

# Magnetically driven Centrifugal Pump MAMB

hermetically tight · spiral casing made of cast steel with plastic lining

## Size

- 50x32-200 up to 80x65-160

## Capacity

- 18 up to 105 m<sup>3</sup>/h

## Head

- up to 54 m

## Density

- up to 1,9 kg/dm<sup>3</sup>

## Operating temperature

- +5 °C up to +90 °C

## Connection

- according to EN 22 858, ISO 2858

## Advantages

- leakage- and emission-free due to construction of shaft without sealings
- corrosion-resistant lining made of PVDF or ETFE
- solid cast steel casing for absorption of external pipeline forces
- high degree of efficiency by rare-earth magnets with high energy density, no demagnetisation possible

## Application

- chemical plants
- water treatment
- galvanotechnics
- environmental technology
- processing technology

## Utilisation

- for conveying 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

## Examinations

- DIN EN ISO 9906



## Performance data

- see characteristic curves

## Materials

- casing cast steel (corrosion-resistant)
- lining PVDF or ETFE
- impeller PVDF or ETFE
- impeller shaft SSiC
- sliding bearings SSiC
- O-rings EPDM, PTFE or FPM

## Motor power

- depending on application from 5,5 to 18,5 kW

## Motor voltage

- 230/400 V 50/60 Hz
- 400/690 V 50/60 Hz

## Protection

- IP 55

## Special execution

- self-priming up to 4 m in combination with the ASV self-priming tank



EX protection on request

## General

ASV magnet pumps are horizontal, not self-priming and sealingless centrifugal pumps. They are used as feed and process pumps.

Pumped media and atmosphere are separated by the stationary rear cover.

The power transmission from the drive to the impeller is made via permanent magnets. These are outside and inside the rear cover (liquid-tight encapsulated) and actuated by their magnetic field.

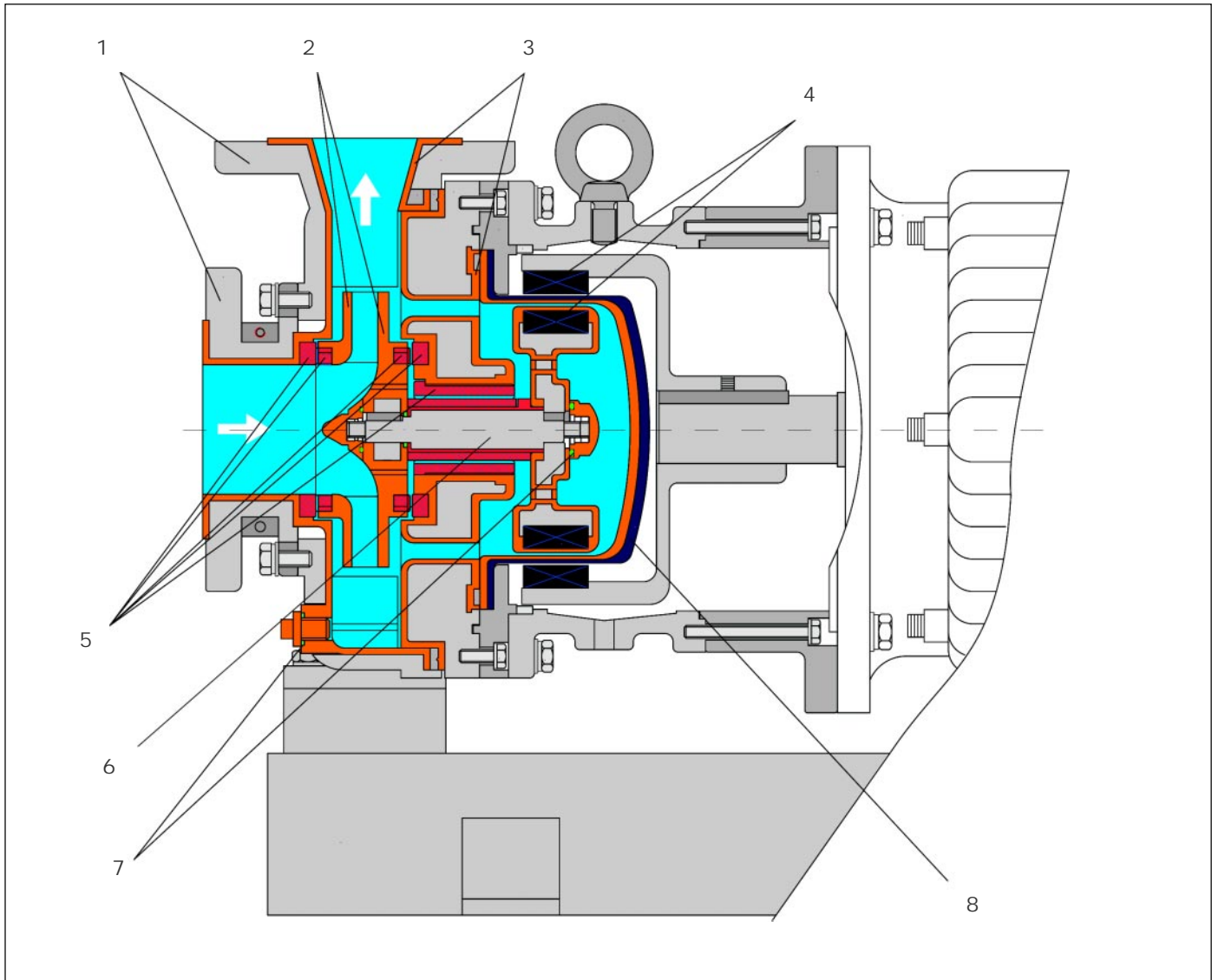
The high coupling efficiency is realised by the non-conductive rear cover.

A shaft exit from impeller to the atmosphere or driving shaft is needless - the magnet pumps are hermetically tight, leakage free and of low maintenance.

The pumps are even applicable for media which may not get in contact with the atmosphere.

All components getting in contact with the medium are metal free. Thus excluding media oxidation.

## Constructional design

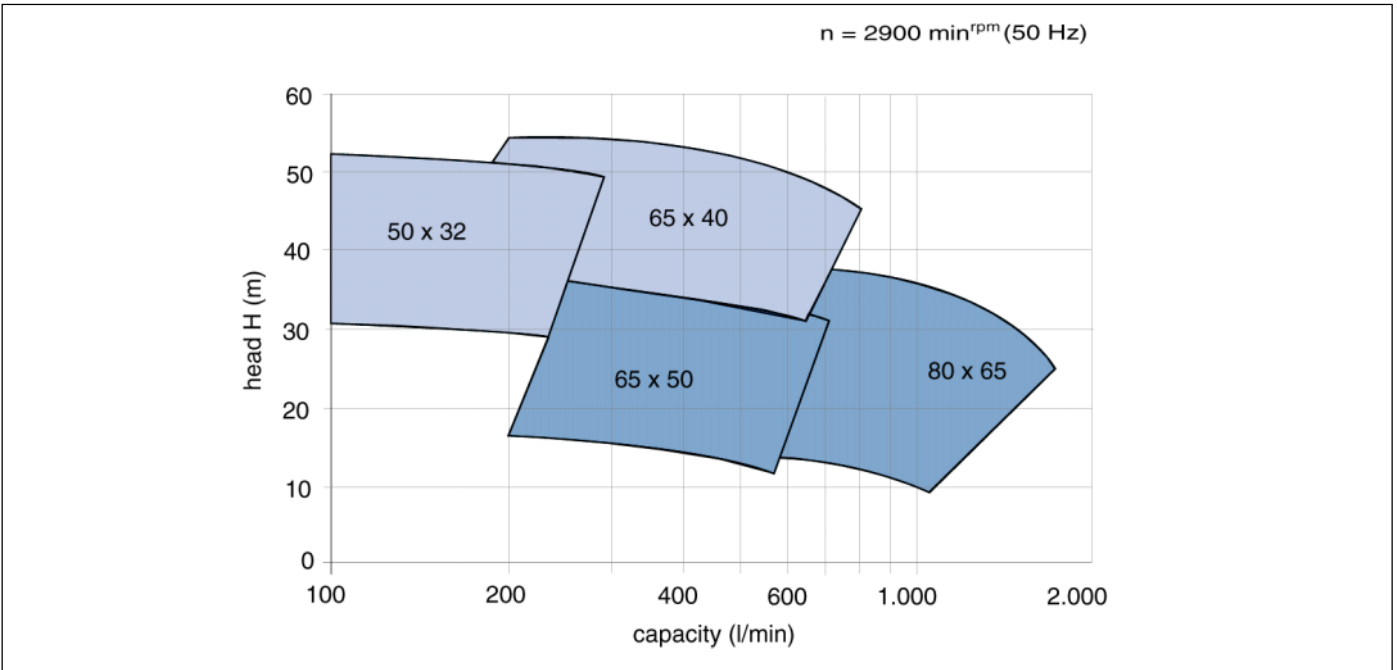


- 1 casing
- 2 impeller
- 3 corrosion-resistant lining
- 4 driving magnets

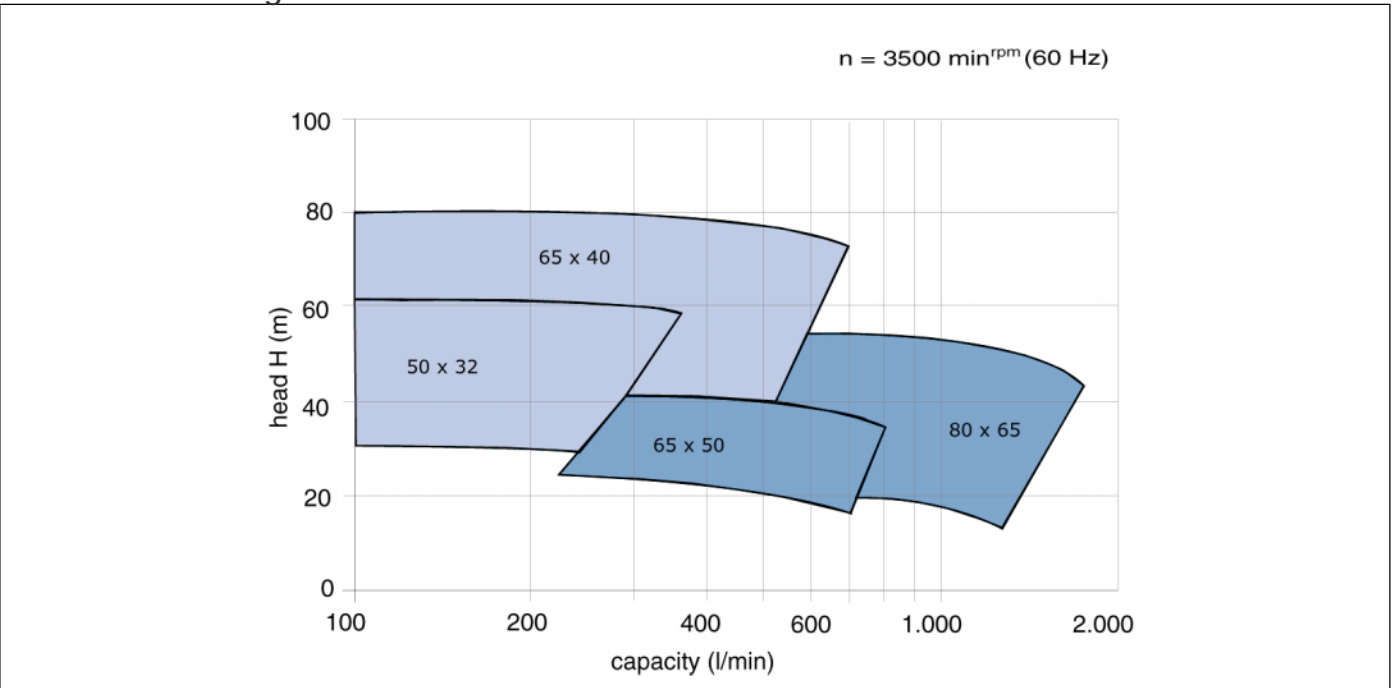
- 5 axial bearing
- 6 shaft
- 7 O-ring
- 8 rear cover

## Magnetically driven Centrifugal Pump MAMB

### Characteristic diagrams MAMB 50 Hz



### Characteristic diagrams MAMB 60Hz



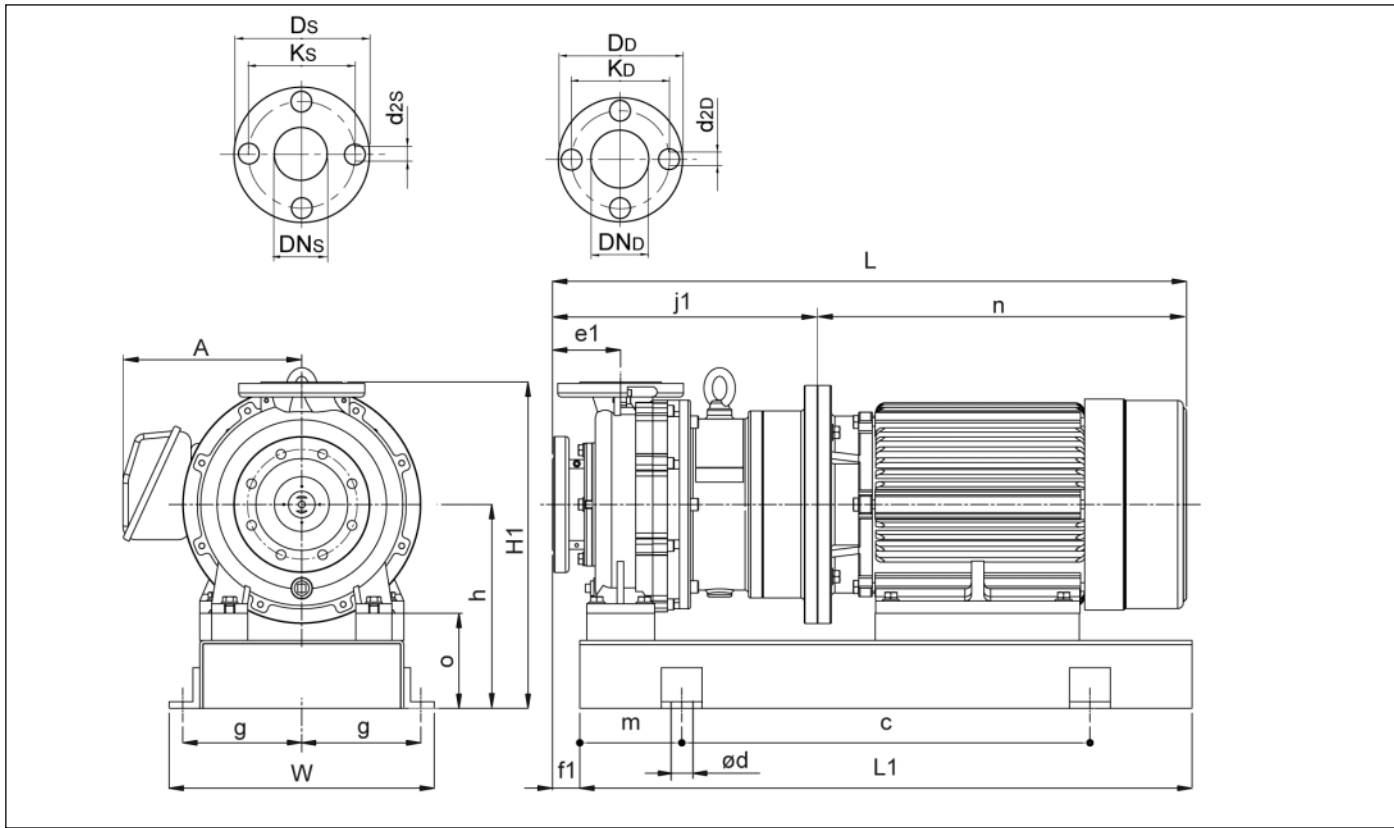
### Weights

type	power	weight (kg)	
		pump	motor
50-32-200	5,5 kW	57,0	64,0
50-32-200	7,5 kW	57,0	70,0
65-40-200	11 kW	120,0	104,0
65-40-200	15 kW	120,0	122,0
65-40-200	18,5 kW	120,0	135,0

type	power	weight (kg)	
		pump	motor
65-50-160	5,5 kW	60,5	64,0
65-50-160	7,5 kW	60,5	70,0
80-65-160	11 kW	126,0	104,0
80-65-160	15 kW	126,0	122,0
80-65-160	18,5 kW	126,0	135,0

# Magnetically driven Centrifugal Pump MAMB

Dimensions (mm)



type	DNS	DND	e1	A	W	2g	f1	j1	H1	h	o	L	L1	m
50-32-200 5,5kW	50	32	80	223	360	320	20	296	460	280	120	678	800	130
50-32-200 7,5kW	50	32	80	223	360	320	20	296	460	280	120	678	800	130
65-40-200 11kW	65	40	100	261	390	350	34	389	480	320	140	882	900	150
65-40-200 15kW	65	40	100	261	390	350	34	389	480	320	140	882	900	150
65-40-200 18,5kW	65	40	100	261	390	350	34	389	480	320	140	882	900	150
65-50-160 5,5kW	65	50	80	223	360	320	20	343	412	252	120	725	800	130
65-50-160 7,5kW	65	50	80	223	360	320	20	343	412	252	120	725	800	130
80-65-160 11kW	80	65	100	261	390	350	40	389	480	320	140	882	900	150
80-65-160 15kW	80	65	100	261	390	350	40	389	480	320	140	882	900	150
80-65-160 18,5kW	80	65	100	261	390	350	40	389	480	320	140	882	900	150

type	suction side					pressure side							
	c	n	d	DNS	DS	KS	d2S	ns	DND	Dd	Kd	d2D	nD
50-32-200 5,5kW	540	382	18	50	165	125	18	4	32	140	100	18	4
50-32-200 7,5kW	540	382	18	50	165	125	18	4	32	140	100	18	4
65-40-200 11kW	600	493	20	65	185	145	18	4	40	150	110	18	4
65-40-200 15kW	600	493	20	65	185	145	18	4	40	150	110	18	4
65-40-200 18,5kW	600	493	20	65	185	145	18	4	40	150	110	18	4
65-50-160 5,5kW	540	382	18	65	185	145	18	4	50	165	120	18	4
65-50-160 7,5kW	540	382	18	65	185	145	18	4	50	165	120	18	4
80-65-160 11kW	600	493	20	80	200	160	18	8	65	185	145	18	4
80-65-160 15kW	600	493	20	80	200	160	18	8	65	185	145	18	4
80-65-160 18,5kW	600	493	20	80	200	160	18	8	65	185	145	18	4

Technical alterations excepted