

Closed-coupled Pump

Etachrom B

50 Hz - 60 Hz

Type Series Booklet



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Type Series Booklet Etachrom B

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Standardised / Close-coupled Pumps

Close-coupled Pumps

Etachrom B



Main applications

- Water supply systems
- Fire-fighting systems
- Spray irrigation systems
- General irrigation systems
- Drainage systems
- Hot-water heating systems
- Air-conditioning systems
- Industrial washing plants
- General industry
- Disposal of paint sludge
- Surface treatment systems

Fluids handled

- Drinking water
- Service water
- Hot water
- Cooling water
- Swimming pool water (0.4 to 1.4 mg/l free chlorine, max. 0.6 mg/l combined chlorine, pH value 6.9 to 7.7, water hardness 10 to 30 °dH, max. salt content 7 g/l)
- Process water
- Fire-fighting water
- Condensate
- Oil

Operating data

Operating properties

Characteristic		Value	
		50 Hz	60 Hz
Flow rate	Q [m³/h]	≤ 250	≤ 194
	Q [l/s]	≤ 69.4	≤ 54
Head	H [m]	≤ 105	≤ 104
Fluid temperature	T [°C]	-30 to +110	
Operating pressure	p [bar]	≤ 12 ¹⁾	

Designation

Example: ETCB 050-025-125 CC A07D2

Designation key

Code	Description	
ETCB	Pump type	
	ETCB	Etachrom B
050-025-1025	Size	
	050	Nominal suction nozzle diameter [mm]
	025	Nominal discharge nozzle diameter [mm]
	125	Nominal impeller diameter [mm]
C	Pump casing material	
	C	1.4571
C	Impeller material	
	C	1.4571/1.4408
X	Design	
	. 2)	Standard
	X	Special design BT3D, BT3
A	Casing cover	
	. A	Without internal circulation
	E A	External circulation
	F A	External flushing
	A V	Without internal flushing, with vent
07	Seal code	
	0 7	Q1Q1EGG
D	Scope of supply	
	A	Pump only (Fig. 0)
	D	Pump, motor
2	Shaft unit	
	2	Shaft unit 25 (WS25)
	3	Shaft unit 35 (WS35)

Further information on the designation

(⇒ Page 42)

1) The sum of inlet pressure and shut-off head must not exceed the value indicated.

2) Blank

Design details

Design

- Annular casing pump
- Close-coupled design
- Back pull-out design
- Horizontal installation
- Single-stage
- Dimensions and ratings to EN 733
- Rigid connection between pump and motor
- Pump and motor on a common shaft

Pump casing

- Annular casing with welded-on or bolted-on pump feet
- Replaceable casing wear rings

Impeller type

- Closed radial impeller with multiply curved vanes
- Free-flow impeller

Machining type, materials

Closed radial impeller			Free-flow impeller
Stainless steel 1.4571		Stainless steel 1.4408	Stainless steel 1.4308
Projection-welded	Laser-welded	Cast	Cast
050-025-125	050-032-200	050-025-250	065-050-125
050-025-125.1	065-040-200	050-032-250	-
050-025-160	065-050-160	065-040-250	-
050-025-200	-	065-050-200	-
050-032-125	-	065-050-250	-
050-032-125.1	-	080-065-200	-
050-032-160	-	080-065-250	-
065-040-125	-	100-080-200	-
065-040-160	-	100-080-250	-
065-050-125	-	-	-

Shaft seal

- Single mechanical seal to EN 12756
- For the following sizes the shaft is fitted with a replaceable shaft sleeve in the shaft seal area:
 - 080-065-250
 - 100-080-200
 - 100-080-250

Drive

Standard design:

- KSB/Siemens surface-cooled IEC frame three-phase squirrel-cage motor
- Type of construction IM V1 ≤ 4.00 kW
- Type of construction IM V1 ≥ 5.50 kW
- 50 Hz winding, 220-240 V/380-420 V ≤ 2.20 kW
- 50 Hz winding, 380-420 V/660-725 V ≥ 3.00 kW
- 60 Hz winding, 440-480 V ≤ 2.60 kW
- 60 Hz winding, 440-480 V ≥ 3.60 kW
- IP55 enclosure
- Thermal class F

- 3 PTC thermistors
- Mode of operation: continuous operation S1

or

- KSB surface-cooled IEC frame three-phase current squirrel-cage motor as described above, but West European make to our choice

or

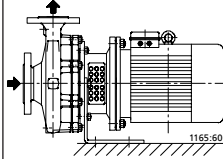
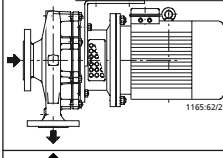
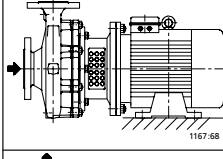
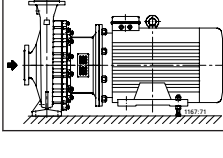
Explosion-proof version:

- Surface-cooled IEC three-phase current squirrel-cage motor
- Type of construction IM V1 ≤ 3.30 kW
- Type of construction IM V15 ≥ 4.60 kW
- 50 Hz winding, 220-240 V/380-420 V ≤ 1.85 kW
- 50 Hz winding, 380-420 V/660-725 V ≤ 2.50 kW
- Enclosure IP55 or IP54
- Type of protection EExe II
- Temperature class T3
- Mode of operation: continuous operation S1

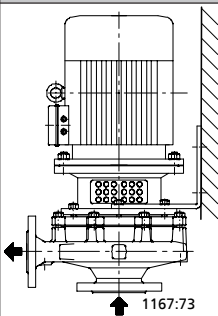
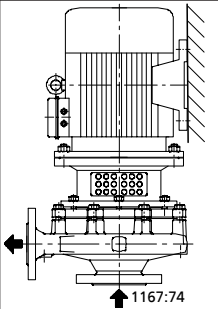
Installation types

- Horizontal installation
- Vertical installation³⁾

Typical installation positions of an Etachrom BC pump

Examples	Special aspects
Horizontal installation	
	Pump foot fastened at the bottom ▪ Up to motor size 112 = 4 kW
	Pump foot fastened at the top ▪ Up to motor size 112 = 4 kW ▪ The motor must be turned by 180°.
	Motor foot fastened at the bottom ▪ Motor size 132 = 5.5 kW to 180 = 22 kW
	Motor foot fastened at the bottom, additional support ▪ Motor size 200 = 30 kW to 225 = 45 kW

³⁾ A vent valve must be fitted to prevent dry running of the mechanical seal.

Examples	Special aspects
Vertical installation 	Pump foot fastened at the side - Up to motor size 112 = 4 kW - For vertical installation with the motor on top, use connection 5B (if any) for venting.
	Motor foot fastened at the side - From motor size 132 = 5.5 kW - For vertical installation with the motor on top, use connection 5B (if any) for venting.

Automation

Automation options:

- PumpDrive
- PumpMeter

Coating and preservation

- Coating and preservation to KSB standard AN 1897/54-09
- Pump casing without coating
- Drive lantern, intermediate piece with primer coat

Primer coat

Type	Primer coat
A1	- Hydro-dip primer for steel and cast components - Spray-coating with compressed air possible. - Water-thinned hydro dip primer with good anti-corrosive properties - Dry film thickness: 40-50 µm

Top coat

Type	Top coat ⁴⁾
A1	- Quick drying, water-thinned paint (acrylate alkyd combination) with anti-corrosive properties and lead-free pigmentation - T up to 140 °C - Dry film thickness: 60 µm

Product benefits

- Maintenance-free mechanical seal ensures operating reliability

- Easy to dismantle due to back pull-out design; no need to remove the pump casing from the piping
- Optimised hydraulic components for high efficiency help reduce energy consumption
- Corrosion-resistant with all wetted parts made of stainless steel (1.4571).
- Easy to service and durable with replaceable casing wear rings
- Long service life, maintenance-free with high-quality standardised mechanical seal to EN 12756

Product information as per Regulation No. 547/2012 (for water pumps with a maximum shaft power of 150 kW) implementing "Ecodesign" Directive 2009/125/EC

- Minimum efficiency index: see data sheet
- The benchmark for the most efficient water pumps is MEI ≥ 0.70.
- Year of construction: see data sheet
- Manufacturer's name or trade mark, commercial registration number and place of manufacture: see data sheet or order documentation
- Product's type and size identifier: see data sheet
- Hydraulic pump efficiency (%) with trimmed impeller: see data sheet
- Pump performance curves, including efficiency characteristics: see documented characteristic curve
- The efficiency of a pump with a trimmed impeller is usually lower than that of a pump with full impeller diameter. Trimming of the impeller will adapt the pump to a fixed duty point, leading to reduced energy consumption. The minimum efficiency index (MEI) is based on the full impeller diameter.
- Operation of this water pump with variable duty points may be more efficient and economic when controlled, for example, by the use of a variable speed drive that matches the pump duty to the system.
- Information relevant for disassembly, recycling or disposal at end of life: see installation/operating manual
- Information on benchmark efficiency or benchmark efficiency graph for MEI = 0.70 (0.40) for the pump based on the model shown in the Figure are available at: <http://www.europump.org/efficiencycharts>

FluidFuture energy efficiency concept developed by KSB



<http://www.ksb.com/fluidfuture>

⁴⁾ The top coats are suitable for indoor and outdoor installation in slightly aggressive atmospheres.

Acceptance tests / warranty

- **Materials testing**
 - Test report 2.2 on request
- **Final inspection**
 - Inspection certificate 3.1 to EN 10204 on request
- **Hydraulic test**
 - The duty point of each pump with a delivery address or final destination in Europe is guaranteed to ISO 9906/2A.
 - The duty point of each pump with a delivery address or final destination outside of Europe is guaranteed to ISO 9906/3.
- **The following acceptance tests can be performed and certified at extra charge:**
 - Performance test to ISO 9006
 - NPSH test
- Other inspections/tests on request
- **Warranty**
Warranties are given within the scope of the valid delivery conditions.

Overview of fluids handled

The table listing fluids handled is a selection tool for drainage duties. It should be used for orientation and is based on KSB's many years of experience. The data are reference values and should not be considered to be generally binding recommendations. They shall not be the basis for warranty claims. Please contact your nearest KSB sales branch and/or our technical departments for in-depth advice.

Example: Pure water 15 °C; Q = 40 m³/h; H = 51 m
Selection: Etachrom B 065-040-200 CC A11D2
 065-040-200 Size (2900 rpm as per characteristic curve)
 11 Variant code (according to selection table)
 Motor rating required: 11 kW

Selection table

Fluids handled	Application limits		Shaft seal (mechanical seal)			
	Percentage [%]	Temperature [°C]	Q1Q1M1GG	U3U3VGG	Q1Q1X4GG	BQ1EGG ⁵⁾
			Variant code			
			5 ⁶⁾	9	10	11
Alkaline cleaning agents	-	-	-	-	X	-
Alcohol (ethanol)	-	-	-	-	-	X
Ammonia water (ammonia solution)	≤ 10	≤ 60	-	-	-	X
Ammonium bicarbonate	≤ 10	≤ 40	-	-	-	X
Antifrogen (alcohol-based)	-	-	-	-	-	X
Cider	-	-	-	-	-	X
Ethanol (alcohol)	-	-	-	-	-	X
Ethylene glycol ⁷⁾	-	-	-	-	-	X
Petrol	-	-	X	-	-	-
Beer mash	-	≤ 100	X	-	-	-
Spirits	-	-	-	-	-	X
Butanol	-	-	-	-	-	X

5) Combinations of soft/hard contact face materials (BQ1) can only be used for fluids up to a total solids content of 50 mg/l. Higher solids contents will result in leakage and a shorter service life.

6) Shaft seal, uni-directional

7) Antifreeze on ethylene glycol basis with inhibitors. Content: > 20 % to 50 % (e.g. Antifrogen N)

Fluids handled	Application limits		Shaft seal (mechanical seal)			
	Percentage [%]	Temperature [°C]	Q1Q1M1GG	U3U3VGG	Q1Q1X4GG	BQ1EGG ⁵⁾
			Variant code			
			5 ⁶⁾	9	10	11
Butanoic acid	100	≤ 30	-	-	-	X
Calcium acetate	10	-	-	-	-	X
Calcium nitrate	≤ 10	≤ 30	-	-	X	-
Deionised water (fully desalinated water) ⁸⁾	-	-	-	-	-	X
Distilled water	-	≤ 60	-	-	-	X
Diesel oil	-	-	-	-	X	-
Decarbonised water ⁹⁾	-	≤ 60	-	-	-	X
Peanut oil	-	-	-	-	X	-
Vinegar (= 5 % acetic acid)	≤ 5	-	-	-	-	X
Ethanol	-	-	-	-	-	X
Ethylene glycol/diethylene glycol ⁷⁾	-	-	-	-	-	X
Fire-fighting water ⁹⁾	-	≤ 25 ¹⁰⁾	-	-	X	-
Antifreeze (ethylene glycol) ⁷⁾ , no cooling brines	-	-	-	-	-	X
Tannic acid	≤ 50	sp ¹¹⁾	-	-	-	X
Glycol (ethylene glycol) ⁷⁾	-	-	-	-	-	X
Glycol-water mixture ⁷⁾	-	-	-	-	-	X
Fuel oil, light	-	-	-	-	X	-
Heating water ¹²⁾	-	≤ 110	-	-	X	-
Hydraulic oil	-	-	-	-	X	-
Isopropanol	-	-	-	-	-	X
Potassium bicarbonate	≤ 10	≤ 80	-	-	-	X
Potassium hydroxide	≤ 10	≤ 80	-	-	X	-
Potassium carbonate	≤ 10	≤ 80	-	-	-	X
Potassium sulphate	≤ 3	≤ 20	-	-	-	X
Jet fuel	-	-	-	-	X	-
Boiler water	-	≤ 110	-	-	-	X
Condensate ⁸⁾	-	≤ 110	-	-	-	X
Cooling water (without antifreeze)	-	≤ 60 ¹⁰⁾	-	-	X	-
Cooling water pH ≥ 7.5 (with antifreeze) ⁷⁾	-	≤ 110	-	-	-	X
Copper sulphate	≤ 5	RT ¹³⁾	-	-	-	X
Slightly contaminated water ⁹⁾	-	≤ 60 ¹⁰⁾	-	-	X	-
Linseed oil	-	-	-	-	X	-
Magnesium sulphate	≤ 10	≤ 20	-	-	-	X
Corn oil	-	-	-	-	X	-
Methyl alcohol (methanol)	-	-	-	-	-	X
Mineral oil	-	-	-	-	X	-
Miscella	-	≤ 80	-	-	X	-
Sodium hydrogen carbonate	≤ 6	≤ 20	-	-	X	-
Sodium hydroxide (caustic soda)	≤ 20	≤ 60	-	-	X	-
Sodium hydroxide (caustic soda)	≤ 10	≤ 80	-	-	X	-
Sodium carbonate	≤ 6	≤ 60	-	-	-	X
Sodium nitrate	≤ 10	≤ 90	-	-	-	X
Sodium phosphate	≤ 10	≤ 100	-	-	X	-
Sodium sulphate	≤ 5	≤ 60	-	-	-	X
Caustic soda (sodium hydroxide)	≤ 20	≤ 60	-	-	X	-

- 5) Combinations of soft/hard contact face materials (BQ1) can only be used for fluids up to a total solids content of 50 mg/l. Higher solids contents will result in leakage and a shorter service life.
- 6) Shaft seal, uni-directional
- 8) Conductivity at 25 °C: < 250 µS/cm, SiO₂ (silicate) content ≤ 10 mg/l
- 9) Chloride content ≤ 300 mg/l; if the value is exceeded, water analysis is required.
- 10) Mechanical seal suitable for t ≤ 110 °C
- 11) SP = boiling point
- 12) Conductivity at 25 °C: 100 to 800 µS/cm
- 13) RT = room temperature

Fluids handled	Application limits		Shaft seal (mechanical seal)			
	Percentage [%]	Temperature [°C]	Q1Q1M1GG	U3U3VGG	Q1Q1X4GG	BQ1EGG ⁵⁾
			Variant code			
			5 ⁶⁾	9	10	11
Caustic soda (sodium hydroxide)	≤ 10	≤ 80	-	-	X	-
Oil-water emulsion	-	≤ 60	-	X	-	-
Kerosene	-	-	-	-	X	-
Vegetable oil, pure	-	-	-	-	X	-
Phosphoric acid	≤ 10	≤ 85	-	-	X	-
Polyglycols	-	≤ 90	-	-	-	X
Propanol (propyl alcohol)	-	-	-	-	-	X
Rapeseed oil	-	-	-	-	-	X
Pure water ¹⁴⁾	-	≤ 60 ¹⁰⁾	-	-	-	X
Pure water with 6 % soda	≤ 6	≤ 60	-	-	-	X
Untreated water ⁹⁾	-	≤ 60 ¹⁰⁾	-	-	X	-
Ammonia solution (ammonia water)	≤ 10	≤ 60	-	-	-	X
Lubricating oil	-	-	-	-	X	-
Cutting oil	-	-	-	-	X	-
Sulphuric acid	≤ 5	RT ¹³⁾	-	-	-	X
Sulphuric acid	≤ 2.5	≤ 60	-	-	-	X
Sulphurous acid	≤ 10	RT ¹³⁾	-	-	-	X
Swimming pool water (fresh water)	-	≤ 60	-	-	X	-
Silicone oil	-	-	-	-	-	X
Soy-bean oil	-	-	-	-	X	-
Edible oil	-	-	-	-	X	-
Rinsing water ⁹⁾	-	≤ 60	-	-	X	-
Dam water ⁹⁾	-	≤ 60 ¹⁰⁾	-	-	X	-
Partly desalinated water	-	≤ 110	-	-	-	X
Trisodium phosphate	≤ 4	≤ 85	-	-	X	-
Drinking water ⁹⁾	-	≤ 60 ¹⁰⁾	-	-	-	X
Turbine oil (does not apply to SFD oils, hardly flammable)	-	≤ 80	-	-	X	-
Fully desalinated water ⁸⁾	-	≤ 110	-	-	-	X
Lye for bottle rinsers	-	≤ 90	-	-	X	-
Lye for metal cleaning pH ≤ 12	-	≤ 80	-	X	-	-
Detergents (containing surfactants)	-	-	-	-	-	X
Water/bathing water ⁹⁾	-	≤ 60	-	-	-	X
Soft water	-	≤ 60	-	-	-	X
Viscous fluid	20	≤ 100	X	-	-	-
Sugar juice (thin juice)	-	-	-	-	-	-
Citric acid	≤ 50	RT ¹³⁾	-	-	-	X

Pressure and temperature limits

Pressure and temperature limits

Material variant	Fluid temperature	Discharge pressure ¹⁵⁾	Test pressure ¹⁶⁾
	[°C]	[bar]	[bar]
C	-30 to +110	≤ 12	≤ 16

- 5) Combinations of soft/hard contact face materials (BQ1) can only be used for fluids up to a total solids content of 50 mg/l. Higher solids contents will result in leakage and a shorter service life.
- 6) Shaft seal, uni-directional
- 14) No ultra-pure water! Conductivity at 25 °C: ≤ 800 µS/cm
- 15) The sum of inlet pressure and shut-off head must not exceed the value indicated.
- 16) The casing components are checked for leakage by means of internal pressure tests to AN 1897/75-03D00 with water.

Materials

Overview of available materials

Part No.	Description	Material designation	Fluid temperature [°C]	
			T _{min}	T _{max}
101	Pump casing	CrNiMo steel 1.4571	-30	+110
132.01	Intermediate piece	Grey cast iron EN-GJL-250/ cataphoresis	-30	+110
163	Discharge cover	CrNiMo steel 1.4571	-30	+110
183	Foot	S235 JR	-30	+110
210	Shaft	CrNiMo steel 1.4571	-30	+110
230	Impeller	CrNiMo steel 1.4571	-30	+110
		CrNiMo steel 1.4408	-30	+110
341	Drive lantern	Grey cast iron EN-GJL-250/ A 48 CL 35B	-30	+110
		Grey cast iron EN-GJL-250/ cataphoresis	-30	+110
412.35	O-ring	EPDM 70/ 80	-30	+110
		HNBR 75	-30	+110
		FKM80	-30	+110
502.01	Casing wear ring	CrNiMo steel 1.4571	-30	+110
502.02	Casing wear ring	CrNiMo steel 1.4571	-30	+110
523	Shaft sleeve	CrNiMo steel 1.4571	-30	+110
901.99	Hexagon head bolt	Steel 8.8 A2A	-30	+110
903.01	Screw plug	CrNiMo steel A4	-30	+110
920.01	Nut	CrNiMo steel A4	-30	+110

 The pumps are free from substances impairing the adhesive strength of the paint, such as silicone.

Technical data

Selection table

Size	Shaft unit	Impeller				Balancing hole	Discharge-side casing wear ring
		Ø _{min}	Ø _{max}	Outlet width	Free passage		
		[mm]	[mm]	[mm]	[mm]		
050-025-125.1	WS 25.1	110	136	6,0	5,0	-	-
050-025-125	WS 25.1	110	136	11,7	11,0	-	-
050-025-160	WS 25.1	135	166	9,8	9,0	-	-
050-025-200	WS 25.1	166	196	8,0	7,0	✓	✓
050-025-250	WS 25.2	212	260	8,0	7,5	✓	✓
050-032-125.1	WS 25.1	110	136	6,0	5,0	-	-
050-032-125	WS 25.1	110	136	11,7	11,0	-	-
050-032-160	WS 25.1	135	166	9,8	9,0	-	-
050-032-200	WS 25.1	166	196	8,0	7,0	✓	✓
050-032-250	WS 25.2	212	260	8,0	7,5	✓	✓
065-040-125	WS 25.1	110	136	16,8	11,5	-	-
065-040-160	WS 25.1	135	166	14,4	12,0	✓	✓
065-040-200	WS 25.1	166	196	12,0	11,0	✓	✓
065-040-250	WS 25.2	214	260	8,0	8,0	✓	✓
065-050-125	WS 25.1	110	142	20,0	15,0	-	-
065-050-160	WS 25.1	142	170	17,0	16,0	✓	✓
065-050-200	WS 25.2	180	219	11,5	11,0	✓	✓
065-050-250	WS 25.2	220	260	12,0	12,0	✓	✓
080-065-200	WS 25.2	180	219	17,0	16,0	✓	✓
080-065-250	WS 35	220	260	13,9	13,0	✓	✓
100-080-200	WS 35	180	219	23,5	20,0	✓	✓
100-080-250	WS 35	220	269	19,0	19,0	✓	✓

Etachrom B, n = 2900 rpm / n = 3500 rpm

Size	Motor	50 Hz	60 Hz	50 Hz [400 V] 60 Hz [460 V]
		[kW]	[kW]	[~A] ¹⁷⁾
050-025-125.1/072	80M	0,75	-	1,8
050-025-125.1/112	80M	1,10	1,27	2,6
050-025-125.1/152	90S	1,50	1,75	3,4
050-025-125.1/222	90L	2,20	2,55	4,6
050-025-125.1/302	100L	3,00	3,45	6,3
050-025-125.1/402	112M	4,00	4,55	8,3
050-025-125/072	80M	0,75	-	1,8
050-025-125/112	80M	1,10	-	2,6
050-025-125/152	90S	1,50	1,75	3,4
050-025-125/222	90L	2,20	2,55	4,6
050-025-125/302	100L	3,00	3,45	6,3
050-025-125/402	112M	4,00	4,55	8,3
050-025-160/152	90S	1,50	-	3,4
050-025-160/222	90L	2,20	2,55	4,6
050-025-160/302	100L	3,00	3,45	6,3
050-025-160/402	112M	4,00	4,55	8,3
050-025-160/552	132S	-	6,30	11,0
050-025-160/752	132S	-	8,60	14,6
050-025-200/302	100L	3,00	-	6,3
050-025-200/402	112M	4,00	4,55	8,3
050-025-200/552	132S	5,50	6,30	11,0
050-025-200/752	132S	7,50	8,60	14,6
050-025-200/1102	160M	-	12,60	20,7
050-025-200/1502	160M	-	17,30	28,0
050-025-250/552	132S	5,50	-	11,0
050-025-250/752	132S	7,50	-	14,6
050-025-250/1102	160M	11,00	-	20,7
050-025-250/1502	160M	15,00	-	28,0
050-032-125.1/072	80M	0,75	-	1,8
050-032-125.1/112	80M	1,10	-	2,6
050-032-125.1/152	90S	1,50	1,75	3,4
050-032-125.1/222	90L	-	2,55	4,6
050-032-125.1/302	100L	-	3,45	6,3
050-032-125.1/402	112M	-	4,55	8,3
050-032-125/152	90S	1,50	-	3,4
050-032-125/222	90L	2,20	2,55	4,6
050-032-125/302	100L	3,00	3,45	6,3
050-032-125/402	112M	-	4,55	8,3
050-032-160/222	90L	2,20	-	4,6
050-032-160/302	100L	3,00	3,45	6,3
050-032-160/402	112M	4,00	4,55	8,3
050-032-160/552	132S	5,50	6,30	11,0
050-032-160/752	132S	-	8,60	14,6
050-032-160/1102	160M	-	12,60	20,7
050-032-200/302	100L	3,00	-	6,3
050-032-200/402	112M	4,00	-	8,3
050-032-200/552	132S	5,50	6,30	11,0
050-032-200/752	132S	7,50	8,60	14,6

Size	Motor	50 Hz	60 Hz	50 Hz [400 V] 60 Hz [460 V]
		[kW]	[kW]	[~A]
050-032-200/1102	160M	11,00	12,60	20,7
050-032-200/1502	160M	-	17,30	28,0
050-032-250/552	132S	5,50	-	11,0
050-032-250/752	132S	7,50	-	14,6
050-032-250/1102	160M	11,00	-	20,7
050-032-250/1502	160M	15,00	-	28,0
050-032-250/1852	160L	18,50	-	33,0
065-040-125/152	90S	1,50	-	3,4
065-040-125/222	90L	2,20	2,55	4,6
065-040-125/302	100L	3,00	3,45	6,3
065-040-125/402	112M	4,00	4,55	8,3
065-040-160/302	100L	3,00	-	6,3
065-040-160/402	112M	4,00	-	8,3
065-040-160/552	132S	5,50	6,30	11,0
065-040-160/752	132S	7,50	8,60	14,6
065-040-160/1102	160M	11,00	12,60	20,7
065-040-160/1502	160M	-	17,30	28,0
065-040-200/552	132S	5,50	-	11,0
065-040-200/752	132S	7,50	-	14,6
065-040-200/1102	160M	11,00	12,60	20,7
065-040-200/1502	160M	-	17,30	28,0
065-040-200/1852	160L	-	21,30	33,0
065-040-250/752	132S	7,50	-	14,6
065-040-250/1102	160M	11,00	-	20,7
065-040-250/1502	160M	15,00	-	28,0
065-040-250/1802	160L	18,50	-	33,0
065-040-250/2202	180M	22,00	-	40,0
065-040-250/3002	200L	30,00	-	53,0
065-050-125/302	100L	3,00	-	6,3
065-050-125/402	112M	4,00	-	8,3
065-050-125/552	132S	5,50	6,30	11,0
065-050-125/752	132S	7,50	8,60	14,6
065-050-125/1102	160M	-	12,60	12,6
065-050-125/1502	160M	-	17,30	17,3
065-050-160/552	132S	5,50	-	11,0
065-050-160/752	132S	7,50	-	14,6
065-050-160/1102	160M	11,00	12,60	20,7
065-050-160/1502	160M	15,00	17,30	28,0
065-050-160/1852	160L	-	21,30	33,0
065-050-200/552	132S	5,50	-	11,0
065-050-200/752	132S	7,50	-	14,6
065-050-200/1102	160M	11,00	12,60	20,7
065-050-200/1502	160M	15,00	17,30	28,0
065-050-200/1852	160L	18,50	21,30	33,0
065-050-200/2202	180M	22,00	24,50	40,0
065-050-200/3002	200L	-	33,50	53,0
065-050-200/3702	200L	-	41,50	65,0
065-050-250/1502	160M	15,00	-	28,0
065-050-250/1852	160L	18,50	-	33,0

¹⁷⁾ The currents indicated are for orientation only. For exact currents refer to the motor rating plate.

Size	Motor	50 Hz	60 Hz	50 Hz [400 V] 60 Hz [460 V]
		[kW]	[kW]	[~A] ¹⁷⁾
065-050-250/2202	180M	22,00	-	40,0
065-050-250/3002	200L	30,00	-	53,0
065-050-250/3702	200L	37,00	-	65,0
080-065-200/1102	160M	11,00	-	20,7
080-065-200/1502	160M	15,00	-	28,0
080-065-200/1852	160L	18,50	21,30	33,0
080-065-200/2202	180M	22,00	24,50	40,0
080-065-200/3002	200L	30,00	33,50	53,0
080-065-200/3702	200L	37,00	41,50	65,0
080-065-250/1502	160M	15,00	-	33,0
080-065-250/1852	160L	18,50	-	28,0
080-065-250/2202	180M	22,00	-	40,0
080-065-250/3002	200L	30,00	-	53,0
080-065-250/3702	200L	37,00	-	65,0
080-065-250/4502	225M	45,00	-	78,0
100-080-200/1502	160M	15,00	-	28,0
100-080-200/1852	160L	18,50	-	33,0
100-080-200/2202	180M	22,00	-	40,0
100-080-200/3002	200L	30,00	-	53,0
100-080-200/3702	200L	37,00	-	65,0
100-080-200/4502	225M	45,00	-	78,0

Etachrom B, n = 1450 rpm / n = 1750 rpm

Size	Motor	50 Hz	60 Hz	50 Hz [400 V] 60 Hz [460 V]
		[kW]	[kW]	[~A] ¹⁸⁾
050-025-125.1/054	80M	0,55	0,63	1,6
050-025-125/054	80M	0,55	0,63	1,6
050-025-160/054	80M	0,55	0,63	1,6
050-025-160/074	80M	-	0,86	2,0
050-025-160/114	90S	-	1,27	2,8
050-025-200/054	80M	0,55	-	1,6
050-025-200/074	80M	0,75	0,86	2,0
050-025-200/114	90S	1,10	1,27	2,8
050-025-200/154	90L	-	1,75	3,6
050-025-200/224	100L	-	2,55	5,1
050-025-250/074	80M	0,75	-	2,0
050-025-250/114	90S	1,10	1,27	2,8
050-025-250/154	90L	1,50	1,75	3,6
050-025-250/224	100L	-	2,55	5,1
050-025-250/304	100L	-	3,45	6,7
050-032-125.1/054	80M	0,55	0,63	1,6
050-032-125.1/074	80M	-	0,86	2,0
050-032-125/054	80M	0,55	0,63	1,6
050-032-125/074	80M	-	0,86	2,0

Size	Motor	50 Hz	60 Hz	50 Hz [400 V] 60 Hz [460 V]
		[kW]	[kW]	[~A]
050-032-160/054	80M	0,55	0,63	1,6
050-032-160/074	80M	0,75	0,86	2,0
050-032-160/114	90S	-	1,27	2,8
050-032-160/154	90L	-	1,75	3,6
050-032-200/054	80M	0,55	-	1,6
050-032-200/074	80M	0,75	-	2,0
050-032-200/114	90S	1,10	1,27	2,8
050-032-200/154	90L	-	1,75	3,6
050-032-200/224	100L	-	2,55	5,1
050-032-250/074	80M	0,75	-	2,0
050-032-250/114	90S	1,10	-	2,8
050-032-250/154	90L	1,50	1,75	3,6
050-032-250/224	100L	2,20	2,55	5,1
050-032-250/304	100L	3,00	3,45	6,7
050-032-250/404	112M	-	4,55	8,8
050-032-250/554	132S	-	6,30	11,5
065-040-125/054	80M	0,55	0,63	1,6
065-040-125/074	80M	-	0,86	2,0
065-040-125/114	90S	-	1,27	2,8
065-040-160/054	80M	0,55	-	1,6
065-040-160/074	80M	0,75	-	2,0
065-040-160/114	90S	1,10	1,27	2,8
065-040-160/154	90L	1,50	1,75	3,6
065-040-160/224	100L	-	2,55	5,1
065-040-200/074	80M	0,75	-	2,0
065-040-200/114	90S	1,10	1,27	2,8
065-040-200/154	90L	1,50	1,75	3,6
065-040-200/224	100L	-	2,55	5,1
065-040-200/304	100L	-	3,45	6,7
065-040-250/114	90S	1,10	-	2,8
065-040-250/154	90L	1,50	1,75	3,6
065-040-250/224	100L	2,20	2,55	5,1
065-040-250/304	100L	3,00	3,45	6,7
065-040-250/404	112M	-	4,55	8,8
065-040-250/554	132S	-	6,30	11,5
065-050-125/054	80M	0,55	-	1,6
065-050-125/074	80M	0,75	0,86	2,0
065-050-125/114	90S	1,10	1,27	2,8
065-050-125/154	90L	-	1,75	3,6
065-050-160/074	80M	0,75	-	2,0
065-050-160/114	90S	1,10	1,27	2,8
065-050-160/154	90L	1,50	1,75	3,6
065-050-160/224	100L	2,20	2,55	5,1
065-050-160/304	100L	-	3,45	6,7
065-050-200/074	80M	0,75	-	2,0
065-050-200/114	90S	1,10	-	2,8

¹⁷⁾ The currents indicated are for orientation only. For exact currents refer to the motor rating plate.

¹⁸⁾ The currents indicated are for orientation only. For exact currents refer to the motor rating plate.

Size	Motor	50 Hz	60 Hz	50 Hz [400 V] 60 Hz [460 V]
		[kW]	[kW]	[~A] ¹⁸⁾
065-050-200/154	90L	1,50	1,75	3,6
065-050-200/224	100L	2,20	2,55	5,1
065-050-200/304	100L	3,00	3,45	6,7
065-050-200/404	112M	4,00	4,55	8,8
065-050-200/554	132S	-	6,30	11,5
065-050-250/154	90L	1,50	-	3,6
065-050-250/224	100L	2,20	2,55	5,1
065-050-250/304	100L	3,00	3,45	6,7
065-050-250/404	112M	4,00	4,55	8,8
065-050-250/554	132S	-	6,30	11,5
065-050-250/754	132M	-	8,60	15,5
065-050-250/1104	160M	-	12,60	21,0
080-065-200/154	90L	1,50	-	3,6
080-065-200/224	100L	2,20	2,55	5,1
080-065-200/304	100L	3,00	3,45	6,7
080-065-200/404	112M	4,00	4,55	11,5
080-065-200/554	132S	-	6,30	15,5
080-065-200/754	132M	-	8,60	8,8
080-065-250/224	100L	2,20	-	5,1
080-065-250/304	100L	3,00	-	6,7
080-065-250/404	112M	4,00	4,55	8,8
080-065-250/554	132S	5,50	6,30	11,5
080-065-250/754	132M	7,50	8,60	15,5
080-065-250/1104	160M	-	12,60	21,0
100-080-200/224	100L	2,20	-	5,1
100-080-200/304	100L	3,00	3,45	6,7
100-080-200/404	112M	4,00	4,55	8,8
100-080-200/554	132S	5,50	6,30	11,5
100-080-200/754	132M	7,50	8,60	15,5
100-080-200/1104	160M	-	12,60	21,0
100-080-250/304	100L	3,00	-	6,7
100-080-250/404	112M	4,00	-	8,8
100-080-250/554	132S	5,50	6,30	11,5
100-080-250/754	132M	7,50	8,60	15,5
100-080-250/1104	160M	11,00	12,60	21,0
100-080-250/1504	160L	15,00	17,30	28,5
100-080-250/1854	180M	-	21,30	35,0

Maximum permissible P/n value

Maximum permissible P/n value

Size	Nominal impeller diameter [mm]			
	125	160	200	250
050-025	0,006	0,006	0,006	0,0142
050-032	0,006	0,006	0,006	0,0142
065-040	0,006	0,006	0,006	0,0142
065-050	0,006	0,006	0,0142	0,0142
080-065	-	-	0,0142	0,0256
100-080	-	-	0,0256	0,0256

Maximum permissible speed

Maximum permissible rotational speed [rpm]

Size	Nominal impeller diameter [mm]			
	125	160	200	250
050-025	3600	3600	3600	3000
050-032	3600	3600	3600	3000
065-040	3600	3600	3600	3000
065-050	3600	3600	3600	3000
080-065	-	-	3600	3000
100-080	-	-	3000	1750

Axial mass moment of inertia

Axial mass moment of inertia (J) with water fill

Size	Impeller diameter Q_{min}	Mass moment of inertia J
	[mm]	[kgm ²]
050-025-125.1	136	0,0015
	123	0,0012
	110	0,0010
050-025-125	136	0,0010
	123	0,0010
	110	0,0012
050-025-160	166	0,0031
	151	0,0022
	135	0,0015
050-025-200	196	0,0056
	181	0,0045
	166	0,0031
050-025-250	260	0,0421
	229	0,0258
	198	0,0171
050-032-125.1	136	0,0015
	123	0,0012
	110	0,0010
050-032-125	136	0,0010
	123	0,0010
	110	0,0012
050-032-160	166	0,0031
	151	0,0022
	135	0,0015
050-032-200	196	0,0056
	181	0,0045
	166	0,0031
050-032-250	260	0,0421
	229	0,0258
	198	0,0171
065-040-125	136	0,0020
	123	0,0015
	110	0,0012
065-040-160	166	0,0037
	151	0,0027
	135	0,0019
065-040-200	196	0,0080
	181	0,0052
	166	0,0037
065-040-250	260	0,0436
	230	0,0264
	200	0,0155
065-050-125	142	0,0026
	126	0,0018

¹⁸⁾ The currents indicated are for orientation only. For exact currents refer to the motor rating plate.

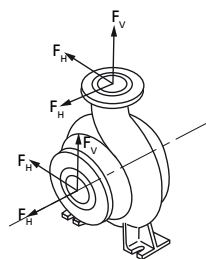
Size	Impeller diameter Q_{min}	Mass moment of inertia J
	[mm]	[kgm ²]
065-050-160	110	0,0014
	170	0,0052
	156	0,0036
	142	0,0026
065-050-200	220	0,0219
	195	0,0147
	170	0,0098
	260	0,0456
065-050-250	235	0,0288
	210	0,0197
	219	0,0287
080-065-200	200	0,0215
	180	0,0167
	255	0,0515
080-065-250	233	0,0369
	210	0,0282
100-080-200	219	0,0412
	200	0,0329
	180	0,0265
100-080-250	169	0,0802
	240	0,0581
	210	0,0429

Liquid fill of pump

Liquid fill of pump

Size	Fill
	[l]
050-025-125.1	1,2
050-025-125	1,2
050-025-160	1,6
050-025-200	1,7
050-025-250	3,8
050-032-125.1	1,2
050-032-125	1,2
050-032-160	1,6
050-032-200	1,7
050-032-250	3,8
065-040-125	1,3
065-040-160	2,0
065-040-200	2,3
065-040-250	4,0
065-050-125	2,3
065-050-160	2,4
065-050-200	3,3
065-050-250	4,0
080-065-200	4,3
080-065-250	4,9
100-080-200	6,5
100-080-250	6,5

Permissible forces and moments at the pump nozzles



$$\left[\frac{\sum |F_{v_i}|}{F_{vmax}} \right]^2 + \left[\frac{\sum |F_{H_i}|}{F_{Hmax}} \right]^2 + \left[\frac{\sum |M_{t_i}|}{M_{tmax}} \right]^2 \leq 1$$

Forces and moments at the pump nozzles

The following condition must be met:

$\sum |F_{v_i}|$, $\sum |F_{H_i}|$, and $\sum |M_{t_i}|$ are the sums of the absolute values of the respective loads acting on the nozzles. Neither the load direction nor the load distribution among the nozzles are taken into account in these sums.

Forces and moments at the pump nozzles¹⁹⁾

Size	F_{vmax}	F_{Hmax}	M_{tmax}
	[kN]	[kN]	[kNm]
050-025-125.1	2,6	1,8	0,55
050-025-125	2,6	1,8	0,55
050-025-160	2,5	1,7	0,5
050-025-200	2,5	1,7	0,5
050-025-250	2,5	1,7	0,5
050-032-125.1	2,6	1,8	0,55
050-032-125	2,6	1,8	0,55
050-032-160	2,5	1,7	0,5
050-032-200	2,5	1,7	0,5
050-032-250	2,5	1,7	0,5
065-040-125	2,6	1,8	0,6
065-040-160	2,6	1,8	0,6
065-040-200	2,6	1,8	0,6
065-040-250	2,6	1,8	0,6
065-050-125	2,7	2,0	0,75
065-050-160	2,7	1,9	0,7
065-050-200	2,7	1,9	0,7
065-050-250	2,7	1,9	0,7
080-065-200	3,0	2,2	0,85
080-065-250	3,2	2,4	1,05
100-080-200	4,0	2,9	1,45
100-080-250	4,0	2,9	1,45

Noise characteristics

Surface sound pressure level L_{pA} ²⁰⁾²¹⁾

Rated power input P_N	Pump set	
	1450 rpm	2900 rpm
[kW]	[dB]	[dB]
0,25	53	-
0,37	54	-
0,55	55	-
0,75	58	65
1,1	58	66
1,5	60	67
2,2	62	69
3	64	70

¹⁹⁾ The indicated values apply to pumps made of chrome nickel molybdenum steel 1.4571 on non-grouted baseplates.

²⁰⁾ Spatial average; as per ISO 3744 and EN 12639; valid for pump operation in the $Q/Q_{opt} = 0.80 - 1.1$ range and for non-cavitating operation. If noise levels are to be warranted: add +3 dB for measuring and constructional tolerance.

²¹⁾ Increase for 60 Hz operation at 3500 rpm: +3 dB, at 1750 rpm: +1 dB

Rated power input P_N	Pump set	
	1450 rpm	2900 rpm
[kW]	[dB]	[dB]
4	66	72
5,5	68	74
7,5	70	76
11	73	78
15	-	80
18,5	-	82
22	-	83
30	-	86
37	-	88
45	-	90

Mechanical seal design

Installation dimensions to EN 12756

Example: KU022SO

Description

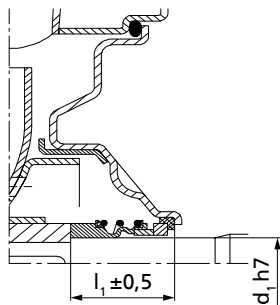
Code	Description
K	Design
K	Short design
U	Type
U	Unbalanced
022	Nominal diameter of the mechanical seal
S	Direction of rotation of the mechanical seal
S	Bi-directional
O	Anti-twist lock
O	Without lock

Mechanical seal sizes

Selection table

Size	Nominal impeller diameter [mm]			
	125	160	200	250
050-025	KU022SO	KU022SO	KU022SO	KU028SO
050-032	KU022SO	KU022SO	KU022SO	KU028SO
065-040	KU022SO	KU022SO	KU022SO	KU028SO
065-050	KU022SO	KU022SO	KU028SO	KU028SO
080-065	-	-	KU028SO	KU038SO
100-080	-	-	KU038SO	KU038SO

Mechanical seal dimensions



Mechanical seal dimensions

Selection table

Code	d_1	l_1
	[mm]	[mm]
KU022SO	22	37,5
KU028SO	28	42,5
KU038SO	38	55,0

Design code

Selection table

	Design code			
	9	10	11	19
Description	Code to EN 12756			
Primary ring	U3	Q1	B	Q1
Mating ring	U3	Q1	Q1	Q1
Secondary seal	V	X4	E	M1
Spring	G	G	G	G
Other parts	G	G	G	G

Material code

Selection table

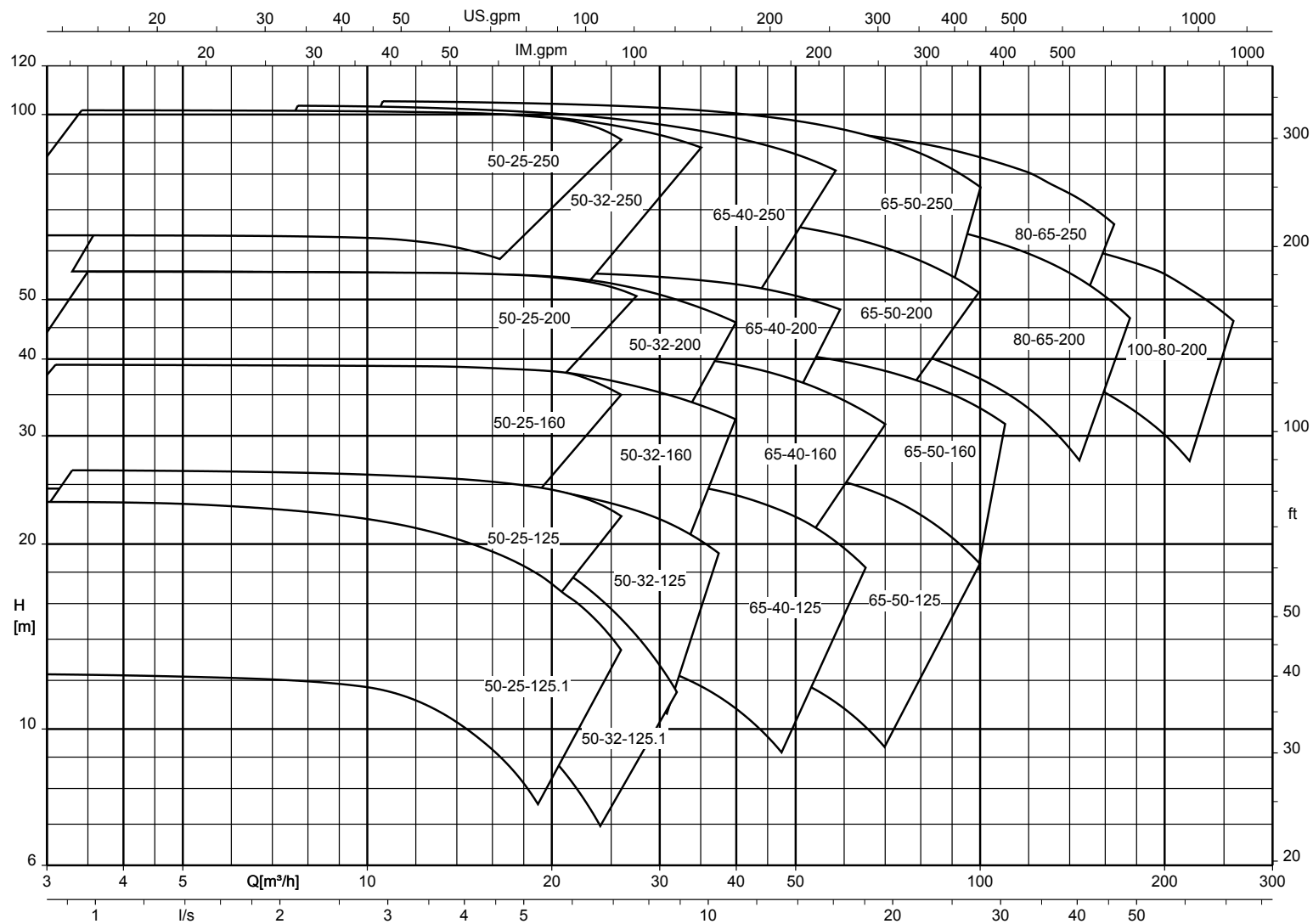
Code	Material
B	Carbon, resin-impregnated
E	EPDM
G	CrNiMo steel
M1	FKM, double PTFE-coated
Q1	Silicon carbide
U3	Tungsten carbide
V	FPM
X4	HNBR, e.g. Therban

Additional information

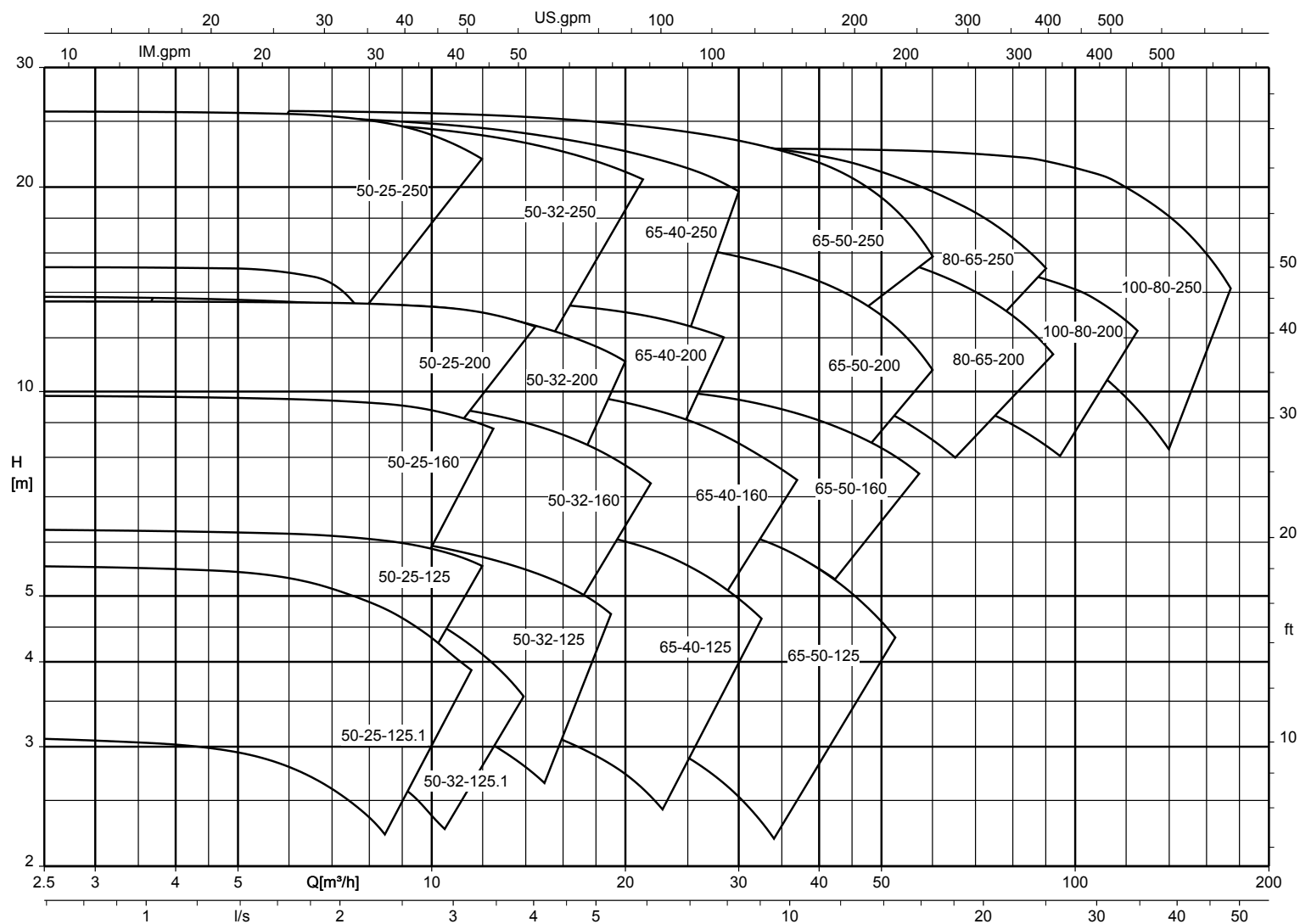
- **Contact guard**
 - Cover plates on drive lantern to EN 294

Selection charts

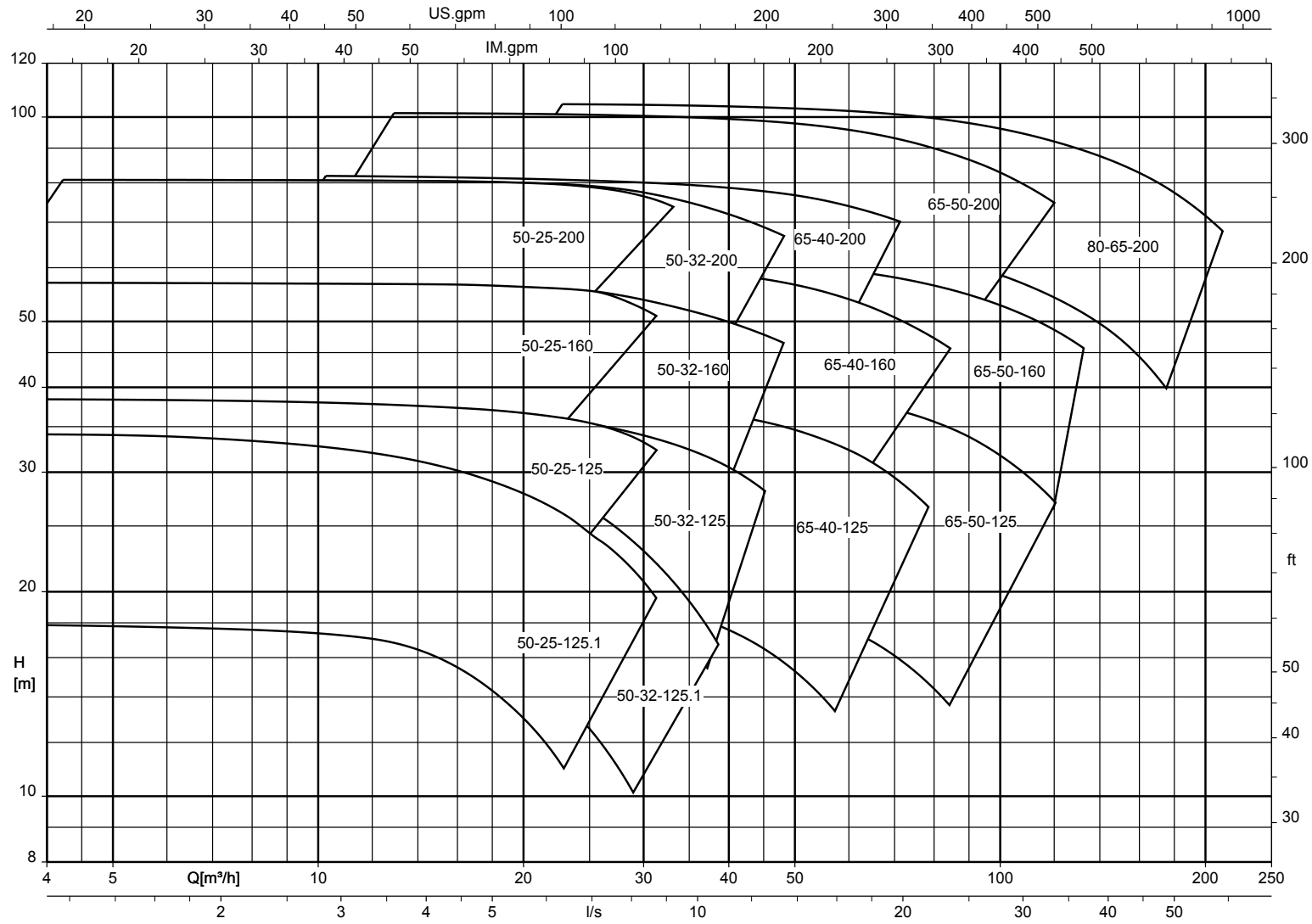
Etachrom B, n = 2900 rpm



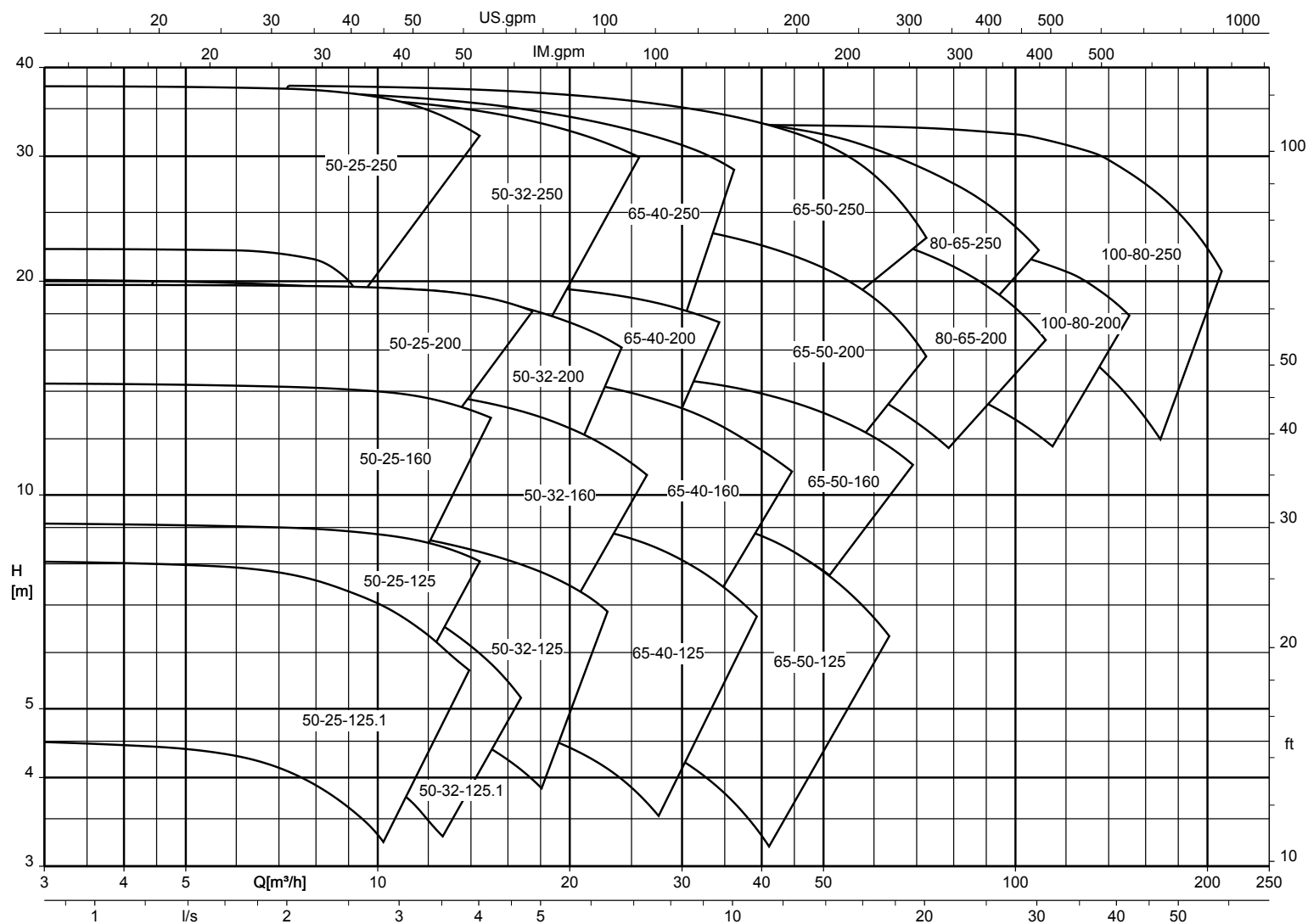
Etachrom B, n = 1450 rpm



Etachrom B, n = 3500 rpm



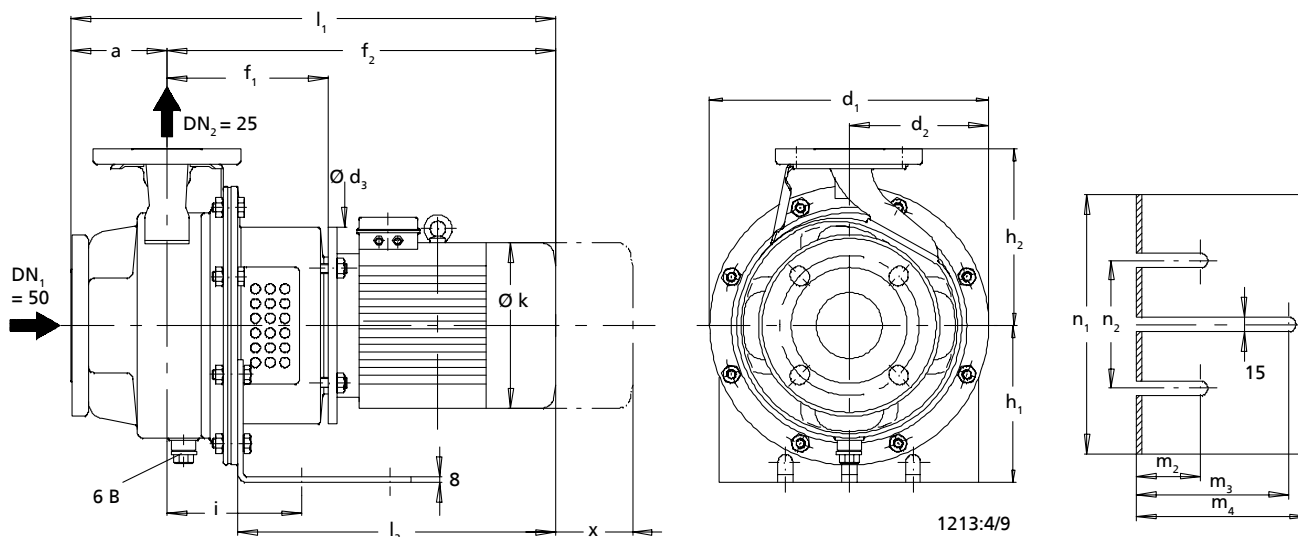
Etachrom B, n = 1750 rpm



Dimensions and weights

Dimensions

Etachrom B 25, up to motor 112 (4.00 kW), with pump foot



Etachrom B with pump foot

6 B	Fluid drain	G 3/8 = ISO 228/1
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DN = EN 1092-2/DN.../PN 16/B

Dimensions

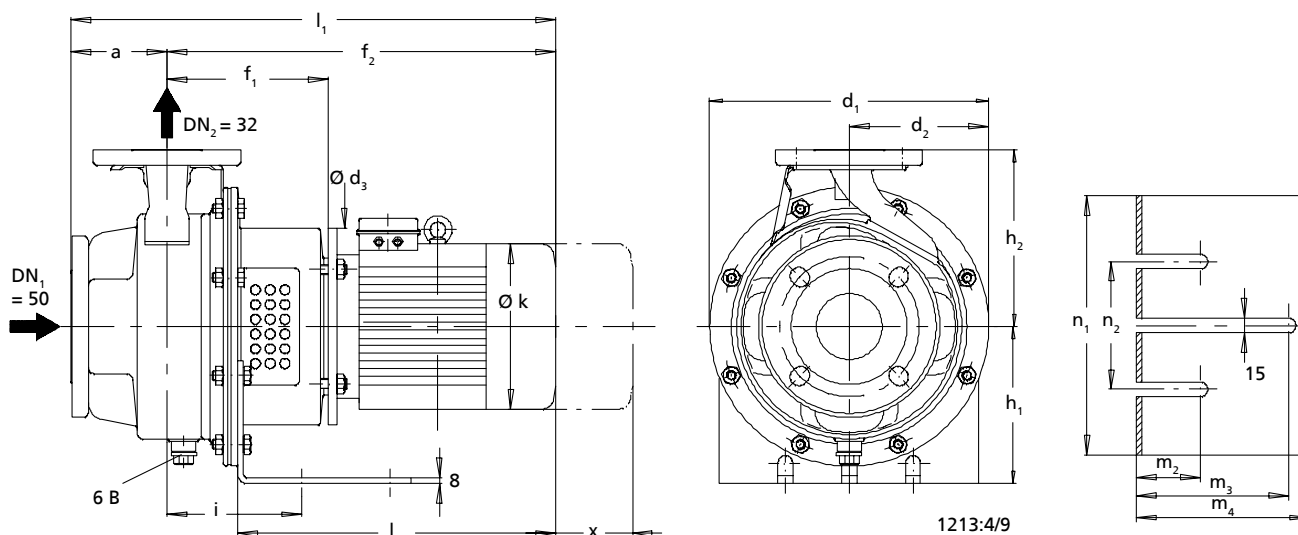
Size	1450 rpm	1750 rpm	2900 rpm	3500 rpm	a	d ₁	d ₂	d ₃	f ₁	f ₂	h ₁	h ₂	i	k	l ₁	l ₂	m ₂	m ₃	m ₄	n ₁	n ₂	x
	[kW]				[mm] ²²⁾																	
050-025-125.1	0,55	0,63	-	-	80	219	110	200	158	427	160	140	135	162	507	357	65	155	176	225	130	115
050-025-125.1	-	-	0,75	-	80	219	110	200	158	427	160	140	135	162	507	357	65	155	176	225	130	115
050-025-125.1	-	-	1,10	1,27	80	219	110	200	158	459	160	140	135	162	539	389	65	155	176	225	130	115
050-025-125.1	-	-	1,50	1,75	80	219	110	200	158	512	160	140	135	190	592	442	65	155	176	225	130	115
050-025-125.1	-	-	2,20	2,55	80	219	110	200	158	512	160	140	135	190	592	442	65	155	176	225	130	115
050-025-125.1	-	-	3,00	3,45	80	219	110	250	168	558	160	140	135	213	638	488	65	155	176	225	130	115
050-025-125.1	-	-	4,00	4,55	80	219	110	250	168	540	160	140	135	235	620	470	65	155	176	225	130	115
050-025-125	0,55	0,63	-	-	80	219	110	200	158	427	160	140	135	162	507	357	65	155	176	225	130	115
050-025-125	-	-	0,75	-	80	219	110	200	158	427	160	140	135	162	507	357	65	155	176	225	130	115
050-025-125	-	-	1,10	-	80	219	110	200	158	459	160	140	135	162	539	389	65	155	176	225	130	115
050-025-125	-	-	1,50	1,75	80	219	110	200	158	512	160	140	135	190	592	442	65	155	176	225	130	115
050-025-125	-	-	2,20	2,55	80	219	110	200	158	512	160	140	135	190	592	442	65	155	176	225	130	115
050-025-125	-	-	3,00	3,45	80	219	110	250	168	558	160	140	135	213	638	488	65	155	176	225	130	115
050-025-125	-	-	4,00	4,55	80	219	110	250	168	540	160	140	135	235	620	470	65	155	176	225	130	115
050-025-160	0,55	0,63	-	-	80	254	127	200	158	427	160	160	135	162	507	357	65	155	176	236	130	115
050-025-160	-	0,86	-	-	80	254	127	200	158	459	160	160	135	162	539	389	65	155	176	236	130	115
050-025-160	-	1,27	-	-	80	254	127	200	158	512	160	160	135	190	592	442	65	155	176	236	130	115
050-025-160	-	-	1,50	-	80	254	127	200	158	512	160	160	135	190	592	442	65	155	176	236	130	115
050-025-160	-	-	2,20	2,55	80	254	127	200	158	512	160	160	135	190	592	442	65	155	176	236	130	115

²²⁾ Tolerances of mating dimensions to EN 735

Size	1450 rpm	1750 rpm	2900 rpm	3500 rpm	a	d ₁	d ₂	d ₃	f ₁	f ₂ ~	h ₁	h ₂	i	k ~	l ₁ ~	l ₂ ~	m ₂	m ₃	m ₄	n ₁	n ₂	x
	[kW]				[mm] ²²⁾																	
050-025-160	-	-	3,00	3,45	80	254	127	250	168	558	160	160	135	213	638	488	65	155	176	236	130	115
050-025-160	-	-	4,00	4,55	80	254	127	250	168	540	160	160	135	235	620	470	65	155	176	236	130	115
050-025-200	0,55	-	-	-	80	284	142	200	158	427	160	180	135	162	507	357	65	155	176	264	130	115
050-025-200	0,75	0,86	-	-	80	284	142	200	158	459	160	180	135	162	539	389	65	155	176	264	130	115
050-025-200	1,10	1,27	-	-	80	284	142	200	158	512	160	180	135	190	592	442	65	155	176	264	130	115
050-025-200	-	1,75	-	-	80	284	142	200	158	512	160	180	135	190	592	442	65	155	176	264	130	115
050-025-200	-	2,55	-	-	80	284	142	250	168	558	160	180	135	213	638	488	65	155	176	264	130	115
050-025-200	-	-	3,00	-	80	284	142	250	168	558	160	180	135	213	638	488	65	155	176	264	130	115
050-025-200	-	-	4,00	4,55	80	284	142	250	168	540	160	180	135	235	620	470	65	155	176	264	130	115
050-025-250	0,75	-	-	-	100	348	174	200	156	457	180	225	118	162	557	369	30	110	140	225	130	130
050-025-250	1,10	1,27	-	-	100	348	174	200	156	510	180	225	118	190	610	422	30	110	140	225	130	130
050-025-250	1,50	1,75	-	-	100	348	174	200	156	510	180	225	118	190	610	422	30	110	140	225	130	130
050-025-250	-	2,55	-	-	100	348	174	250	170	560	180	225	118	213	660	472	30	110	140	225	130	130
050-025-250	-	3,45	-	-	100	348	174	250	170	560	180	225	118	213	660	472	30	110	140	225	130	130

²²⁾ Tolerances of mating dimensions to EN 735

Etachrom B 32, up to motor 112 (4.00 kW), with pump foot



Etachrom B with pump foot

6 B	Fluid drain	G ^{3/8} = ISO 228/1
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DN = EN 1092-2/DN.../PN 16/B

Dimensions

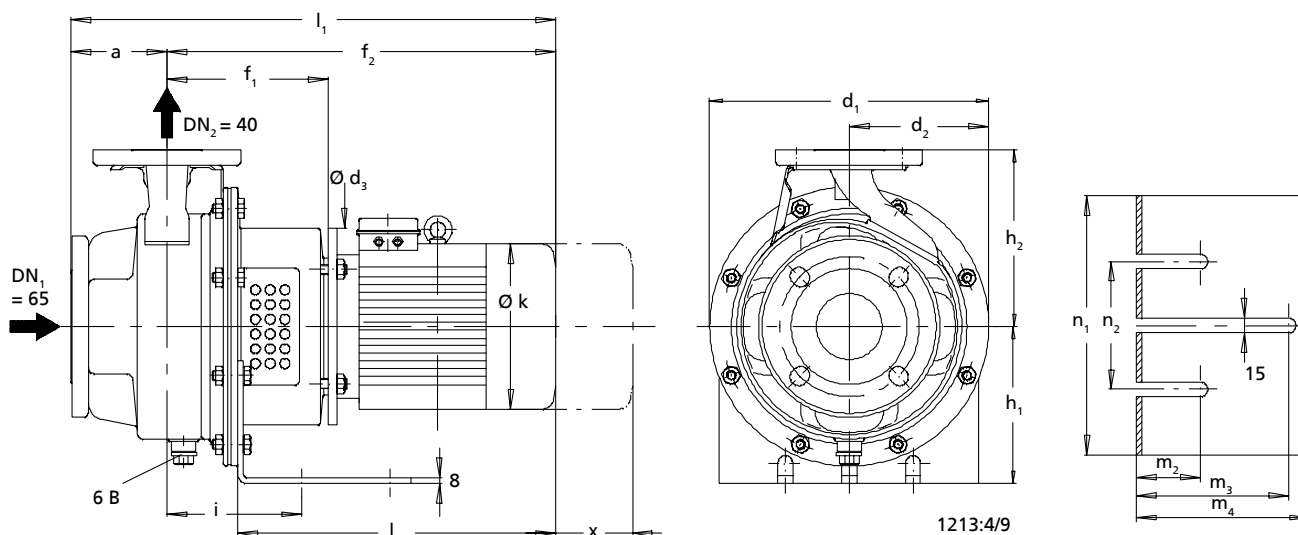
Size	1450 rpm	1750 rpm	2900 rpm	3500 rpm	a	d ₁	d ₂	d ₃	f ₁	f ₂	h ₁	h ₂	i	k	l ₁	l ₂	m ₂	m ₃	m ₄	n ₁	n ₂	x
	[kW]				[mm] ²³⁾																	
050-032-125.1	0,55	0,63	-	-	80	219	110	200	158	427	160	140	135	162	507	357	65	155	176	225	130	115
050-032-125.1	-	0,86	-	-	80	219	110	200	158	459	160	140	135	162	539	389	65	155	176	225	130	115
050-032-125.1	-	-	0,75	-	80	219	110	200	158	427	160	140	135	162	507	357	65	155	176	225	130	115
050-032-125.1	-	-	1,10	-	80	219	110	200	158	459	160	140	135	162	539	389	65	155	176	225	130	115
050-032-125.1	-	-	1,50	1,75	80	219	110	200	158	512	160	140	135	190	592	442	65	155	176	225	130	115
050-032-125.1	-	-	-	2,55	80	219	110	200	158	512	160	140	135	190	592	442	65	155	176	225	130	115
050-032-125.1	-	-	-	3,45	80	219	110	250	168	558	160	140	135	213	638	488	65	155	176	225	130	115
050-032-125.1	-	-	-	4,55	80	219	110	250	168	540	160	140	135	235	620	470	65	155	176	225	130	115
050-032-125	0,55	0,63	-	-	80	219	110	200	158	427	160	140	135	162	507	357	65	155	176	225	130	115
050-032-125	-	0,86	-	-	80	219	110	200	158	459	160	140	135	162	539	389	65	155	176	225	130	115
050-032-125	-	-	1,50	-	80	219	110	200	158	512	160	140	135	190	592	442	65	155	176	225	130	115
050-032-125	-	-	2,20	2,55	80	219	110	200	158	512	160	140	135	190	592	442	65	155	176	225	130	115
050-032-125	-	-	3,00	3,45	80	219	110	250	168	558	160	140	135	213	638	488	65	155	176	225	130	115
050-032-125	-	-	-	4,55	80	219	110	250	168	540	160	140	135	235	620	470	65	155	176	225	130	115
050-032-160	0,55	0,63	-	-	80	254	127	200	158	427	160	160	135	162	507	357	65	155	176	236	130	115
050-032-160	0,75	0,86	-	-	80	254	127	200	158	459	160	160	135	162	539	389	65	155	176	236	130	115
050-032-160	-	1,27	-	-	80	254	127	200	158	512	160	160	135	190	592	442	65	155	176	236	130	115
050-032-160	-	1,75	-	-	80	254	127	200	158	512	160	160	135	190	592	442	65	155	176	236	130	115
050-032-160	-	-	2,20	-	80	254	127	200	158	512	160	160	135	190	592	442	65	155	176	236	130	115
050-032-160	-	-	3,00	3,45	80	254	127	250	168	558	160	160	135	213	638	488	65	155	176	236	130	115
050-032-160	-	-	4,00	4,55	80	254	127	250	168	540	160	160	135	235	620	470	65	155	176	236	130	115
050-032-200	0,55	-	-	-	80	284	142	200	158	427	160	180	135	162	507	357	65	155	176	264	130	115
050-032-200	0,75	-	-	-	80	284	142	200	158	459	160	180	135	162	539	389	65	155	176	264	130	115

²³⁾ Tolerances of mating dimensions to EN 735

Size	1450 rpm	1750 rpm	2900 rpm	3500 rpm	a	d ₁	d ₂	d ₃	f ₁	f ₂	h ₁	h ₂	i	k	l ₁	l ₂	m ₂	m ₃	m ₄	n ₁	n ₂	x
	[kW]				[mm] ²³⁾																	
050-032-200	1,10	1,27	-	-	80	284	142	200	158	512	160	180	135	190	592	442	65	155	176	264	130	115
050-032-200	-	1,75	-	-	80	284	142	200	158	512	160	180	135	190	592	442	65	155	176	264	130	115
050-032-200	-	2,55	-	-	80	284	142	250	168	558	160	180	135	213	638	488	65	155	176	264	130	115
050-032-200	-	-	3,00	-	80	284	142	250	168	558	160	180	135	213	638	488	65	155	176	264	130	115
050-032-200	-	-	4,00	-	80	284	142	250	168	540	160	180	135	235	620	470	65	155	176	264	130	115
050-032-250	0,75	-	-	-	100	348	174	200	156	457	180	225	118	162	557	369	30	110	140	225	130	130
050-032-250	1,10	-	-	-	100	348	174	200	156	510	180	225	118	190	610	422	30	110	140	225	130	130
050-032-250	1,50	1,75	-	-	100	348	174	200	156	510	180	225	118	190	610	422	30	110	140	225	130	130
050-032-250	2,20	2,55	-	-	100	348	174	250	170	560	180	225	118	213	660	472	30	110	140	225	130	130
050-032-250	3,00	3,45	-	-	100	348	174	250	170	560	180	225	118	213	660	472	30	110	140	225	130	130
050-032-250	-	4,55	-	-	100	348	174	250	170	542	180	225	118	235	642	454	30	110	140	225	130	130

²³⁾ Tolerances of mating dimensions to EN 735

Etachrom B 40, up to motor 112 (4.00 kW), with pump foot



Etachrom B with pump foot

6 B	Fluid drain	G ^{3/8} = ISO 228/1
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DN = EN 1092-2/DN.../PN 16/B

Dimensions

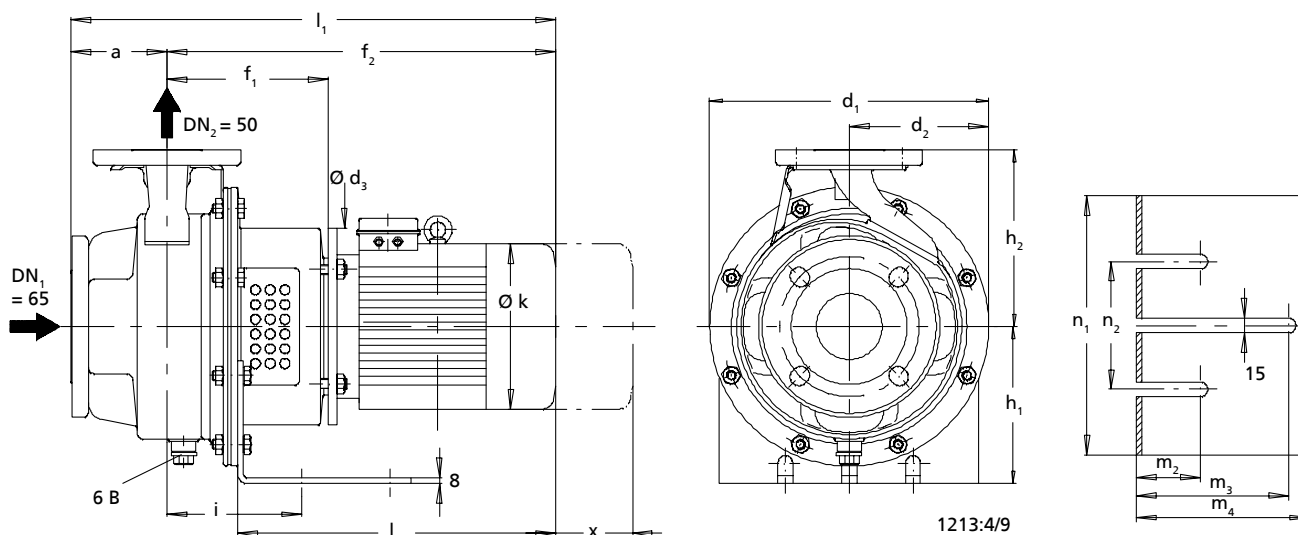
Size	1450 rpm	1750 rpm	2900 rpm	3500 rpm	a	d ₁	d ₂	d ₃	f ₁	f ₂	h ₁	h ₂	i	k	l ₁	l ₂	m ₂	m ₃	m ₄	n ₁	n ₂	x
	[kW]				[mm] ²⁴⁾																	
065-040-125	0,55	0,63	-	-	80	219	110	200	160	429	160	140	137	162	509	357	65	155	176	225	130	115
065-040-125	-	0,86	-	-	80	219	110	200	160	461	160	140	137	162	541	389	65	155	176	225	130	115
065-040-125	-	1,27	-	-	80	219	110	200	160	514	160	140	137	190	594	442	65	155	176	225	130	115
065-040-125	-	-	1,50	-	80	219	110	200	160	514	160	140	137	190	594	442	65	155	176	225	130	115
065-040-125	-	-	2,20	2,55	80	219	110	200	160	514	160	140	137	190	594	442	65	155	176	225	130	115
065-040-125	-	-	3,00	3,45	80	219	110	250	170	560	160	140	137	213	640	488	65	155	176	225	130	115
065-040-125	-	-	4,00	4,55	80	219	110	250	170	542	160	140	137	235	622	470	65	155	176	225	130	115
065-040-160	0,55	-	-	-	80	254	127	200	160	429	160	160	137	162	509	357	65	155	176	236	130	115
065-040-160	0,75	-	-	-	80	254	127	200	160	461	160	160	137	162	541	389	65	155	176	236	130	115
065-040-160	1,10	1,27	-	-	80	254	127	200	160	514	160	160	137	190	594	442	65	155	176	236	130	115
065-040-160	1,50	1,75	-	-	80	254	127	200	160	514	160	160	137	190	594	442	65	155	176	236	130	115
065-040-160	-	2,55	-	-	80	254	127	250	170	560	160	160	137	213	640	488	65	155	176	236	130	115
065-040-160	-	-	3,00	-	80	254	127	250	170	560	160	160	137	213	640	488	65	155	176	236	130	115
065-040-160	-	-	4,00	-	80	254	127	250	170	542	160	160	137	235	622	470	65	155	176	236	130	115
065-040-200	0,75	-	-	-	100	284	142	200	160	461	160	180	137	162	561	389	65	155	176	264	130	115
065-040-200	1,10	1,27	-	-	100	284	142	200	160	514	160	180	137	190	614	442	65	155	176	264	130	115
065-040-200	1,50	1,75	-	-	100	284	142	200	160	514	160	180	137	190	614	442	65	155	176	264	130	115
065-040-200	-	2,55	-	-	100	284	142	250	170	560	160	180	137	213	660	488	65	155	176	264	130	115
065-040-200	-	3,45	-	-	100	284	142	250	170	560	160	180	137	213	660	488	65	155	176	264	130	115
065-040-250	1,10	-	-	-	100	348	174	200	156	510	180	225	118	190	610	422	30	110	140	225	130	130
065-040-250	1,50	1,75	-	-	100	348	174	200	156	510	180	225	118	190	610	422	30	110	140	225	130	130
065-040-250	2,20	2,55	-	-	100	348	174	250	170	560	180	225	118	213	660	472	30	110	140	225	130	130

²⁴⁾ Tolerances of mating dimensions to EN 735

Size	1450 rpm	1750 rpm	2900 rpm	3500 rpm	a	d ₁	d ₂	d ₃	f ₁	f ₂ ~	h ₁	h ₂	i	k ~	l ₁ ~	l ₂ ~	m ₂	m ₃	m ₄	n ₁	n ₂	x
	[kW]				[mm] ²⁴⁾																	
065-040-250	3,00	3,45	-	-	100	348	174	250	170	560	180	225	118	213	660	472	30	110	140	225	130	130
065-040-250	-	4,55	-	-	100	348	174	250	170	542	180	225	118	235	642	454	30	110	140	225	130	130

²⁴⁾ Tolerances of mating dimensions to EN 735

Etachrom B 50, up to motor 112 (4.00 kW), with pump foot



Etachrom B with pump foot

6 B	Fluid drain	G 3/8 = ISO 228/1
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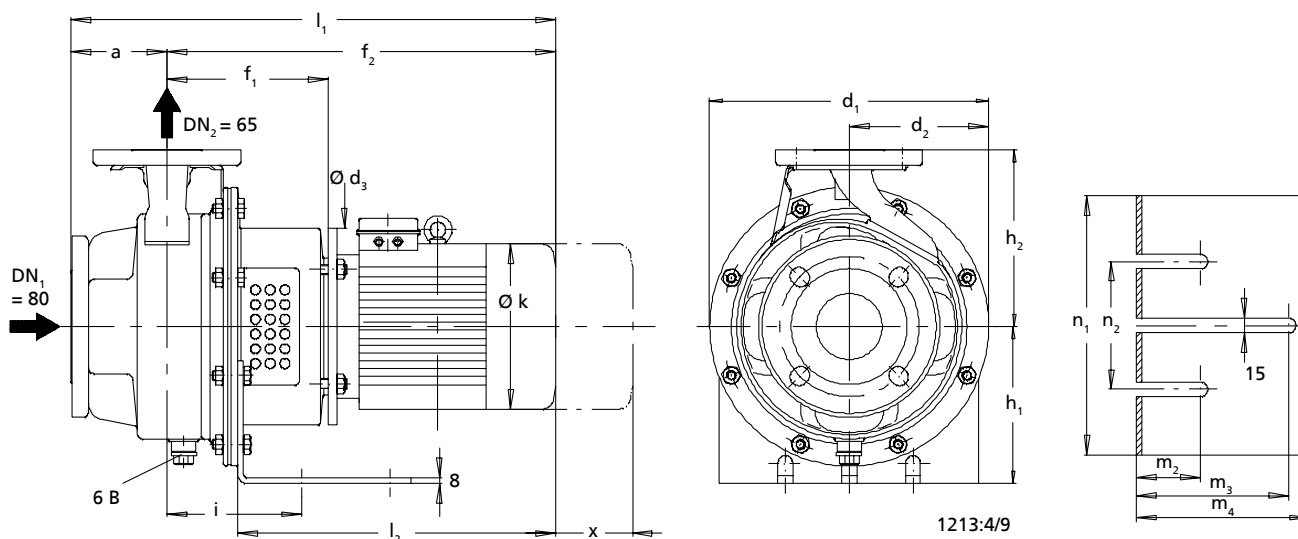
DN = EN 1092-2/DN.../PN 16/B

Dimensions

Size	1450 rpm	1750 rpm	2900 rpm	3500 rpm	a	d ₁	d ₂	d ₃	f ₁	f ₂	h ₁	h ₂	i	k	l ₁	l ₂	m ₂	m ₃	m ₄	n ₁	n ₂	x
	[kW]				[mm] ²⁵⁾																	
065-050-125	0,55	-	-	-	100	254	127	200	160	429	160	160	137	162	529	357	65	155	176	236	130	130
065-050-125	0,75	0,86	-	-	100	254	127	200	160	461	160	160	137	162	561	389	65	155	176	236	130	130
065-050-125	1,10	1,27	-	-	100	254	127	200	160	514	160	160	137	190	614	442	65	155	176	236	130	130
065-050-125	-	1,75	-	-	100	254	127	200	160	514	160	160	137	190	614	442	65	155	176	236	130	130
065-050-125	-	-	3,00	-	100	254	127	250	170	560	160	160	137	213	660	488	65	155	176	236	130	130
065-050-125	-	-	4,00	-	100	254	127	250	170	542	160	160	137	235	642	470	65	155	176	236	130	130
065-050-160	0,75	-	-	-	100	254	127	200	160	461	160	180	137	162	561	389	65	155	176	236	130	130
065-050-160	1,10	1,27	-	-	100	254	127	200	160	514	160	180	137	190	614	442	65	155	176	236	130	130
065-050-160	1,50	1,75	-	-	100	254	127	200	160	514	160	180	137	190	614	442	65	155	176	236	130	130
065-050-160	2,20	2,55	-	-	100	254	127	250	170	560	160	180	137	213	660	488	65	155	176	236	130	130
065-050-160	-	3,45	-	-	100	254	127	250	170	560	160	180	137	213	660	488	65	155	176	236	130	130
065-050-200	0,75	-	-	-	100	313	157	200	156	457	180	200	118	162	557	369	30	110	140	225	130	130
065-050-200	1,10	-	-	-	100	313	157	200	156	510	180	200	118	190	610	422	30	110	140	225	130	130
065-050-200	1,50	1,75	-	-	100	313	157	200	156	510	180	200	118	190	610	422	30	110	140	225	130	130
065-050-200	2,20	2,55	-	-	100	313	157	250	170	560	180	200	118	213	660	472	30	110	140	225	130	130
065-050-200	3,00	3,45	-	-	100	313	157	250	170	560	180	200	118	213	660	472	30	110	140	225	130	130
065-050-200	4,00	4,55	-	-	100	313	157	250	170	542	180	200	118	235	642	454	30	110	140	225	130	130
065-050-250	1,50	-	-	-	100	348	174	200	156	510	180	225	118	190	610	422	30	110	140	225	130	130
065-050-250	2,20	2,55	-	-	100	348	174	250	170	560	180	225	118	213	660	472	30	110	140	225	130	130
065-050-250	3,00	3,45	-	-	100	348	174	250	170	560	180	225	118	213	660	472	30	110	140	225	130	130
065-050-250	4,00	4,55	-	-	100	348	174	250	170	542	180	225	118	235	642	454	30	110	140	225	130	130

25) Tolerances of mating dimensions to EN 735

Etachrom B 65, up to motor 112 (4.00 kW), with pump foot



Etachrom B with pump foot

6 B	Fluid drain	G 3/8 = ISO 228/1
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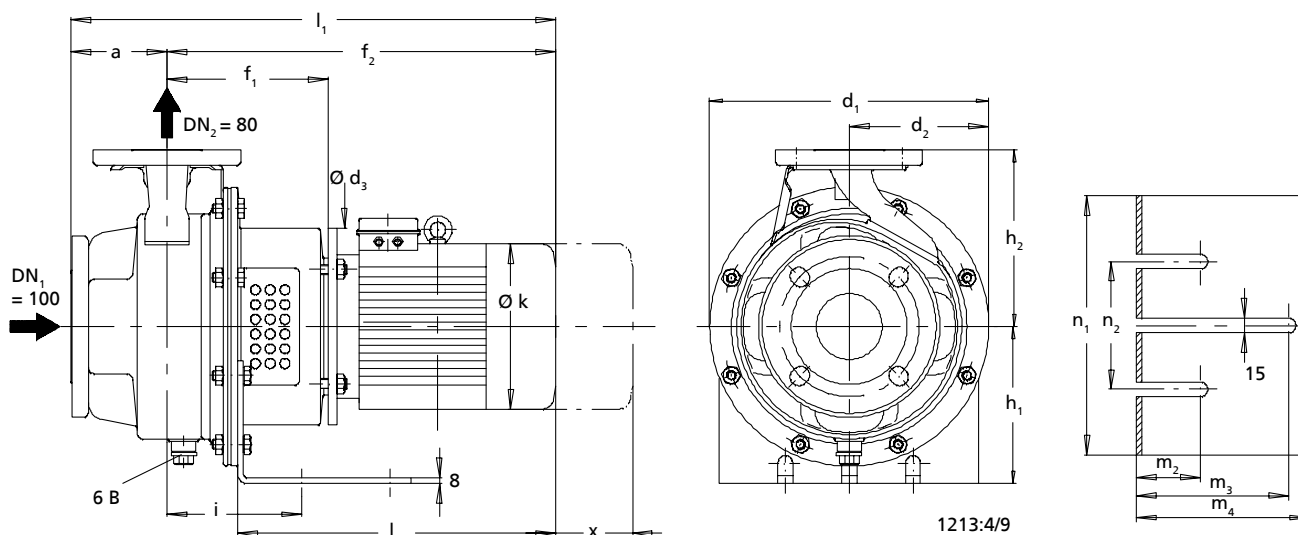
DN = EN 1092-2/DN.../PN 16/B

Dimensions

Size	1450 rpm	1750 rpm	2900 rpm	3500 rpm	a	d ₁	d ₂	d ₃	f ₁	f ₂	h ₁	h ₂	i	k	l ₁	l ₂	m ₂	m ₃	m ₄	n ₁	n ₂	x
	[kW]				[mm] ²⁶⁾																	
080-065-200	1,50	-	-	-	100	348	174	200	156	510	180	225	118	190	610	422	30	110	140	225	130	130
080-065-200	2,20	2,55	-	-	100	348	174	250	170	560	180	225	118	213	660	472	30	110	140	225	130	130
080-065-200	3,00	3,45	-	-	100	348	174	250	170	560	180	225	118	213	660	472	30	110	140	225	130	130
080-065-200	4,00	4,55	-	-	100	348	174	250	170	542	180	225	118	235	642	454	30	110	140	225	130	130
080-065-250	2,20	-	-	-	100	348	174	250	190	580	180	250	145	213	680	465	30	120	160	260	180	140
080-065-250	3,00	-	-	-	100	348	174	250	190	580	180	250	145	213	680	465	30	120	160	260	180	140
080-065-250	4,00	4,55	-	-	100	348	174	250	190	562	180	250	145	235	662	447	30	120	160	260	180	140

²⁶⁾ Tolerances of mating dimensions to EN 735

Etachrom B 80, up to motor 112 (4.00 kW), with pump foot



Etachrom B with pump foot

6 B	Fluid drain	G 3/8 = ISO 228/1
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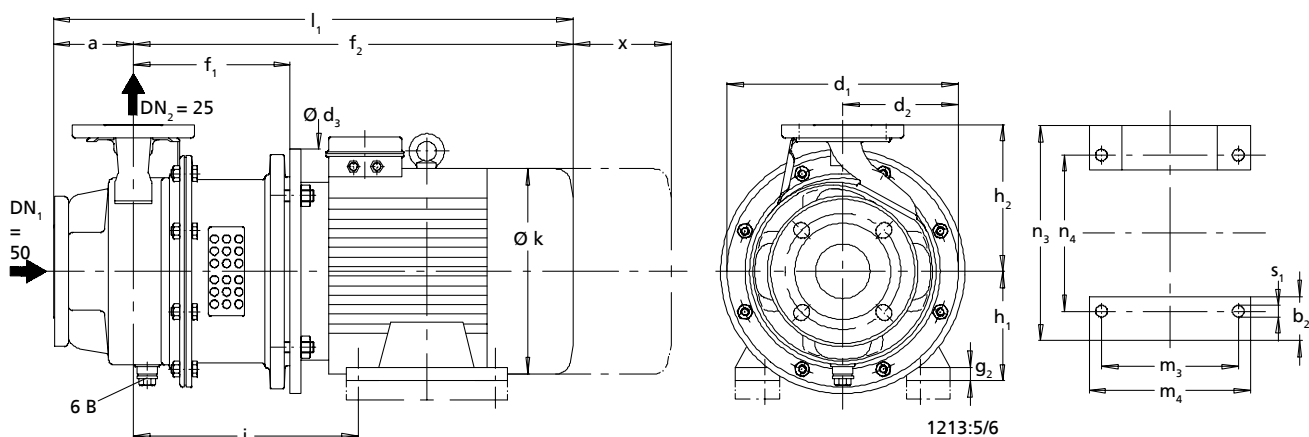
DN = EN 1092-2/DN.../PN 16/B

Dimensions

Size	1450 rpm	1750 rpm	2900 rpm	3500 rpm	a	d ₁	d ₂	d ₃	f ₁	f ₂	h ₁	h ₂	i	k	l ₁	l ₂	m ₂	m ₃	m ₄	n ₁	n ₂	x
	[kW]				[mm] ²⁷⁾																	
100-080-200	2,20	-	-	-	125	348	174	250	190	580	180	250	145	213	705	465	30	120	160	260	180	150
100-080-200	3,00	3,45	-	-	125	348	174	250	190	580	180	250	145	213	705	465	30	120	160	260	180	150
100-080-200	4,00	4,55	-	-	125	348	174	250	190	562	180	250	145	235	687	447	30	120	160	260	180	150
100-080-250	3,00	-	-	-	125	348	174	250	190	580	180	280	145	213	705	465	30	120	160	260	180	150
100-080-250	4,00	-	-	-	125	348	174	250	190	562	180	280	145	235	687	447	30	120	160	260	180	150

²⁷⁾ Tolerances of mating dimensions to EN 735

Etachrom B 25, from motor 132 (5.50 kW), with motor foot



Etachrom B with motor foot

6 B	Fluid drain	G 3/8 = ISO 228/1
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DN = EN 1092-2/DN.../PN 16/B

Dimensions

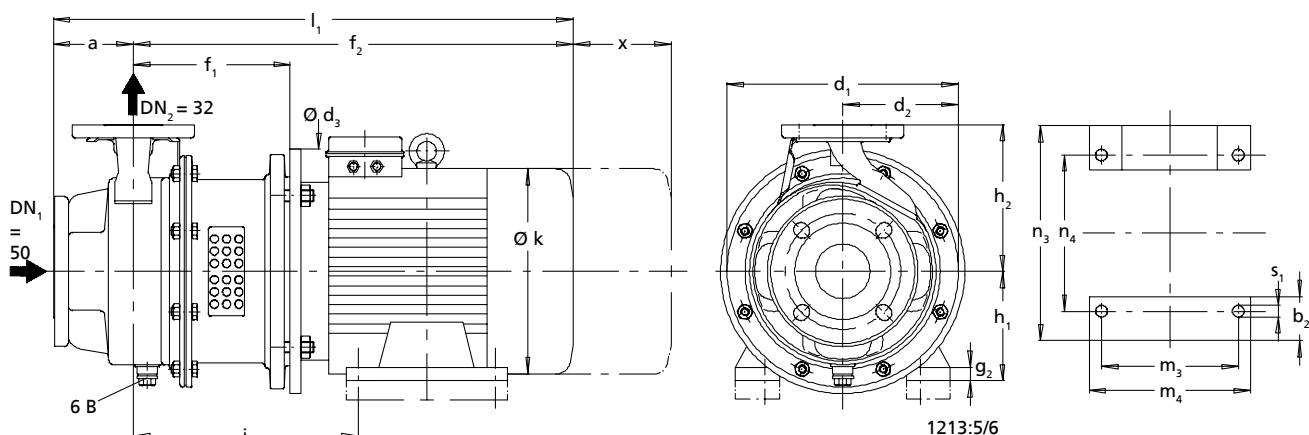
Size	1450 rpm	1750 rpm	2900 rpm	3500 rpm	a	b ₂	d ₁	d ₂	d ₃	f ₁	f ₂	g ₂	h ₁	h ₂	i	k	l ₁	m ₃	m ₄	n ₃	n ₄	s ₁	x
	[kW]				[mm] ²⁸⁾																		
050-025-160 ²⁹⁾	-	-	-	6,30	80	55	254	127	300	188	601	15	132	160	277	274	681	140	220	270	216	12	115
050-025-160 ²⁹⁾	-	-	-	8,60	80	55	254	127	300	188	645	15	132	160	277	274	725	140	220	270	216	12	115
050-025-200 ²⁹⁾	-	-	5,50	6,30	80	55	284	142	300	188	601	15	132	180	277	274	681	140	220	270	216	12	115
050-025-200 ²⁹⁾	-	-	7,50	8,60	80	55	284	142	300	188	645	15	132	180	277	274	725	140	220	270	216	12	115
050-025-200 ²⁹⁾	-	-	-	12,60	80	70	284	142	350	218	764	21	160	180	326	325	844	210	310	323	254	15	115
050-025-200 ²⁹⁾	-	-	-	17,30	80	70	284	142	350	218	764	21	160	180	326	325	844	210	310	323	254	15	115
050-025-250 ³⁰⁾	-	-	5,50	-	100	55	348	174	300	193	606	15	132	225	282	274	706	140	220	270	216	12	130
050-025-250 ³⁰⁾	-	-	7,50	-	100	55	348	174	300	193	650	15	132	225	282	274	750	140	220	270	216	12	130
050-025-250 ²⁹⁾	-	-	11,00	-	100	70	348	174	350	226	772	21	160	225	334	325	872	210	310	323	254	15	130
050-025-250 ²⁹⁾	-	-	15,00	-	100	70	348	174	350	226	772	21	160	225	334	325	872	210	310	323	254	15	130

²⁸⁾ Tolerances of mating dimensions to EN 735

²⁹⁾ On this size, the motor feet must be shimmed (20 mm).

³⁰⁾ On this size, the motor feet must be shimmed (45 mm).

Etachrom B 32, from motor 132 (5.50 kW), with motor foot



Etachrom B with motor foot

6 B	Fluid drain	G 3/8 = ISO 228/1
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DN = EN 1092-2/DN.../PN 16/B

Dimensions

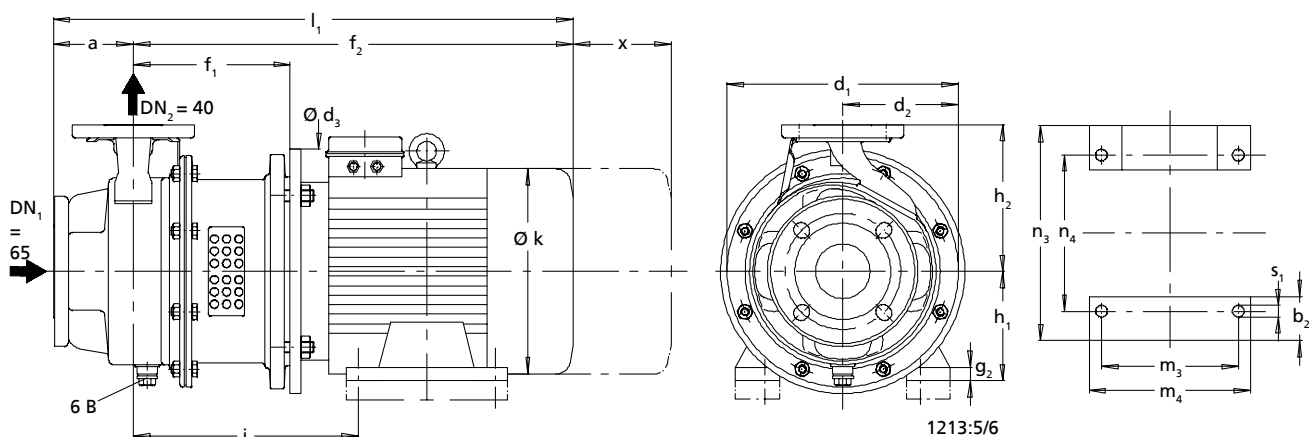
Size	1450 rpm	1750 rpm	2900 rpm	3500 rpm	a	b ₂	d ₁	d ₂	d ₃	f ₁	f ₂	g ₂	h ₁	h ₂	i	k	l ₁	m ₃	m ₄	n ₃	n ₄	s ₁	x
	[kW]				[mm] ³¹⁾																		
050-032-160 ³²⁾	-	-	5,50	6,30	80	55	254	127	300	188	601	15	132	160	277	274	681	140	220	270	216	12	115
050-032-160 ³²⁾	-	-	-	8,60	80	55	254	127	300	188	645	15	132	160	277	274	725	140	220	270	216	12	115
050-032-160 ³²⁾	-	-	-	12,60	80	70	254	127	350	218	764	21	160	160	326	325	844	210	310	323	254	15	115
050-032-200 ³²⁾	-	-	5,50	6,30	80	55	284	142	300	188	601	15	132	180	277	274	681	140	220	270	216	12	115
050-032-200 ³²⁾	-	-	7,50	8,60	80	55	284	142	300	188	645	15	132	180	277	274	725	140	220	270	216	12	115
050-032-200 ³²⁾	-	-	11,00	12,60	80	70	284	142	350	218	764	21	160	180	326	325	844	210	310	323	254	15	115
050-032-200 ³²⁾	-	-	-	17,30	80	70	284	142	350	218	764	21	160	180	326	325	844	210	310	323	254	15	115
050-032-250 ³³⁾	-	6,30	-	-	100	55	348	174	300	193	650	15	132	225	282	274	750	140	220	270	216	12	130
050-032-250 ³³⁾	-	-	5,50	-	100	55	348	174	300	193	606	15	132	225	282	274	706	140	220	270	216	12	130
050-032-250 ³³⁾	-	-	7,50	-	100	55	348	174	300	193	650	15	132	225	282	274	750	140	220	270	216	12	130
050-032-250 ³²⁾	-	-	11,00	-	100	70	348	174	350	226	772	21	160	225	334	325	872	210	310	300	254	15	130
050-032-250 ³²⁾	-	-	15,00	-	100	70	348	174	350	226	772	21	160	225	334	325	872	210	310	323	254	15	130
050-032-250 ³²⁾	-	-	18,50	-	100	70	348	174	350	226	808	21	160	225	334	325	908	254	314	323	254	15	130

³¹⁾ Tolerances of mating dimensions to EN 735

³²⁾ On this size, the motor feet must be shimmed (20 mm).

³³⁾ On this size, the motor feet must be shimmed (45 mm).

Etachrom B 40, from motor 132 (5.50 kW), with motor foot



Etachrom B with motor foot

6 B	Fluid drain	G 3/8 = ISO 228/1
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DN = EN 1092-2/DN.../PN 16/B

Dimensions

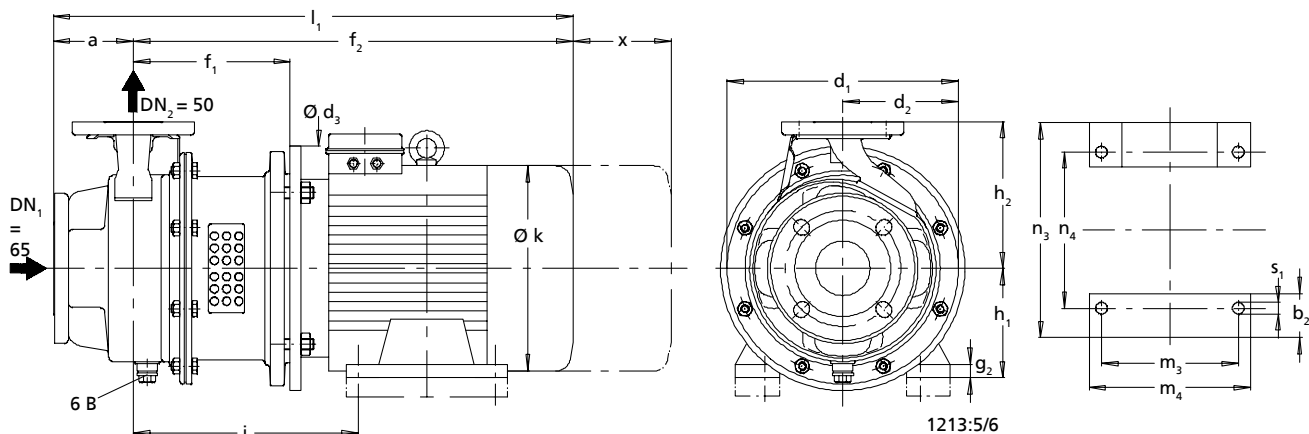
Size	1450 rpm	1750 rpm	2900 rpm	3500 rpm	a	b ₂	d ₁	d ₂	d ₃	f ₁	f ₂	g ₂	h ₁	h ₂	i	k	l ₁	m ₃	m ₄	n ₃	n ₄	s ₁	x
	[kW]				[mm] ³⁴⁾																		
065-040-160 ³⁵⁾	-	-	5,50	6,30	80	55	254	127	300	190	603	15	132	160	279	274	683	140	220	270	216	12	115
065-040-160 ³⁵⁾	-	-	7,50	8,60	80	55	254	127	300	190	647	15	132	160	279	274	727	140	220	270	216	12	115
065-040-160 ³⁵⁾	-	-	11,00	12,60	80	70	254	127	350	220	766	21	160	160	328	325	846	210	310	323	254	15	115
065-040-160 ³⁵⁾	-	-	-	17,30	80	70	254	127	350	220	766	21	160	160	328	325	846	210	310	323	254	15	115
065-040-200 ³⁵⁾	-	-	5,50	-	100	55	284	142	300	190	603	15	132	180	279	274	703	140	220	270	216	12	115
065-040-200 ³⁵⁾	-	-	7,50	-	100	55	284	142	300	190	647	15	132	180	279	274	747	140	220	270	216	12	115
065-040-200 ³⁵⁾	-	-	11,00	12,60	100	70	284	142	350	220	766	21	160	180	328	325	866	210	310	323	254	15	115
065-040-200 ³⁵⁾	-	-	-	17,30	100	70	284	142	350	220	766	21	160	180	328	325	866	210	310	323	254	15	115
065-040-200 ³⁵⁾	-	-	-	21,30	100	70	284	142	350	220	802	21	160	180	328	325	902	254	314	323	254	15	115
065-040-250 ³⁶⁾	-	6,30	-	-	100	55	348	174	300	193	650	15	132	225	282	274	750	140	220	270	216	12	130
065-040-250 ³⁶⁾	-	-	7,50	-	100	55	348	174	300	193	650	15	132	225	282	274	750	140	220	270	216	12	130
065-040-250 ³⁵⁾	-	-	11,00	-	100	70	348	174	350	226	772	21	160	225	334	325	872	210	310	323	254	15	130
065-040-250 ³⁵⁾	-	-	15,00	-	100	70	348	174	350	226	772	21	160	225	334	325	872	210	310	323	254	15	130
065-040-250 ³⁵⁾	-	-	18,50	-	100	70	348	174	350	226	808	21	160	225	334	325	908	254	314	323	254	15	130
065-040-250	-	-	22,00	-	100	80	348	174	350	226	843	23	180	225	347	370	943	241	343	368	279	15	130
065-040-250 ³⁵⁾	-	-	30,00	-	100	85	348	174	400	226	895	30	200	225	359	422	995	305	388	404	318	19	130

³⁴⁾ Tolerances of mating dimensions to EN 735

³⁵⁾ On this size, the motor feet must be shimmed (20 mm).

³⁶⁾ On this size, the motor feet must be shimmed (45 mm).

Etachrom B 50, from motor 132 (5.50 kW), with motor foot



Etachrom B with motor foot

6 B	Fluid drain	G 3/8 = ISO 228/1
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DN = EN 1092-2/DN.../PN 16/B

Dimensions

Size	1450 rpm	1750 rpm	2900 rpm	3500 rpm	a	b ₂	d ₁	d ₂	d ₃	f ₁	f ₂	g ₂	h ₁	h ₂	i	k	l ₁	m ₃	m ₄	n ₃	n ₄	s ₁	x
	[kW]				[mm] ³⁷⁾																		
065-050-125 ³⁸⁾	-	-	5,50	6,30	100	55	254	127	300	190	603	15	132	160	279	274	703	140	220	270	216	12	130
065-050-125 ³⁸⁾	-	-	7,50	8,60	100	55	254	127	300	190	647	15	132	160	279	274	747	140	220	270	216	12	130
065-050-125 ³⁸⁾	-	-	-	12,60	100	70	254	127	350	220	766	21	160	160	328	325	866	210	310	323	254	15	130
065-050-125 ³⁸⁾	-	-	-	17,30	100	70	254	127	350	220	766	21	160	160	328	325	866	210	310	323	254	15	130
065-050-160 ³⁸⁾	-	-	5,50	-	100	55	254	127	300	190	603	15	132	180	279	274	703	140	220	270	216	12	130
065-050-160 ³⁸⁾	-	-	7,50	-	100	55	254	127	300	190	647	15	132	180	279	274	747	140	220	270	216	12	130
065-050-160 ³⁸⁾	-	-	11,00	12,60	100	70	254	127	350	220	766	21	160	180	328	325	866	210	310	323	254	15	130
065-050-160 ³⁸⁾	-	-	15,00	17,30	100	70	254	127	350	220	766	21	160	180	328	325	866	210	310	323	254	15	130
065-050-160 ³⁸⁾	-	-	-	21,30	100	70	254	127	350	220	802	21	160	180	328	325	902	254	314	323	254	15	130
065-050-200 ³⁹⁾	-	6,30	-	-	100	55	313	157	300	193	650	15	132	200	282	274	750	140	220	270	216	12	130
065-050-200 ³⁹⁾	-	-	5,50	-	100	55	313	157	300	193	606	15	132	200	282	274	706	140	220	270	216	12	130
065-050-200 ³⁹⁾	-	-	7,50	-	100	55	313	157	300	193	650	15	132	200	282	274	750	140	220	270	216	12	130
065-050-200 ³⁸⁾	-	-	11,00	12,60	100	70	313	157	350	226	772	21	160	200	334	325	872	210	310	323	254	15	130
065-050-200 ³⁸⁾	-	-	15,00	17,30	100	70	313	157	350	226	772	21	160	200	334	325	872	210	310	323	254	15	130
065-050-200 ³⁸⁾	-	-	18,50	21,30	100	70	313	157	350	226	808	21	160	200	334	325	908	254	314	323	254	15	130
065-050-200 ³⁸⁾	-	-	22,00	24,50	100	80	313	157	350	226	843	23	180	200	347	370	943	241	343	368	279	15	130
065-050-200 ³⁸⁾	-	-	-	33,50	100	85	313	157	400	226	895	30	200	200	359	422	995	305	388	404	318	19	130
065-050-200 ³⁸⁾	-	-	-	41,50	100	85	313	157	400	226	895	30	200	200	359	422	995	305	388	404	318	19	130
065-050-250 ³⁹⁾	-	6,30	-	-	100	55	348	174	300	193	650	15	132	225	282	274	750	140	220	270	216	12	130
065-050-250 ³⁹⁾	-	8,60	-	-	100	59	348	174	300	193	650	15	132	225	282	298	750	178	240	270	216	12	130
065-050-250 ³⁸⁾	-	12,60	-	-	100	70	348	174	350	226	772	21	160	225	334	325	872	210	310	323	254	15	130
065-050-250 ³⁸⁾	-	-	15,00	-	100	70	348	174	350	226	772	21	160	225	334	325	872	210	310	323	254	15	130

³⁷⁾ Tolerances of mating dimensions to EN 735

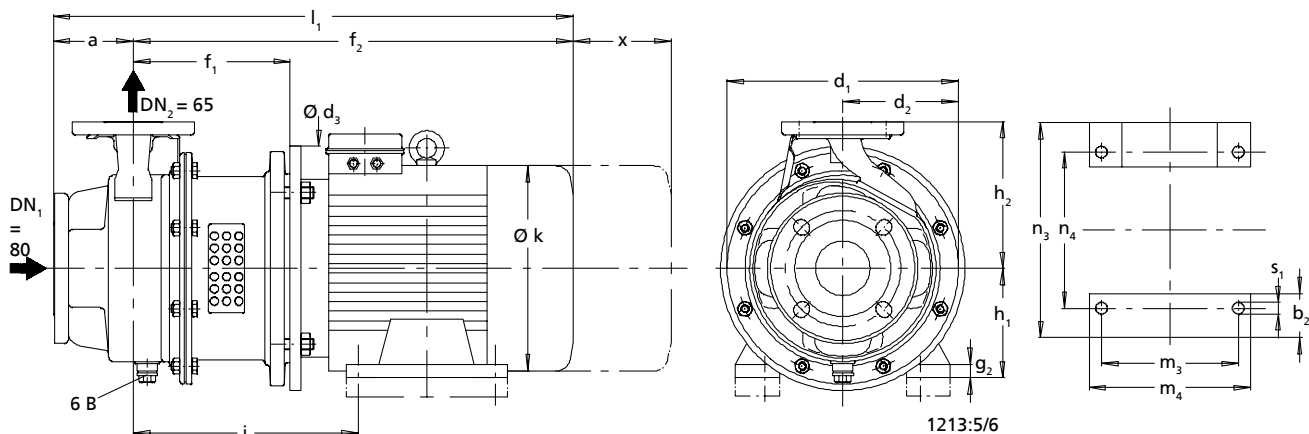
³⁸⁾ On this size, the motor feet must be shimmed (20 mm).

³⁹⁾ On this size, the motor feet must be shimmed (45 mm).

Size	1450 rpm	1750 rpm	2900 rpm	3500 rpm	a	b ₂	d ₁	d ₂	d ₃	f ₁	f ₂	g ₂	h ₁	h ₂	i	k	l ₁	m ₃	m ₄	n ₃	n ₄	s ₁	x
	[kW]				[mm] ³⁷⁾																		
065-050-250 ³⁸⁾	-	-	18,50	-	100	70	348	174	350	226	808	21	160	225	334	325	908	254	314	323	254	15	130
065-050-250 ³⁸⁾	-	-	22,00	-	100	80	348	174	350	226	843	23	180	225	347	370	943	241	343	368	279	15	130
065-050-250 ³⁸⁾	-	-	30,00	-	100	85	348	174	400	226	895	30	200	225	359	422	995	305	388	404	318	19	130
065-050-250 ³⁸⁾	-	-	37,00	-	100	85	348	174	400	226	895	30	200	225	359	422	995	305	388	404	318	19	130

³⁷⁾ Tolerances of mating dimensions to EN 735

Etachrom B 65, from motor 132 (5.50 kW), with motor foot



Etachrom B with motor foot

6 B	Fluid drain	G 3/8 = ISO 228/1
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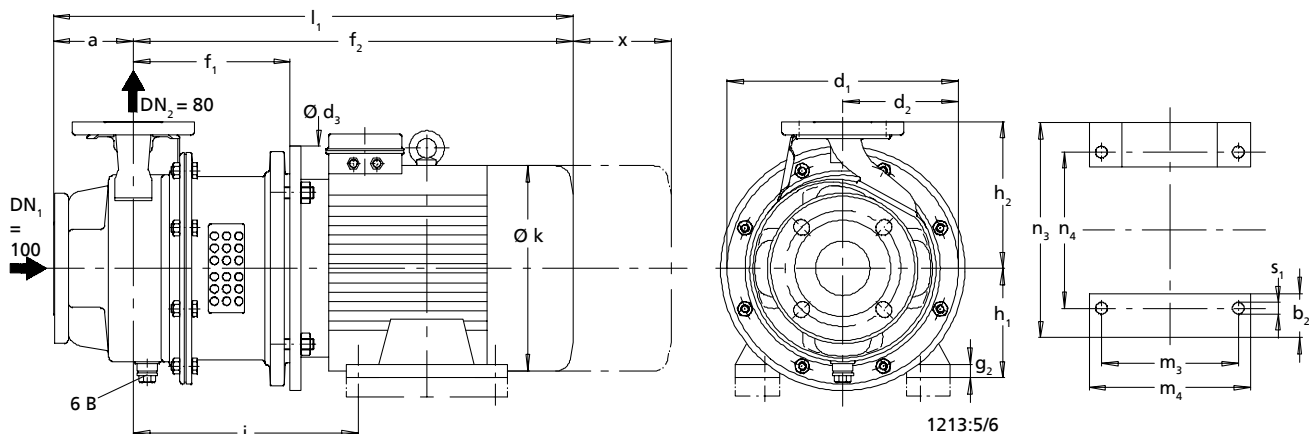
DN = EN 1092-2/DN.../PN 16/B

Dimensions

Size	1450 rpm	1750 rpm	2900 rpm	3500 rpm	a	b ₂	d ₁	d ₂	d ₃	f ₁	f ₂	g ₂	h ₁	h ₂	i	k	l ₁	m ₃	m ₄	n ₃	n ₄	s ₁	x
	[kW]				[mm] ⁴⁰⁾																		
080-065-200 ⁴¹⁾	-	6,30	-	-	100	55	348	174	300	193	650	15	132	225	282	274	750	140	220	270	216	12	130
080-065-200 ⁴¹⁾	-	8,60	-	-	100	59	348	174	300	193	650	15	132	225	282	298	750	178	240	270	216	12	130
080-065-200 ⁴²⁾	-	-	11,00	-	100	70	348	174	350	226	772	21	160	225	334	325	872	210	310	323	254	15	130
080-065-200 ⁴²⁾	-	-	15,00	-	100	70	348	174	350	226	772	21	160	225	334	325	872	210	310	323	254	15	130
080-065-200 ⁴²⁾	-	-	18,50	21,30	100	70	348	174	350	226	808	21	160	225	334	325	908	254	314	323	254	15	130
080-065-200 ⁴²⁾	-	-	22,00	24,50	100	80	348	174	350	226	843	23	180	225	347	370	943	241	343	368	279	15	130
080-065-200 ⁴²⁾	-	-	30,00	33,50	100	85	348	174	400	226	895	30	200	225	359	422	995	305	388	404	318	19	130
080-065-200 ⁴²⁾	-	-	37,00	41,50	100	85	348	174	400	226	895	30	200	225	359	422	995	305	388	404	318	19	130
080-065-250 ⁴¹⁾	5,50	6,30	-	-	100	55	348	174	300	213	670	15	132	250	302	274	770	140	220	270	216	12	140
080-065-250 ⁴¹⁾	7,50	8,60	-	-	100	59	348	174	300	213	670	15	132	250	302	298	770	178	240	270	216	12	140
080-065-250 ⁴²⁾	-	12,60	-	-	100	70	348	174	350	246	792	21	160	250	354	325	892	210	310	323	254	15	140
080-065-250 ⁴²⁾	-	-	15,00	-	100	70	348	174	350	246	792	21	160	250	354	325	892	210	310	323	254	15	150
080-065-250 ⁴²⁾	-	-	18,50	-	100	70	348	174	350	246	828	21	160	250	354	325	928	254	314	323	254	15	150
080-065-250 ⁴²⁾	-	-	22,00	-	100	80	348	174	350	246	863	23	180	250	367	370	963	241	343	368	279	15	150
080-065-250 ⁴²⁾	-	-	30,00	-	100	85	348	174	400	246	915	30	200	250	379	422	1015	305	388	404	318	19	150
080-065-250 ⁴²⁾	-	-	37,00	-	100	85	348	174	400	246	915	30	200	250	379	422	1015	305	388	404	318	19	150
080-065-250 ⁴²⁾	-	-	45,00	-	100	100	348	174	450	277	1032	35	225	250	426	468	1132	311	412	458	356	19	150

40) Tolerances of mating dimensions to EN 735
41) On this size, the motor feet must be shimmed (45 mm).
42) On this size, the motor feet must be shimmed (20 mm).

Etachrom B 80, from motor 132 (5.50 kW), with motor foot



Etachrom B with motor foot

6 B	Fluid drain	G 3/8 = ISO 228/1
-----	-------------	-------------------

DN = EN 1092-2/DN.../PN 16/B

Dimensions

Size	1450 rpm	1750 rpm	2900 rpm	3500 rpm	a	b ₂	d ₁	d ₂	d ₃	f ₁	f ₂	g ₂	h ₁	h ₂	i	k	l ₁	m ₃	m ₄	n ₃	n ₄	s ₁	x
	[kW]				[mm] ⁴³⁾																		
100-080-200 ⁴⁴⁾	5,50	6,30	-	-	125	55	348	174	300	213	670	15	132	250	302	274	795	140	220	270	216	12	150
100-080-200 ⁴⁴⁾	7,50	8,60	-	-	125	59	348	174	300	213	670	15	132	250	302	298	795	178	240	270	216	12	150
100-080-200 ⁴⁵⁾	-	12,60	-	-	125	70	348	174	350	246	792	21	160	250	354	325	917	210	310	323	254	15	150
100-080-200 ⁴⁵⁾	-	-	15,00	-	125	70	348	174	350	246	792	21	160	250	354	325	917	210	310	323	254	15	150
100-080-200 ⁴⁵⁾	-	-	18,50	-	125	70	348	174	350	246	828	21	160	250	354	325	953	254	314	323	254	15	150
100-080-200	-	-	22,00	-	125	80	348	174	350	246	863	23	180	250	367	370	988	241	343	368	279	15	150
100-080-200 ⁴⁵⁾	-	-	30,00	-	125	85	348	174	400	246	915	30	200	250	379	422	1040	305	388	404	318	19	150
100-080-200 ⁴⁵⁾	-	-	37,00	-	125	85	348	174	400	246	915	30	200	250	379	422	1040	305	388	404	318	19	150
100-080-200 ⁴⁵⁾	-	-	45,00	-	125	100	348	174	450	277	1032	35	225	250	426	468	1157	311	412	458	356	19	150
100-080-250 ⁴⁴⁾	5,50	6,30	-	-	125	55	348	174	300	213	670	15	132	280	302	274	795	140	220	270	216	12	150
100-080-250 ⁴⁴⁾	7,50	8,60	-	-	125	59	348	174	300	213	670	15	132	280	302	298	795	178	240	270	216	12	150
100-080-250 ⁴⁵⁾	11,00	12,60	-	-	125	70	348	174	350	246	792	21	160	280	354	325	917	210	310	323	254	15	150
100-080-250 ⁴⁵⁾	15,00	17,30	-	-	125	70	348	174	350	246	828	21	160	280	354	325	953	254	314	323	254	15	150
100-080-250	-	21,30	-	-	125	80	348	174	350	246	863	23	180	280	367	370	988	241	343	368	279	15	150

⁴³⁾ Tolerances of mating dimensions to EN 735

⁴⁴⁾ On this size, the motor feet must be shimmed (45 mm).

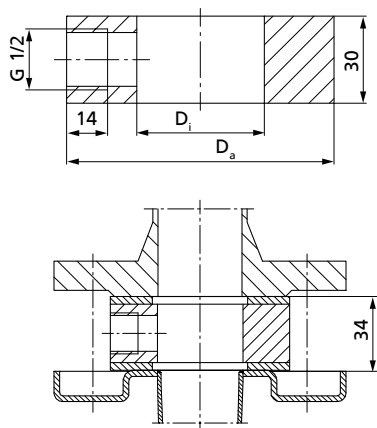
⁴⁵⁾ On this size, the motor feet must be shimmed (20 mm).

Dimensions for versions with PumpMeter

An accessories kit is required for using PumpMeter.
This comprises:

- Intermediate flange for connecting a pressure gauge:
1.4571
- Hexagon head bolts: 8.8, ISO 4017
- Gasket: DPAF (asbestos-free), DIN 2690

As intermediate flanges need to be fitted, the dimensions differ.



Dimensions of the intermediate flange for connecting the pressure gauge

Selection table

DN	Intermediate flange for connecting a pressure gauge		Hexagon head bolts	Gasket
	D _i [mm]	D _a [mm]		
25	29	70	4 × M12 × 80	1 × 25, PN 40
32	36	82	4 × M16 × 90	1 × 32, PN 40
40	44	92	4 × M16 × 90	1 × 40, PN 40
50	54	107	4 × M16 × 90	1 × 50, PN 40
65	69	127	4 × M16 × 90	1 × 65, PN 40
80	85	142	4 × M16 × 90	1 × 80, PN 40
100	105	162	4 × M16 × 90	1 × 100, PN 16

Weights

Pump component weights

Pump casing, discharge cover, intermediate piece, impeller

Selection table

Size	Pump casing (101)	Discharge cover (163)	Intermediate piece (132.1)	Impeller (230)
	[kg]			
050-025-125.1	3,0	0,3	-	0,9
050-025-125	3,0	0,3	-	0,9
050-025-160	3,3	0,6	-	1,2
050-025-200	4,2	0,8	-	1,8
050-025-250	6,2	1,5	12,4	5,5
050-032-125.1	3,1	0,3	-	0,9
050-032-125	3,1	0,3	-	0,9
050-032-160	3,4	0,6	-	1,2
050-032-200	4,3	0,8	-	1,8
050-032-250	6,3	1,5	12,4	5,5
065-040-125	3,6	0,3	-	0,9

Size	Pump casing (101)	Discharge cover (163)	Intermediate piece (132.1)	Impeller (230)
	[kg]			
065-040-160	4,1	0,6	-	1,2
065-040-200	4,7	0,8	-	1,8
065-040-250	6,6	1,5	12,4	5,1
065-050-125	4,6	0,6	-	1,0
065-050-160	4,6	0,7	-	1,6
065-050-200	6,9	1,1	8,7	4,9
065-050-250	7,2	1,5	12,4	6,6
080-065-200	7,8	1,5	12,4	5,6
080-065-250	8,1	1,5	12,7	7,8
100-080-200	9,9	1,5	12,7	7,5
100-080-250	10,2	1,5	12,7	9,6

Shaft

Selection table

Motor size	Motor	P	Shaft (210)		
			WS 25.1	WS 25.2	WS 35
		[kW]	[kg]		
.../072	80M	0,75	0,6	-	-
.../112	80M	1,1	0,6	-	-
.../152	90S	1,5	0,8	-	-
.../222	90L	2,2	0,8	-	-
.../302	100L	3,0	0,8	-	-
.../402	112M	4,0	0,8	-	-
.../552	132S	5,5	2,1	2,3	-
.../752	132S	7,5	2,1	2,3	-
.../1102	160M	11,0	2,1	2,4	2,8
.../1502	160M	15,0	2,1	2,4	2,8
.../1852	160L	18,5	2,1	2,4	2,8
.../2202	180M	22,0	-	2,2	2,2
.../3002	200L	30,0	-	2,8	3,8
.../3702	200L	37,0	-	2,8	3,8
.../4502	225M	45,0	-	-	3,8
.../054	80M	0,55	0,6	-	-
.../074	80M	0,75	0,6	0,9	-
.../114	90S	1,1	0,8	1,0	-
.../154	90L	1,5	0,8	1,0	-
.../224	100L	2,2	0,8	1,1	2,8
.../304	100L	3,0	0,8	1,1	2,8
.../404	112M	4,0	-	1,1	2,8
.../554	132S	5,5	-	2,3	2,8
.../754	132M	7,5	-	2,3	2,8
.../1104	160M	11,0	-	2,4	2,8
.../1504	160L	15,0	-	-	2,8
.../1854	180M	18,5	-	-	2,2

Drive lantern

Selection table

Size	Drive lantern (341)										
	.../072 .../112 .../152 .../222	.../054 .../074 .../114 .../154	.../302 .../402	.../224 .../304 .../404	.../552 .../752	.../554 .../754	.../1102 .../1502 .../1852	.../1104	.../2202	.../3002 .../3702	.../4502
[kg]											
050-025-125.1	6,0	8,0	-	-	-	-	-	-	-	-	-
050-025-125	6,0	8,0	-	-	-	-	-	-	-	-	-
050-025-160	9,0	13,0	10,5	-	-	-	-	-	-	-	-
050-025-200	10,0	10,0	11,5	16,0	-	-	-	-	-	-	-
050-025-250	4,0	5,5	7,5	12,7	-	-	-	-	-	-	-
050-032-125.1	6,0	8,0	-	-	-	-	-	-	-	-	-

Size	Drive lantern (341)										
	.../072	.../054	.../302	.../224	.../552	.../554	.../1102	.../1104	.../2202	.../3002	.../4502
	.../112	.../074	.../402	.../304	.../752	.../754	.../1502			.../3702	
	.../152	.../114		.../404			.../1852				
	.../222	.../154									
	[kg]										
050-032-125	6,0		8,0		-		-		-	-	-
050-032-160	9,0		13,0		10,5		15,0		-	-	-
050-032-200	10,0		10,0		11,5		16,0		-	-	-
050-032-250	4,0		5,5		7,5		12,7		-	-	-
065-040-125	6,0		8,0		-		-		-	-	-
065-040-160	9,0		13,0		10,5		15,0		-	-	-
065-040-200	10,0		10,0		11,5		16,0		-	-	-
065-040-250	4,0		5,5		7,5		12,7	12,7	18,0	-	-
065-050-125	9,0		13,0		10,5		15,0		-	-	-
065-050-160	9,0		13,0		10,5		15,0		-	-	-
065-050-200	4,0		5,5		7,5		12,7	12,7	18,0	-	-
065-050-250	4,0		5,5		7,5		12,7	12,7	18,0	-	-
080-065-200	4,0		5,5		7,5		12,7	12,7	18,0	34,0	-
080-065-250	-		6,8		7,9		12,7	12,7	19,0	23,5	-
100-080-200	-		6,8		7,9		12,7	12,7	19,0	23,5	-
100-080-250	-		6,8		7,9		12,7	-	-	-	-

Flange dimensions

Dimensions for pump flanges made of stainless steel to
EN 1092-1

Flange dimensions [mm]

Nominal diameter	PN 16 / 12 bar	
	Ø K	Number and Ø of holes (Ø L)
25	85	4 × Ø14
32	100	4 × Ø18
40	110	4 × Ø18
50	125	4 × Ø18
65	145	4 × Ø18
80	160	8 × Ø18
100	180	8 × Ø18

Interchangeability of Etachrom B and Etachrom L pump components

Etachrom B pump components⁴⁶⁾

Size	Shaft unit	Shaft																		
		101	132.01	163	183	210								230	412.35	433	502.01	502.02	523	
						80	90	100/112	132	160	180	200/225								
050-025-125.1	WS 25.1	1	X	1*	1	1	2	□	□	□	□	□	1*	1*	1*	1*	X	X		
050-025-125	WS 25.1	1	X	1*	1	1	2	3	□	□	□	□	2*	1*	1*	1*	X	X		
050-025-160	WS 25.1	○	X	5*	2	1	2	3	4	□	□	□	3*	2*	1*	1*	X	X		
050-025-200	WS 25.1	○	X	2*	3	1	2	3	4	5	□	□	4*	3*	1*	1*	1*	X		
050-025-250	WS 25.2	○	1*	3*	4	6	7	8	9	10	□	□	5*	4*	2*	6*	2*	X		
050-032-125.1	WS 25.1	2	X	1*	1	1	2	□	□	□	□	□	1*	1*	1*	1*	X	X		
050-032-125	WS 25.1	2	X	1*	1	1	2	3	□	□	□	□	2*	1*	1*	1*	X	X		
050-032-160	WS 25.1	○	X	5*	2	1	2	3	4	□	□	□	3*	2*	1*	1*	X	X		
050-032-200	WS 25.1	○	X	2*	3	1	2	3	4	5	□	□	4*	3*	1*	1*	1*	X		
050-032-250	WS 25.2	○	1*	3*	4	6	7	8	9	10	□	□	5*	4*	2*	6*	2*	X		
065-040-125	WS 25.1	○	X	1*	1	1	2	3	□	□	□	□	○*	1*	1*	2*	X	X		
065-040-160	WS 25.1	○	X	○*	2	1	2	3	4	5	□	□	○*	2*	1*	2*	1*	X		
065-040-200	WS 25.1	○	X	2*	3	□	2	□	4	5	□	□	○*	3*	1*	2*	1*	X		
065-040-250	WS 25.2	○	1*	3*	4	□	7	8	9	10	11	□	○*	4*	2*	3*	2*	X		
065-050-125	WS 25.1	○	X	○*	2	1	2	3	4	□	□	□	○*	2*	1*	2*	X	X		
065-050-160	WS 25.1	○	X	○*	2	1	2	□	4	5	□	□	○*	2*	1*	2*	1*	X		
065-050-200	WS 25.2	○	2*	○*	4	6	7	8	9	10	11	□	○*	5*	2*	3*	2*	X		
065-050-250	WS 25.2	○	1*	3*	4	□	7	8	□	10	11	12	○*	4*	2*	3*	2*	X		
080-065-200	WS 25.2	○	1*	○*	4	□	7	8	□	10	11	12	○*	4*	2*	4*	○*	X		
080-065-250	WS 35	○	3*	4*	5	□	□	12	13	14	15	16	○*	4*	3*	4*	3*	1*		
100-080-200	WS 35	○	3*	4*	5	□	□	12	13	14	15	16	○*	4*	3*	5*	3*	1*		
100-080-250	WS 35	○	3*	4*	5	□	□	12	13	14	□	□	○*	4*	3*	5*	3*	1*		
						Drive lantern 341														
050-025-125.1	WS 25.1	-	-	-	-	1	1	□	□	□	□	□	-	-	-	-	-	-		
050-025-125	WS 25.1	-	-	-	-	1	1	2	□	□	□	□	-	-	-	-	-	-		
050-025-160	WS 25.1	-	-	-	-	3	3	4	5	□	□	□	-	-	-	-	-	-		
050-025-200	WS 25.1	-	-	-	-	7	7	8	9	10	□	□	-	-	-	-	-	-		
050-025-250	WS 25.2	-	-	-	-	11	11	12	13	14	□	□	-	-	-	-	-	-		
050-032-125.1	WS 25.1	-	-	-	-	1	1	□	□	□	□	□	-	-	-	-	-	-		
050-032-125	WS 25.1	-	-	-	-	1	1	2	□	□	□	□	-	-	-	-	-	-		
050-032-160	WS 25.1	-	-	-	-	3	3	4	5	□	□	□	-	-	-	-	-	-		
050-032-200	WS 25.1	-	-	-	-	7	7	8	9	10	□	□	-	-	-	-	-	-		

⁴⁶⁾ Pump components featuring the same number in a column are interchangeable, i.e. same number = same component

⁴⁷⁾ Up to motor size 112 = 4.0 kW only

Size	Shaft unit	101	132.01	163	183	Shaft								230	412.35	433	502.01	502.02	523					
						Pump casing	Intermediate piece	Discharge cover	Pump foot ⁴⁷⁾	210														
											Motor													
												80	90							100/112	132	160	180	200/225
050-032-250	WS 25.2	-	-	-	-	11	11	12	13	14	□	□	-	-	-	-	-	-						
065-040-125	WS 25.1	-	-	-	-	1	1	2	□	□	□	□	-	-	-	-	-	-						
065-040-160	WS 25.1	-	-	-	-	3	3	4	5	6	□	□	-	-	-	-	-	-						
065-040-200	WS 25.1	-	-	-	-	7	7	□	9	10	□	□	-	-	-	-	-	-						
065-040-250	WS 25.2	-	-	-	-	□	11	12	13	14	14	□	-	-	-	-	-	-						
065-050-125	WS 25.1	-	-	-	-	3	3	4	5	□	□	□	-	-	-	-	-	-						
065-050-160	WS 25.1	-	-	-	-	3	3	□	5	6	□	□	-	-	-	-	-	-						
065-050-200	WS 25.2	-	-	-	-	11	11	12	13	14	14	□	-	-	-	-	-	-						
065-050-250	WS 25.2	-	-	-	-	□	11	12	□	14	14	13	-	-	-	-	-	-						
080-065-200	WS 25.2	-	-	-	-	□	11	12	□	14	14	13	-	-	-	-	-	-						
080-065-250	WS 35	-	-	-	-	□	□	15	16	17	17	16	-	-	-	-	-	-						
100-080-200	WS 35	-	-	-	-	□	□	15	16	17	17	16	-	-	-	-	-	-						
100-080-250	WS 35	-	-	-	-	□	□	□	16	17	□	□	-	-	-	-	-	-						

Key to the symbols

Symbol	Description
*	Component interchangeable with Etachrom L; impellers must be of the same diameter
○	Components differ
✕	Component not fitted
□	This pump/motor combination is not possible.

Motor rating

Motor	Rating
80	.../054, .../074, .../072, .../112
90	.../114, .../154, .../152, .../222
100	.../224, .../304, .../302
112	.../404, .../402
132	.../552, .../554, .../752, .../754
160	.../1102, .../1104, .../1502, .../1852
180	.../2202
200	.../3002, .../3702
225	.../4502

47) Up to motor size 112 = 4.0 kW only

Recommended spare parts stock for 2 years' operation to DIN 24296

Quantity of spare parts for recommended spare parts stock

Part No.	Description	Number of pumps (including stand-by pumps)						
		2	3	4	5	6 and 7	8 and 9	10 and more
210	Shaft	1	1	2	2	2	3	30 %
230	Impeller	1	1	1	2	2	3	30 %
412.35	O-ring	2	3	4	5	6	7	90 %
433	Mechanical seal	2	3	4	5	6	7	90 %
502.01 ⁴⁸⁾	Casing wear ring, suction side	2	2	2	3	3	4	50 %
502.02 ⁴⁹⁾	Casing wear ring, discharge side	2	2	2	3	3	4	50 %
502.06 ⁵⁰⁾	Casing wear ring, impeller	2	2	2	3	3	4	50 %
523 ⁵¹⁾	Shaft sleeve	2	2	2	3	3	4	50 %

⁴⁸⁾ Not for Etachrom B 065-050-125 with free-flow impeller

⁴⁹⁾ Not for Etachrom B 050-025-125.1, 050-025-125, 050-025-160, 050-032-125.1, 050-032-125, 050-032-160, 065-040-125, 065-050-125

⁵⁰⁾ Only for Etachrom B 080-065-250, 100-080-250

⁵¹⁾ Only for Etachrom B 080-065-250, 100-080-200, 100-080-250

Detailed designation

Designation example

Position																																											
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44
E	T	C	B	0	5	0	-	0	2	5	-	1	2	5		C	C			A	0	7	D	2	0	1	0	0	2	e	x	B	P	D	2		M	K	S	B	I	E	4
See name plate and data sheet																									See data sheet																		

Designation key

Position	Code	Description
1-4	Pump type	
	ETCB	Etachrom B
5-16	Size	
	050	Nominal suction nozzle diameter [mm]
	025	Nominal discharge nozzle diameter [mm]
	125	Nominal impeller diameter [mm]
17	Pump casing material	
	C	1.4571
18	Impeller material	
	C	1.4571/1.4408
19	Design	
	.52)	Standard
	X	Special design BT3D, BT3
20-21	Casing cover	
	. A	Without internal circulation
	E A	External circulation
	F A	External flushing
	A V	Without internal flushing, with vent
22-23	Seal code	
	0 1	Q1Q1VGG
	0 7	Q1Q1EGG
	0 9	U3U3VGG
	1 0	Q1Q1X4GG
	1 1	BQ1EGG-WA
	1 7	Q1BVGG
	1 9	Q1Q1M1GG
	2 6	XYHY2VY
	- -	BT3
24	Scope of supply	
	A	Pump only (Fig. 0)
	D	Pump, motor
25	Shaft unit	
	2	Shaft unit 25
	3	Shaft unit 35
26-32	Motor rating	
	0002	0.25 kW
	0003	0.37 kW
	0005	0.55 kW
	0007	0.75 kW
	0011	1.1 kW
	0015	1.5 kW
	0022	2.2 kW
	0030	3.0 kW
	0040	4.0 kW
	0055	5.5 kW
	0075	7.5 kW
	0110	11.0 kW
	0150	15.0 kW
	0185	18.5 kW
	0220	22.0 kW
	0300	30.0 kW

52) Blank

Position		Code	Description
		0370	37.0 kW
		0450	45.0 kW
33	Product generation		
		B	Etachrom B 08/2015 product generation
34-37	PumpDrive		
		P D 2	PumpDrive 2nd generation
		P D 2 E	PumpDrive 2nd generation, Eco
38	PumpMeter		
		M	PumpMeter
39-41	Motor manufacturer		
		K S B	KSB
		S I E	Siemens
		L O H	Loher
		H A L	Halter
42-44	Efficiency class		
		IE1	IE1
		IE2	IE2
		IE3	IE3
		IE4	IE4



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