


Magnetically Driven Centrifugal Pump MAMB-U

hermetically sealed · thermoplastic lined cast steel spiral casing



Technical data

Flow rate (2900 rpm)	up to 100 m ³ /h
Flow rate (3500 rpm)	up to 108 m ³ /h
Head (2900 rpm)	up to 55 m
Head (3500 rpm)	up to 78 m
Materials limits of use	ETFE-CF up to 95°C
Pressure socket nominal width	DN 32 to DN 65
Drive capacity	5.5 to 18.5 kW
Explosion protection (ATEX)	Unit group II
	Unit category 2
	Temperature class T6

Design

- horizontal, single-stage, hermetically sealed centrifugal pump with magnetic coupling

Advantage

- leak-free and emission-free due to design without shaft seal
- corrosion resistant ETFE-CF lining
- robust cast steel casing for absorbing the forces generated by the external pipework
- high degree of efficiency due to rare earth magnets with high energy density, no demagnetization possible

Application

- chemical plant manufacture
- water treatment
- electroplating industry
- environmental technology
- processing technology



Utilisation

- For transportation of neutral, aggressive, crystallizing, ground water contaminating, toxic and/or explosive acids, alkalines or solution mixtures free of solids provided that the components getting in contact with the medium are resistant at operating temperature according to the ASV resistance guide

Fluid viscosity

- max. 160 mPas (cP)

Fluid density

- up to 1.9 kg/dm³

Connection

- flange according to DIN 2501 PN10/16

Examinations

- DIN EN ISO 9906

Performance data

- see characteristic curves

Materials

- spiral casing ETFE-CF
- impeller ETFE-CF
- sliding bearings: carbon or SSiC

Metallic components

- protected against corrosion by multiple coats of high-quality 2-component protection lacquer

Motor voltage

- 400/690 V, 50/60 Hz
- 380/420 V Δ
- 660/725 V y, 50 Hz

Type of protection

- IP 55

Accessories

- ASV pump monitor
- self-priming container for self-priming

Design

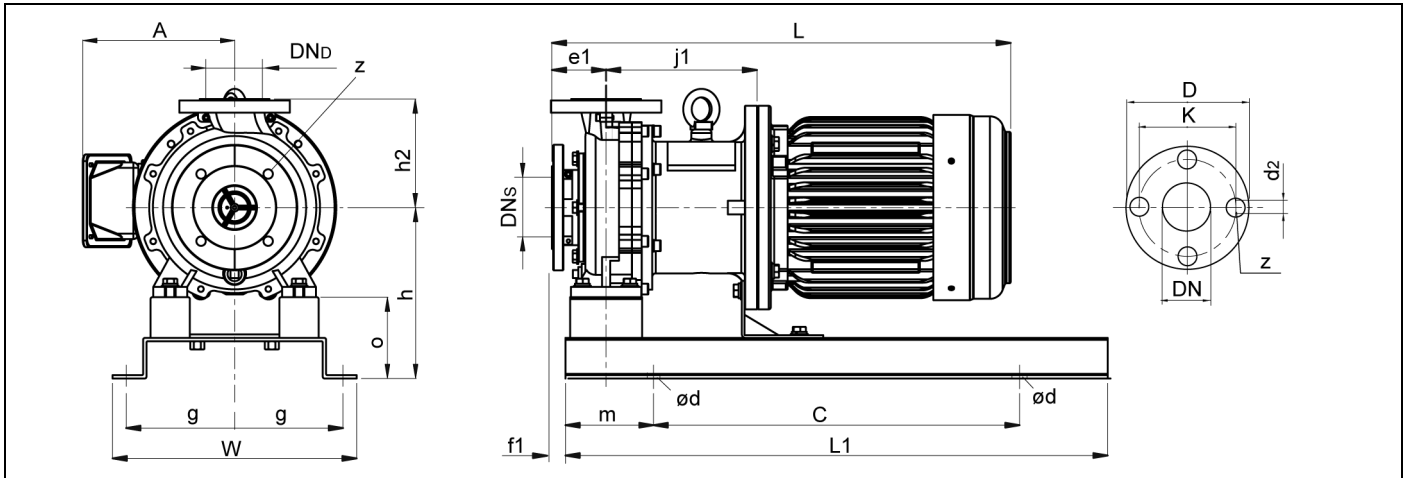
- ASV magnetically driven pumps are horizontal, normal priming, sealless centrifugal pumps.
- They are used as delivery and process pumps.
- The fluid to be conveyed is separated from the atmosphere by the stationary rear cover.
- The power from the drive is transmitted to the impeller by permanent magnets which are arranged on the inside (liquid-tight encapsulated) and outside of the rear cover and magnetically coupled to each other by their magnetic field.
- The high coupling efficiency is ensured by the nonconductive rear cover. The fluid to be conveyed is not heated up.
- No shaft lead-through from the impeller to the atmosphere and/or drive shaft is required - the magnetically driven pumps are hermetically sealed, leak-free and low maintenance.
- The pumps are also suitable for fluids which must

not come into contact with the atmosphere.

- All pump components coming into contact with the fluid are metal-free, excluding the risk of fluid oxidation.

Dimensions

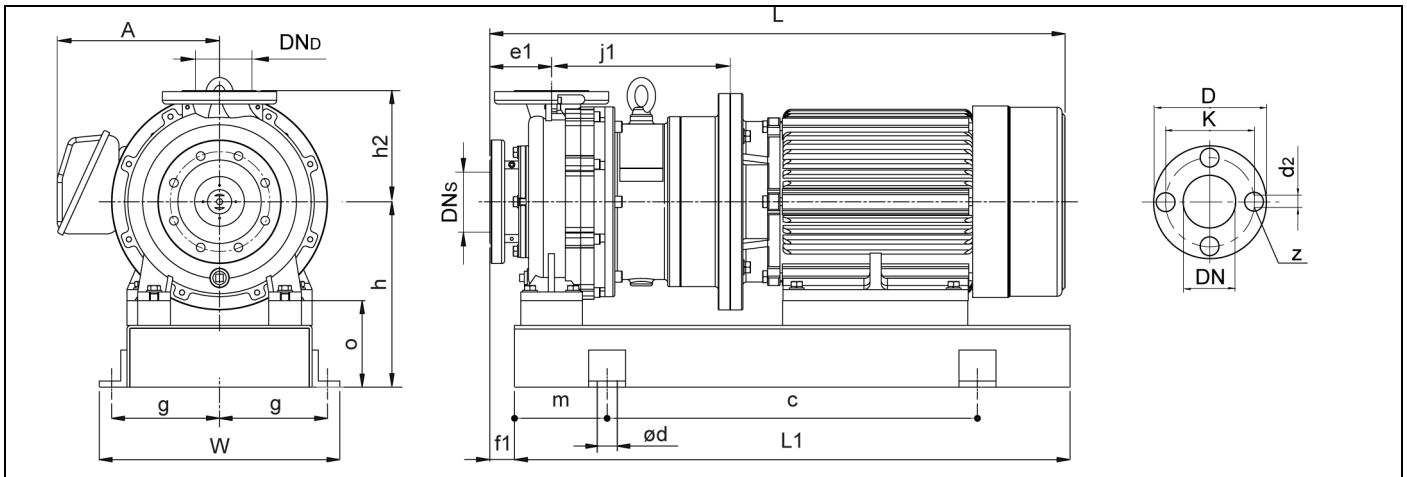
MAMB-U 50x32-200/MAMB-U 65x50-160



type		DN _S	DN _D	ød	e1	A	W	g	f1	h	h2	o	L	L1	m
MAMB-U 50x32-200	5.50 kW	50	32	18	80	224	360	160	20	280	180	120	679	800	130
MAMB-U 50x32-200	7.50 kW	50	32	18	80	224	360	160	20	280	180	120	679	800	130
MAMB-U 65x50-160	5.50 kW	65	50	18	80	224	360	160	20	252	160	120	677	800	130
MAMB-U 65x50-160	7.50 kW	65	50	18	80	224	360	160	20	252	160	120	677	800	130

type		suction side							pressure side					weight (kg)
		C	j1	DN _S	D _S	d2 _S	k1 _S	z _S	DN _D	D _D	d2 _D	k1 _D	z _D	
MAMB-U 50x32-200	5.50 kW	540	225	50	165	18	125	4	32	140	18	100	4	134.5
MAMB-U 50x32-200	7.50 kW	540	225	50	165	18	125	4	32	140	18	100	4	139.5
MAMB-U 65x50-160	5.50 kW	540	223	65	185	18	145	4	50	165	18	125	4	125.0
MAMB-U 65x50-160	7.50 kW	540	223	65	185	18	145	4	50	165	18	125	4	130.0

MAMB-U 65x40-200/MAMB-U 80x65-160

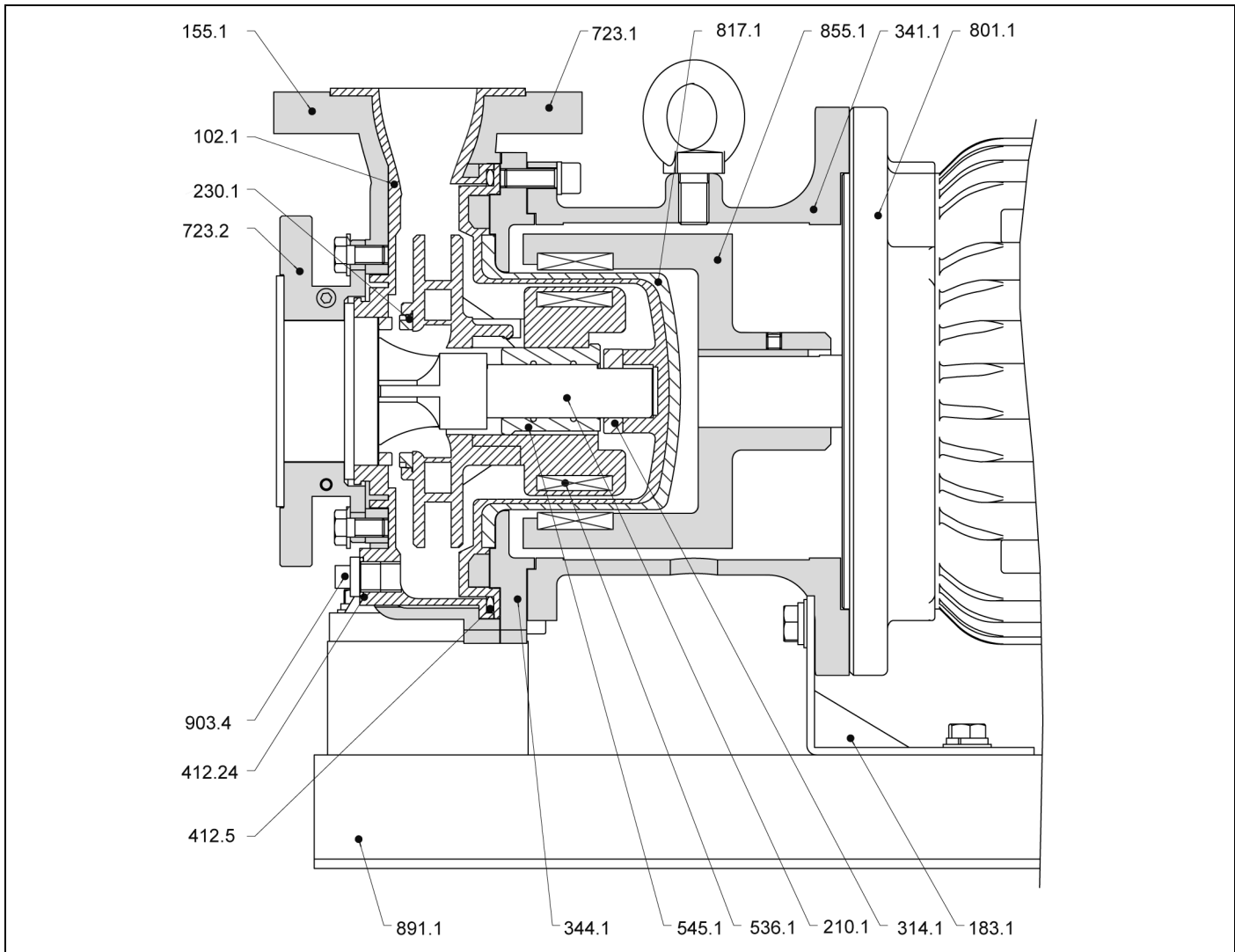


type		DN _S	DN _D	ød	e1	A	W	g	f1	h	h2	o	L	L1	m
MAMB-U 65x40-200	11.0 kW	65	40	20	100	263	390	175	40	300	180	140	881	900	150
MAMB-U 65x40-200	15.0 kW	65	40	20	100	263	390	175	40	300	180	140	881	900	150
MAMB-U 65x40-200	18.5 kW	65	40	20	100	263	390	175	40	300	180	140	925	900	150
MAMB-U 80x65-160	11.0 kW	80	65	20	100	263	390	175	40	300	180	140	890	900	150
MAMB-U 80x65-160	15.0 kW	80	65	20	100	263	390	175	40	300	180	140	890	900	150
MAMB-U 80x65-160	18.5 kW	80	65	20	100	263	390	175	40	300	180	140	934	900	150

type		suction side							pressure side					weight (kg)
		C	j1	DN _S	D _S	d2 _S	k1 _S	z _S	DN _D	D _D	d2 _D	k1 _D	z _D	
MAMB-U 65x40-200	11.0 kW	600	284	65	185	18	145	4	40	150	18	110	4	224.0
MAMB-U 65x40-200	15.0 kW	600	284	65	185	18	145	4	40	150	18	110	4	242.0
MAMB-U 65x40-200	18.5 kW	600	284	65	185	18	145	4	40	150	18	110	4	255.0
MAMB-U 80x65-160	11.0 kW	600	291	80	200	18	160	8	65	185	18	145	4	230.0
MAMB-U 80x65-160	15.0 kW	600	291	80	200	18	160	8	65	185	18	145	4	248.0
MAMB-U 80x65-160	18.5 kW	600	291	80	200	18	160	8	65	185	18	145	4	262.0

Sectional drawing and designation

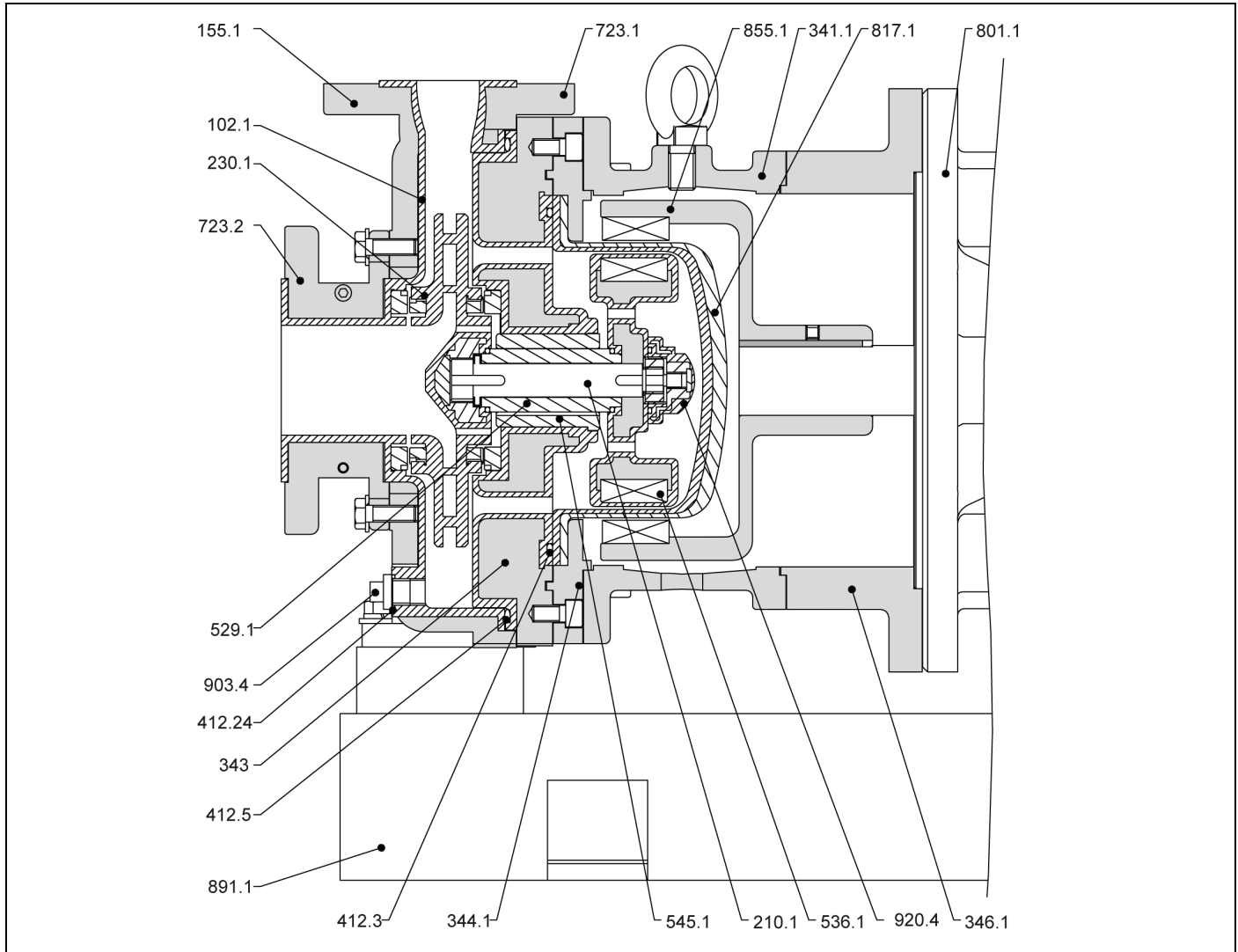
MAMB-U 50x32-200 / MAMB-U 65x50-160



item	designation
102.1	spiral casing
155.1	reinforced casing
183.1	support foot
210.1	pump axis
230.1	impeller
314.1	axial bearing, rear
341.1	drive lantern
344.1	reinforced casing
412.5	O-ring
412.24	O-ring
536.1	impeller magnet
545.1	bearing bush
723.1	pressure flange connection
723.2	suction flange connection
801.1	motor
817.1	rear cover
855.1	bell housing
891.1	base plate
903.4	plug

Sectional drawing and designation

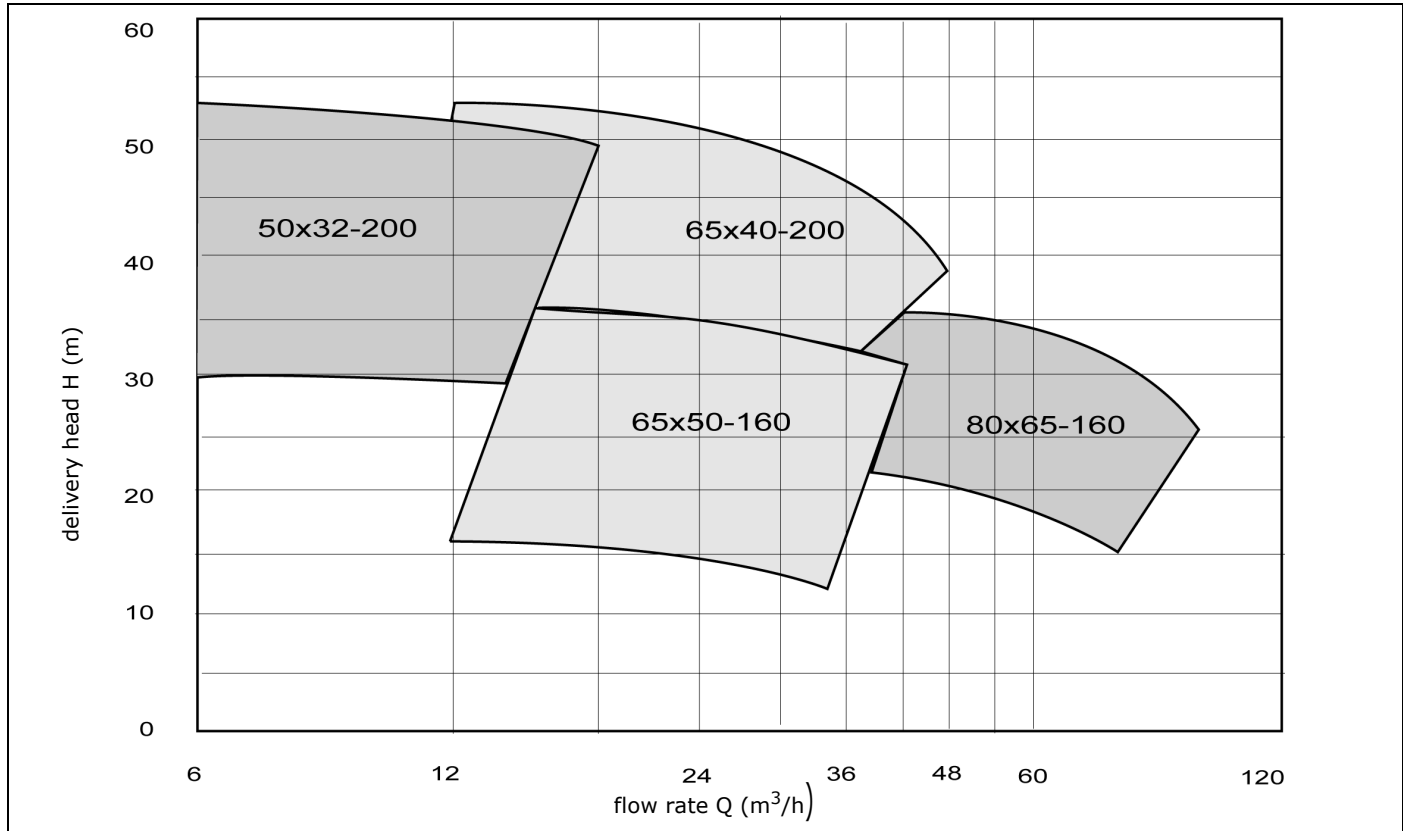
MAMB-U 65x40-200 / MAMB-U 80x65-160



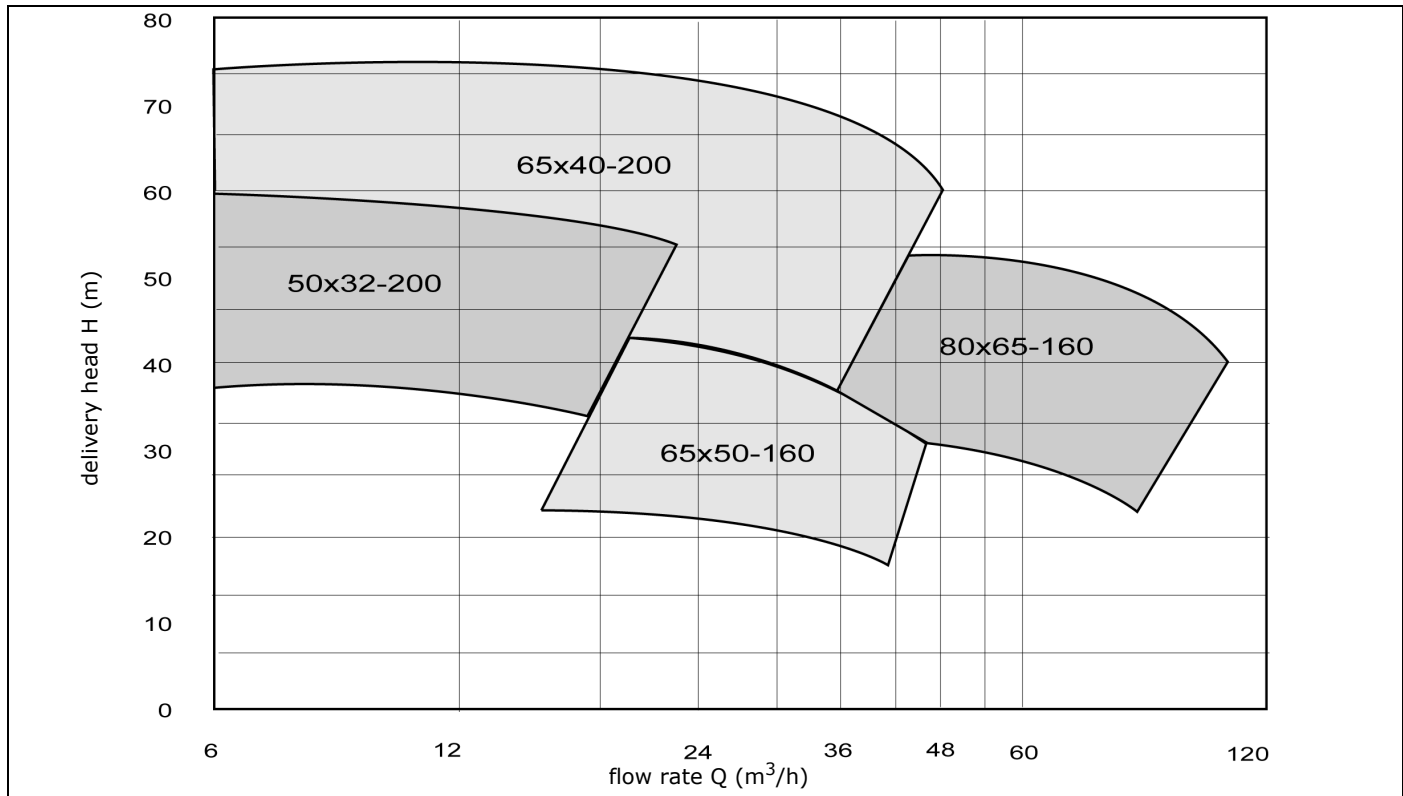
item	designation	item	designation
102.1	spiral casing	723.2	suction flange casing
155.1	reinforced casing	801.1	motor
210.1	pump shaft	817.1	rear cover
230.1	impeller	855.1	bell housing
341.1	drive lantern	891.1	base plate
343	sealing flange	903.4	plug
344.1	reinforced casing	920.4	shaft nut
346.1	wafer type flange		
412.3	O-ring		
412.5	O-ring		
412.24	O-ring		
524.1	shaft protection sleeve		
536.1	impeller magnet		
545.1	bearing bush		
723.1	pressure flange casing		

Characteristic diagram for MAMB-U

2900 rpm, 50 Hz


Characteristic diagram for MAMB-U

3500 rpm, 60 Hz



All rights for technical modifications withheld