

Electric gear-pumps for mounting in tanks by flange FAM



Construction

Self-priming electric gear-pumps for mounting in tanks by flange. The pump head is mounted in the tank. The electric motor is located outside the tank. Suction- and pressureconnections Whitworth pipe threads - opposite 180°. For type FAM 5.. SAE-flange optionally.

Applications

Industrial applications, for example:
Lubrication systems, coolant feed in machine tools, heat transfer, test bench and many more.

Example of liquids suitable for transport

Pure, non-explosive liquids, not corrosive against pump materials, without any solids. The liquids to deliver, must have lubricating characteristics.

Oil, mineral oil, synthetic oil, adhesives, sealants, polymers, diesel, paints, inks and many more

Operating conditions

Liquid temperature: -10°C up to +60°C (NBR)

-40°C up to +250°C on request

Ambient temperature: -20°C up to +40°C

Operating pressure: max. 100 bar

Others on request

Drive

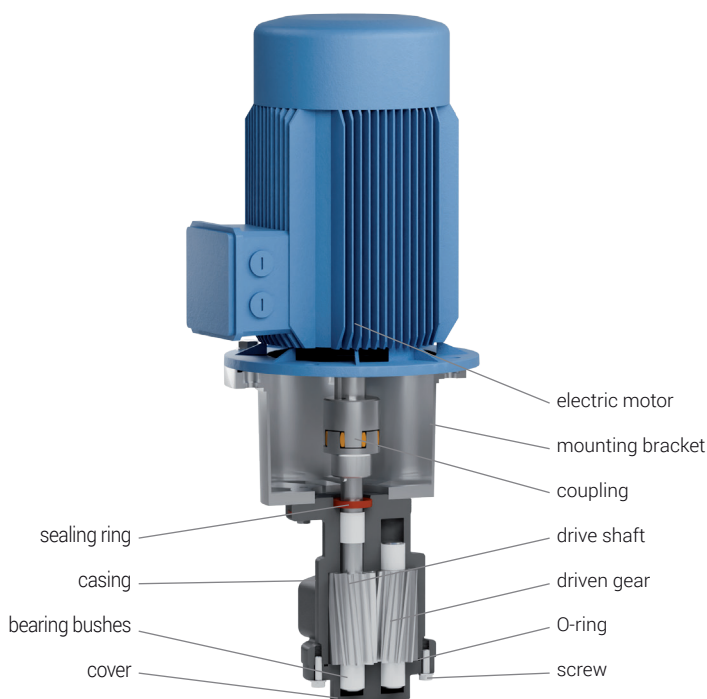
Standard: three-phase asynchronous motor

Operation mode: Continuous operation S1

thermal class 155, protection IP 55

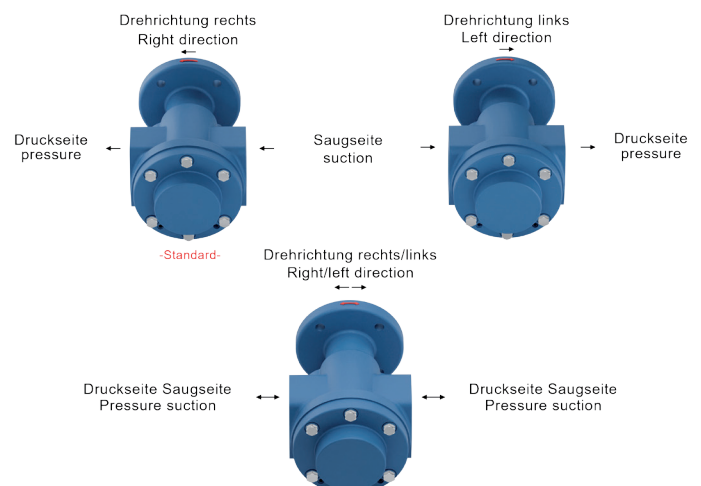
Optional: single-phase motor, DC-motors

sectional drawing

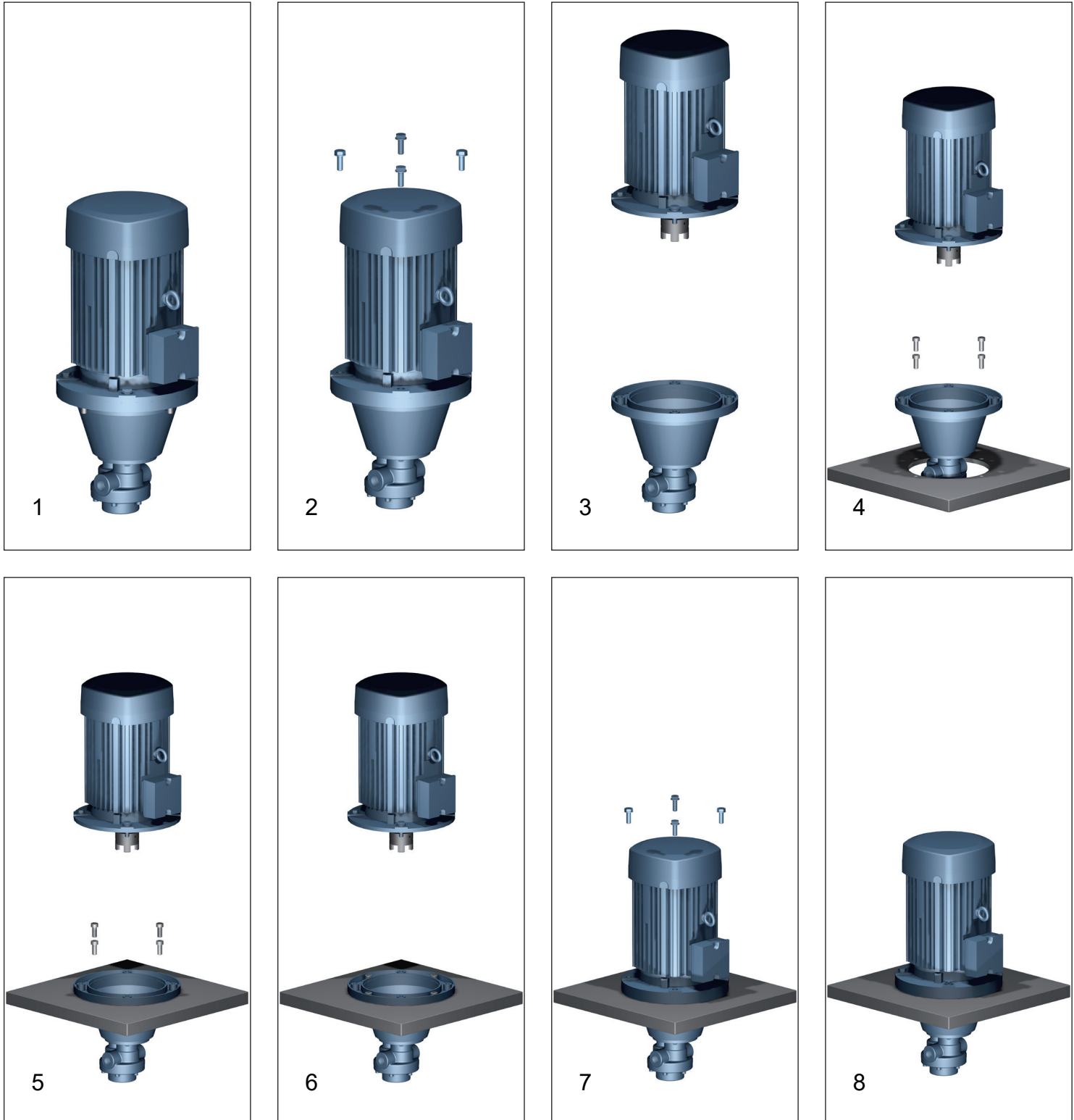


Materials

components	Material / standard	on request
casing and cover	cast iron- EN-GJL-250 (GG25)	ductile cast iron (GGG40)
shaft	steel	
gears	steel, hardened and grinded	
bearing bushes	composite bearings	
shaft seal	sealing ring NBR	FPM, PTFE, GLRD, packing gland



Installation



Electric gear-pumps for mounting in tanks by flange FAM 1-06 - FAM 110

Performance ($n \approx 1450 \text{ min}^{-1}$):

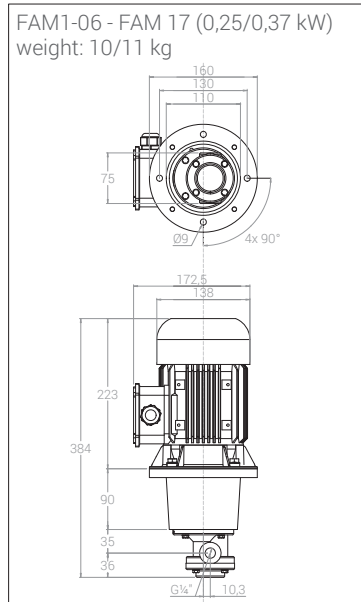
type	motor-power kW	max. pressure bar	pressure (bar)						
			5	10	15	20	30	40	50
			capacity l/min						
FAM 1-06	0,25	10	0,6	0,55					
FAM 15	0,25	50	1,15	1,1	1,05	1	0,9	0,8	0,6
FAM 17	0,25	50	1,6	1,55	1,5	1,4	1,3	1,1	0,9
FAM 110	0,25	40	2,3	2,25	2,2	2,1	2	1,8	
	0,37	50	2,3	2,25	2,2	2,1	2	1,8	1,6

Valid for hydraulic oil with $35 \text{ mm}^2/\text{s}$ at 50°C
Tolerance of capacity: $\pm 3\%$

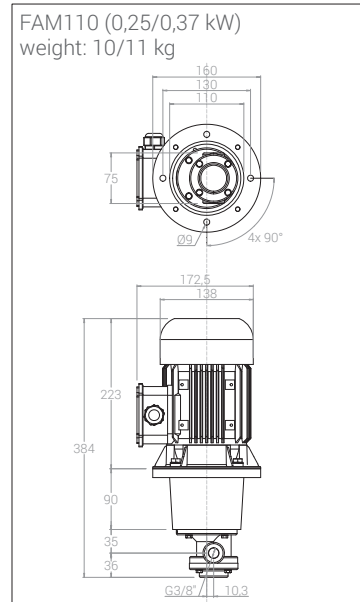
Oil-Speed: max. $1,5 \text{ m/s}$ suction side, max. $4,5 \text{ m/s}$ pressure side

Dimensions and weight

FAM 1-06 - FAM 17



FAM 110



Electric gear-pumps for mounting in tanks by flange FAM 210 - FAM 219

Performance (n ≈ 1450 min⁻¹):

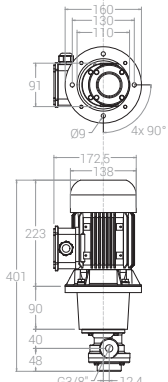
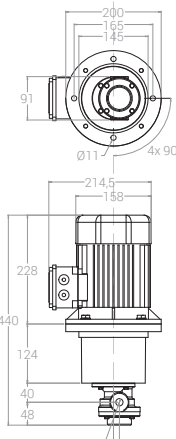
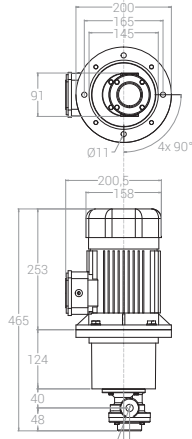
type	motor-power kW	max. pressure bar	pressure (bar)									
			5	10	15	20	30	40	50	60	70	
			capacity l/min									
FAM 214	0,25	20	4,5	4,45	4,4	4,3						
	0,37	30	4,5	4,45	4,4	4,3	4,2					
	0,55	40	4,5	4,45	4,4	4,3	4,2	4,1				
	0,75	60	4,5	4,45	4,4	4,3	4,2	4,1	3,9	3,7		
	1,1	70	4,5	4,45	4,4	4,3	4,2	4,1	3,9	3,7	3,5	
FAM 219	0,25	15	6	5,95	5,9							
	0,37	20	6	5,95	5,9	5,85						
	0,55	30	6	5,95	5,9	5,85	5,8					
	0,75	40	6	5,95	5,9	5,85	5,8	5,7				
	1,1	60	6	5,95	5,9	5,85	5,8	5,7	5,5	5,3		
	1,5	70	6	5,95	5,9	5,85	5,8	5,7	5,5	5,3	5,1	

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

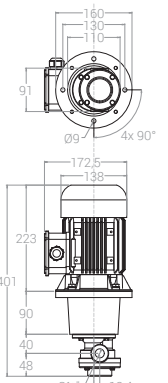
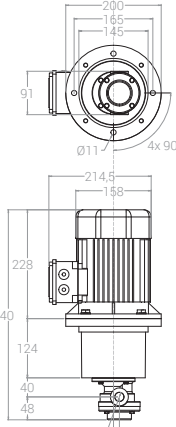
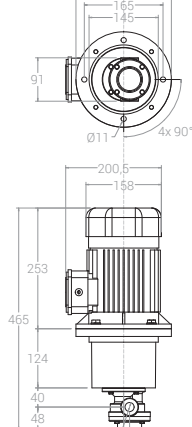
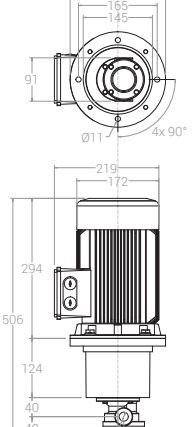
Oil-Speed: max. 1,5 m/s suction side, max. 4,5 m/s pressure side

Dimensions and weight

FAM 214

FAM214 (0,25/0,37 kW) weight: 11/12 kg 	FAM214 (0,55/0,75 kW) weight: 15/17 kg 	FAM214 (1,1 kW) weight: 19 kg 
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FAM 219

FAM219 (0,25/0,37 kW) weight: 11/12 kg 	FAM219 (0,55/0,75 kW) weight: 15/17 kg 	FAM219 (1,1 kW) weight: 19 kg 	FAM219 (1,5 kW) weight: 25 kg 
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Electric gear-pumps for mounting in tanks by flange FAM 310 - FAM 333

Performance (n ≈ 1450 min⁻¹):

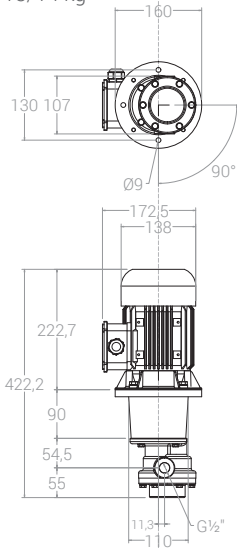
type	motor- power kW	max. pressure bar	pressure (bar)											
			5	10	15	20	30	40	50	60	70	80	90	100
			capacity l/min											
FAM 310	0,25	10	7,4	7,35										
	0,37	15	7,4	7,35	7,3									
	0,55	25	7,4	7,35	7,3	7,25	7,2							
	0,75	35	7,4	7,35	7,3	7,25	7,2	7,1						
	1,1	50	7,4	7,35	7,3	7,25	7,2	7,1	7					
	1,5	75	7,4	7,35	7,3	7,25	7,2	7,1	7	6,9	6,8	6,7		
	2,2	100	7,4	7,35	7,3	7,25	7,2	7,1	7	6,9	6,8	6,7	6,6	6,5
FAM 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	9,9							
	1,1	35	10,2	10,15	10,1	10	9,9	9,7						
	1,5	50	10,2	10,15	10,1	10	9,9	9,7	9,4					
	2,2	80	10,2	10,15	10,1	10	9,9	9,7	9,4	9,1	8,8	8,5		
3	100	10,2	10,15	10,1	10	9,9	9,7	9,4	9,1	8,8	8,5	8	7,4	
FAM 318	0,25	5	13,2											
	0,37	8	13,2	13,1										
	0,55	12	13,2	13,1	13									
	0,75	20	13,2	13,1	13	12,8								
	1,1	30	13,2	13,1	13	12,8	12,6							
	1,5	40	13,2	13,1	13	12,8	12,6	12,4						
	2,2	60	13,2	13,1	13	12,8	12,6	12,4	12,1	11,8				
	3	80	13,2	13,1	13	12,8	12,6	12,4	12,1	11,8	11,5	11,2		
	4	100	13,2	13,1	13	12,8	12,6	12,4	12,1	11,8	11,5	11,2	10,8	10,4
FAM 323	0,25	4	16,7											
	0,37	6	16,7	16,6										
	0,55	10	16,7	16,6										
	0,75	15	16,7	16,6	16,5									
	1,1	25	16,7	16,6	16,5	16,4	16,2							
	1,5	33	16,7	16,6	16,5	16,4	16,2	16						
	2,2	45	16,7	16,6	16,5	16,4	16,2	16	15,6					
	3	65	16,7	16,6	16,5	16,4	16,2	16	15,6	15,2	14,8			
	4	90	16,7	16,6	16,5	16,4	16,2	16	15,6	15,2	14,8	14,4	14,0	
	5,5	100	16,7	16,6	16,5	16,4	16,2	16	15,6	15,2	14,8	14,4	14,0	13,6
FAM 328	0,25	5	20,3											
	0,55	8	20,3	20,2										
	0,75	12	20,3	20,2	20,1									
	1,1	18	20,3	20,2	20,1	20								
	1,5	25	20,3	20,2	20,1	20	19,8							
	2,2	35	20,3	20,2	20,1	20	19,8	19,6						
	3	50	20,3	20,2	20,1	20	19,8	19,6	19,4					
	4	70	20,3	20,2	20,1	20	19,8	19,6	19,4	19	18,6			
	5,5	100	20,3	20,2	20,1	20	19,8	19,6	19,4	19	18,6	18,2	17,7	17,2
FAM 333	0,37	4	24,1											
	0,55	6	24,1	24										
	0,75	10	24,1	24										
	1,1	15	24,1	24	23,9									
	1,5	20	24,1	24	23,9	23,8								
	2,2	30	24,1	24	23,9	23,8	23,6							
	3	40	24,1	24	23,9	23,8	23,6	23,4						
	4	55	24,1	24	23,9	23,8	23,6	23,4	23,2	22,9				
	5,5	80	24,1	24	23,9	23,8	23,6	23,4	23,2	22,9	22,5	22,1		
	7,5	100	24,1	24	23,9	23,8	23,6	23,4	23,2	22,9	22,5	22,1	21,6	21,1

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

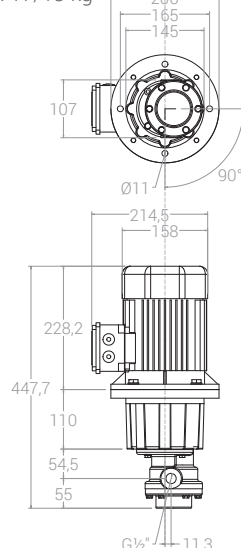
Oil-Speed: max. 1,5 m/s suction side, max. 4,5 m/s pressure side

FAM310 - FAM323 - Dimensions and weight (3phase, 4-pole)

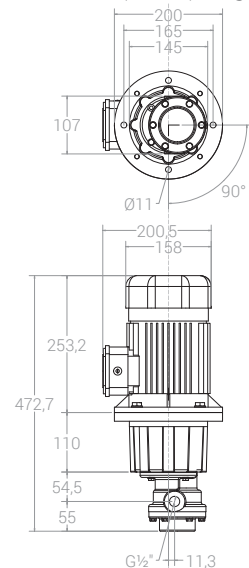
FAM314 - FAM323 (0,25/0,37 kW)
weight: 13/14 kg



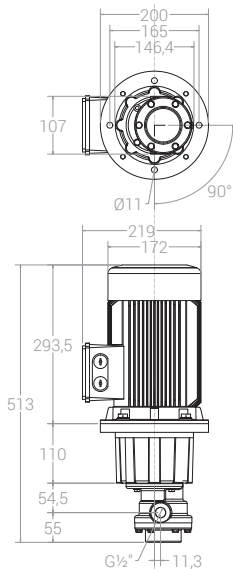
FAM314 - FAM323 (0,55/0,75 kW)
weight: 17/19 kg



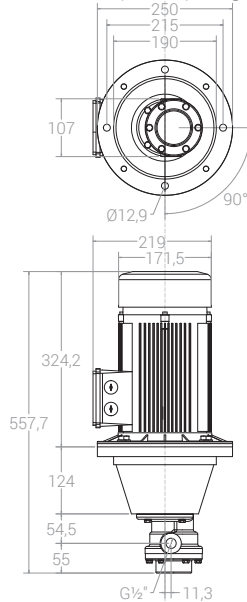
FAM314 - FAM323 (1,1 kW) weight: 20 kg



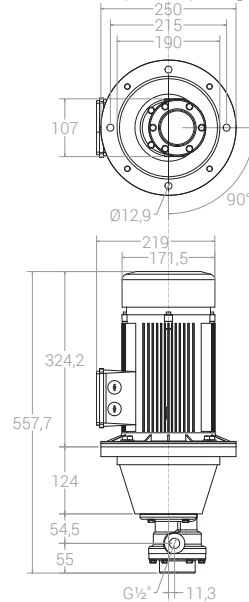
FAM314 - FAM323 (1,5 kW) weight: 27 kg



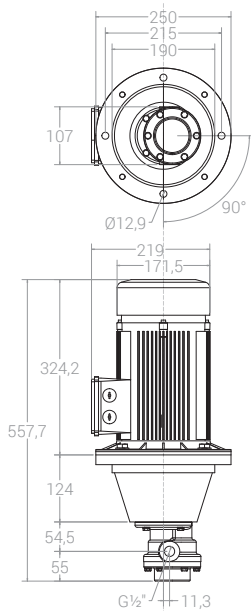
FAM314 - FAM323 (2,2 kW) weight: 32 kg



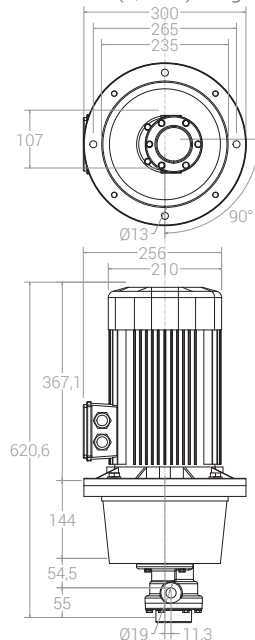
FAM314 - FAM323 (3,0 kW) weight: 37 kg



FAM314 - FAM323 (4,0 kW) weight: 43 kg

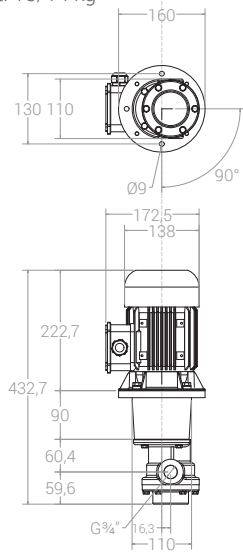


FAM314 - FAM323 (5,5 kW) weight: 60 kg

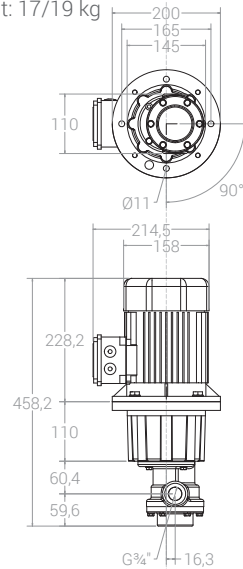


FAM328 & FAM333 - Dimensions and weight (3phase, 4-pole)

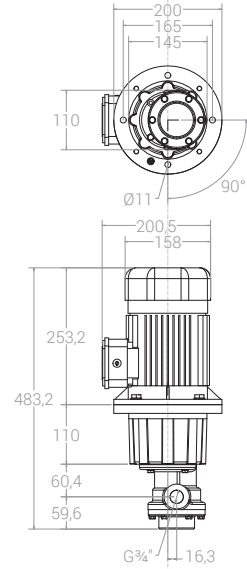
FAM328 - FAM333 (0,25/0,37 kW)
weight: 13/14 kg



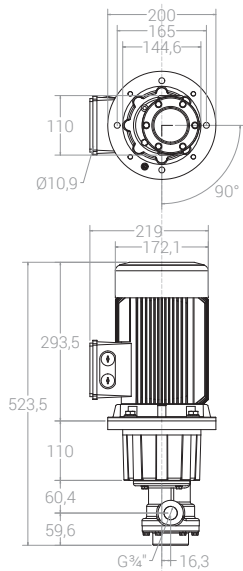
FAM328 - FAM333 (0,55/0,75 kW)
weight: 17/19 kg



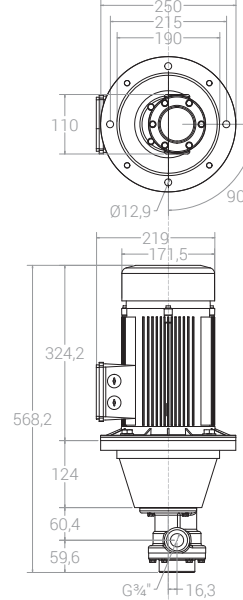
FAM328 - FAM333 (1,1 kW) weight: 21 kg



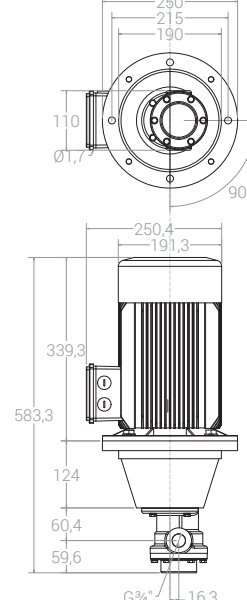
FAM328 - FAM333 (1,5 kW) weight: 27 kg



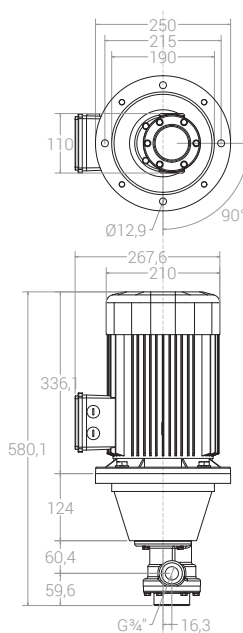
FAM328 - FAM333 (2,2 kW) weight: 32 kg



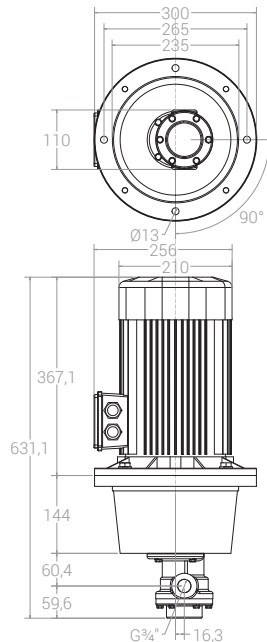
FAM328 - FAM333 (3,0 kW) weight: 38 kg



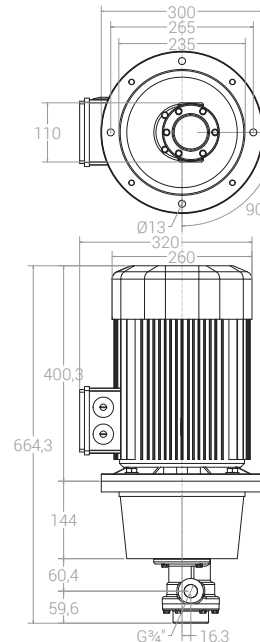
FAM328 - FAM333 (4,0 kW) weight: 44 kg



FAM328 - FAM333 (5,5 kW) weight: 60 kg



FAM328 - FAM333 (7,5 kW) weight: 96 kg



Electric gear-pumps for mounting in tanks by flange FAM 422 - FAM 438

Performance ($n \approx 1450 \text{ min}^{-1}$):

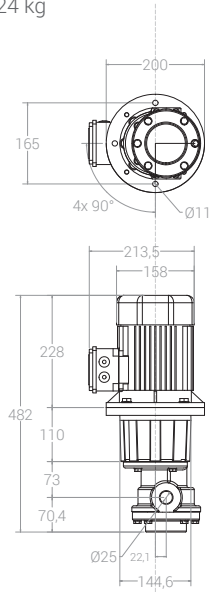
type	motor-power kW	max. pressure bar	pressure (bar)						
			5	10	15	20	30	40	50
			capacity l/min						
FAM 422	0,55	5	30,50						
	0,75	8	30,50	30,30					
	1,1	12	30,50	30,30	30,10				
	1,5	15	30,50	30,30	30,10				
	2,2	25	30,50	30,30	30,10	29,80	29,40		
	3	32	30,50	30,30	30,10	29,80	29,40	29,00	
	4	45	30,50	30,30	30,10	29,80	29,40	29,00	28,50
	5,5	50	30,50	30,30	30,10	29,80	29,40	29,00	28,50
FAM 426	0,55	4	36,20						
	0,75	6	36,20	36,00					
	1,1	10	36,20	36,00					
	1,5	13	36,20	36,00	35,80				
	2,2	20	36,20	36,00	35,80	35,50			
	3	28	36,20	36,00	35,80	35,50	35,10		
	4	37	36,20	36,00	35,80	35,50	35,10	34,70	
	5,5	50	36,20	36,00	35,80	35,50	35,10	34,70	34,20
FAM 430	0,55	3	41,60						
	0,75	5	41,60						
	1,1	9	41,60	41,40					
	1,5	12	41,60	41,40	41,20				
	2,2	18	41,60	41,40	41,20				
	3	24	41,60	41,40	41,20	40,90			
	4	32	41,60	41,40	41,20	40,90	40,50	40,10	
	5,5	45	41,60	41,40	41,20	40,90	40,50	40,10	39,60
	7,5	50	41,60	41,40	41,20	40,90	40,50	40,10	39,60
FAM 434	0,55	2	47,30						
	0,75	4	47,30						
	1,1	7	47,30	47,10					
	1,5	10	47,30	47,10					
	2,2	15	47,30	47,10	46,90				
	3	21	47,30	47,10	46,90	46,60	46,20		
	4	28	47,30	47,10	46,90	46,60	46,20		
	5,5	38	47,30	47,10	46,90	46,60	46,20	45,80	
	7,5	50	47,30	47,10	46,90	46,60	46,20	45,80	45,30
FAM 438	0,55	2	53,00						
	0,75	4	53,00						
	1,1	7	53,00	52,80					
	1,5	8	53,00	52,80					
	2,2	14	53,00	52,80	52,60				
	3	19	53,00	52,80	52,60	52,30			
	4	25	53,00	52,80	52,60	52,30	51,90		
	5,5	35	53,00	52,80	52,60	52,30	51,90	51,50	
	7,5	50	53,00	52,80	52,60	52,30	51,90	51,50	51,00

Valid for hydraulic oil with $35 \text{ mm}^2/\text{s}$ at 50°C
Tolerance of capacity: $\pm 3\%$

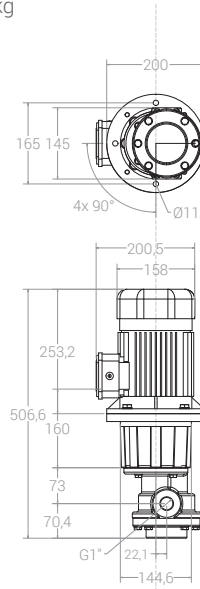
Oil-Speed: max. $1,5 \text{ m/s}$ suction side, max. $4,5 \text{ m/s}$ pressure side

FAM422 & FAM438 - Dimensions and weight (3phase, 4-pole)

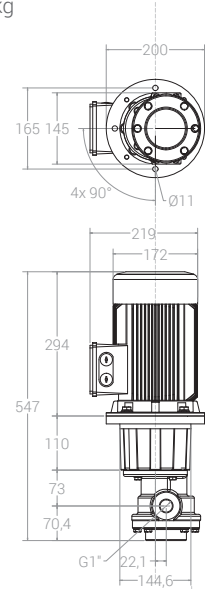
FAM422 - FAM438 - 0,55/0,75 kW
weight: 22/24 kg



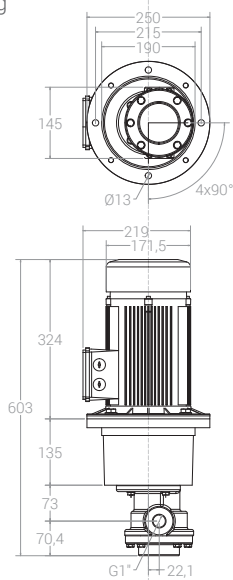
FAM422 - FAM438 - 1,1 kW
weight: 26 kg



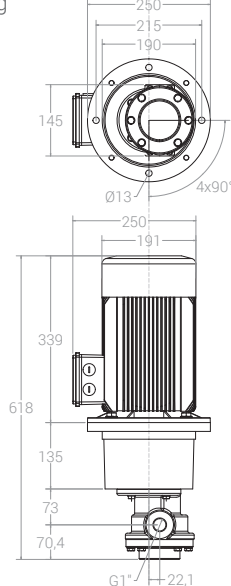
FAM422 - FAM438 - 1,5 kW
weight: 32 kg



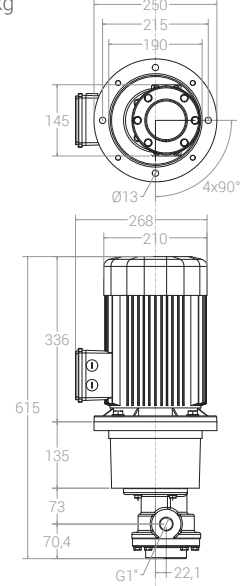
FAM422 - FAM438 - 2,2 kW
weight: 38 kg



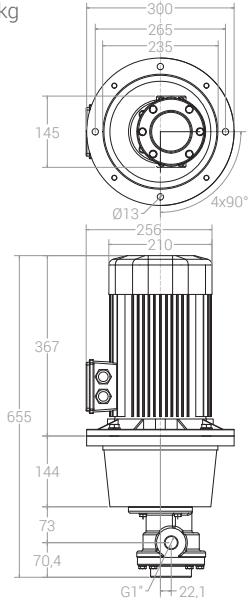
FAM422 - FAM438 - 3,0 kW
weight: 43 kg



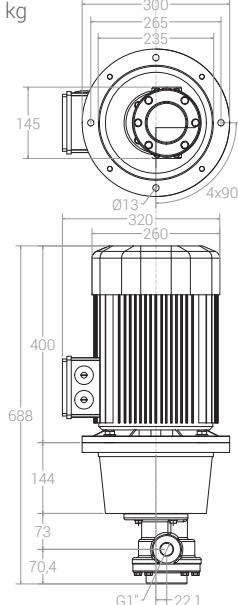
FAM422 - FAM438 - 4,0 kW
weight: 49 kg



FAM422 - FAM438 - 5,5 kW
weight: 66 kg



FAM422 - FAM438 - 7,5 kW
weight: 102 kg



Electric gear-pumps for mounting in tanks by flange FAM 545 - FAM 590

Performance (n ≈ 1450 min⁻¹):

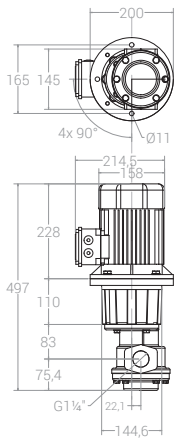
type	motor- power kW	max. pressure bar	pressure (bar)						
			5	10	15	20	30	40	50
			capacity l/min						
FAM 545	0,55	2	62,70						
	0,75	4	62,70						
	1,1	6	62,70	62,50					
	1,5	8	62,70	62,50					
	2,2	12	62,70	62,5	62,30				
	3	16	62,70	62,50	62,30	61,80			
	4	22	62,70	62,50	62,30	61,80	61,30		
	5,5	30	62,70	62,50	62,30	61,80	61,30		
	7,5	41	62,70	62,50	62,30	61,80	61,30	60,80	60,30
	11	50	62,70	62,50	62,30	61,80	61,30	60,80	60,30
FAM 556	0,55	2	78,10						
	0,75	3	78,10						
	1,1	5	78,10						
	1,5	7	78,10	77,90					
	2,2	10	78,10	77,90					
	3	13	78,10	77,90	77,70				
	4	17	78,10	77,90	77,70	77,20			
	5,5	24	78,10	77,90	77,70	77,20	76,70		
	7,5	32	78,10	77,90	77,70	77,20	76,70	76,20	
	11	48	78,10	77,90	77,70	77,20	76,70	76,20	75,70
	15	50	78,10	77,90	77,70	77,20	76,70	76,20	75,70
FAM 570	0,75	2	97,70						
	1,1	4	97,70						
	1,5	5	97,70						
	2,2	8	97,70	97,50					
	3	10	97,70	97,50					
	4	14	97,70	97,50	97,20				
	5,5	19	97,70	97,50	97,20	96,70			
	7,5	26	97,70	97,50	97,20	96,70	96,20		
	11	38	97,70	97,50	97,20	96,70	96,20	95,70	
	15	50	97,70	97,50	97,20	96,70	96,20	95,70	95,20
FAM 590	1,1	3	124,00						
	1,5	4	124,00						
	2,2	6	124,00	123,80					
	3	8	124,00	123,80					
	4	11	124,00	123,80	123,60				
	5,5	15	124,00	123,80	123,60				
	7,5	20	124,00	123,80	123,60	123,10			
	11	30	124,00	123,80	123,60	123,10	122,60		
	15	40	124,00	123,80	123,60	123,10	122,60	122,10	
	18,5	50	124,00	123,80	123,60	123,10	122,60	122,10	121,60

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

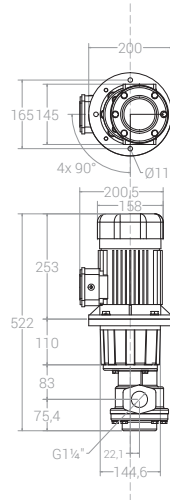
Oil-Speed: max. 1,5 m/s suction side, max. 4,5 m/s pressure side

FAM545 & FAM556 - Dimensions and weight (3phase, 4-pole)

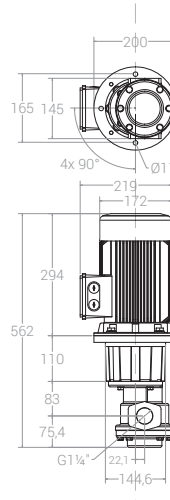
FAM545 - FAM556 - 0,55/0,75 kW
weight: 24/25 kg



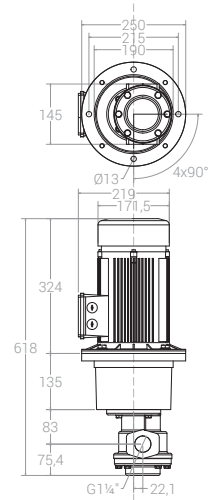
FAM545 - FAM556 - 1,1 kW
weight: 27 kg



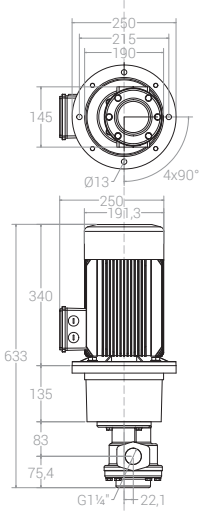
FAM545 - FAM556 - 1,5 kW
weight: 34 kg



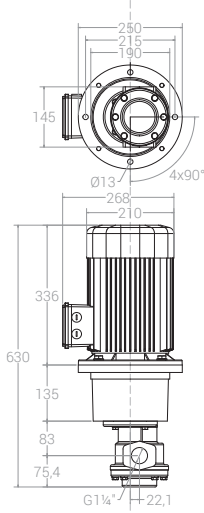
FAM545 - FAM556 - 2,2 kW
weight: 38 kg



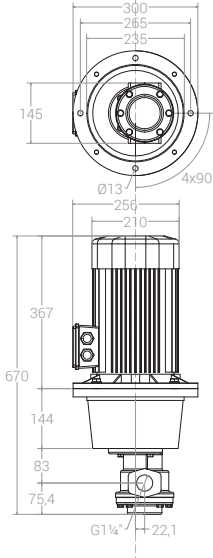
FAM545 - FAM556 - 3,0 kW
weight: 44 kg



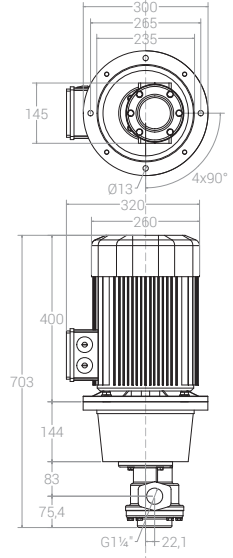
FAM545 - FAM556 - 4,0 kW
weight: 50 kg



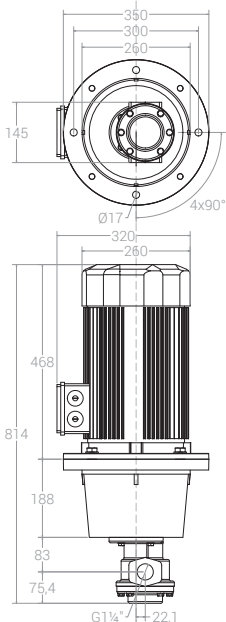
FAM545 - FAM556 - 5,5 kW
weight: 67 kg



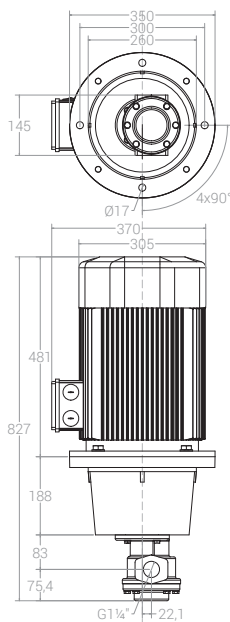
FAM545 - FAM556 - 7,5 kW
weight: 103 kg



FAM545 - FAM556 - 11 kW
weight: 106 kg

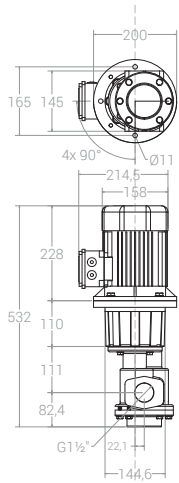


FAM545 - FAM556 - 15 kW
weight: 155 kg

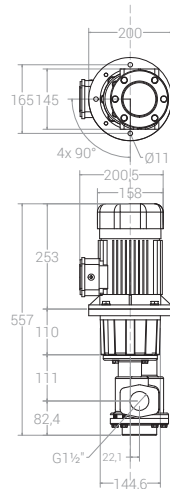


FAM570 & FAM590 - Dimensions and weight (3phase, 4-pole)

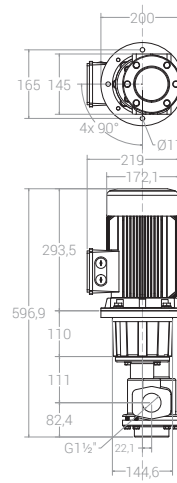
FAM570 - FAM590 - 0,55/0,75 kW
weight: 26/27 kg



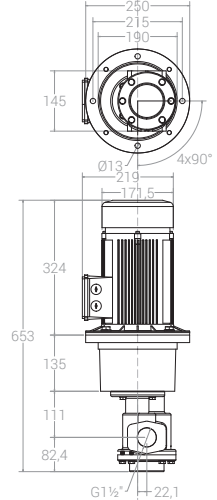
FAM570 - FAM590 - 1,1 kW
weight: 29 kg



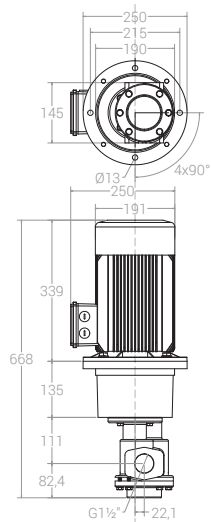
FAM570 - FAM590 - 1,5 kW
weight: 36 kg



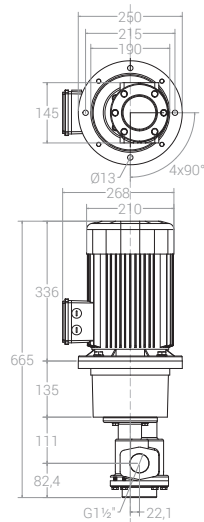
FAM570 - FAM590 - 2,2 kW
weight: 40 kg



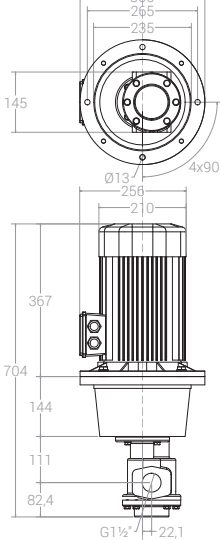
FAM570 - FAM590 - 3,0 kW
weight: 46 kg



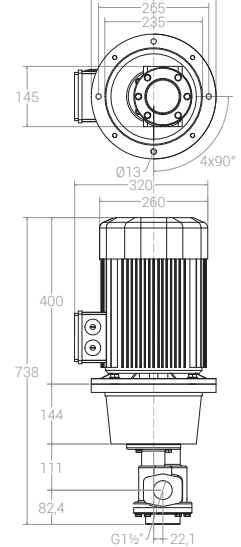
FAM570 - FAM590 - 4,0 kW
weight: 52 kg



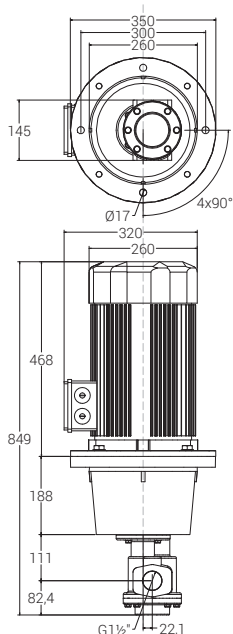
FAM570 - FAM590 - 5,5 kW
weight: 69 kg



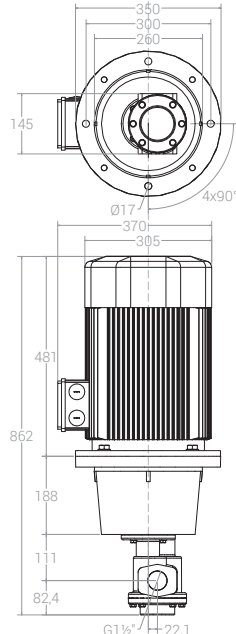
FAM570 - FAM590 - 7,5 kW
weight: 105 kg



FAM570 - FAM590 - 11 kW
weight: 108 kg



FAM570 - FAM590 - 15 kW
weight: 157 kg



FAM570 - FAM590 - 18,5 kW
weight: 183 kg

