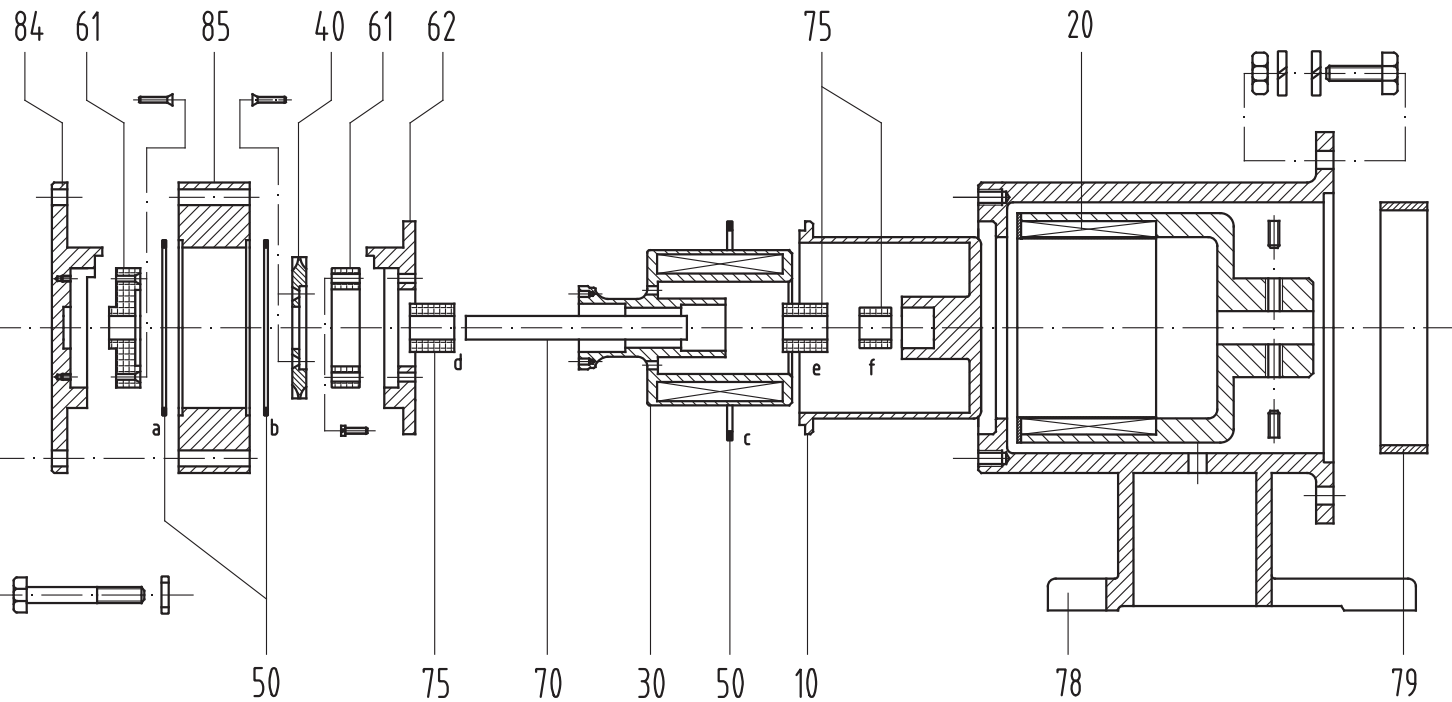
6



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

THREAD UNI ISO 228/1

REF	DESCRIPTION	MATERIAL	CODE
10	Containment shell	SS 316	
20	Ext. Magnet	CoSm/ Carbon Steel	
30	Int. Magnet	SS 316L/CoSm	
40	Impeller	SS 316	
50	Set O-Rings (a+b+c) a + b = O-Ring 4350 (237) c = O-Ring 4400 (242)	Viton	
61	Thrust Bearings	Pcarbon	
62	Rear Ring	SS316	
70	Shaft	SIC	
75	Sleeve Bearings Bearings (d+e) Bearing (f)	SIC SS316	
78	Bracket (200-130-24)	Cast Iron	
79	Rub Ring	Bronze	
84	End Cover	SS 316	
85	Pump Casing	SS 316	
88	Rear Wet End (10+30+40+50+61+62+70+75)	/	



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Baureihe / Series:

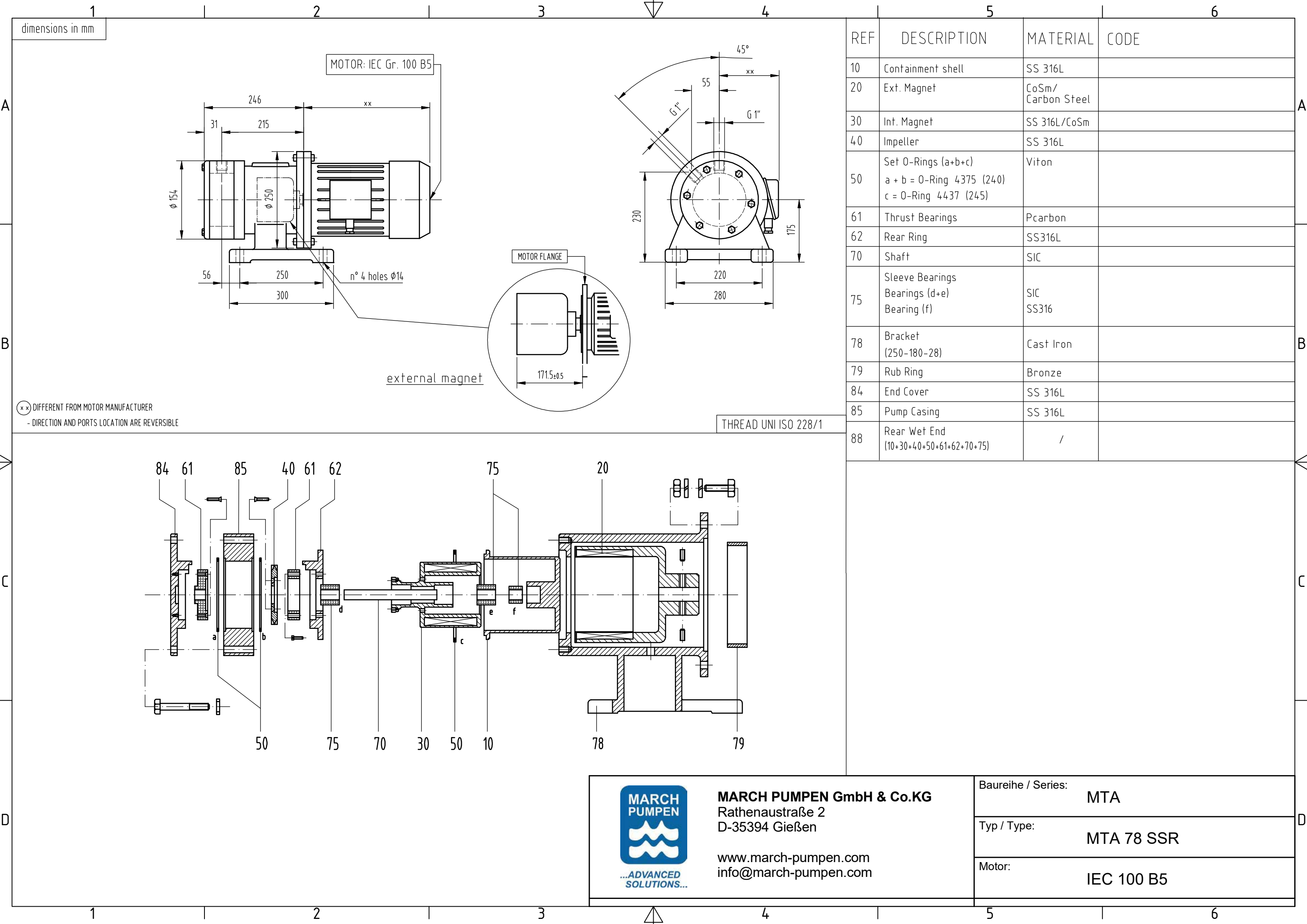
MTA

Typ / Type:

MTA 55 SSR

Motor:

IEC 90 B5



dimensions in mm

MOTOR: IEC Gr. 100 B5

MOTOR FLANGE

external magnet

THREAD UNI ISO 228/1

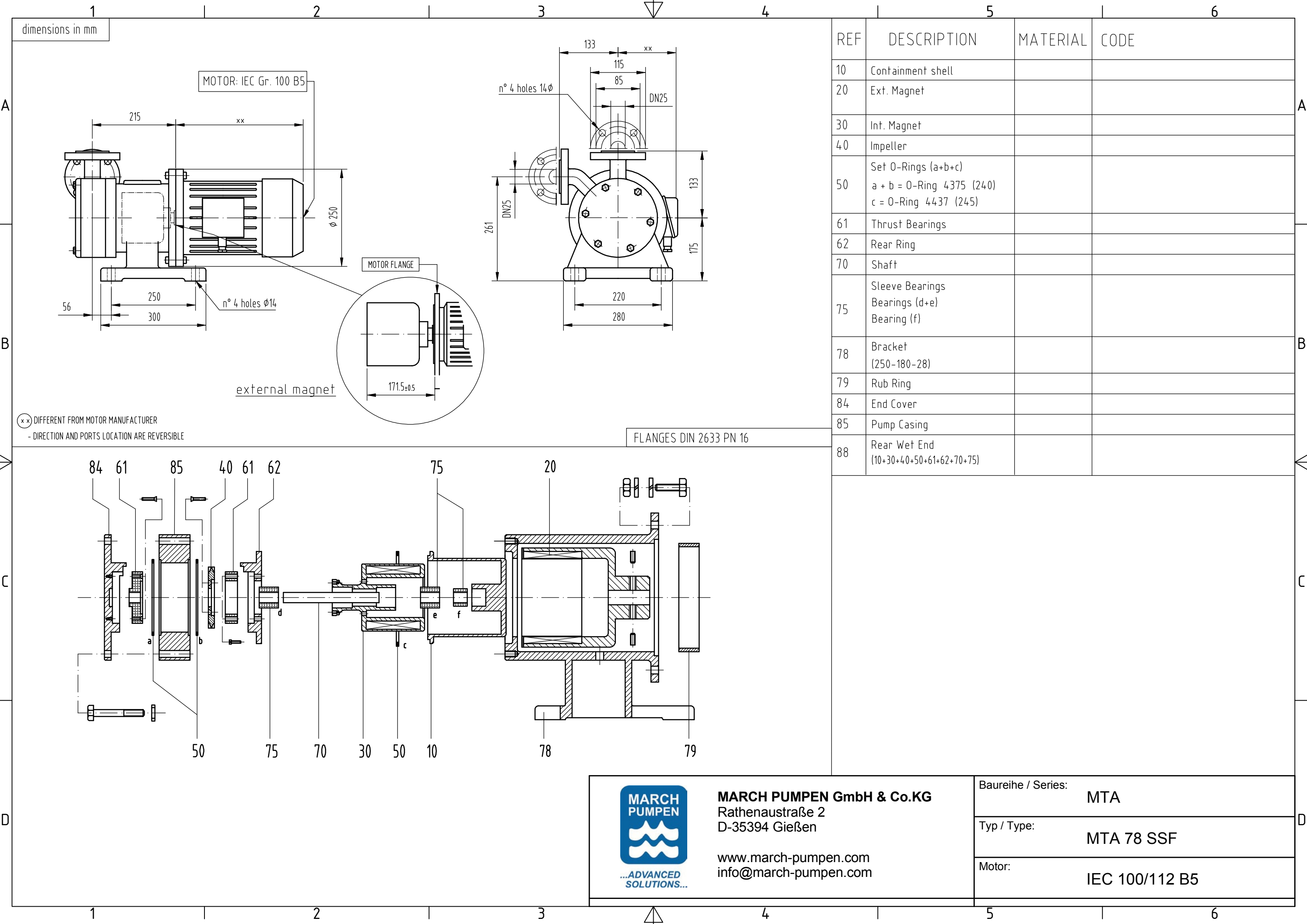
(x x) DIFFERENT FROM MOTOR MANUFACTURER
- DIRECTION AND PORTS LOCATION ARE REVERSIBLE

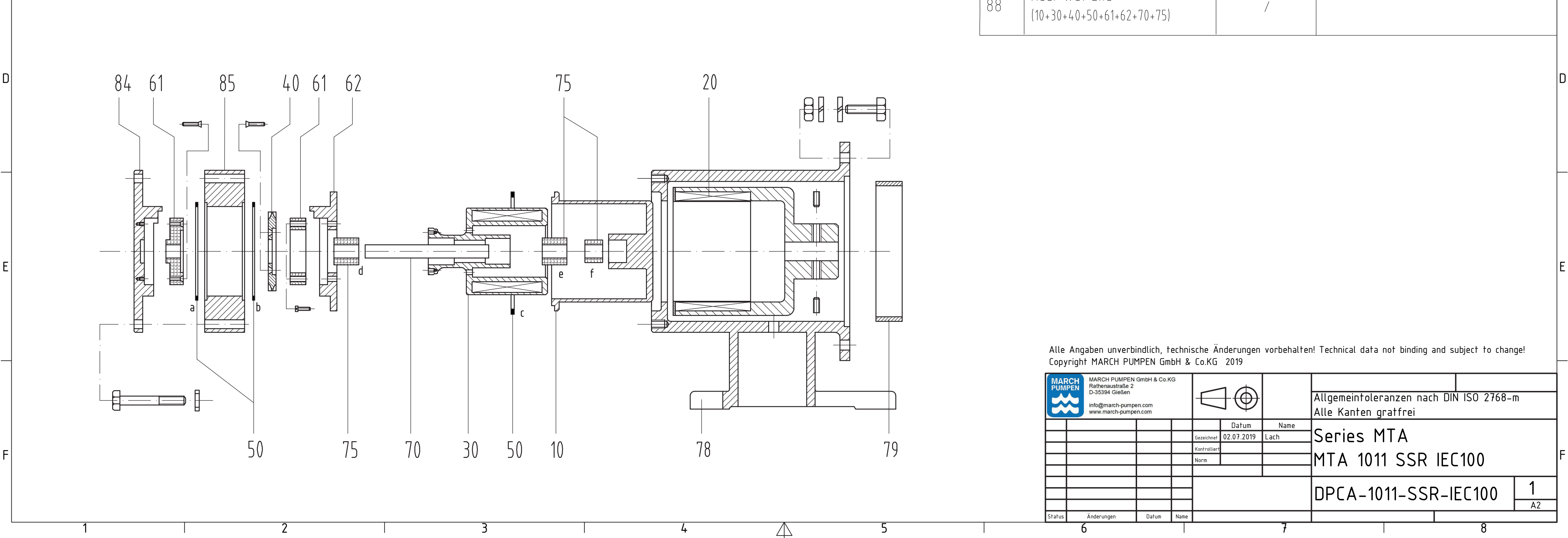
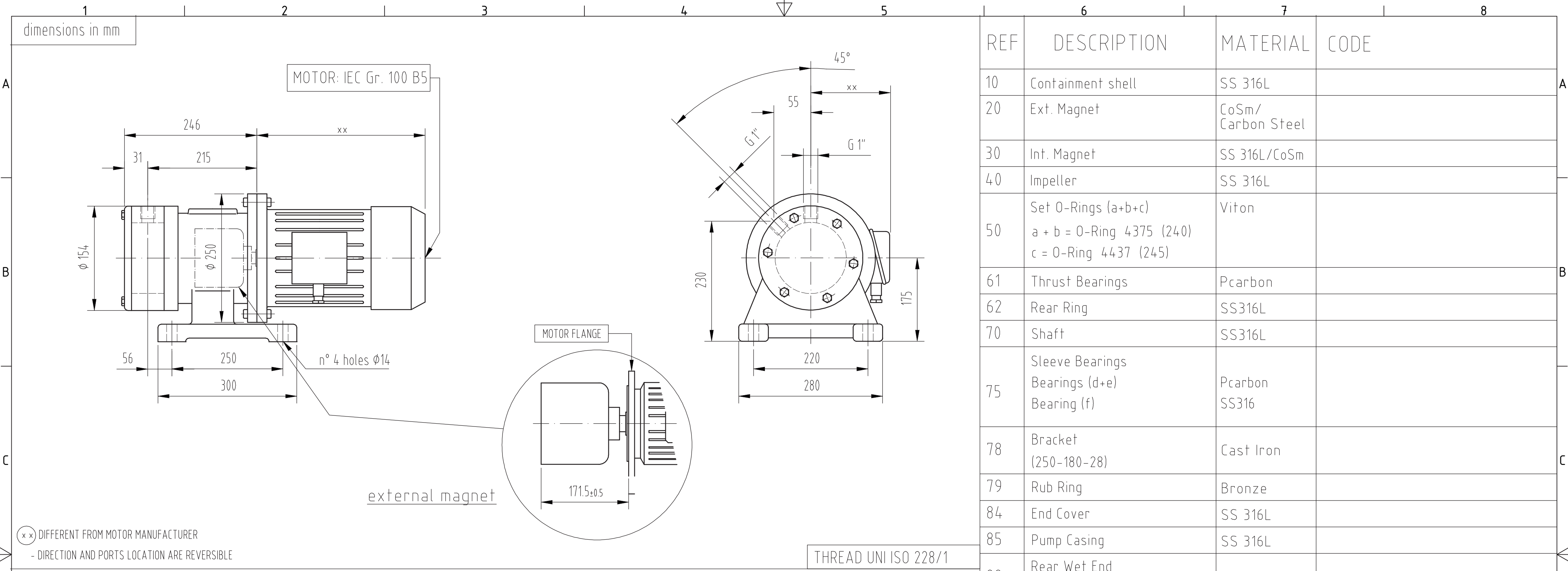
REF	DESCRIPTION	MATERIAL	CODE
10	Containment shell	SS 316L	
20	Ext. Magnet	CoSm/ Carbon Steel	
30	Int. Magnet	SS 316L/CoSm	
40	Impeller	SS 316L	
50	Set O-Rings (a+b+c) a + b = O-Ring 4375 (240) c = O-Ring 4437 (245)	Viton	
61	Thrust Bearings	Pcarbon	
62	Rear Ring	SS316L	
70	Shaft	SIC	
75	Sleeve Bearings 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)	/	

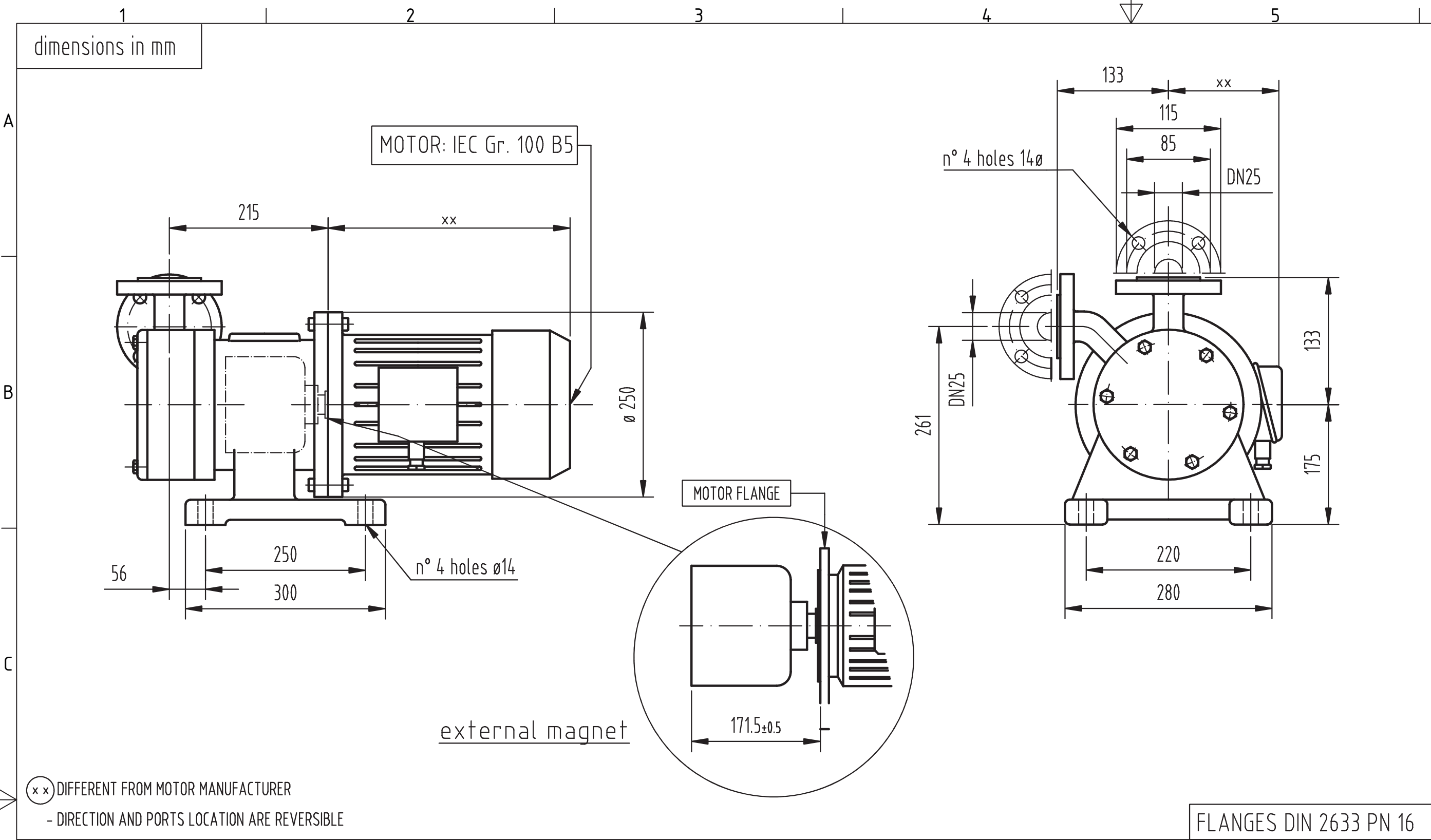


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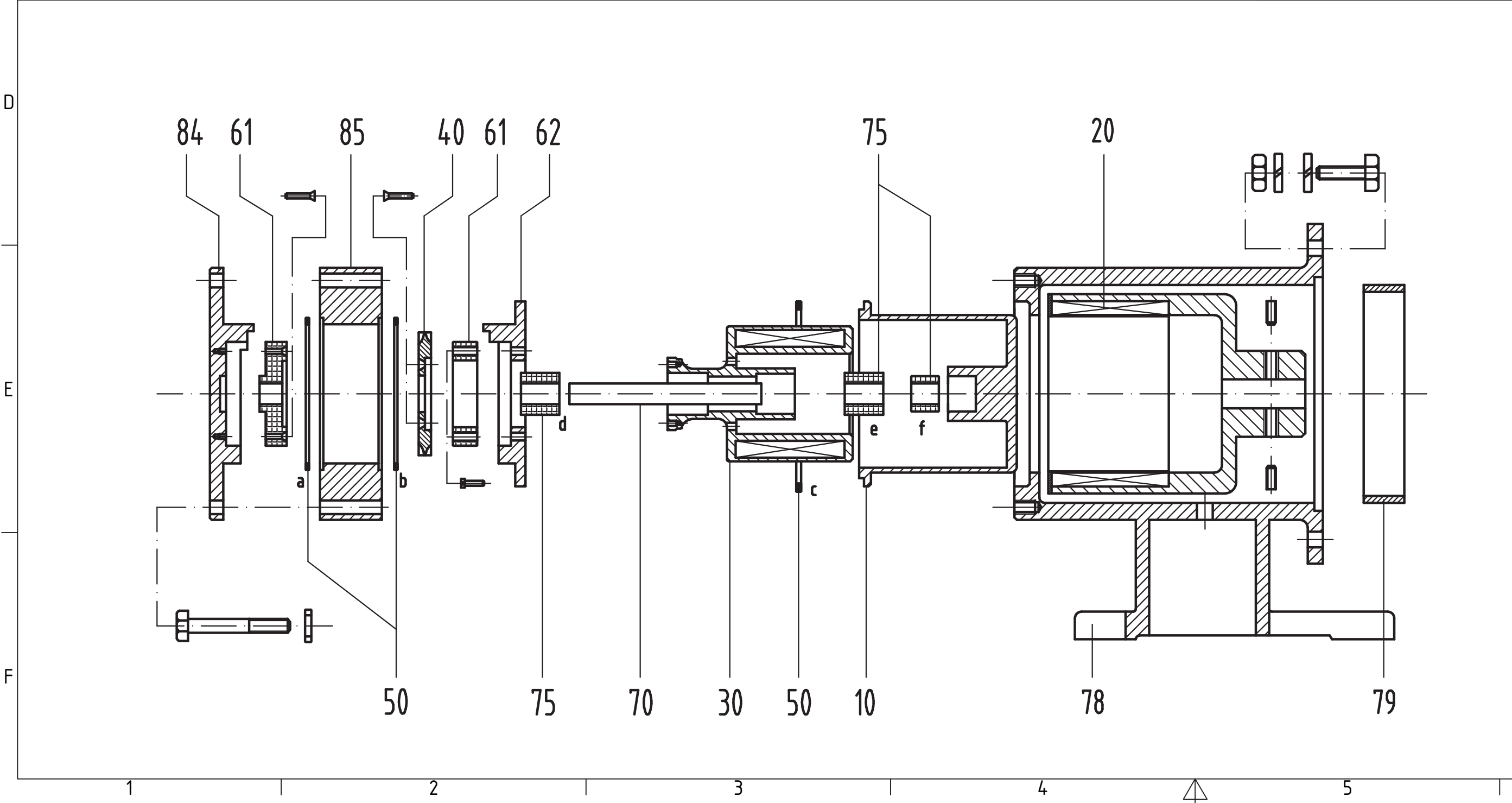
Baureihe / Series:	MTA
Typ / Type:	MTA 78 SSR
Motor:	IEC 100 B5



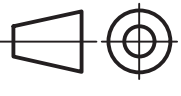


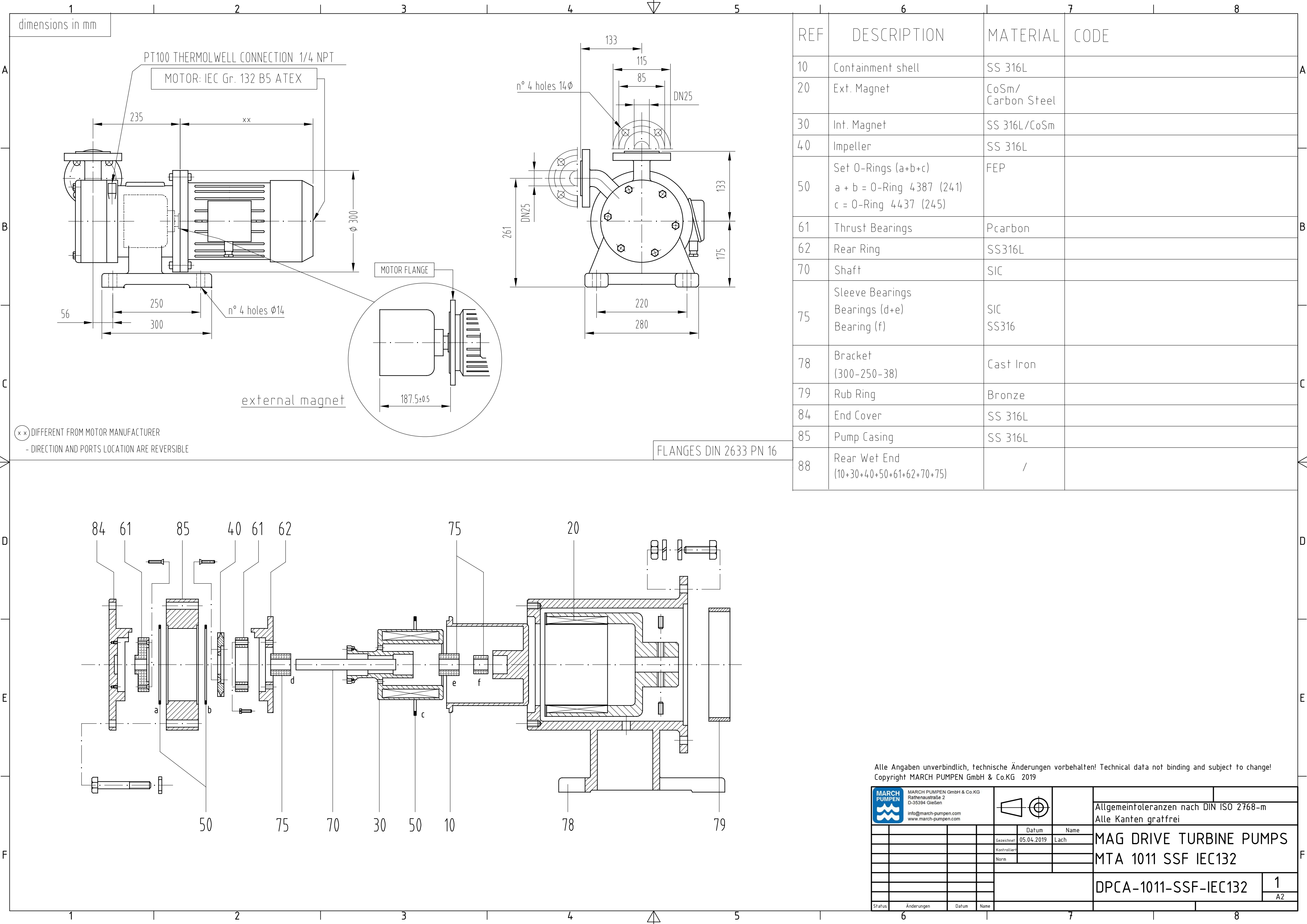


REF	DESCRIPTION	MATERIAL	CODE
10	Containment shell	SS 316L	A
20	Ext. Magnet	CoSm/ Carbon Steel	
30	Int. Magnet	SS 316L/CoSm	
40	Impeller	SS 316L	B
50	Set O-Rings (a+b+c) a + b = O-Ring 4375 (240) c = O-Ring 4437 (245)	Viton	
61	Thrust Bearings	Pcarbon	
62	Rear Ring	SS316L	
70	Shaft	SIC	
75	Sleeve Bearings Bearings (d+e) Bearing (f)	SIC SS316	C
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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				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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				Datum	Name	MAG DRIVE TURBINE PUMPS MTA 1011 SSF IEC132				
				Gezeichnet	05.04.2019					Lach
				Kontrolliert						
				Norm						
							DPCA-1011-SSF-IEC132			
Status	Änderungen	Datum	Name						1	A2

