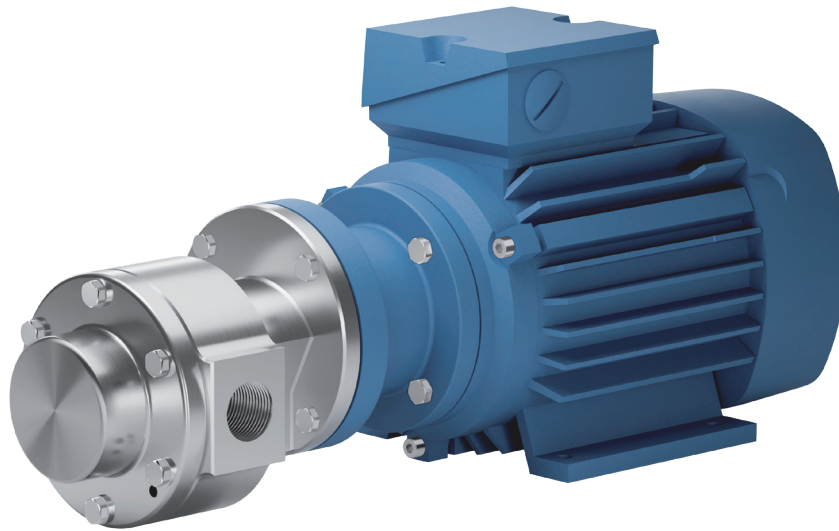




Self-priming Stainless steel gear-pumps with electric motor.
Suction- and pressure-connections Whitworth pipe threads - opposite 180°.

E/FLM Pumps

with stainless-steel-gears (Pumps are completely painted).

E/FLM -PEEK Pumps

Gears made of PEEK (Polyetheretherketon).

Applications

The Stainless-steel electric gear-Pumps for Industrial application: Dosing-systems, coolant feed, Heat transfer, test bench, mechanical engineering and more.

Liquids

Gear-Pumps Series E/FLM for special and corrosive liquids, Emulsions, oils and fats. Non-explosive Liquids, not corrosive against Pump Materials, without any solids.

E/FLM Pumps for lubricating Liquids

E/FLM -PEEK Pumps also for non-lubricating Liquids

Operating conditions

Liquid temperature: up to +200°C (depending on the sealing type)

Ambient temperature from 0°C up to +40°C

Standard direction of power shaft: right.

Left or right/left rotation on inquiry

Drive

Standard: three-phase asynchronous motor

operation mode: Continuous operation S1

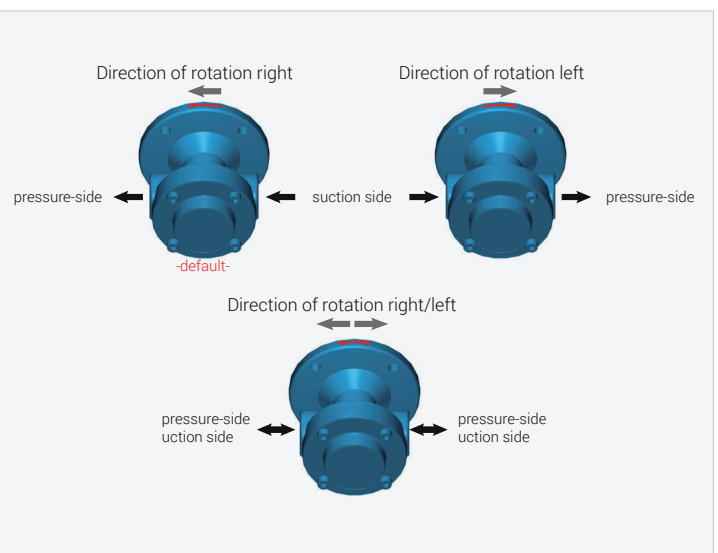
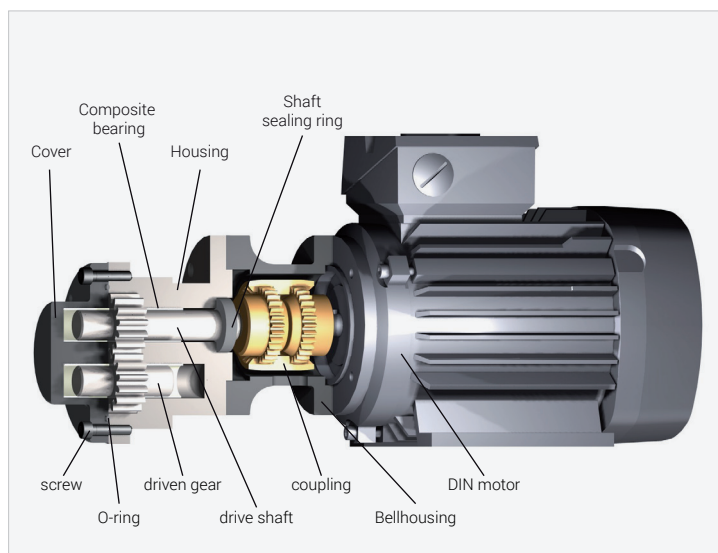
thermal class 155, protection IP 55

optional: single-phase motor, DC-motors

Materials

components	E/FLM	E/FLM PEEK
Casing and Cover	Stainless steel 1.4571	
Shaft	Stainless steel 1.4571	
Gears	Stainless steel 1.4571	PEEK (BG2 & BG3)
bearing bushes	Stainless steel - composite bearings	
Seal	Sealing Ring NBR (FPM, PTFE, GLRD, packing gland u.a.)	
mounting bracket	aluminum	

Sectional drawing



Stainless-steel electric-Gear-Pumps series E/FLM 15 to E/FLM 110

Performance ($n \approx 1450$ 1/min)

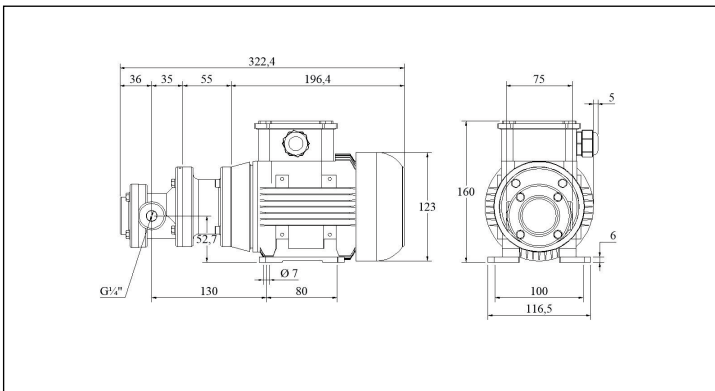
type	motor performance	pressure		pressure (bar)				
	kW	max.		5	10	15	20	30
E/FLM 15	0,12	30	Flow rate l/min	1,15	1,10	1,05	1,00	0,90
	0,18	40		1,15	1,10	1,05	1,00	0,90
E/FLM 17	0,12	20		1,60	1,55	1,50	1,40	
	0,18	40		1,60	1,55	1,50	1,40	1,30
E/FLM110	0,12	15		2,30	2,25	2,20		
	0,18	20		2,30	2,25	2,20	2,10	
	0,25	40		2,30	2,25	2,20	2,10	2,00

Valid for hydraulic oil with 35 mm²/s at 50 °C
Tolerance of capacity +/- 3%

Oil-Speed: max. 1,5 m/s suction side, max. 4,5 m/s pressure side
 special design (on request)

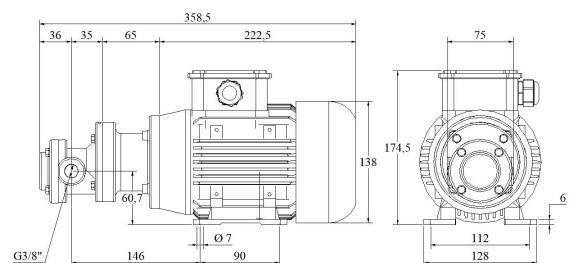
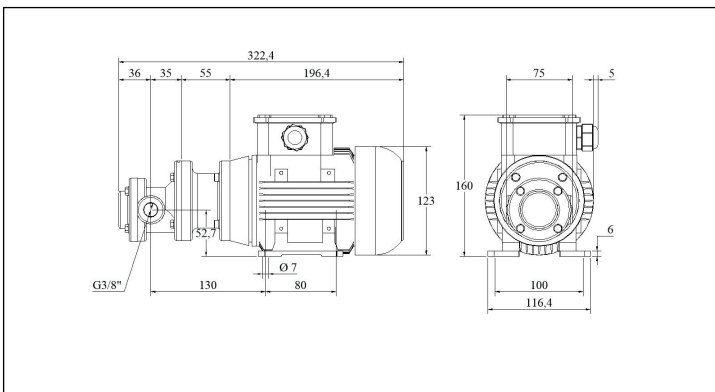
Dimensions and weight

FLM 1-017 bis FLM 17 (0,12 kW / 0,18 kW) weight: 7,2 / 7,2 kg



FLM 110 (0,12 kW / 0,18 kW) weight: 7,2 / 7,2 kg

FLM 110 (0,25 kW) weight: 9,2 kg



Performance ($n \approx 1450$ 1/min)

type	motor power kW	pressure max. bar		pressure (bar)								
				5	10	15	20	30	40	50	60	70
E/FLM 210	0,12	10	capacity l/min	3,00	2,95							
	0,18	20		3,00	2,95	2,90	2,80					
	0,25	30		3,00	2,95	2,90	2,80	2,70				
	0,37	40		3,00	2,95	2,90	2,80	2,70	2,60			
	0,55	70		3,00	2,95	2,90	2,80	2,70	2,60	2,40	2,20	2,00
E/FLM 214	0,12	10		4,50	4,45							
	0,18	15		4,50	4,45	4,40						
	0,25	20		4,50	4,45	4,40	4,30					
	0,37	30		4,50	4,45	4,40	4,30	4,20				
	0,55	40		4,50	4,45	4,40	4,30	4,20	4,10			
	0,75	60		4,50	4,45	4,40	4,30	4,20	4,10	3,90	3,70	

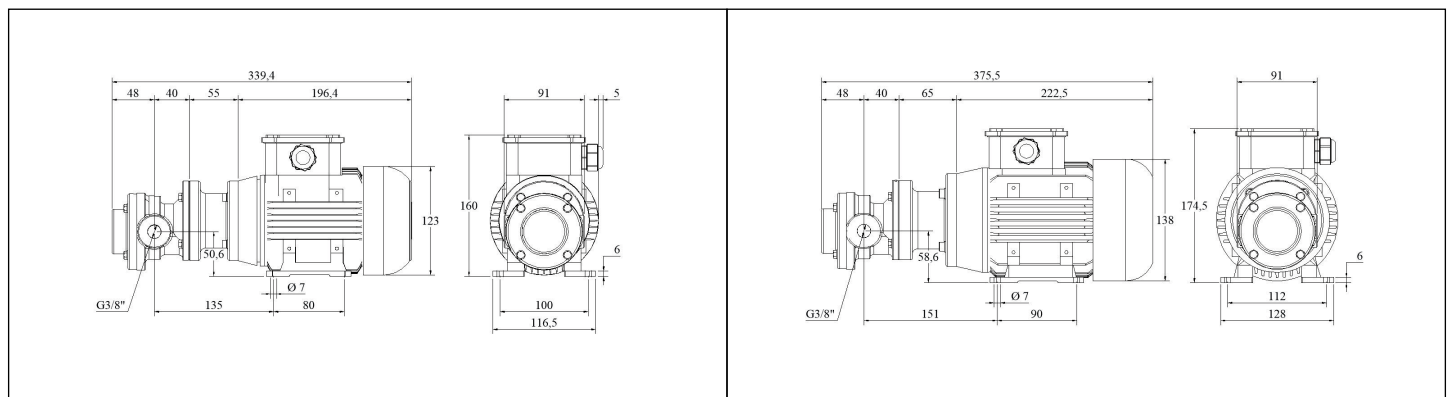
Valid for hydraulic oil with 35 mm²/s at 50 °C
Tolerance of capacity +/- 3%

Oil-Speed: max. 1,5 m/s suction side, max. 4,5 m/s pressure side
 special design (on request)

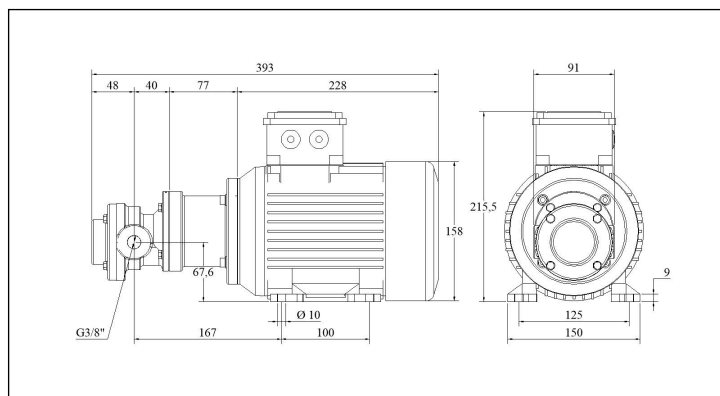
Dimensions and weight

0,12 / 0,18 kW **weight:** 8,0 / 8,0 kg

0,25 / 0,37 kW **weight:** 10,4 / 11,4 kg



0,55 / 0,75 kW **weight:** 13,5 / 15 kg



Stainless-steel electric-Gear-Pumps series E/FLM 219

Performance ($n \approx 1450$ 1/min)

type	motor power kW	pressure max. bar		pressure (bar)								
				5	10	15	20	30	40	50	60	70
E/FLM 219	0,12	5	capacity l/min	6,00								
	0,18	10		6,00	5,95							
	0,25	15		6,00	5,95	5,90						
	0,37	20		6,00	5,95	5,90	5,85					
	0,55	30		6,00	5,95	5,90	5,85	5,80				
	0,75	40		6,00	5,95	5,90	5,85	5,80	5,70			

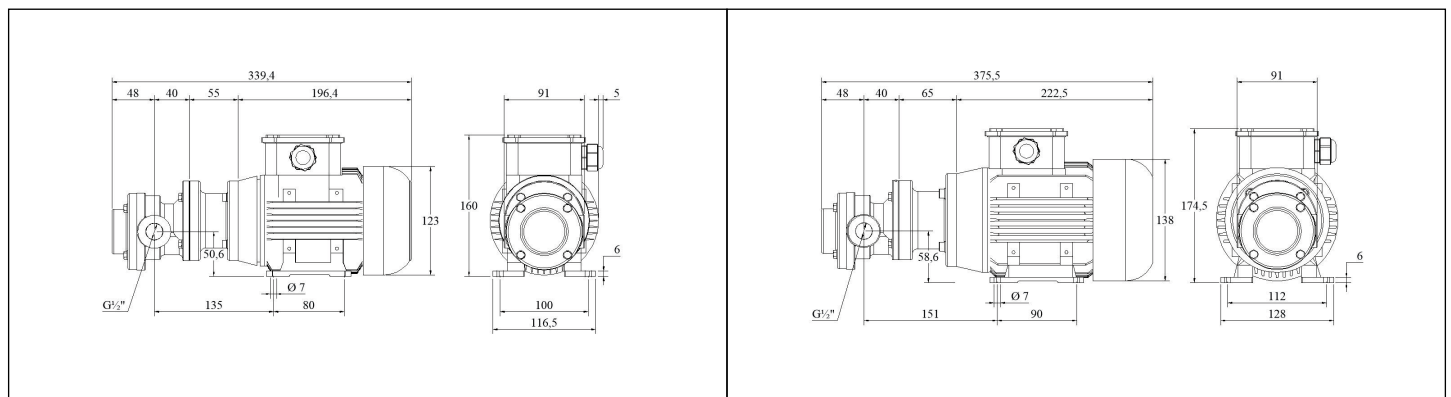
Valid for hydraulic oil with 35 mm²/s at 50 °C
Tolerance of capacity +/- 3%

Oil-Speed: max. 1,5 m/s suction side, max. 4,5 m/s pressure side
special design (on request)

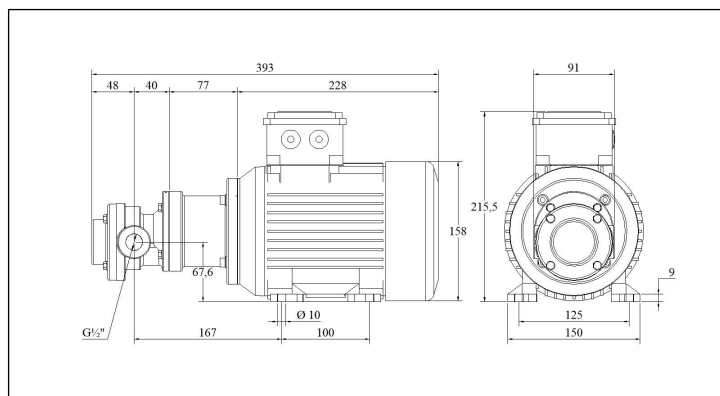
Dimensions and weight

0,12 / 0,18 kW **weight:** 8,0 / 8,0 kg

0,25 / 0,37 kW **weight:** 10,4 / 11,4 kg



0,55 / 0,75 kW **weight:** 13,5 / 15 kg



Stainless-steel electric-Gear-Pumps series E/FLM 310 to E/FLM 323

Performance ($n \approx 1450$ 1/min)

type	motor power kW	pressure max. bar		pressure (bar)									
				5	10	15	20	30	40	50	60	70	80
E/FLM 310	0,25	10	capacity l/min	7,40	7,35								
	0,37	15		7,40	7,35	7,30							
	0,55	25		7,40	7,35	7,30	7,25						
	0,75	35		7,40	7,35	7,30	7,25	7,20					
	1,1	50		7,40	7,35	7,30	7,25	7,20	7,10	7,00			
	1,5	75		7,40	7,35	7,30	7,25	7,20	7,10	7,00	6,90	6,80	6,75
E/FLM 314	0,25	8		10,2	10,15								
	0,37	10		10,2	10,15								
	0,55	15		10,2	10,15	10,1							
	0,75	25		10,2	10,15	10,1	10,0	9,90					
	1,1	35		10,2	10,15	10,1	10,0	9,90	9,70				
	1,5	50		10,2	10,15	10,1	10,0	9,90	9,70	9,40			
E/FLM 318	0,25	5		13,2									
	0,37	8		13,2	13,1								
	0,55	12		13,2	13,1	13,0							
	0,75	20		13,2	13,1	13,0	12,8						
	1,1	30		13,2	13,1	13,0	12,8	12,6					
	1,5	40		13,2	13,1	13,0	12,8	12,6	12,4				
E/FLM 323	0,25	4		16,70									
	0,37	6		16,70	16,60								
	0,55	10		16,70	16,60								
	0,75	15		16,70	16,60	16,50							
	1,1	25		16,70	16,60	16,50	16,40	16,20					
	1,5	33		16,70	16,60	16,50	16,40	16,20	16,00				

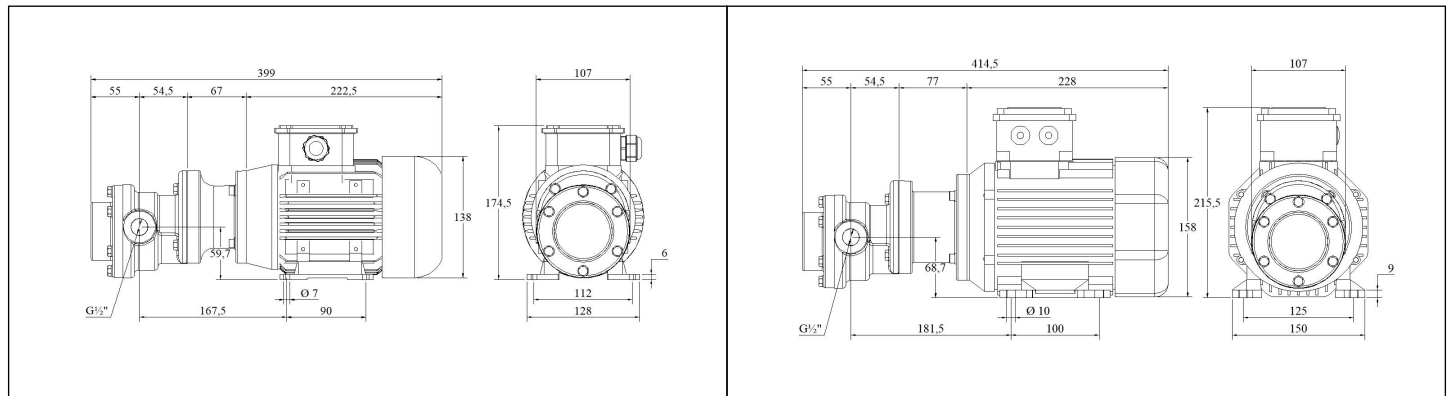
Valid for hydraulic oil with 35 mm²/s at 50 °C
Tolerance of capacity +/- 3%

Oil-Speed: max. 1,5 m/s suction side, max. 4,5 m/s pressure side
 special design (on request)

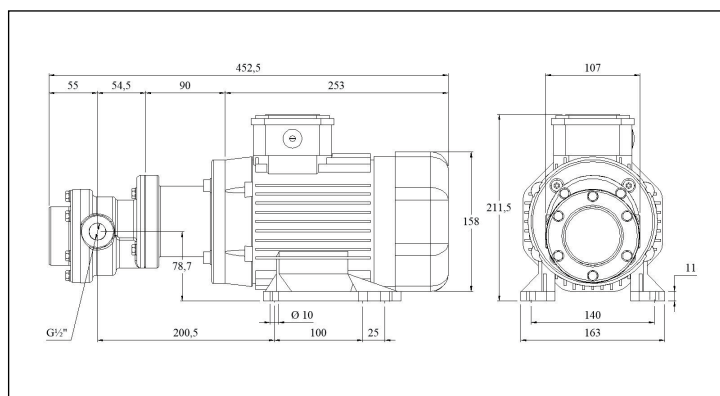
Dimensions and weight

0,25 / 0,37 kW **weight: 12,4 / 13,4 kg**

0,55 / 0,75 kW **weight: 16 / 17,5 kg**



1,1 kW **weight: 26,5 kg**



Performance (n ≈ 1450 1/min)

type	Motor power kW	pressure max. bar		pressure (bar)					
				5	10	15	20	30	40
E/FLM 328	0,37	5	capacity l/min	20,30					
	0,55	8		20,30	20,20				
	0,75	12		20,30	20,20	20,10			
	1,1	18		20,30	20,20	20,10	20,00		
	1,5	25		20,30	20,20	20,10	20,00	19,80	
E/FLM 333	0,37	4		24,10					
	0,55	6		24,10	24,00				
	0,75	10		24,10	24,00				
	1,1	15		24,10	24,00	23,90			
	1,5	20		24,10	24,00	23,90	23,80		

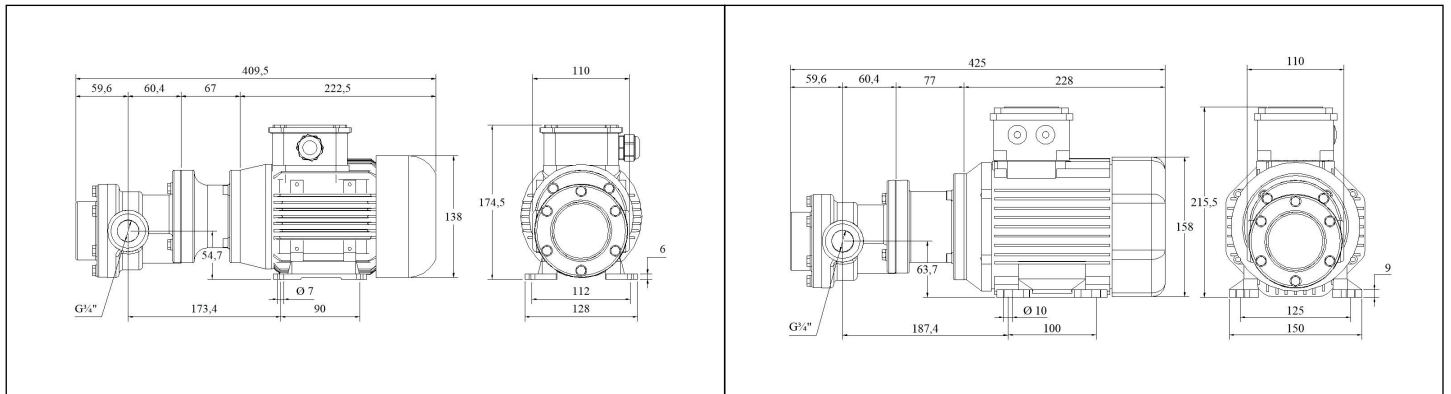
Valid for hydraulic oil with 35 mm²/s at 50 °C
Tolerance of capacity +/- 3%

Oil-Speed: max. 1,5 m/s suction side, max. 4,5 m/s pressure side
special design (on request)

Dimensions and weight

0,25 / 0,37 kW weight: 12,5 / 13,5 kg

0,55 / 0,75 kW weight: 16,2 / 17,7 kg



1,1 kW weight: 26,7 kg

