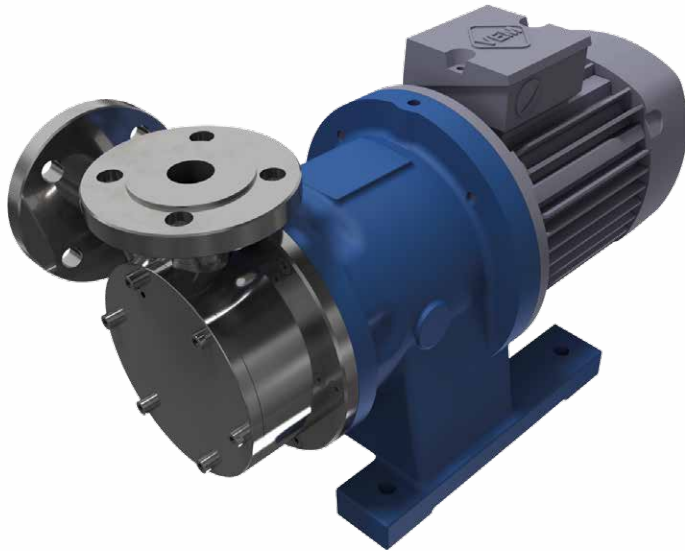


MAGNETGEKUPPELTE PERIPHERALRADPUMPEN

Baureihe MTA

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



TECHNISCHE DATEN

Nenn Drehzahl:	2900 1/min
Fördermenge / Förderhöhe, max.:	
MTA 25:	1,8 m ³ /h / 35 mWs
MTA 37:	3,5 m ³ /h / 45 mWs
MTA 49:	4,7 m ³ /h / 62 mWs
MTA 78:	7,0 m ³ /h / 73 mWs
MTA 1011:	9,8 m ³ /h / 90 mWs
MTA 2020:	17,0 m ³ /h / 174 mWs
Systemdruck:	PN16 ... 240 bar
Temperaturen:	-150 bis zu 320 °C
Dichte max.:	1,8 kg/dm ³
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:

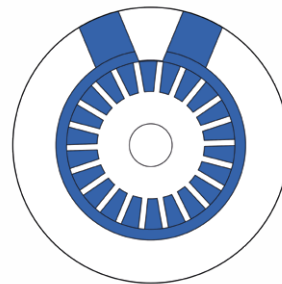
- Tieftemperaturanwendungen
- Kältemittel
- Hochtemperatur / Hochdruckanwendungen
- Flüssiggase
- Pharmazie- und Biotechnik
- Druckerhöhungspumpen
- Abwasseraufbereitung
- Umkehrosmose

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.



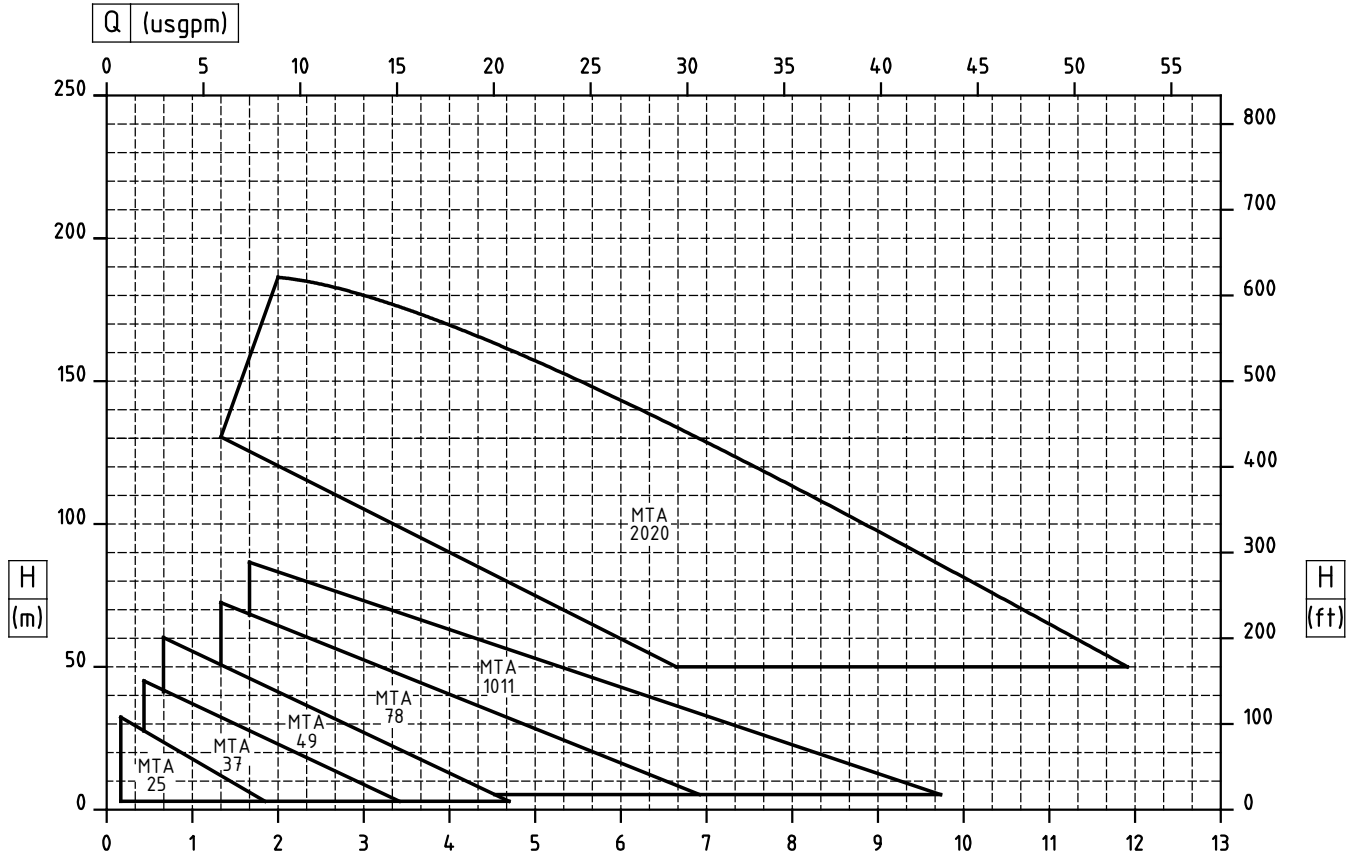
MARCH Magnetgekuppelte Peripheralradpumpen eignen sich zur leckagefreien Förderung aggressiver, umweltgefährdender und toxischer Medien, insbesondere dann, wenn kleine Fördermengen bei großen geodätischen Förderhöhen gepumpt werden müssen.

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.

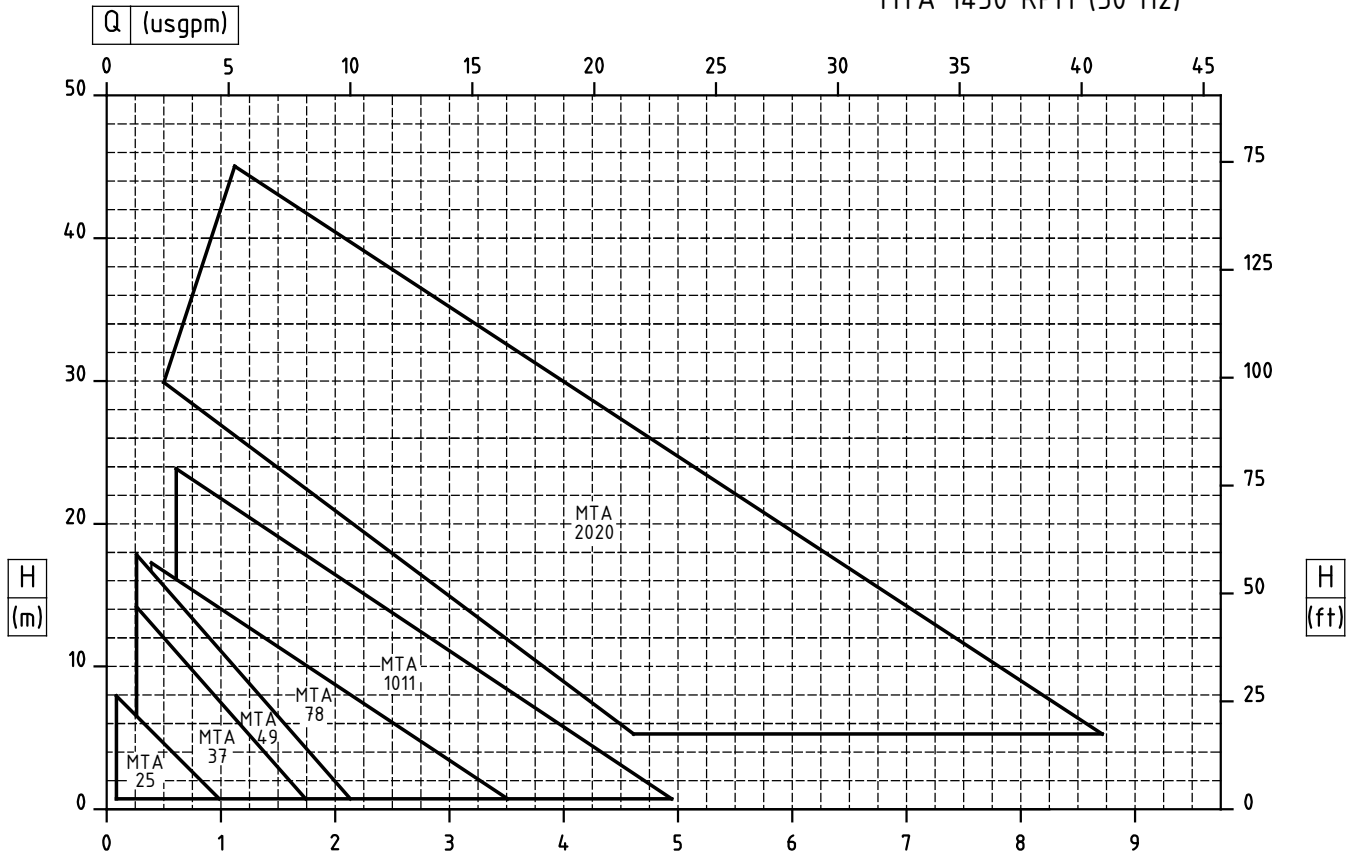
Als Antriebe werden ausschließlich europäische IEC-Normmotoren nach DIN/EN 60034 und VDE 0530 adaptiert.

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

MTA 2900 RPM (50 Hz)

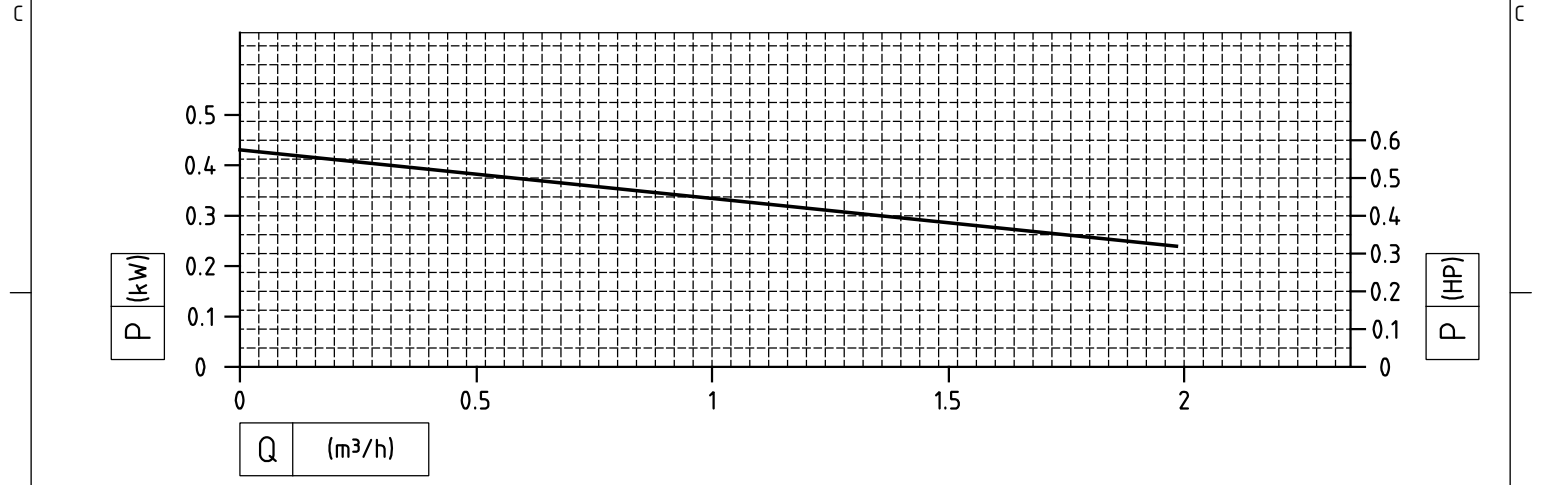
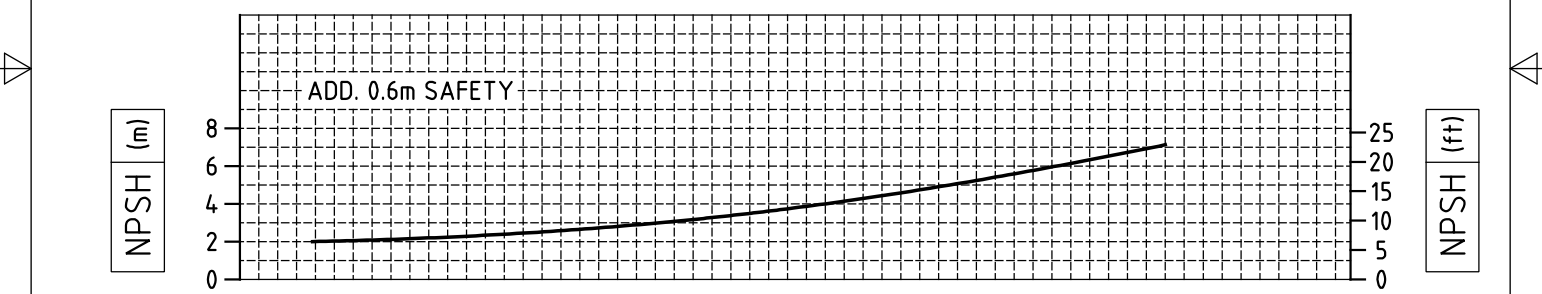
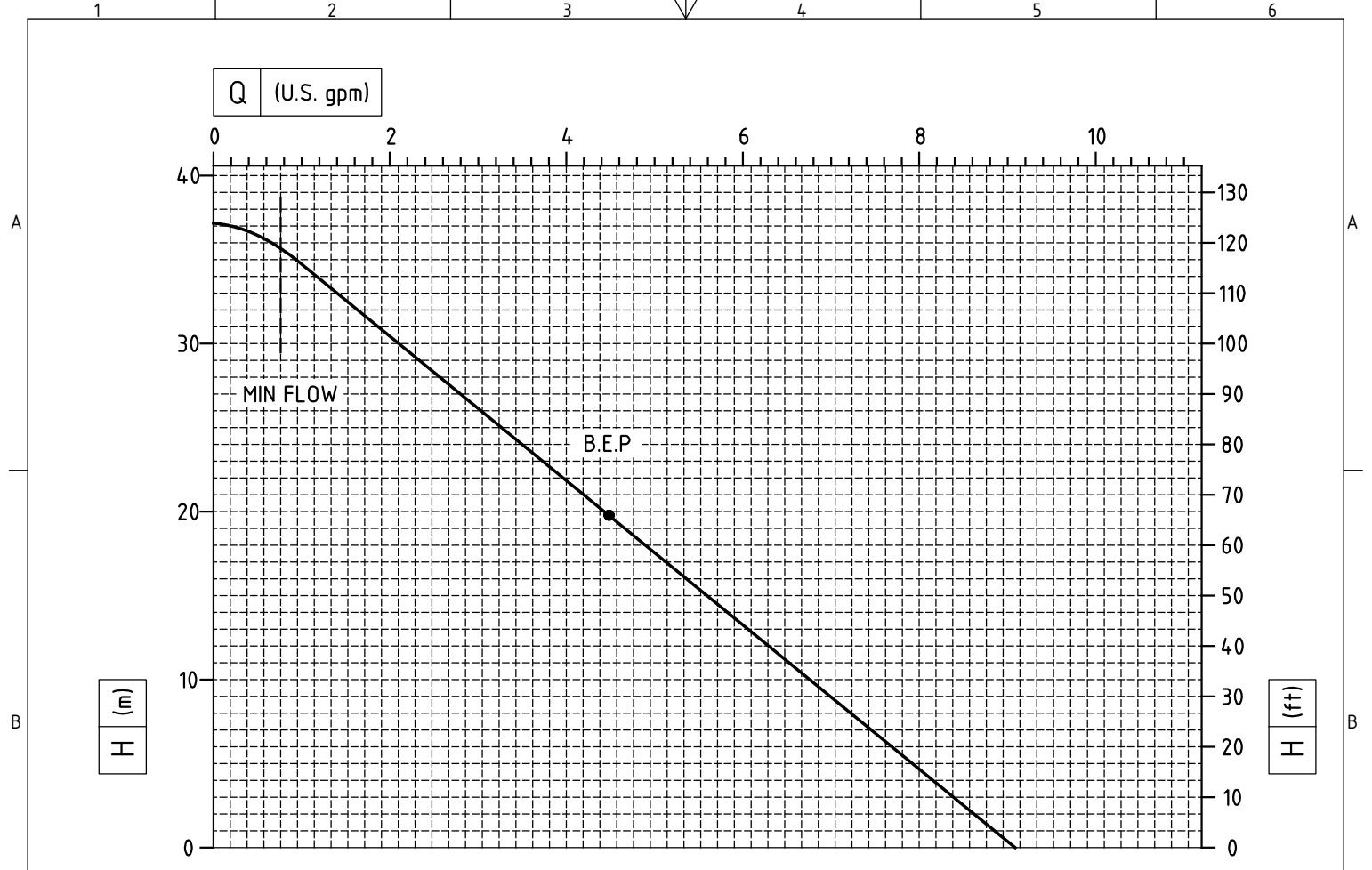


MTA 1450 RPM (50 Hz)




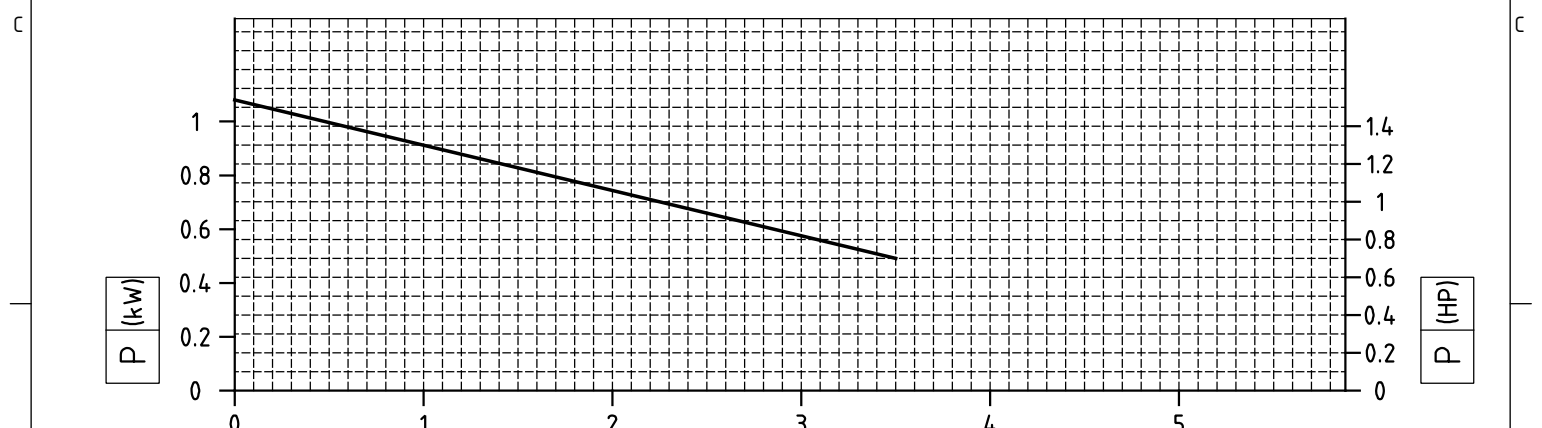
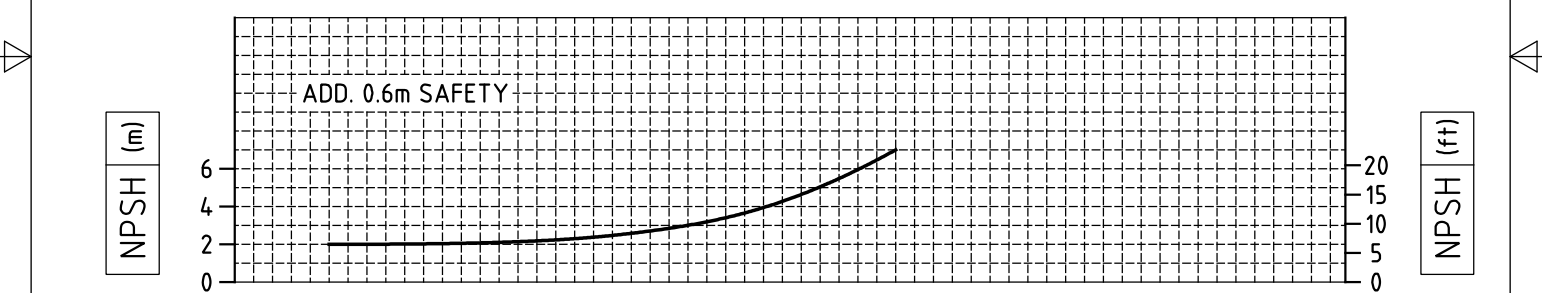
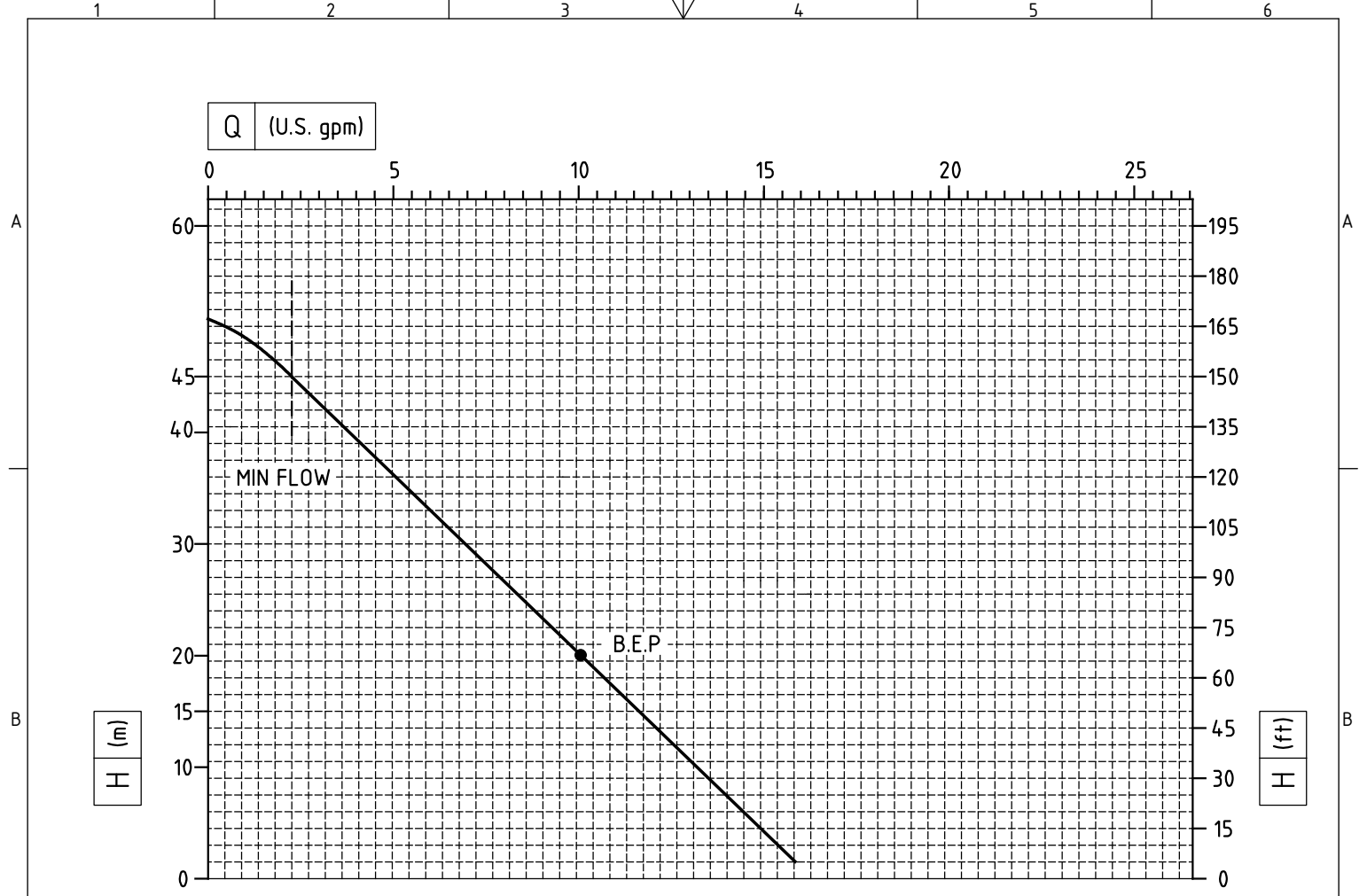
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 info@march-pumpen.com

Baureihe / Series:	MTA
Typ / Type:	Family Curves
Motor Speed:	2900 / 1450 RPM (50 hz)




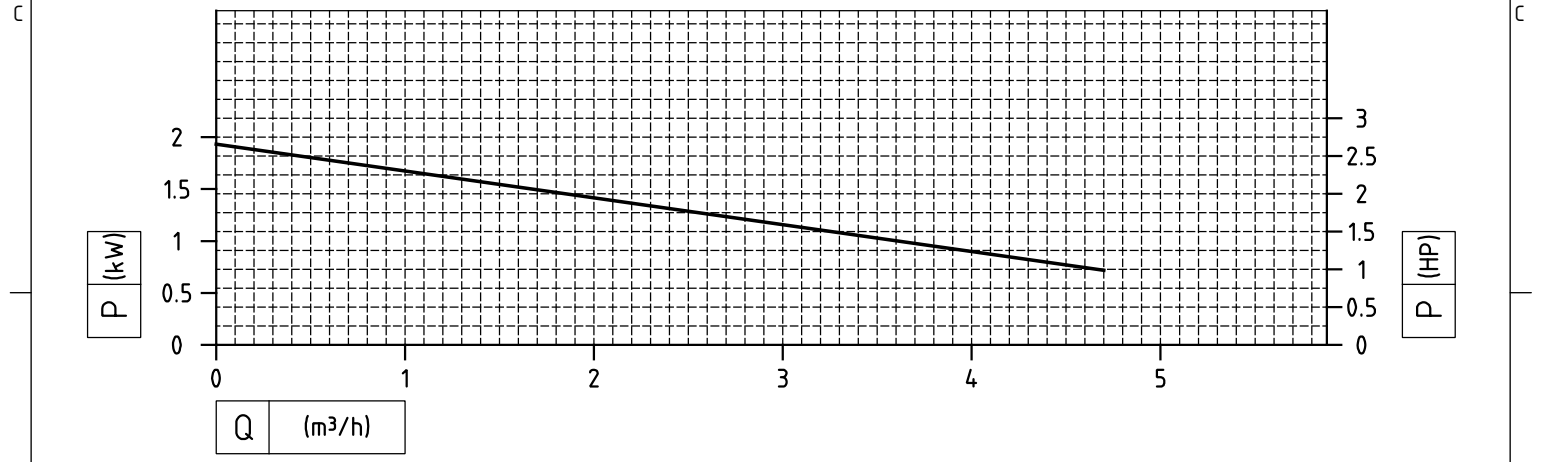
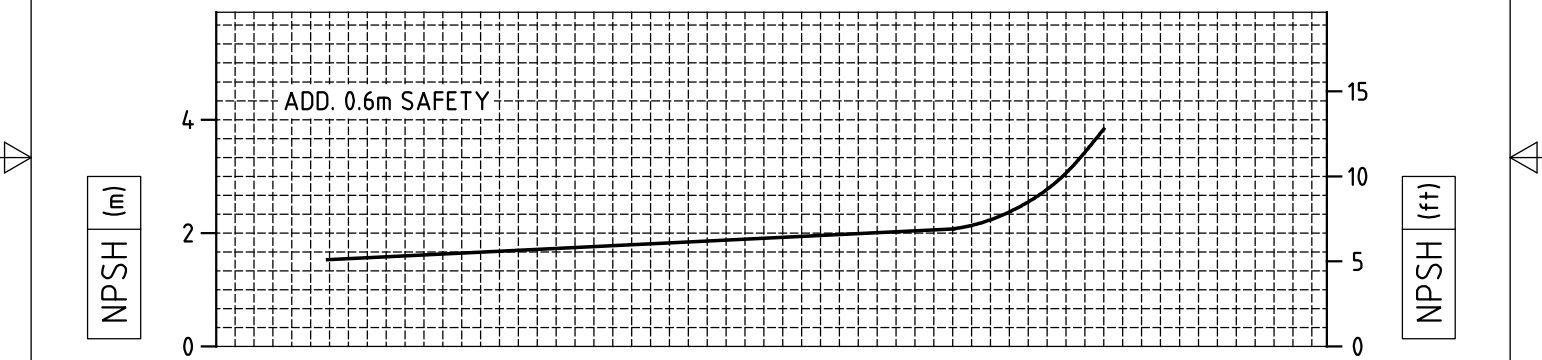
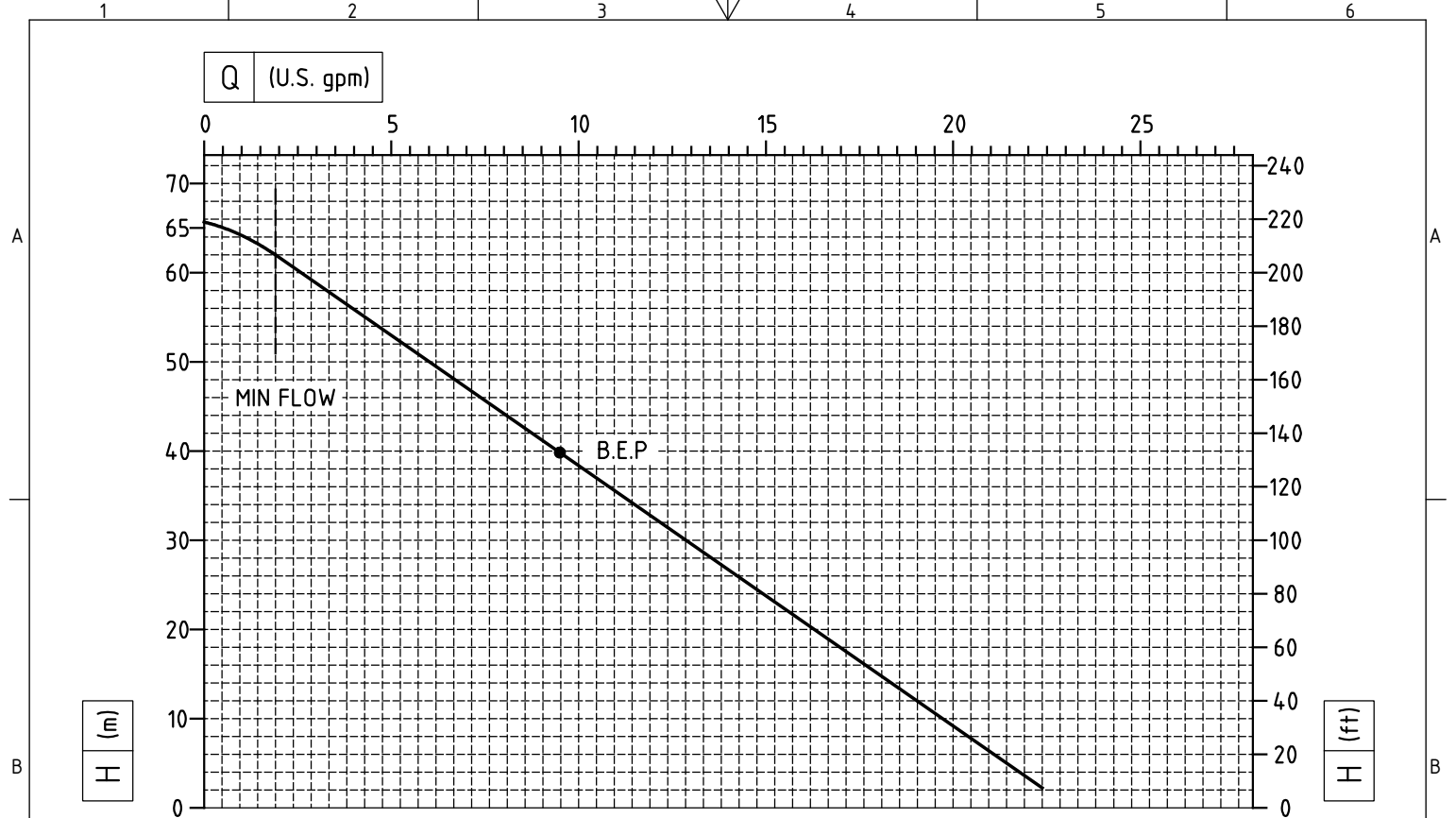
Motor power depends on specific gravity of pumped liquid.

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




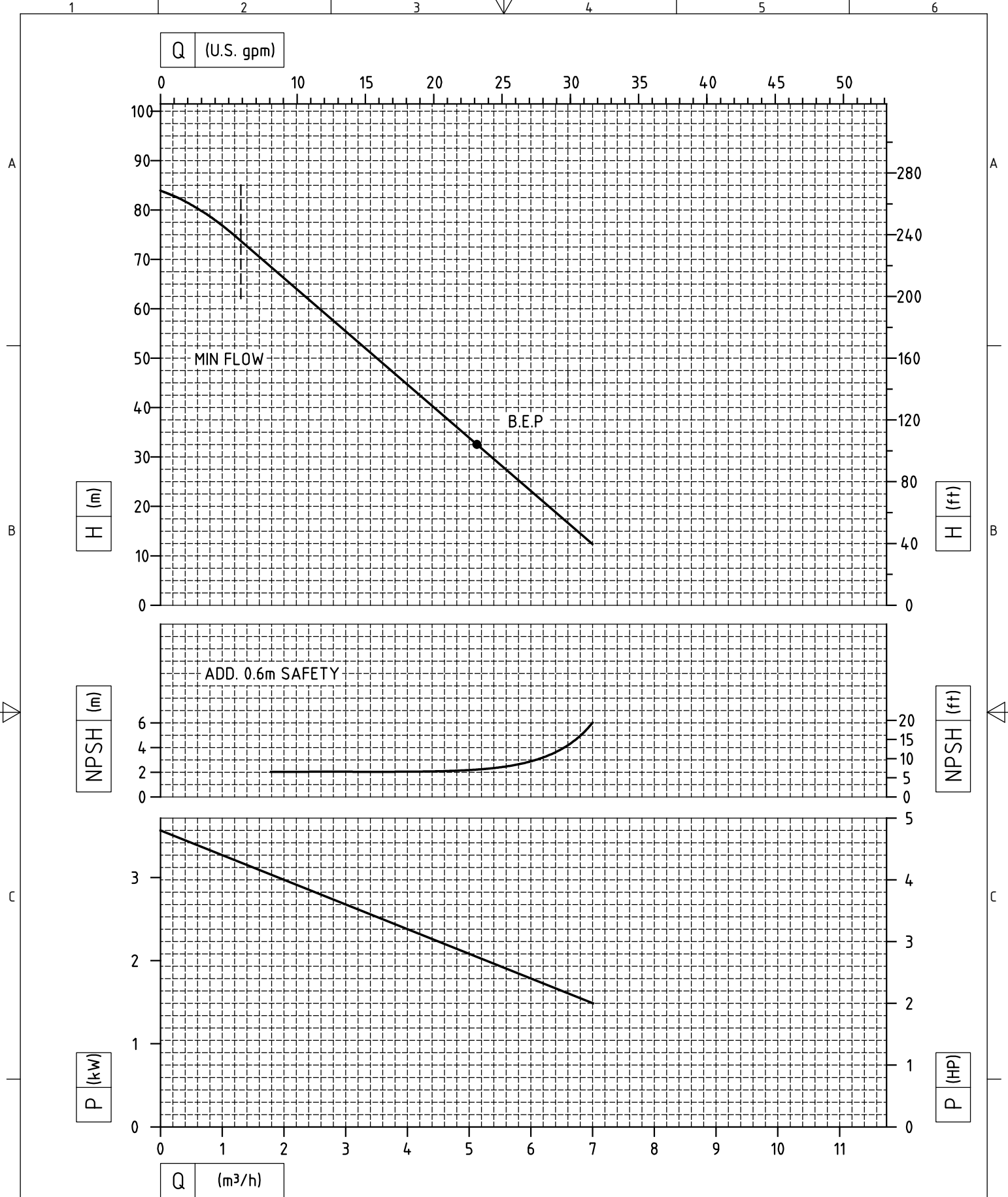
Motor power depends on specific gravity of pumped liquid.

 <p>MARCH PUMPEN GmbH & Co.KG Rathenastraße 2 D-35394 Gießen www.march-pumpen.com info@march-pumpen.com</p>	Baureihe / Series:	MTA
	Typ / Type:	MTA37
	Motor:	IEC 80 / 90 B35



Motor power depends on specific gravity of pumped liquid.

 <p>MARCH PUMPEN GmbH & Co.KG Rathenaustraße 2 D-35394 Gießen www.march-pumpen.com info@march-pumpen.com</p>	Baureihe / Series:	MTA
	Typ / Type:	MTA 49
	Motor:	2900 1/min

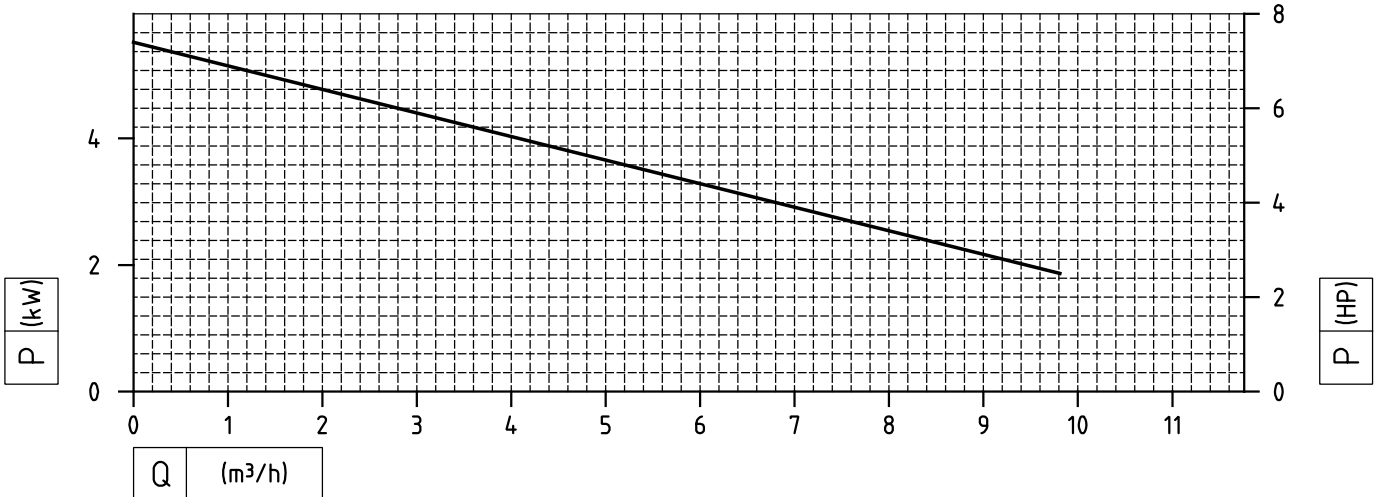
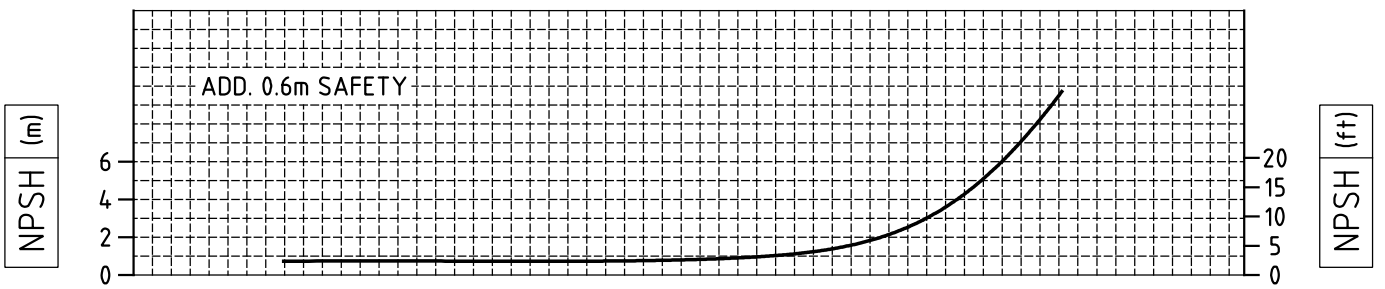
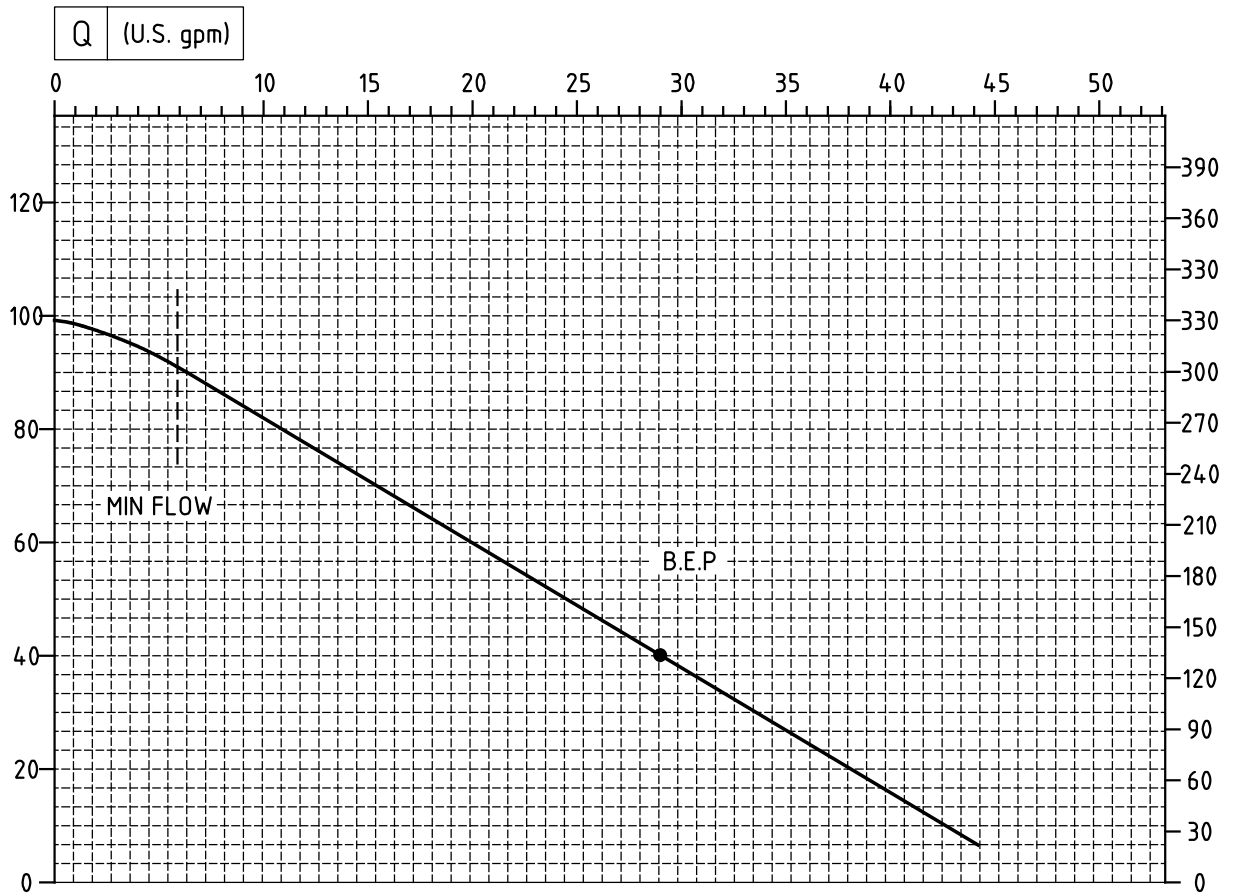


Motor power depends on specific gravity of pumped liquid.



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Baureihe / Series:	MTA
Typ / Type:	MTA 78
Motor:	2900 1/min



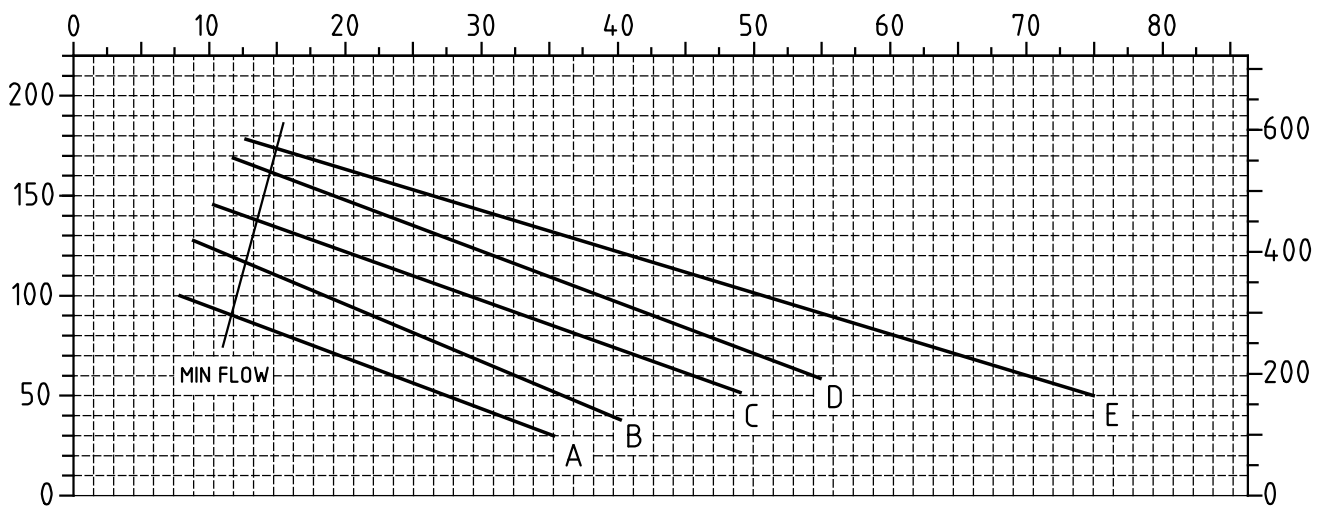
Motor power depends on specific gravity of pumped liquid.



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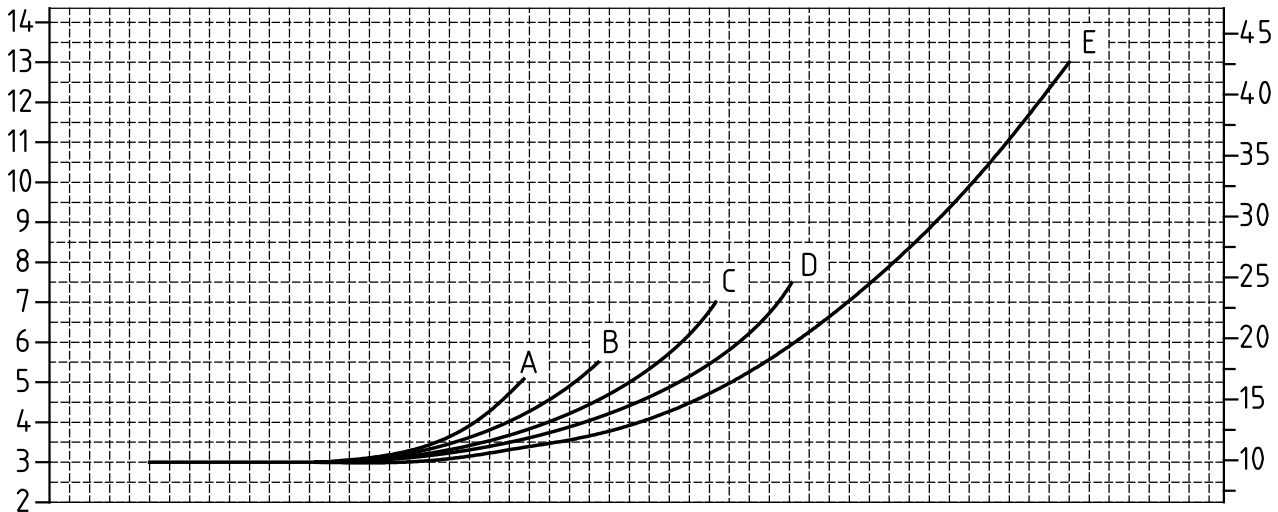
Baureihe / Series:	MTA
Typ / Type:	MTA 1011
Motor:	2900 1/min

Q (U.S. gpm)



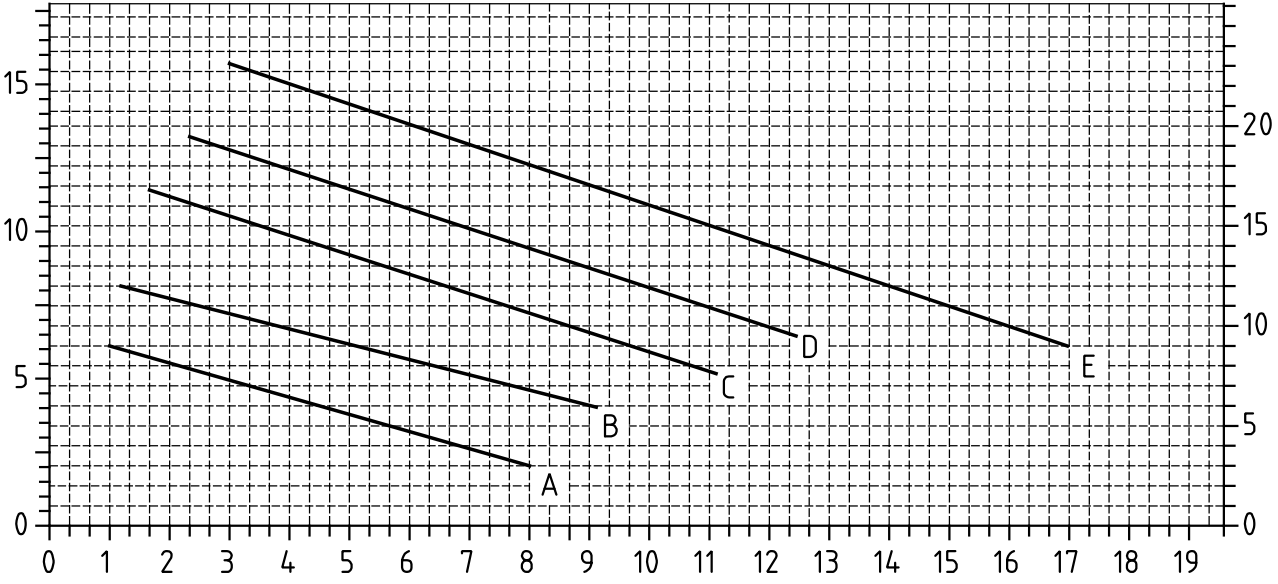
NPSH (m)

NPSH (ft)



P (kW)

P (HP)



Q (m³/h)

Motor power depends on specific gravity of pumped liquid.



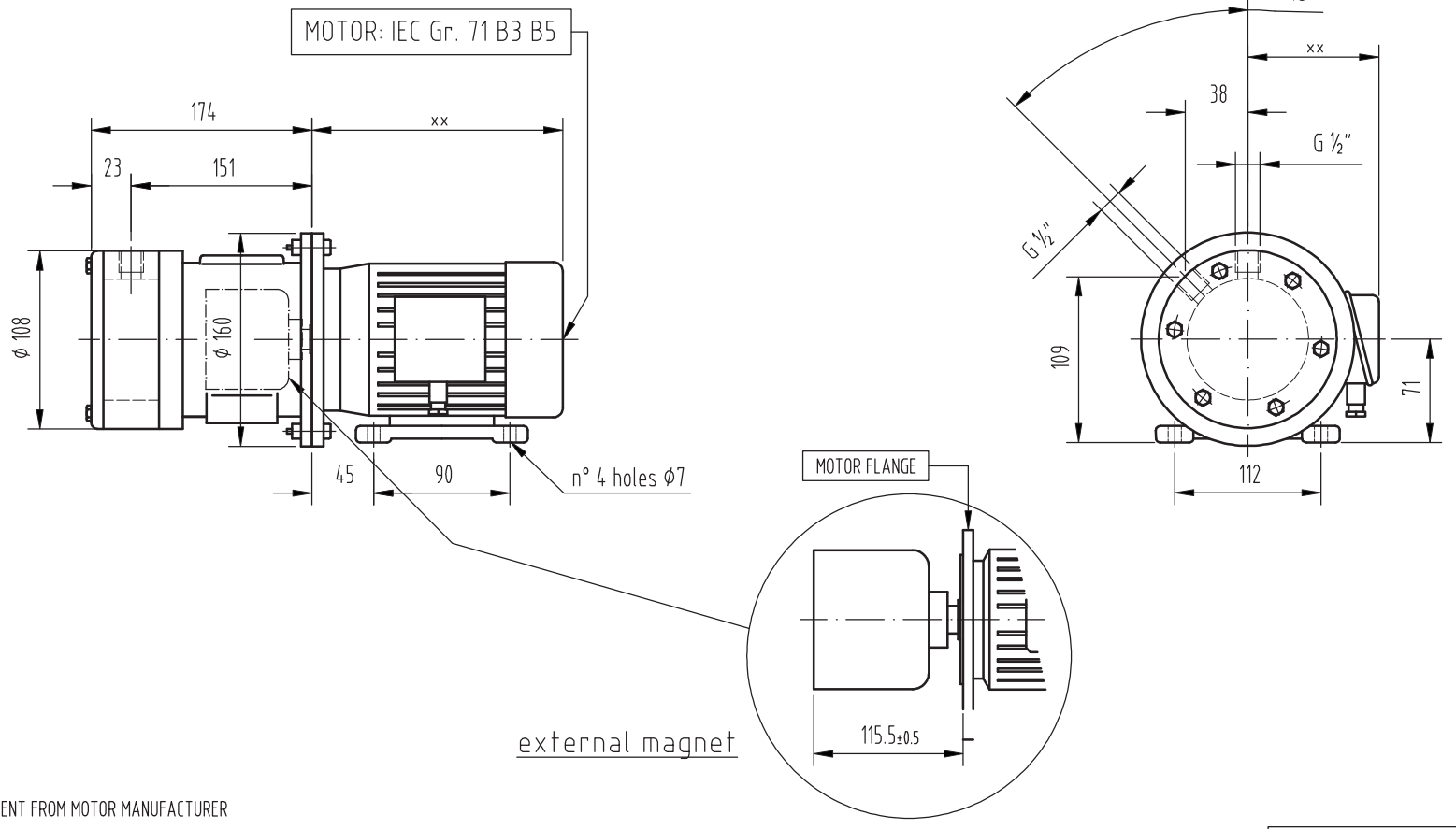
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Baureihe / Series:	MTA
Typ / Type:	MTA 2020
Motor:	2900 1/min

dimensions in mm

A

B



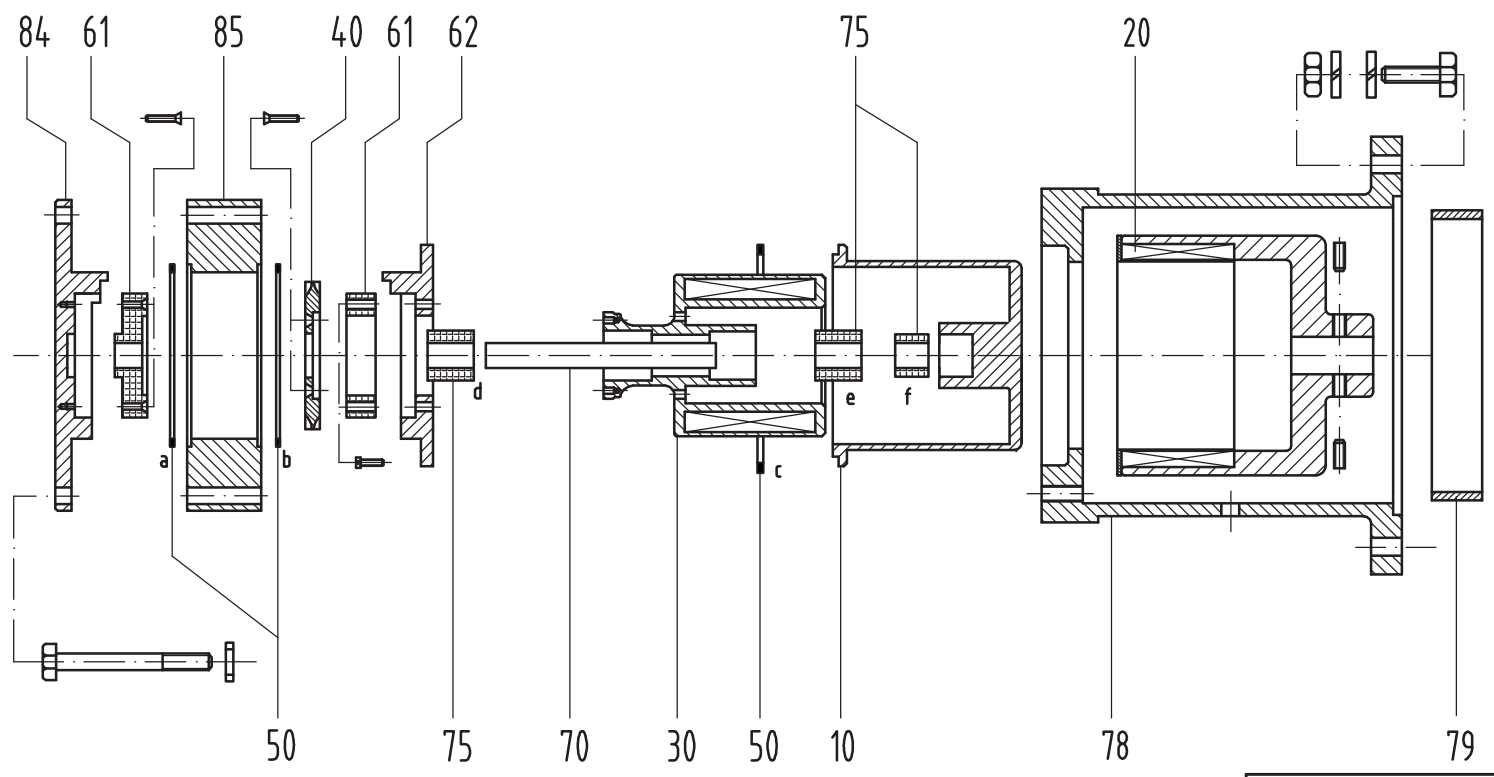
(x) DIFFERENT FROM MOTOR MANUFACTURER
- DIRECTION AND PORTS LOCATION ARE REVERSIBLE

THREAD UNI ISO 228/1

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)	/	

C

D

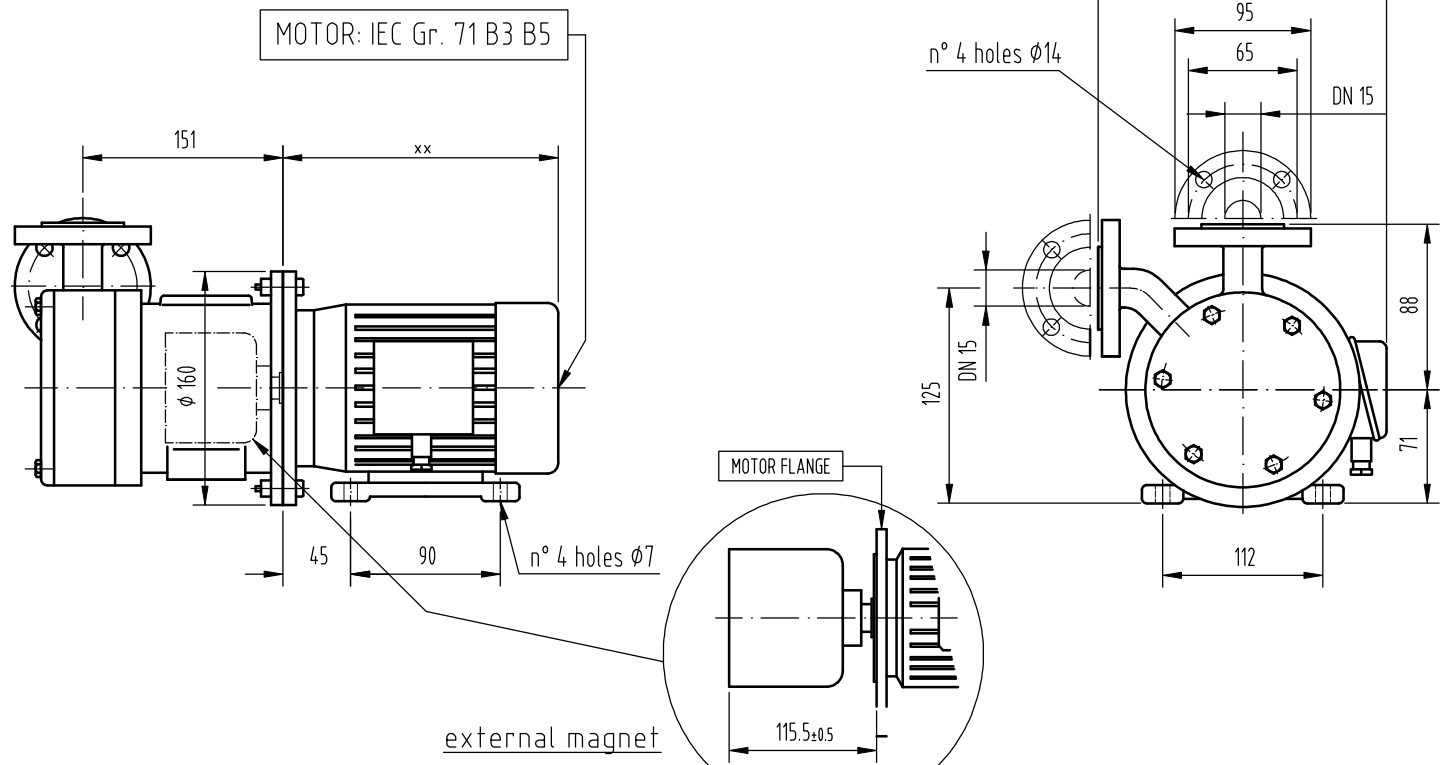


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Baureihe / Series:	MTA
Typ / Type:	MTA 25 SSR
Motor:	IEC 71 B35

1 | 2 | 3 | 4 | 5 | 6

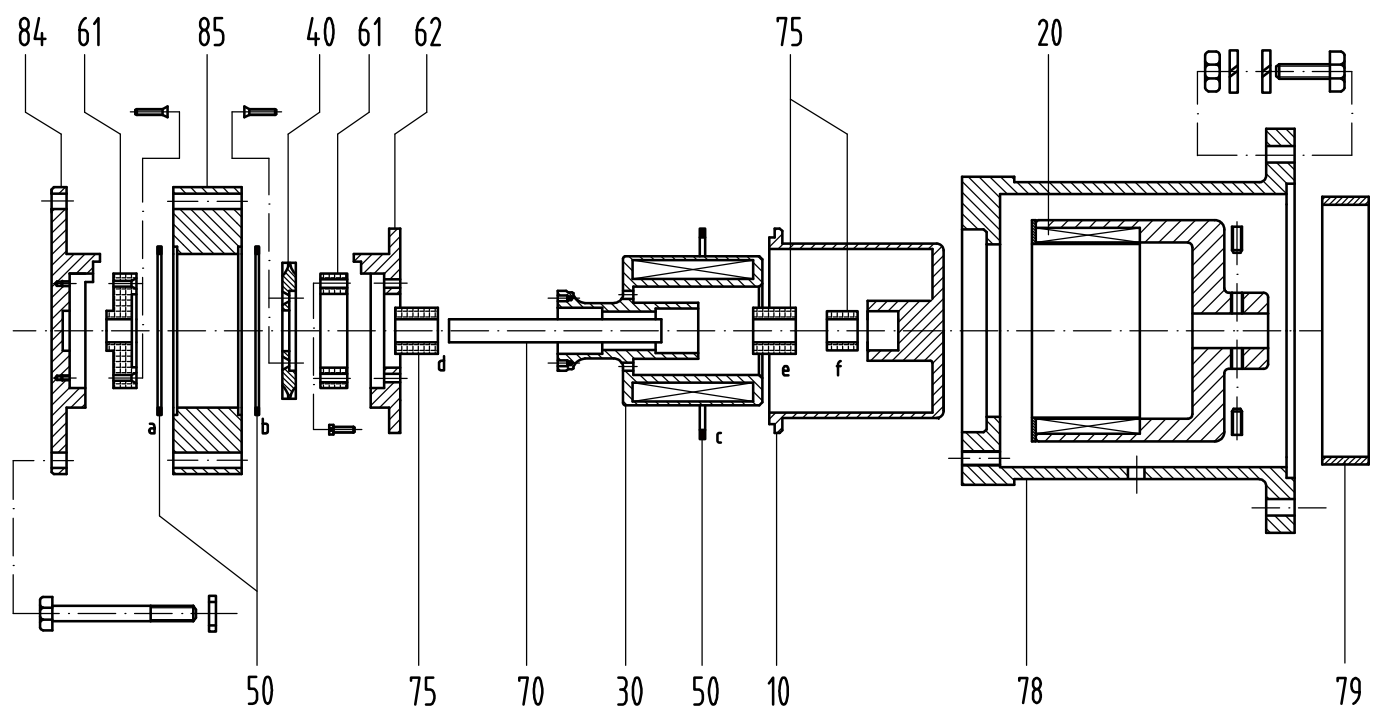
1 dimensions in mm



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

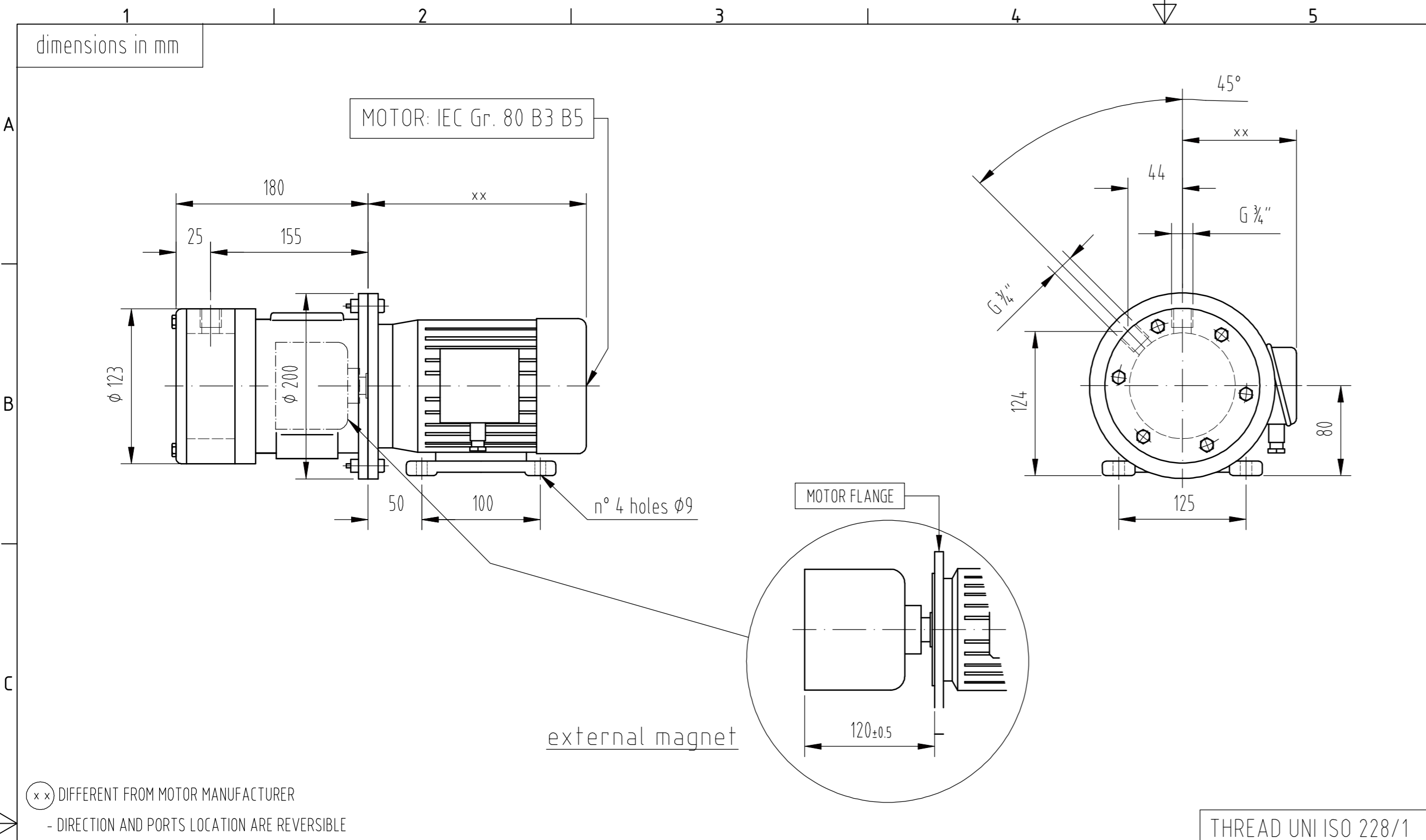
FLANGED DIN 2633 PN 16

REF	DESCRIPTION	MATERIAL	CODE
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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 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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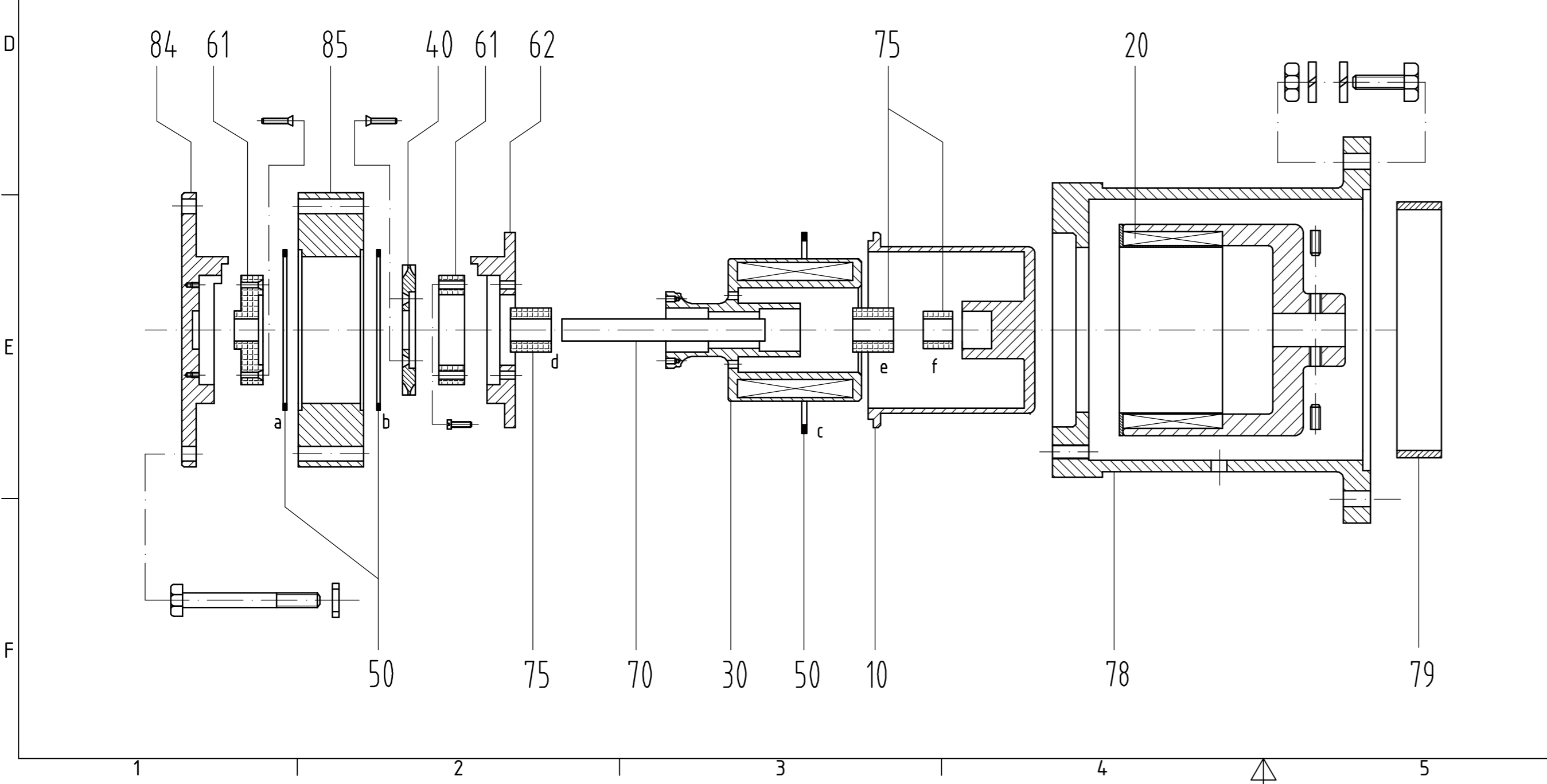
Baureihe / Series:	MTA
Typ / Type:	MTA 25 SSF
Motor:	IEC 71 B35



REF	DESCRIPTION	MATERIAL	CODE
10	Containment shell	SS 316L	
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 4300 (234) c = O-Ring 4362 (239)	Viton	
61	Thrust Bearings	Pcarbon	
62	Rear Ring	SS316L	
70	Shaft	SS316L	
75	Sleeve Bearings Bearings (d+e) Bearing (f)	Pcarbon SS316	
78	Bracket (200-130-19)	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)	/	

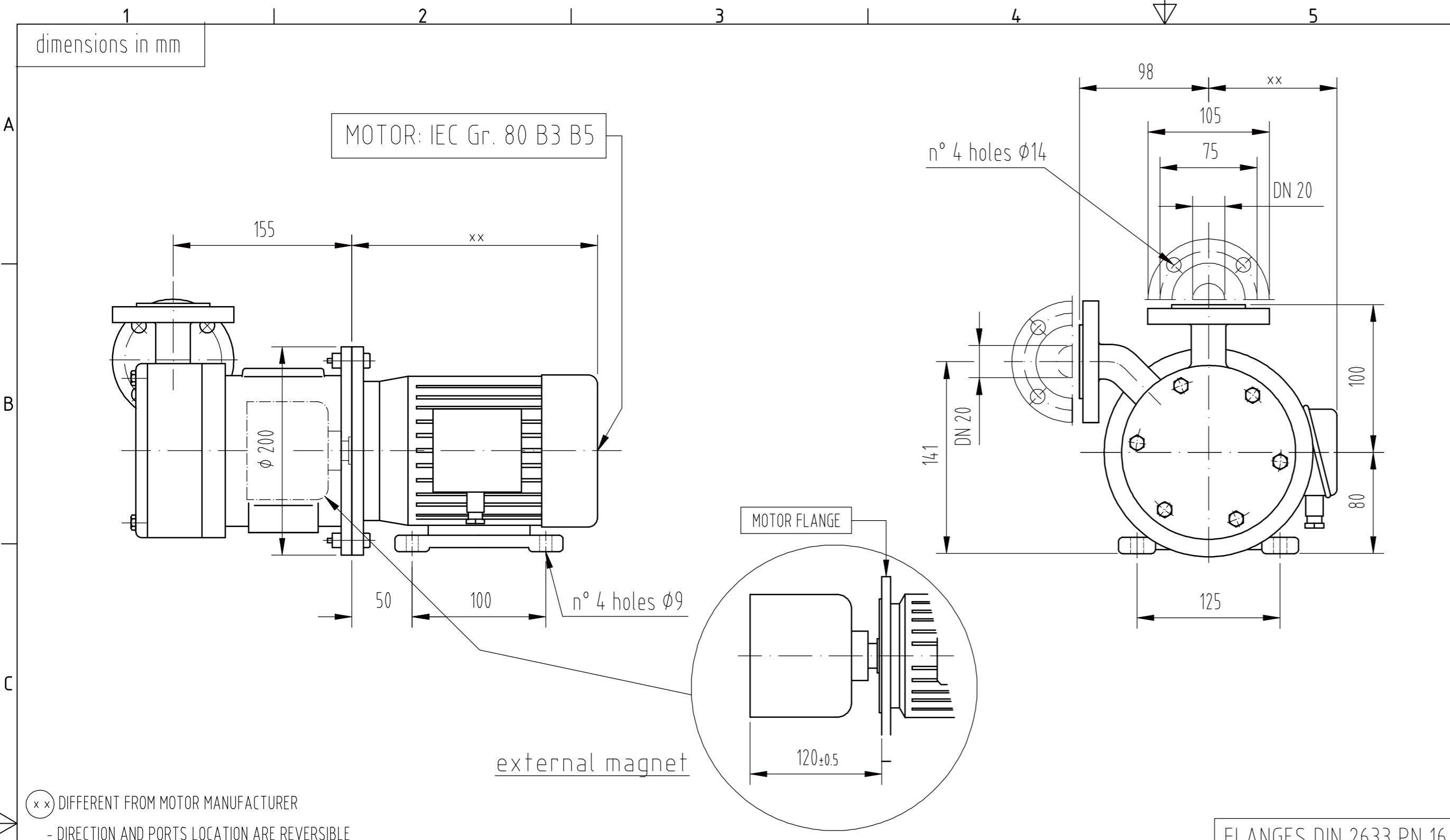
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- DIRECTION AND PORTS LOCATION ARE REVERSIBLE

THREAD UNI ISO 228/1



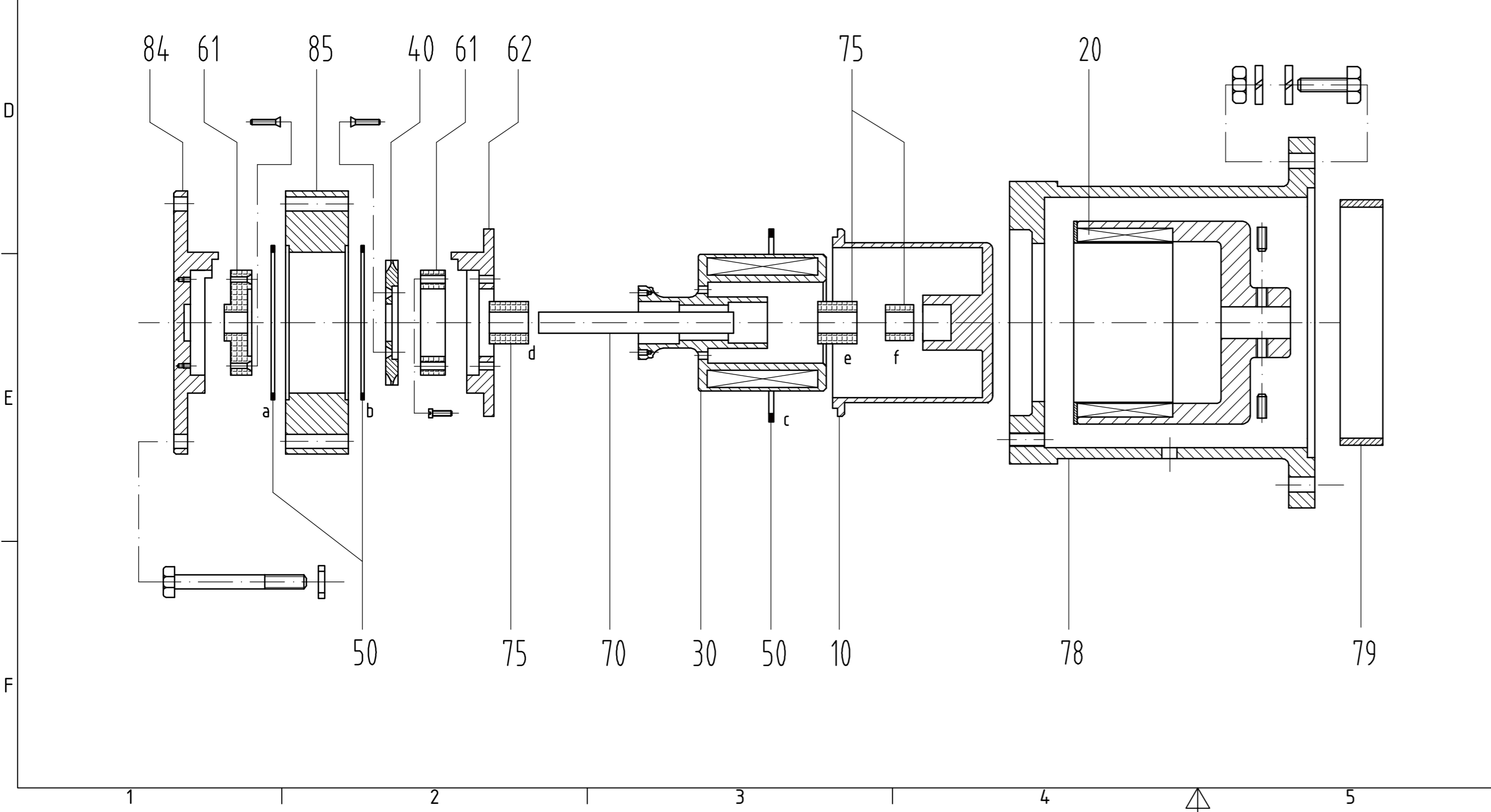
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			Datum: 02.07.2019 Name: Lach	Series MTA MTA 37 SSR
DPCA-0037-R			1 A2	
Status	Änderungen	Datum	Name	



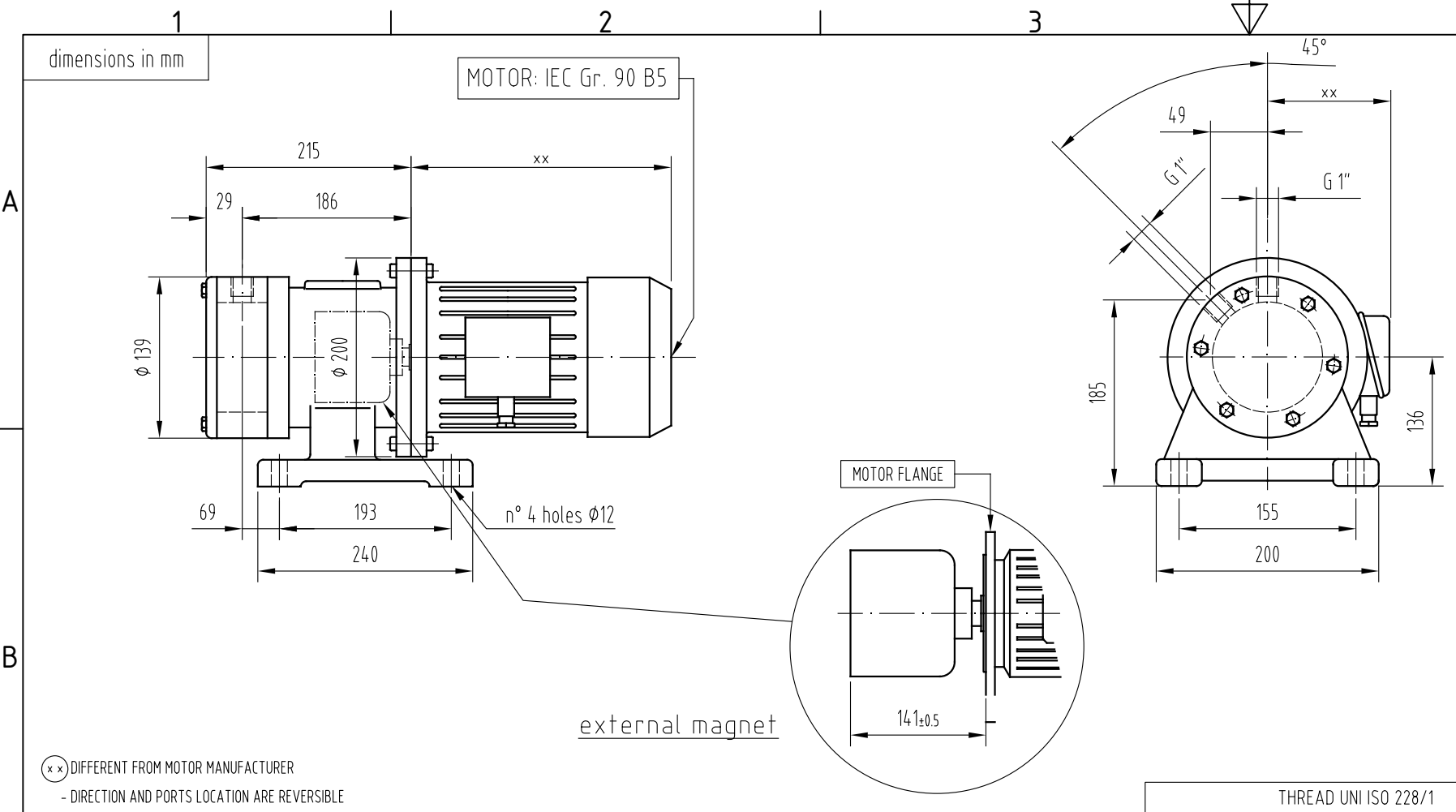
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20	Ext. Magnet	CoSm/ Carbon Steel	
30	Int. Magnet	SS 316L/CoSm	
40	Impeller	SS 316L	
50	Set O-Rings (a+b+c) a + b = O-Ring 4300 (234) c = O-Ring 4362 (239)	Viton	
61	Thrust Bearings	Pcarbon	
62	Rear Ring	SS316L	
70	Shaft	SS316L	
75	Sleeve Bearings Bearings (d+e) Bearing (f)	Pcarbon SS316	
78	Bracket (200-130-19)	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)	/	

(xx) DIFFERENT FROM MOTOR MANUFACTURER
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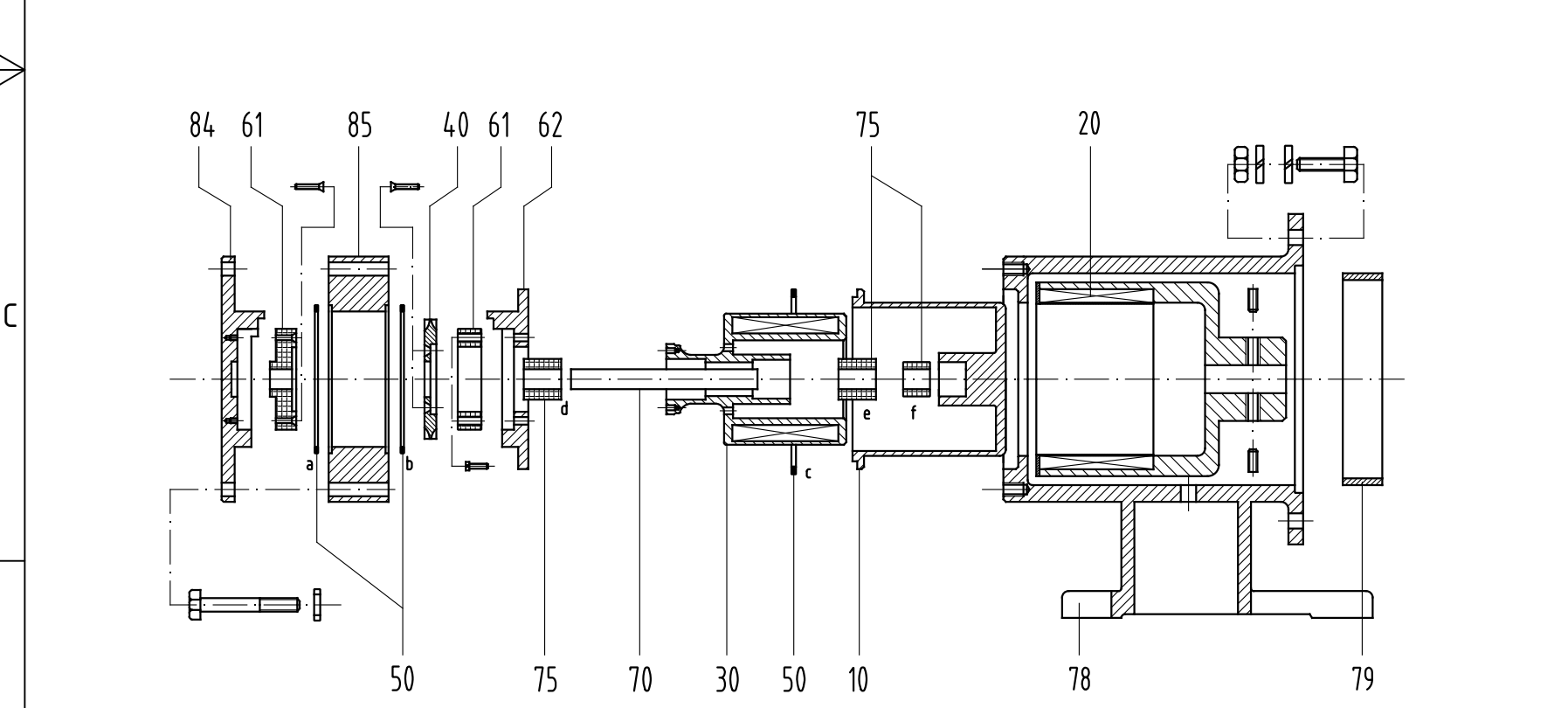


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	Gezeichnet 05.04.2019	Datum 05.04.2019		Name Lach	MAG DRIVE TURBINE PUMPS MTA 37 SSF IEC80
Status Änderungen Datum Name			Norm		DPCA-0037-SSF-IEC80
					1 A2

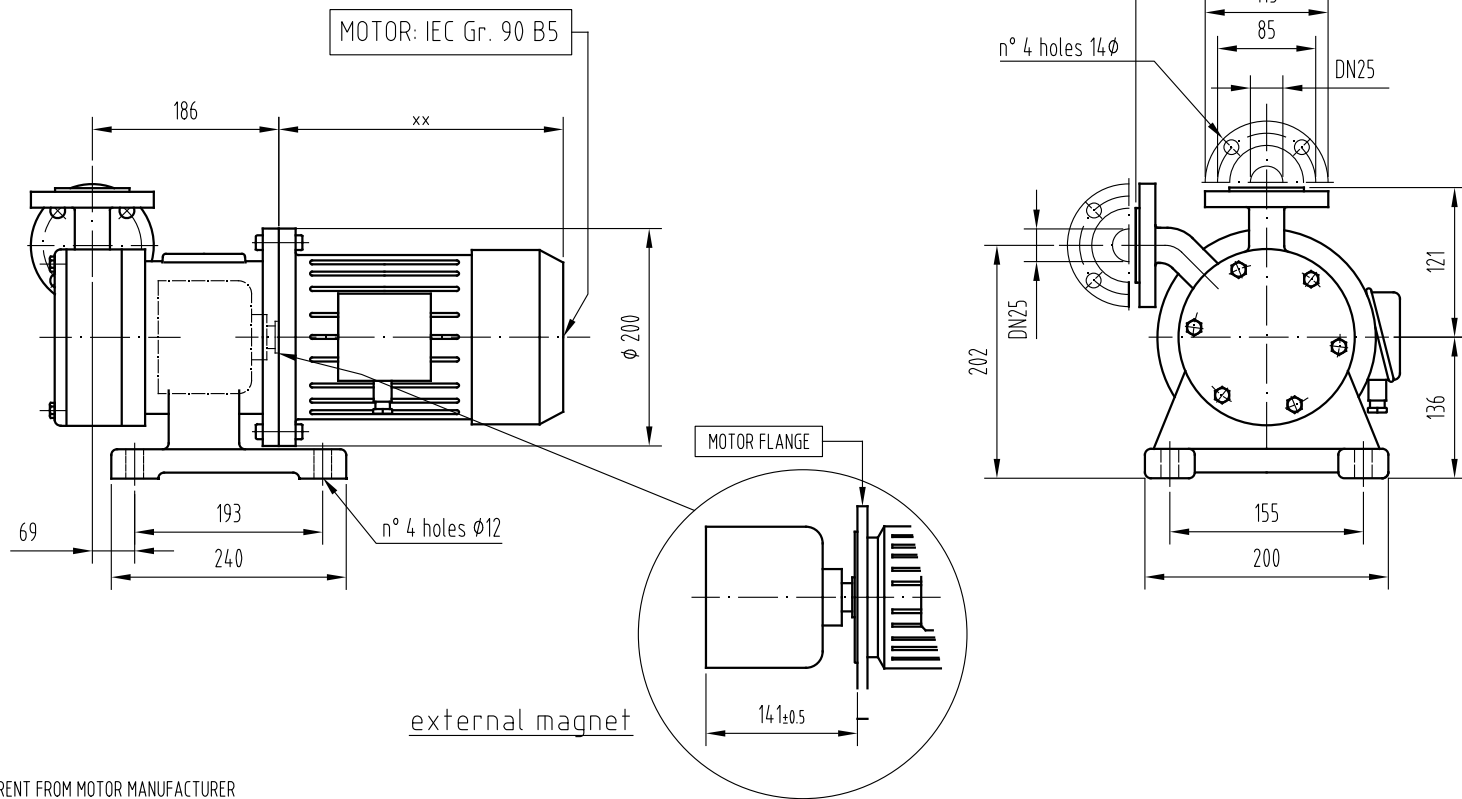


REF	DESCRIPTION	MATERIAL	CODE
10	Containment shell	SS 316L	
20	Ext. Magnet	CoSm/ Carbon Steel	
30	Int. Magnet	SS 316L/CoSm	
40	Impeller	SS 316L	
50	Set O-Rings (a+b+c) a + b = O-Ring 4337 (237) c = O-Ring 4400 (242)	Viton	
61	Thrust Bearings	Pcarbon	
62	Rear Ring	SS316L	
70	Shaft	SIC	
75	Sleeve Bearings Bearings (d+e) Bearing (f)	SIC SS316	
78	Bracket (200-130-24)	Cast Iron	
79	Rub Ring	Bronze	
84	End Cover	SS 316L	
85	Pump Casing	SS 316L	
88	Rear Wet End (10+30+40+50+61+62+70+75)	/	



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		Typ / Type: MTA 49 SSR
		Motor: IEC 90 B5

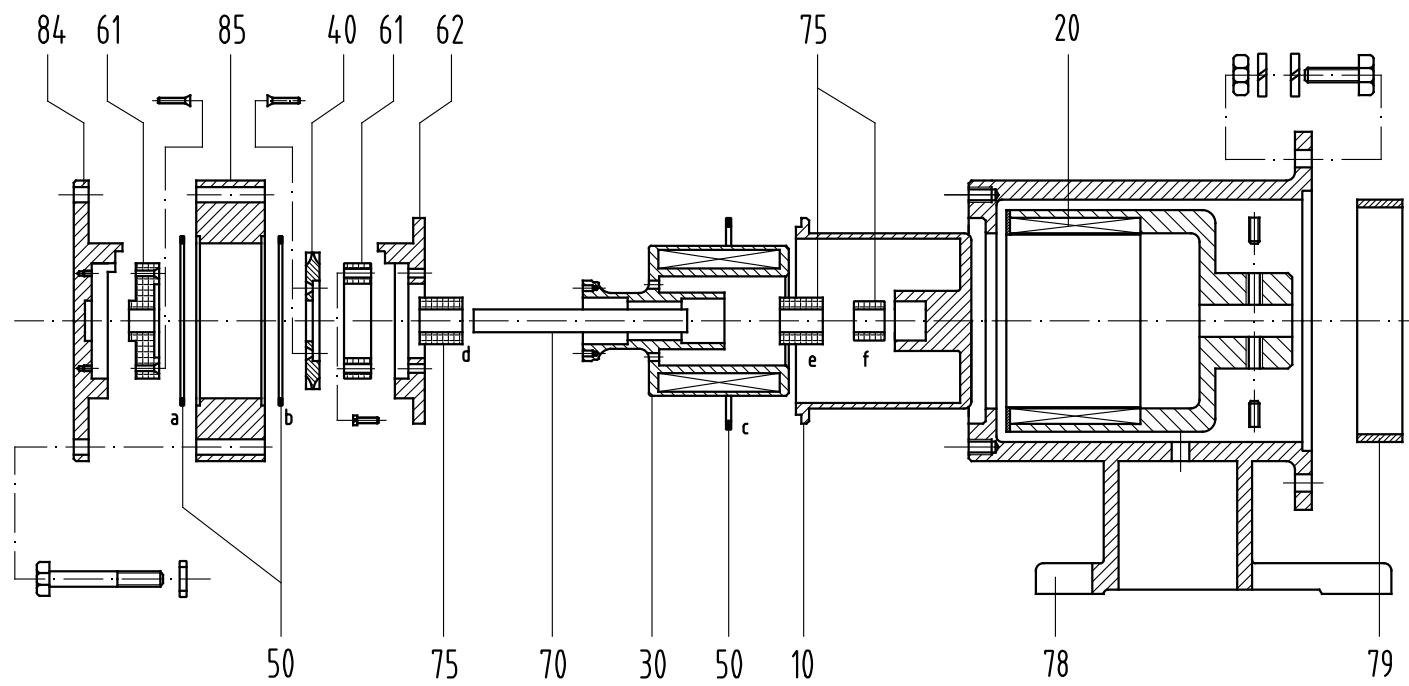
dimensions in mm



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

FLANGES DIN 2633 PN 16

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

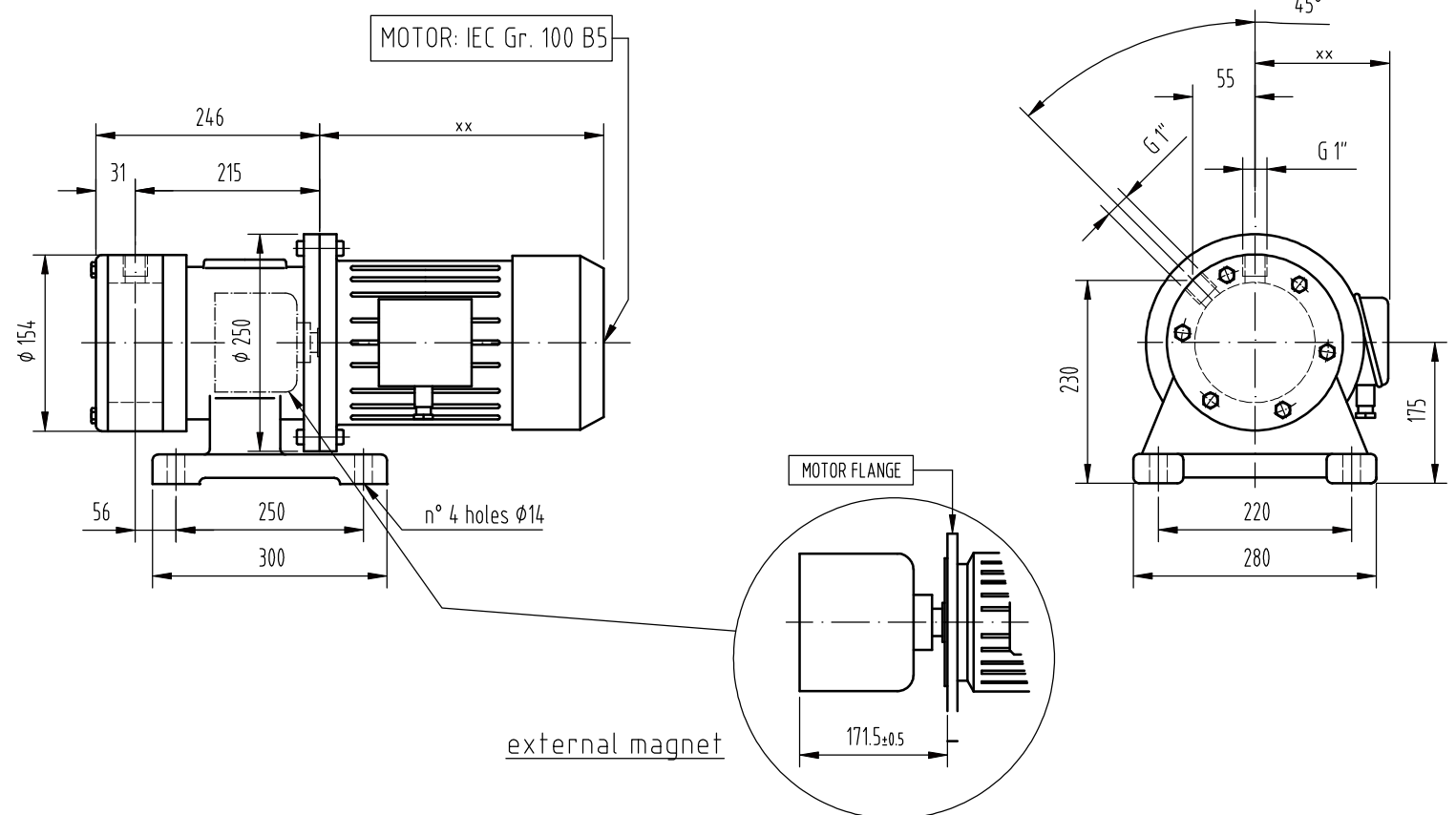
1 dimensions in mm

A

B

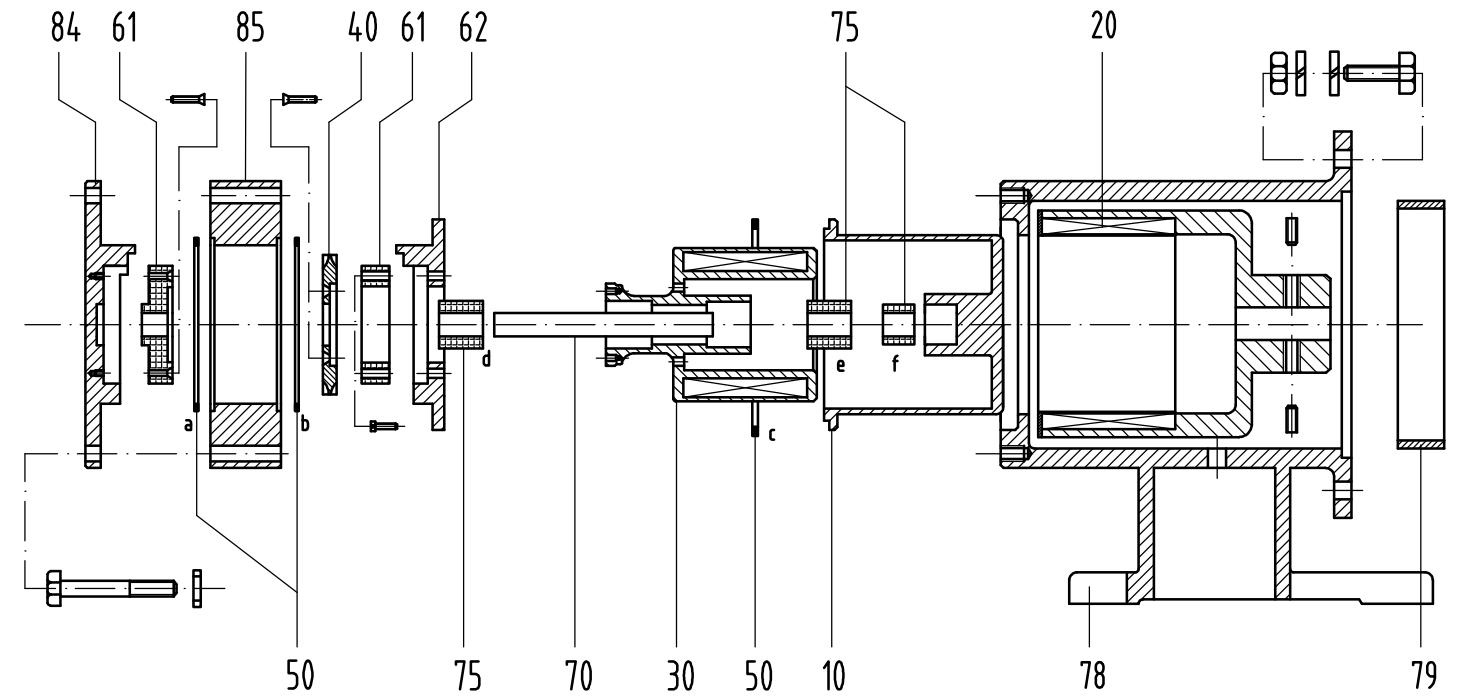
C

D



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

THREAD UNI ISO 228/1



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)	/	

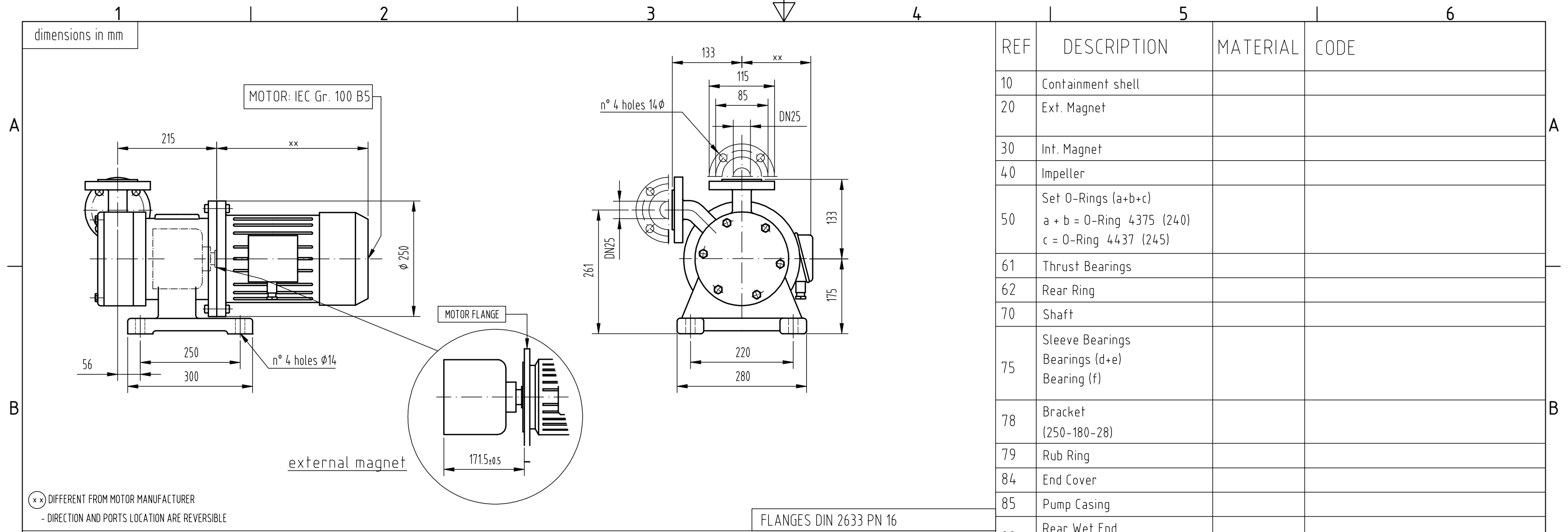


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Baureihe / Series:	MTA
Typ / Type:	MTA 78 SSR
Motor:	IEC 100 B5

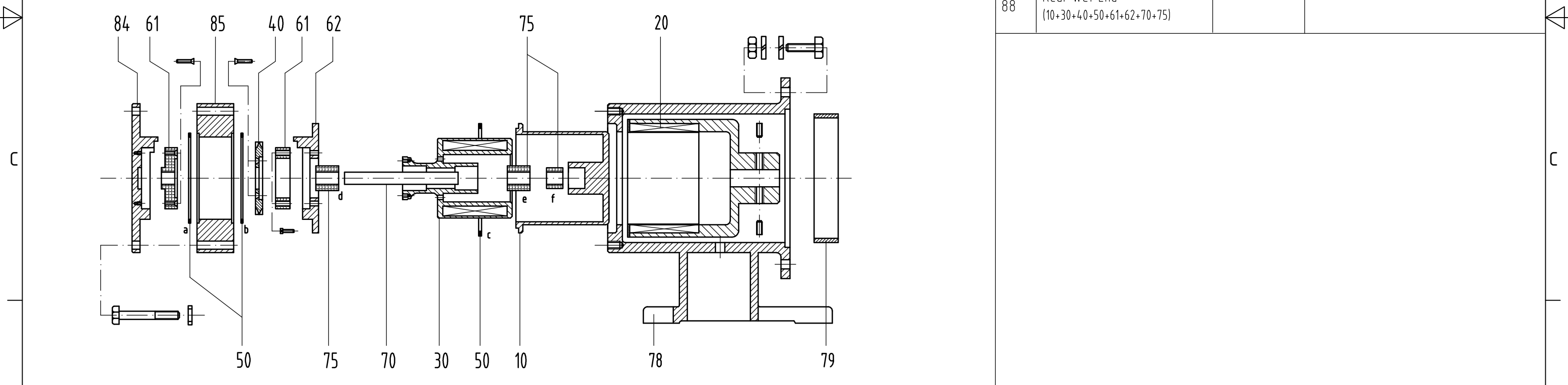
1 2 3 4 5 6

dimensions in mm



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

FLANGES DIN 2633 PN 16

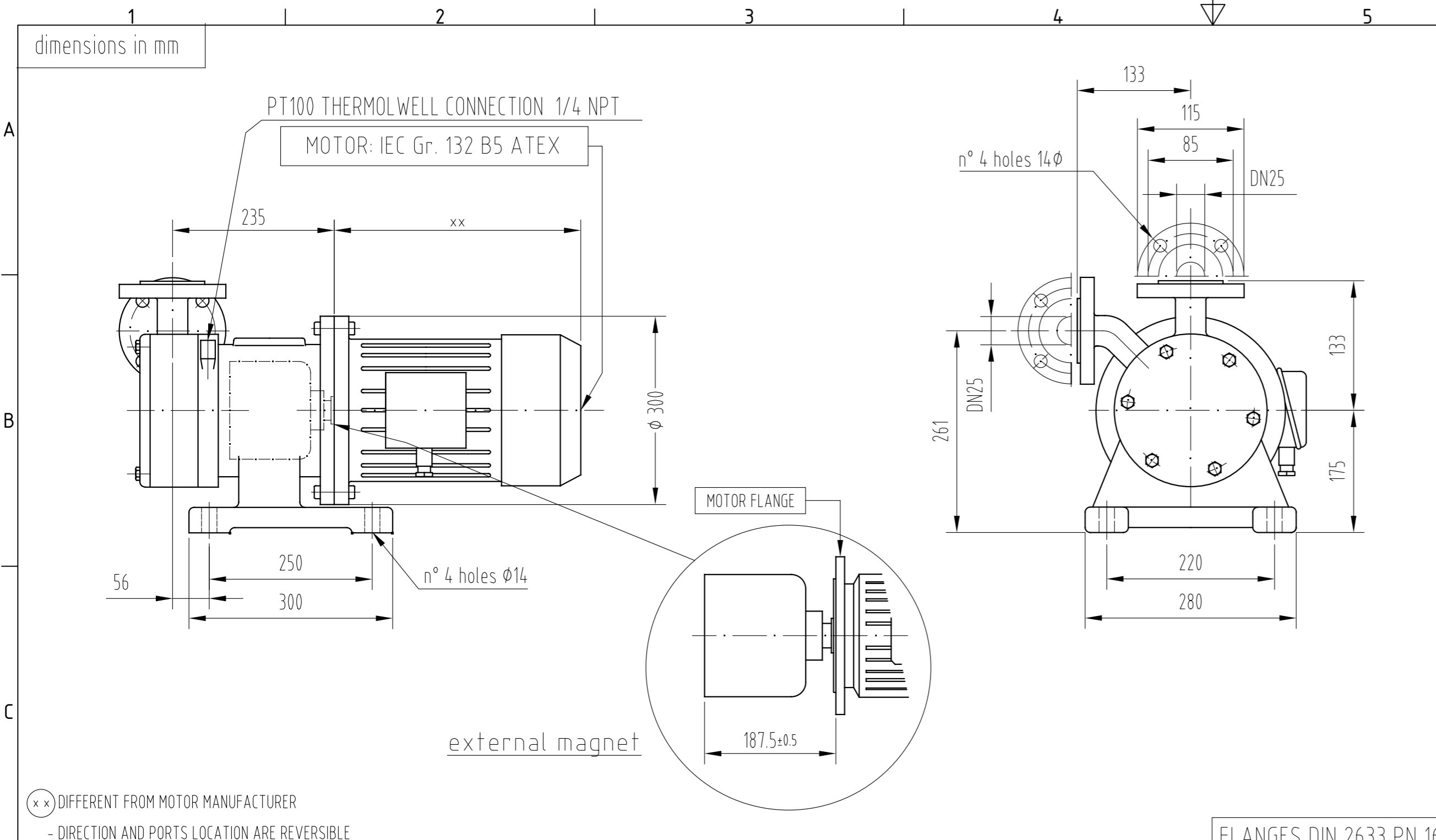


REF	DESCRIPTION	MATERIAL	CODE
10	Containment shell		
20	Ext. Magnet		
30	Int. Magnet		
40	Impeller		
50	Set O-Rings (a+b+c) a + b = O-Ring 4375 (240) c = O-Ring 4437 (245)		
61	Thrust Bearings		
62	Rear Ring		
70	Shaft		
75	Sleeve Bearings Bearings (d+e) Bearing (f)		
78	Bracket (250-180-28)		
79	Rub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



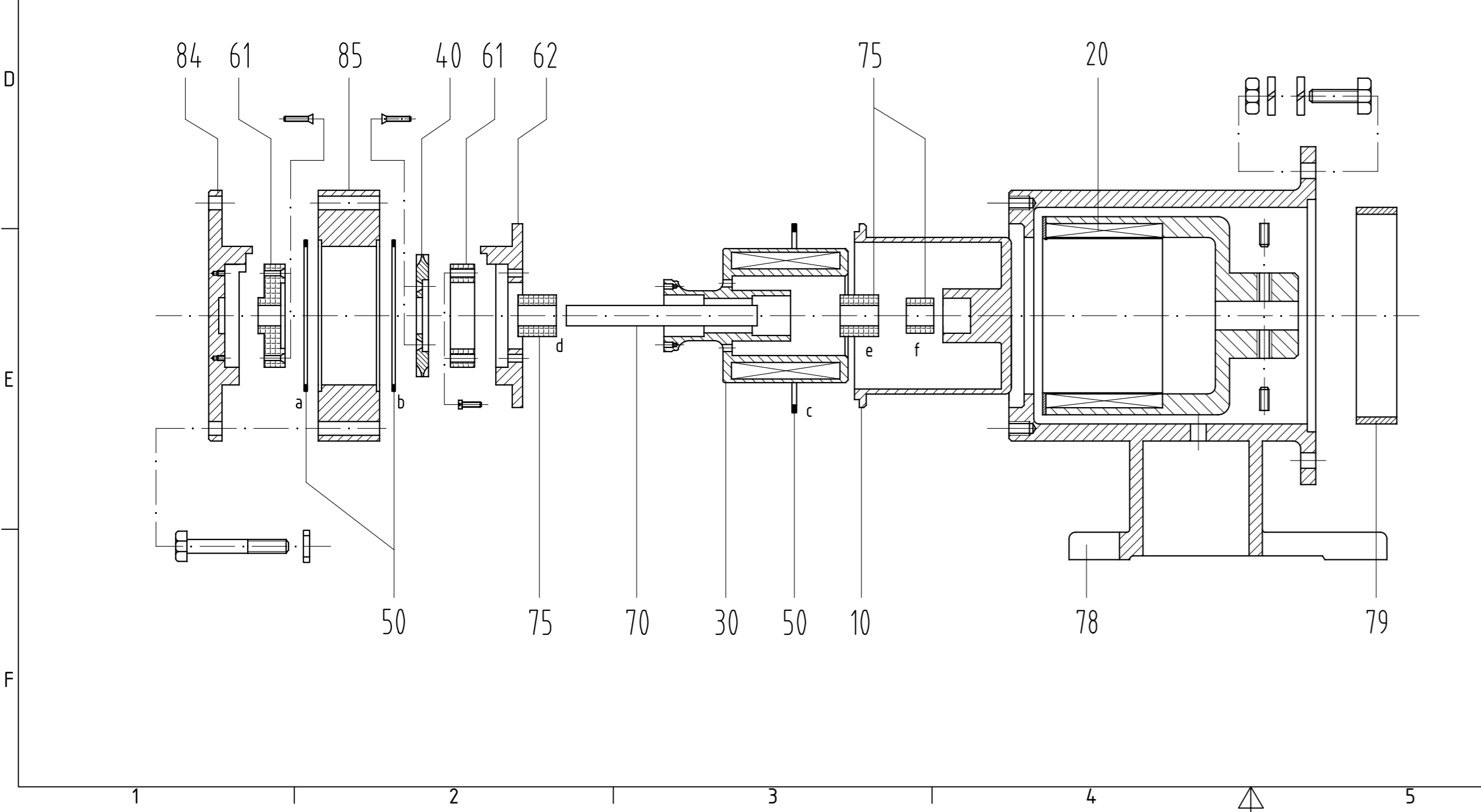
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 D-35394 Gießen
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Baureihe / Series:	MTA
Typ / Type:	MTA 78 SSF
Motor:	IEC 100/112 B5



⊗ 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 4387 (241) c = O-Ring 4437 (245)	FEP	
61	Thrust Bearings	Pcarbon	
62	Rear Ring	SS316L	
70	Shaft	SIC	
75	Sleeve Bearings Bearings (d+e) Bearing (f)	SIC SS316	
78	Bracket (300-250-38)	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)	/	



Alle Angaben unverbindlich, technische Änderungen vorbehalten! Technical data not binding and subject to change!
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	MARCH PUMPEN GmbH & Co.KG Rätthausstraße 2 D-35394 Gießen info@march-pumpen.com www.march-pumpen.com			Allgemeintoleranzen nach DIN ISO 2768-m Alle Kanten gratfrei	
	Gezeichnet: 05.04.2019 Kontrolliert: Norm:	Datum: 05.04.2019 Name: Lach		MAG DRIVE TURBINE PUMPS MTA 1011 SSF IEC132	
Status	Änderungen	Datum	Name		

