

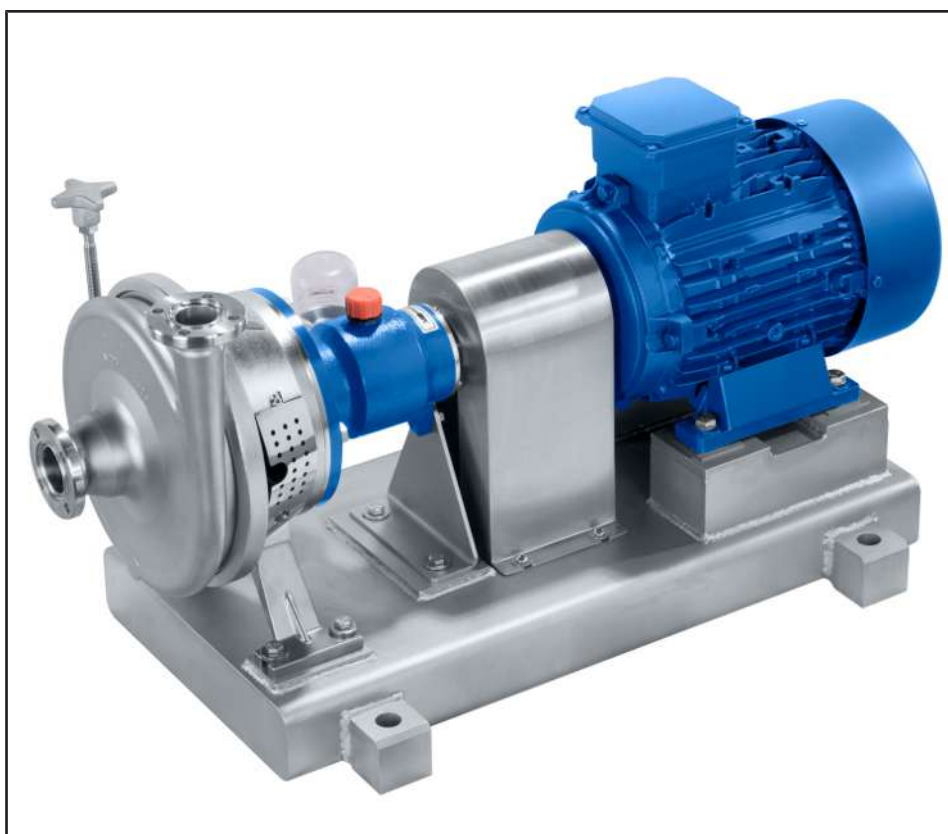


AMCAL
INDUSTRIAL PUMP SOLUTIONS

KSB
DATA BOOKLET

Vitacast

Type Series Booklet



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Type Series Booklet Vitacast

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Hygienic Pump

Process Pump

Vitacast



Main applications

- Food industry / beverage industry
- Pharmaceutical industry
- Chemical industry

Fluids handled

- Fluids not chemically or mechanically aggressive to the materials

Operating data

Table 1: Operating properties

Characteristic		Value	
		50 Hz	60 Hz
Flow rate	Q [m³/h]	≤ 540	≤ 650
Head	H [m]	≤ 105	
Operating pressure	p [bar]	≤ 10 ¹⁾	
Fluid temperature	T [°C]	≥ -20	
		≤ +140 ¹⁾	
Connection sizes	DN	32 - 200	

Design details

Design

- Standard design with materials to Regulation (EC) No. 1935/2004
- Design to ATEX

Design

- Hygienic centrifugal pump
- Single-stage
- Long-coupled design
- Non-self-priming
- Wetted parts made of stainless steel 1.4404/1.4409 (AISI 316L/CF3M)

Pump casing

- Volute casing

Impeller type

- Open multi-vane impeller

Bearings

- Oil-lubricated deep groove ball bearing

Shaft seal

- Single mechanical seal to EN 12756
 - Seal type T²⁾: pump-end seal with non-encapsulated spring surrounded by fluid handled, uni-directional
 - Seal type H³⁾: pump-end seal with encapsulated spring, polished surface, bi-directional
 - Seal type Y: external seal
- Double mechanical seal to EN 12756
 - Seal type Q: back-to-back arrangement (pressurised barrier fluid)

Drive

- Efficiency class IE3 to IEC 60034-30

Standard design:

- KSB surface-cooled IEC three-phase current squirrel-cage motor
- Rated voltage (50 Hz) 220-240 V / 380-420 V ≤ 2.20 kW
- Rated voltage (50 Hz) 380-420 V / 660 - 725 V ≥ 3.00 kW
- Rated voltage (60 Hz) 440-480 V ≤ 2.60 kW
- Rated voltage (60 Hz) 440-480 V ≥ 3.60 kW
- Type of construction IM V1 ≤ 4.00 kW
- Type of construction IM V15 ≥ 5.50 kW
- Enclosure IP55
- Duty type: continuous duty S1
- Thermal class F with temperature sensor, 3 PTC thermistors

Explosion-proof design:

- KSB surface-cooled IEC three-phase current squirrel-cage motor
- Rated voltage (50 Hz) 220 - 240 V / 380 - 420 V ≤ 1.85 kW
- Rated voltage (50 Hz) 380 - 420 V / 660 - 725 V ≥ 2.50 kW
- Type of construction IM V1 ≤ 3.30 kW
- Type of construction IM V15 ≥ 4.60 kW
- Enclosure IP55 or IP54

¹ Higher values on request for individual sizes

² Hygienic design

³ Sterile design

- Duty type: continuous duty S1
- Type of protection EEx eb II
- Temperature class T3

- PumpDrive
- PumpMeter

Automation

Automation options:

Connections

- Axial suction nozzle
- Tangential discharge nozzle, adjustable through 360°

Further information (⇒ Page 9)

Designation

Table 2: 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
V	A		I	0	4	0	-	0	3	2	-	1	4	5		0	4	0	2	G	B		T	8	1	A	E	C	C	S	X	O	A
See name plate and data sheet																												See data sheet					

Table 3: Designation key

Position	Code	Description
1-4	Pump type	
	VA	Vitacast
	VAI	Vitacast Inducer
5-16	Size, e.g.	
	040	Nominal suction nozzle diameter [mm]
	032	Nominal discharge nozzle diameter [mm]
	145	Impeller diameter [mm]
17-19	Motor rating P _N [kW]	
	007	0,70
	...	...
	550	55,00
20	Number of motor poles	
21	Scope of supply	
	G	Baseplate
22-23	Shaft seal type	
	B	Single mechanical seal, internal, dead-end arrangement, without flushing
	BQ	Single mechanical seal, internal, dead-end arrangement, external flushing (quench)
	DB	Double mechanical seal in back-to-back arrangement
	I	Single mechanical seal, internal, dead-end arrangement, internal circulation
	J	Single mechanical seal, external, without flushing
24-26	Seal code, single mechanical seal, internal	
	T00	GCEGG
	T18	U3U3VGG
	T19	U3U3EGG
	T64	U3Q1EGG
	T66	Q1Q1M3GG
	T68	U3Q1VGG
	T69	BQ1M3GG
	T80	BQ1VGG
	T81	Q1Q1VGG
	T82	BQ1EGG
	T83	Q1Q1EGG
	T84	Q1U3EGG
	T85	Q1U3VGG
	Seal code, single mechanical seal, internal, with encapsulated spring	
	H0D	GCVGG
	H1	Q1CEGG
	H1D	Q1CVGG
	H2	Q1U3EGG

Position	Code	Description
24-26	H2D	Q1U3VGG
	H3	Q1Q1EGG
	H3D	Q1Q1VGG
	H4	U3U3EGG
	H5	Q2Q2EGG**
	H7	U2U2VGG*
	H8	U3U3VGG
	H9	BQ1VGG*
	HA	U3U3EGG
	Seal code, single mechanical seal, external	
	Y06	U3U3EGG
	Y07	BU3EGG
	Seal code, double mechanical seal in back-to-back arrangement	
	Q80	BQ1VGG
		BGVGG
	Q81	Q1Q1VGG
		BGVGG
	Q82	BQ1EGG
		BGEGG
	Q83	Q1Q1EGG
		BGEGG
	Q84	Q1U3EGG
		BGEGG
	Q85	Q1U3VGG
		BGVGG
27	Pipe connection	
	A	Flange APV
	B	Threaded connection DIN 11864-1A
	C	Flange DIN 11864-2A
	D	Clamped connection DIN 11864-3A
	E	Threaded connection DIN 11853
	F	Threaded connection RJT
	G	Flange Varivent
	I	Threaded connection ISO 2853 (IDF)
	L	Flange EN 1092-1
	M	Threaded connection DIN 11851 (hygienic pipe union)
	S	Threaded connection SMS
	T	Clamped connection DIN 32676-A
	U	Clamped connection DIN 32676-C (Tri-Clamp)
	V	Clamped connection ISO 2852
	Z	Flange ANSI B16.5 Class 150
28	O-ring material (casing/impeller)	
	E	EPDM
	K	Kalrez
	M	FEP (encapsulated)
	T	PTFE
	V	FPM
29	Pump casing material	
	C	Stainless steel 1.4409
	D	Super duplex stainless steel 1.4469 / 1.4410
	X	Hastelloy C276 2.4819
30	Impeller material	
	C	Stainless steel 1.4409
	D	Super duplex stainless steel 1.4469 / 1.4410
	X	Hastelloy C276 2.4819
31	Motor shroud	
	O	Without shroud
	S	With shroud
32	Design	

Position	Code	Description
32	4)	Standard
	X	Non-standard (BT3D, BT3), including ATEX
33	Draining facility	
	D	Casing drain with plug
	O	No drain
	P	Casing drain via piping
	V	Casing drain via valve
34	Generation	
	A	Vitacast

Materials

Table 4: Selection table

Part No.	Description	Material variant
102	Volute casing ⁵⁾	1.4409 (AISI CF3M)
163	Discharge cover ⁵⁾	1.4409 (AISI CF3M)
230	Impeller ⁵⁾	1.4409 (AISI CF3M)
922	Impeller nut ⁵⁾	1.4404 (AISI 316L)
236	Inducer ⁵⁾	1.4409 (AISI CF3M)
211	Pump shaft ⁵⁾	1.4404 (AISI 316L)
341	Drive lantern	1.4308 (AISI CF8)
890	Baseplate	1.4301 (AISI 304)
412	O-rings, moulded gaskets ⁵⁾	EPDM, FPM, FEP, FFKM

Optional materials for wetted components:

- 1.4469/1.4410
- Hastelloy C276

 All materials that will be in contact with the fluid handled conform with Regulation (EC) No 1935/2004 and Commission Regulation (EC) No. 2023/2006.

Coating and preservation

- Coating and preservation to KSB standard

Product benefits

- Easy to clean with very little dead volume and excellent flushing capability
- Service-friendly design, easy and fast to dismantle
- High surface quality thanks to special polishing techniques
- Corrosion-resistant design with high-quality stainless steel 1.4301
- Operating costs reduced by trimming the nominal impeller diameter to match the specified duty point
- A large variety of materials, sealing elements and connections are available to optimally match the pump to its application.
- Highly suitable for CIP/SIP routines
- Excellent hydraulic efficiency and low NPSH values

Product information

Product information as per Regulation No. 1907/2006 (REACH)

For information as per European chemicals regulation (EC) No. 1907/2006 (REACH) see <https://www.ksb.com/en-global/company/corporate-responsibility/reach>.

Certifications

Table 5: Overview

Label	Effective in:	Comment
	All countries	Certified quality management to ISO 9001
	All countries	European Hygienic Engineering & Design Group
	All countries	Elastomers certified to FDA, 3A, USP Class VI

Acceptance tests and warranty

- Materials testing
 - Material test report 2.2 on request
 - Material test report 3.1 on request
- Final inspection
 - Inspection certificate 3.1 to EN 10204 on request
- Hydraulic test against surcharge
 - To ISO 9906/2B or ISO 9906/3B
 - NPSH test
- Other tests

Other tests (e.g. vibrations, strength, noise characteristics) on request.
- Warranties

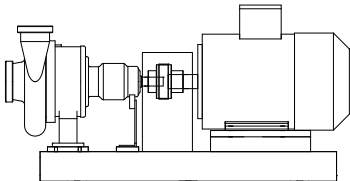
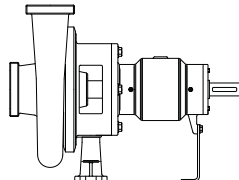
Warranties are given within the scope of the valid terms and conditions of sale and delivery.

⁴ Blank

⁵ Wetted component

Installation types

Table 6: Installation type

Installation type	Illustration	Description
G		Horizontal installation, long-coupled pump set ▪ Drive rating up to 90 kW ▪ Axial suction nozzle, radial discharge nozzle, adjustable through 360°
Fig. 0		Horizontal installation, pump without motor

Technical data

Table 7: Technical data

Size	Inducer	Shaft unit	Free passage		Impeller diameter		Speed limit
			4 poles	2 poles	Min.	Max.	
			[mm]	[mm]	[mm]	[mm]	[rpm]
040-032-145	✗	2	5	5	115	145	500 - 3600
040-032-175	✗	2	4	4	145	175	500 - 3600
040-032-210	✗	2	4	4	165	210	500 - 3600
050-032-260	✗	2	3,5	3,5	210	260	500 - 3000
050-040-145	✗	2	6	11	115	145	500 - 3600
050-040-175	✗	2	6,5	11	145	175	500 - 3600
050-040-210	✗	2	6	6	165	210	500 - 3600
050-040-260	✗	3	5	5	210	260	500 - 3000
065-050-145	✗	2	10	16	115	145	500 - 3600
065-050-175	✗	2	8	13	145	175	500 - 3600
065-050-210	✗	2	8	8	165	210	500 - 3600
065-050-260	✗	3	6	6	210	260	500 - 3000
080-065-145	✗	2	18	23	115	145	500 - 3600
080-065-175	✗	2	16	16	145	175	500 - 3600
080-065-210	✗	3	12	12	165	210	500 - 3600
080-065-260	✗	3	10,5	10,5	210	260	500 - 3000
100-080-175	✗	3	22	22	150	177	500 - 3600
100-080-210	✗	3	18	15	165	210	500 - 3600
100-080-260	✗	3	14	14	200	260	500 - 3000
100-080-310	✗	3	23	-	265	310	500 - 1800
125-100-210	✗	3	15	28	165	210	500 - 3600
125-100-260	✗	3	25	25	210	260	500 - 3000
125-100-310	✗	3	30	-	265	310	500 - 1800
150-125-260	-	3	32	-	210	260	500 - 3000
150-125-350	-	4	18	-	285	350	500-1800
200-150-350	-	4	24	-	285	350	500-1800

Overview of product features / selection tables

Types of connection available

The following types of connection are available for selection:

- Threaded connection to DIN 11851
- Threaded connection to DIN 11853
- Threaded connection to DIN 11864-1-GS-A
- Threaded connection to SMS standard
- Threaded connection to IDF standard
- Threaded connection to RJT standard
- Tri-Clamp/Tri-Clover fitting
- Clamped connection to DIN 11864-3-NKS-A
- Clamped connection to DIN 32676-A
- Clamped connection to ISO 2852
- Flange to EN 1092-1
- Flange to DIN 11864-2-NF-A
- Flange to ASA ASME 150
- APV flange
- Varivent flange
- Other connection types on request

Overview of fluids handled

Table 8: Table of fluids handled, including seal code and operating mode

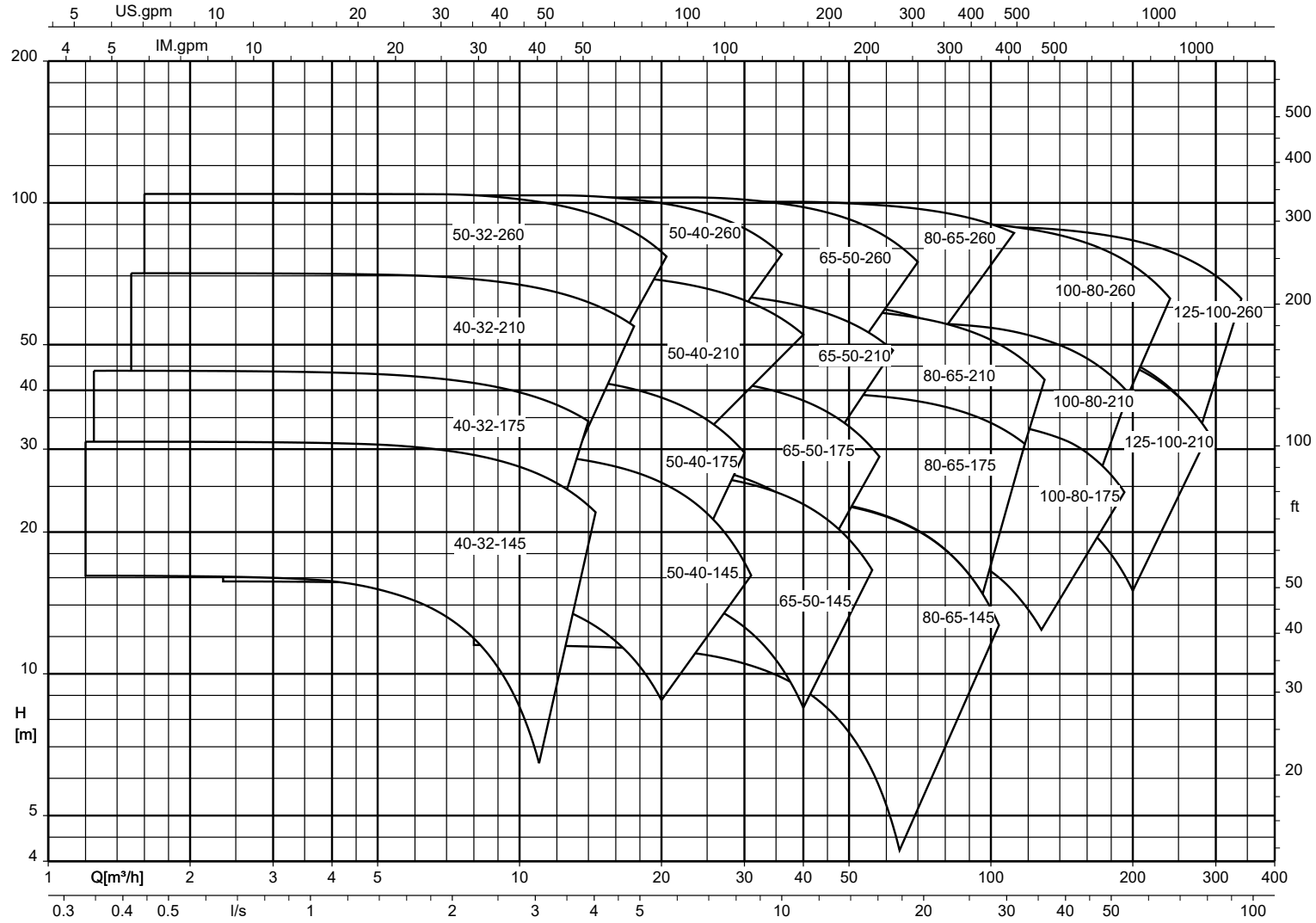
Fluid handled	T		Seal code																	Operating mode / flushing system	Comment		
	Min.	Max.	T19	T64	T66	T80	T81	T82	T83	T84	H0	H1	H1D	H2	H3	H3D	H4	H5	Q82			Q83	
	°C																						
Alcohol, butanol																							
Butanol	0	60	-	-	-	-	-	X	-	-	-	X	-	-	-	-	-	-	-	-	I	-	
Isobutanol	0	60	-	-	-	-	-	X	-	-	-	X	-	-	-	-	-	-	-	-	I	-	
Alcohol, ethanol																							
^{a(6)}	0	60	-	-	-	-	-	X	-	-	-	X	-	-	-	-	-	-	-	-	I	-	
Alcohol, methanol																							
-	0	60	-	-	-	-	-	X	-	-	-	X	-	-	-	-	-	-	-	X	-	I, BQ, DB	Provide water quench for indoor application (toxicity).
Alcohol, propanol																							
1-propanol	0	60	-	-	-	-	-	X	-	-	-	X	-	-	-	-	-	-	-	-	I	-	
2-propanol	0	60	-	-	-	-	-	X	-	-	-	X	-	-	-	-	-	-	-	-	I		
Beer																							
Beer mash	0	100	-	X	-	-	-	-	-	-	-	-	-	-	X	-	-	-	-	X	BQ, DB	Use suitable water as liquid quench.	
Beer wort	0	100	-	X	-	-	-	-	-	-	-	-	-	-	X	-	-	-	-	X	BQ, DB	Use suitable water as liquid quench.	
Brewer's yeast	0	30	-	X	-	-	-	-	-	-	-	-	-	-	X	-	-	-	-	-	B, I		
Hops	0	100	-	X	-	-	-	-	-	-	-	-	-	-	X	-	-	-	-	X	BQ, DB	Use suitable water as liquid quench.	
Trub (brewery)	0	90	-	X	-	-	-	-	-	-	-	-	-	-	X	-	-	-	-	-	B, I		
Cleaning-in-place (CIP)	0	85	-	-	-	-	-	X	-	-	-	X	-	-	-	-	-	-	-	-	B, I	After cleaning, flush with hot water of 90 °C max.	
Beverages, alcoholic																							
Spirits (40 % ethanol)	0	60	-	-	-	-	-	X	-	-	-	X	-	-	-	-	-	-	-	-	B, I	Brandy 40 %	
Beer	0	70	-	-	-	-	-	X	-	-	-	X	-	-	-	-	-	-	-	-	B, I	Beer after primary fermentation	
Fruit liqueur	0	60	-	X	-	-	-	-	-	-	-		-	-	-	-	X	-	-	X	BQ, DB	Use suitable water as liquid quench.	
Must	0	60	-	X	-	-	-	-	-	-	-		-	-	-	-	X	-	-	-	B, I		
Pernod	0	40	-	-	-	-	-	X	-	-	-	X	-	-	-	-	-	-	-	-	B, I		
Grappa	0	60	-	-	-	-	-	X	-	-	-	X	-	-	-	-	-	-	-	-	B, I		
Whiskey	0	60	-	-	-	-	-	X	-	-	-	X	-	-	-	-	-	-	-	-	B, I		
Wine (cider)	0	60	-	-	-	-	-	X	-	-	-	X	-	-	-	-	-	-	-	-	B, I		
Liqueur with egg yolks	0	50	-	-	-	-	-	X	-	-	-	X	-	-	-	-	-	-	-	-	B, I		
Herbal liqueur, alcohol content ≤ 50 %	0	60	-	-	-	-	-	X	-	-	-	X	-	-	-	-	-	-	-	-	B, I		
Sparkling wine	0	50	-	-	-	-	-	X	-	-	-	X	-	-	-	-	-	-	-	-	B, I		
Sap (juice) with 24 % ethanol	0	50	-	-	-	-	-	X	-	-	-	X	-	-	-	-	-	-	-	-	B, I		
Beverages, non-alcoholic																							
Coke	0	20	-	-	-	-	-	X	-	-	-	X	-	-	-	-	-	-	-	-	B, I	≤ 12°Bx	

⁶⁾ No details specified

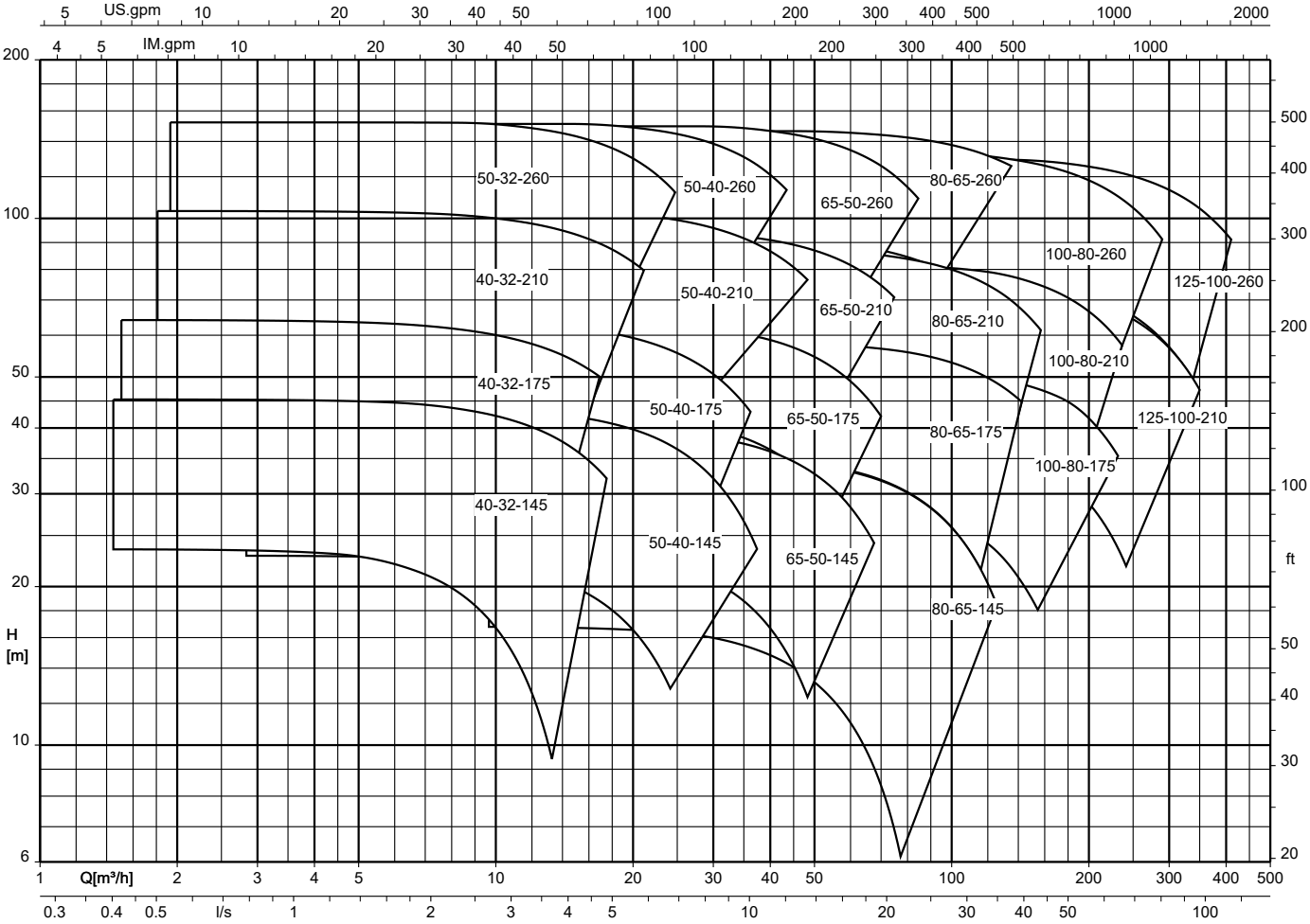
Fluid handled	T		Seal code																	Operating mode / flushing system	Comment	
	Min.	Max.	T19	T64	T66	T80	T81	T82	T83	T84	H0	H1	H1D	H2	H3	H3D	H4	H5	Q82			Q83
	[°C]																					
Coke concentrate	0	20	-	X	-	-	-	-	-	-	-	-	-	-	-	-	X	-	-	-	B, I	≤ 65°Bx
Coffee	0	60	-	-	-	-	X	-	-	-	-	-	-	-	-	X	-	-	-	-	B, I	Coffee extract
Lemonade	0	90	-	X	-	-	-	-	-	-	-	-	-	-	-	-	X	-	-	-	B, I	≤ 65°Bx
Caffeine crystals (liquid)	20	100	-	X	-	-	-	-	-	-	-	-	-	-	-	-	X	-	-	-	B, I	5 % caffeine max.
Glucose																						
Unsaturated aqueous solution	0	50	-	X	-	-	-	-	-	-	-	-	-	-	-	-	X	-	-	X	B, BQ, DB	Observe the melting point or crystallisation point. If required, heat up the casing cover prior to commissioning. Use suitable hot water as quench liquid. Concentration < 65°Bx single mechanical seal w/o flushing is ok.
Glycerine																						
Concentration ≤ 40 %	0	100	-	-	-	-	-	X	-	-	-	X	-	-	-	-	-	-	-	-	B, I	
Glycol (pure)																						
Diethylene glycol	0	60	-	-	-	-	-	X	-	-	-	X	-	-	-	-	-	-	-	X	B, I, D B	Provide water quench for indoor application (toxicity).
Ethylene glycol	0	60	-	-	-	-	-	X	-	-	-	X	-	-	-	-	-	-	-	X	B, I, B Q	Glycol Provide water quench for indoor application (toxicity).
Urea (carbamide)																						
Concentration ≤ 35%	0	80	-	-	X	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	BQ, DB	Use suitable hot water as cooling liquid.
Foodstuff (liquid)																						
Egg (liquid)	0	20	-	-	-	-	-	-	-	-	-	-	-	-	X	-	-	-	-	X	BQ, DB	If containing sugar, use Q72 (U2U2EGG).
Foodstuff (aqueous)																						
Malt	0	100	-	X	-	-	-	-	-	-	-	-	-	-	-	-	X	-	-	X	BQ, DB	Use suitable water as liquid quench.
Dairy products																						
Chocolate milk	0	90	-	-	-	X	-	-	-	-	-	X	-	-	-	-	-	-	-	-	B, I	
Sweetened condensed milk	0	90	-	-	-	-	X	-	-	-	-	-	-	-	-	X	-	-	-	-	B, I	
Skimmed milk (fresh, sour)	0	90	-	-	-	X	-	-	-	-	-	X	-	-	-	-	-	-	-	-	B, I	
Milk	0	90	-	-	-	X	-	-	-	-	-	X	-	-	-	-	-	-	-	-	B, I	
Cream (sweet, sour)	0	90	-	-	-	X	-	-	-	-	-	X	-	-	-	-	-	-	-	-	B, I	
Sweet permeate (milk)	0	90	-	-	-	X	-	-	-	-	-	X	-	-	-	-	-	-	-	-	B, I	
Concentrated milk (15 % bone dry)	0	50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	BQ, DB	Use suitable water as liquid quench.
Sodium hydroxide																						
Concentration 0 to 50 %	0	80	-	-	-	-	-	X	-	-	-	X	-	-	-	-	-	-	-	-	B, I	Observe the melting point or crystallisation point. If required, heat up the casing cover prior to commissioning. Use suitable hot water as continuous quench liquid.
Fruit pulp																						
Apple purée	0	20	-	-	-	-	-	-	-	-	-	X	-	-	-	-	-	-	-	-	B, I	
Apricot purée with 40 % water	0	20	-	-	-	-	-	-	-	-	-	-	-	-	X	-	-	-	-	X	BQ, DB	Use suitable water as liquid quench.
Oil, vegetable oil																						
Anise oil	0	100	-	-	-	X	-	-	-	-	-	X	-	-	-	-	-	-	-	-	B, I	
Cotton seed oil	5	100	-	-	-	X	-	-	-	-	-	X	-	-	-	-	-	-	-	-	B, I	
Peanut oil	5	100	-	-	-	X	-	-	-	-	-	X	-	-	-	-	-	-	-	-	B, I	
Lavender oil	0	100	-	-	-	X	-	-	-	-	-	X	-	-	-	-	-	-	-	-	B, I	
Linseed oil	0	60	-	-	-	X	-	-	-	-	-	X	-	-	-	-	-	-	-	-	B, I	
Linseed oil with ≤ 3 % H ₂ SO ₄	0	20	-	-	-	X	-	-	-	-	-	X	-	-	-	-	-	-	-	-	B, I	
Corn oil	0	100	-	-	-	X	-	-	-	-	-	X	-	-	-	-	-	-	-	-	B, I	
Olive oil	0	100	-	-	-	X	-	-	-	-	-	X	-	-	-	-	-	-	-	-	B, I	
Palm oil	45	100	-	-	-	X	-	-	-	-	-	X	-	-	-	-	-	-	-	-	B, I	Melting point = +27 °C to +42 °C. T85 (Q1U2VGG) recommended for temperatures above 70 °C.
Rapeseed oil	0	100	-	-	-	X	-	-	-	-	-	X	-	-	-	-	-	-	-	-	B, I	
Castor oil	26	100	-	-	-	X	-	-	-	-	-	X	-	-	-	-	-	-	-	-	B, I	Info: viscosity = 700 mm²/s at 25 °C
Soybean oil	0	100	-	-	-	X	-	-	-	-	-	X	-	-	-	-	-	-	-	-	B, I	

Fluid handled	T		Seal code																	Operating mode / flushing system	Comment		
	Min.	Max.	T19	T64	T66	T80	T81	T82	T83	T84	H0	H1	H1D	H2	H3	H3D	H4	H5	Q82			Q83	
	[°C]																						
Sunflower oil	0	100	-	-	-	X	-	-	-	-	-	-	X	-	-	-	-	-	-	-	-	B, I	Non-heatable pumps can be used if the melting point < ambient temperature. Check the melting point and viscosity with the customer.
Edible oil	0	100	-	-	-	X	-	-	-	-	-	-	X	-	-	-	-	-	-	-	-	B, I	
Walnut oil	0	100	-	-	-	X	-	-	-	-	-	-	X	-	-	-	-	-	-	-	-	B, I	
Juice (fruit and sugar solutions)																							
Fruit juice	0	60	-	X	-	-	-	-	-	-	-	-	X	-	-	-	-	-	-	-	-	B, I	Apple juice
Vegetable juice	0	100	-	X	-	-	-	-	-	-	-	-	X	-	-	-	-	-	-	-	-	B, I	
Orange juice	0	60	-	X	-	-	-	-	-	-	-	-	X	-	-	-	-	-	-	-	-	B, I	
Pressed sap	0	50	-	X	-	-	-	-	-	-	-	-	X	-	-	-	-	-	-	-	-	B, I	
Sugar solutions	0	100	-	X	-	-	-	-	-	-	-	-	X	-	-	-	-	-	-	-	-	B, I	Sugar solution > 65 Bx (for single seal)
	0	95	-	X	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	X	DB, B Q	Use suitable water as barrier fluid, concentration > 65°Bx.
Acid, malic acid																							
Unsaturated aqueous solution	0	60	-	-	-	-	-	-	X	-	-	-	-	X	-	-	-	-	-	-	-	B, I	Solubility = 65 % at 40 °C and 72.8 % at 60 °C
Acid, citric acid																							
Concentration 1 to 50 %	0	80	-	-	-	-	-	X	-	-	-	X	-	-	-	-	-	-	-	-	-	B, I	
Acid, acetic acid																							
Concentration 1 to 25 %	0	60	-	-	-	-	-	X	-	-	-	X	-	-	-	-	-	-	-	-	-	B, I	Vinegar
Concentration ≤ 30%	0	20	-	-	-	-	-	X	-	-	-	X	-	-	-	-	-	-	-	X	-	BQ, DB	Use suitable water as liquid quench.
Concentration ≤ 50%	0	20	-	-	-	-	-	X	-	-	-	X	-	-	-	-	-	-	-	X	-	BQ, DB	Use suitable water as liquid quench.
Acid																							
Unsaturated aqueous solution	0	100	-	-	-	X	-	-	-	-	-	-	X	-	-	-	-	-	-	-	-	B, I	
Acid, tannic acid																							
Concentration 1 to 50%	0	100	-	-	-	-	-	X	-	-	-	X	-	-	-	-	-	-	-	-	-	B, I	
Acid, lactic acid																							
Concentration 1 to 50%	0	60	-	-	-	X	-	-	-	-	-	-	X	-	-	-	-	-	-	-	-	B, I	
Acid, oxalic acid																							
Concentration ≤ 5%	0	20	-	-	-	-	-	X	-	-	-	X	-	-	-	-	-	-	-	X	-	BQ, DB	Use suitable water as liquid quench.
Acid, tartaric acid																							
Concentration ≤ 8%	0	60	-	-	-	-	-	X	-	-	-	-	X	-	-	-	-	-	-	-	-	B, I	
Concentration ≤ 50%	0	60	-	-	-	-	-	X	-	-	-	X	-	-	-	-	-	-	-	-	-	B, I	
Sorbitol (solution)																							
Unsaturated aqueous solution	0	80	X	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	X	DB, B Q	Mechanical seal for solutions up to 40 % max. Use suitable water as liquid quench.
Water, desalinated																							
De-ionised water	0	110	-	-	-	-	-	X	-	-	-	X	-	-	-	-	-	-	-	-	-	B, I	Water quality: conductivity > 10 µS/cm < 250 µS/cm, SiO ₂ content < 10 mg/l, solids content 5 mg/l max.
Ultrapure water	0	110	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	X	-	-	B, I	Use suitable water as quench liquid for temperature > 90 °C.
Water for injection	0	110	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	X	-	-	-	B, I	Use suitable water as quench liquid for temperature > 90 °C.
Drinking water																							
Mash, schnapps	0	110	-	-	-	-	-	X	-	-	-	X	-	-	-	-	-	-	-	-	-	B, I	
Ice water (brewery)	0	110	-	-	-	-	-	X	-	-	-	X	-	-	-	-	-	-	-	-	-	B, I	
Tap water	0	110	-	-	-	-	-	X	-	-	-	X	-	-	-	-	-	-	-	-	-	B, I	
-	0	110	-	-	-	-	-	X	-	-	-	X	-	-	-	-	-	-	-	-	-	B, I	
Hot water (brewery)	0	110	-	-	-	-	-	X	-	-	-	X	-	-	-	-	-	-	-	-	-	I	
Water																							
Pure water	0	110	-	-	-	-	-	X	-	-	-	X	-	-	-	-	-	-	-	-	-	B, I	

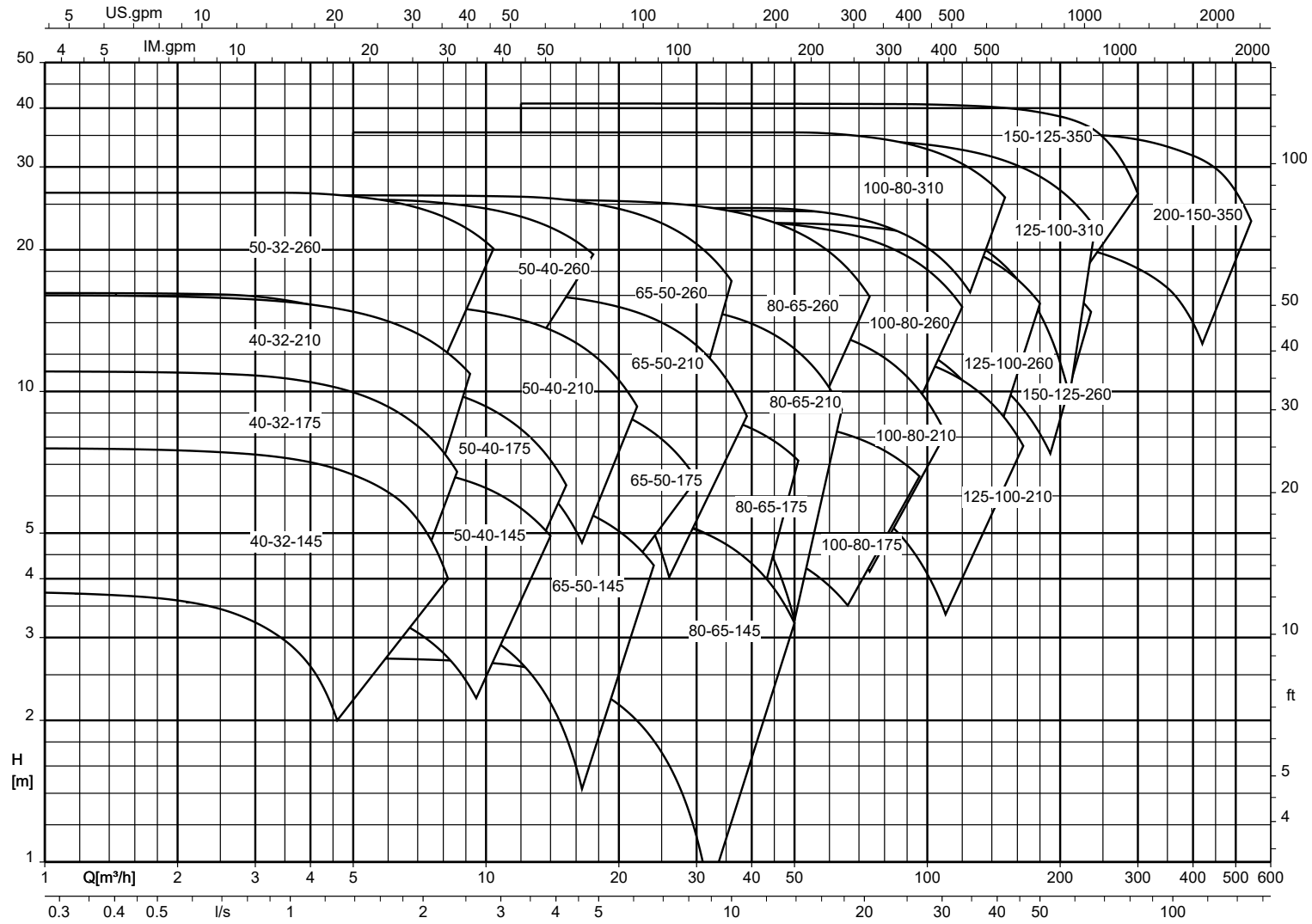
Selection charts
Vitacast, n = 2900 rpm



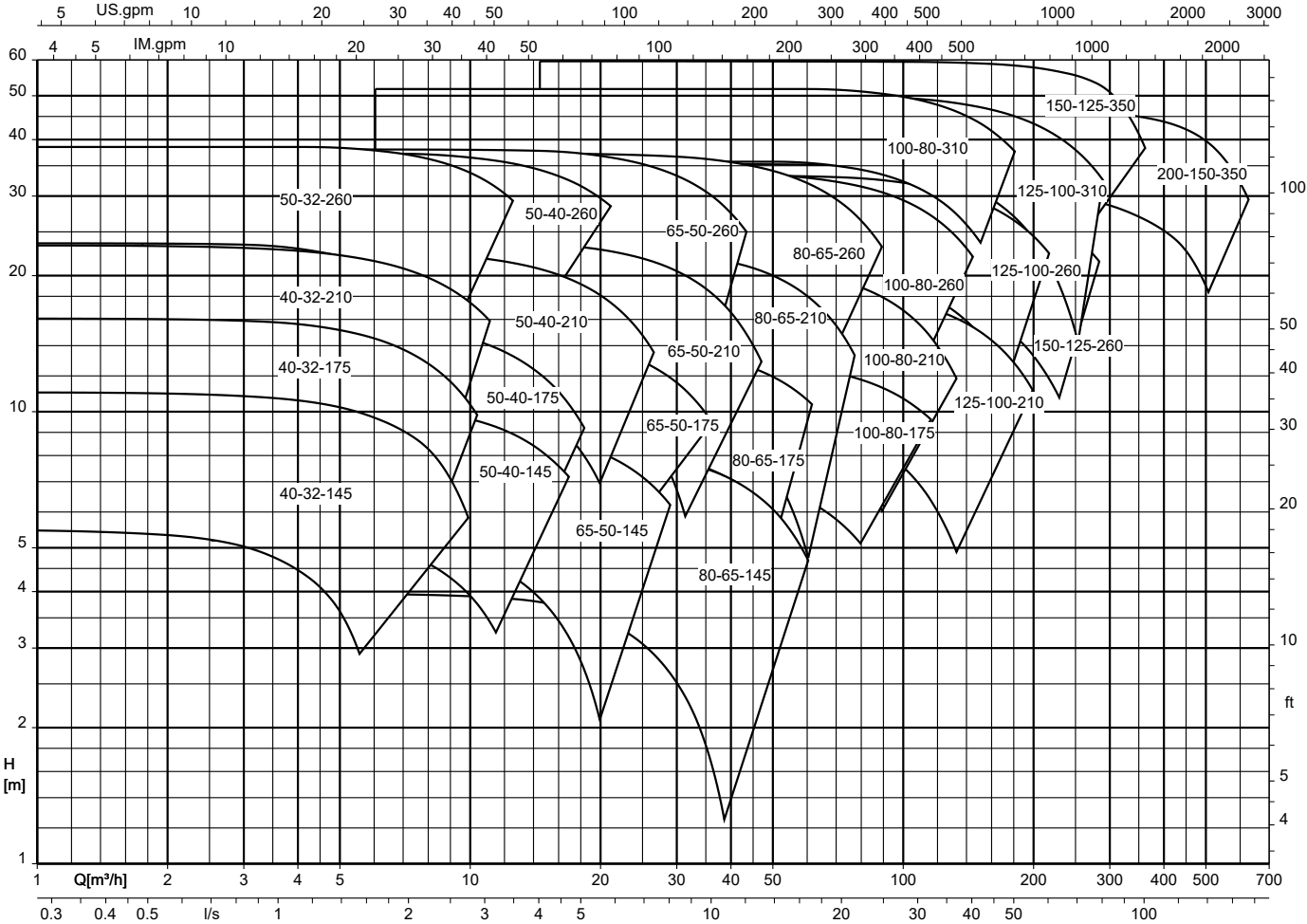
Vitacast, n = 3500 rpm



Vitacast, n = 1450 rpm



Vitacast, n = 1750 rpm



Characteristic curves

Vitacast, Vitacast Bloc (fixed speed version)

Related documents

Table 9: Information/documents

Document	Reference number
Characteristic curves booklet (50 Hz)	1969.450
Fixed speed version	

Dimensions

Pump dimensions

Version with coupling

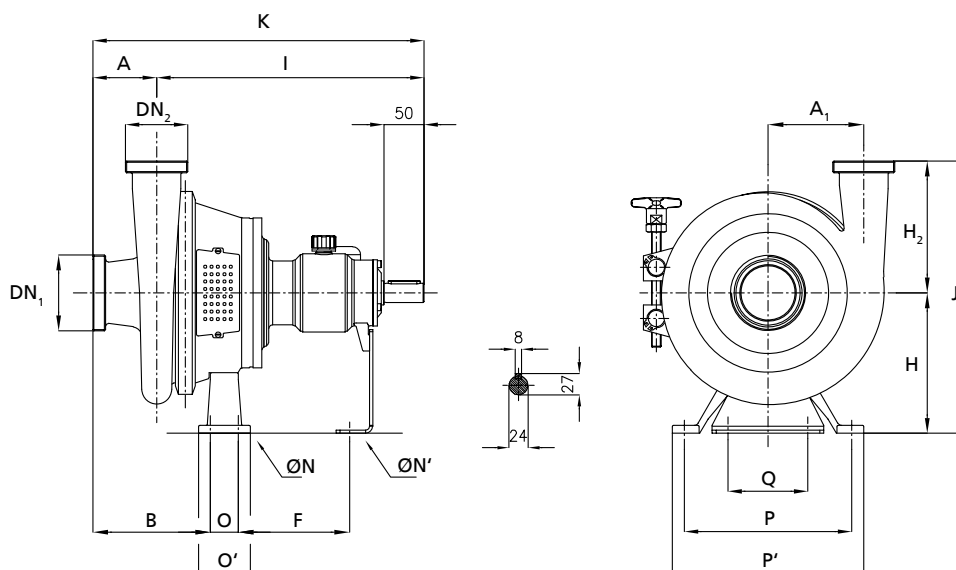


Fig. 1: Vitacast 040-032-145 to 080-065-175 without motor

Vitacast	DN ₁	DN ₂	A	B	F	G	H	I	K	J	L	N	N'	O	O'	P	P'	Q
040-032-145	40	32	80	135	128	85	176	335	415	321	145	11	10	60	85	208	240	100
040-032-175	40	32	80	136	127	95	176	334	414	326	150	11	10	60	85	208	240	100
040-032-210	40	32	80	136	127	110	176	335	415	341	165	11	10	60	85	208	240	100
050-040-145	50	40	80	136	128	90	176	335	415	309	133	11	10	60	85	208	240	100
050-040-175	50	40	80	138	126	95	176	337	417	326	150	11	10	60	85	208	240	100
050-040-210	50	40	80	138	126	115	176	337	417	341	165	11	10	60	85	208	240	100
065-050-145	65	50	80	138	127	95	176	337	417	321	145	11	10	60	85	208	240	100
065-050-175	65	50	80	139	126	100	176	337	417	325	150	11	10	60	85	208	240	100
065-050-210	65	50	80	138	126	120	176	337	417	341	165	11	10	60	85	208	240	100
080-065-145	80	65	79	141	128	112	176	341	420	321	145	11	10	60	85	208	240	100
080-065-175	80	65	80	142	127	120	176	340	420	326	150	11	10	60	85	208	240	100

Version with coupling

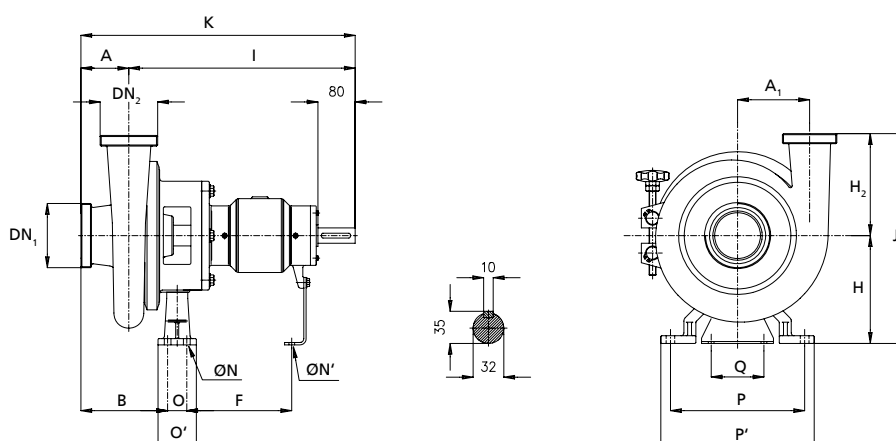
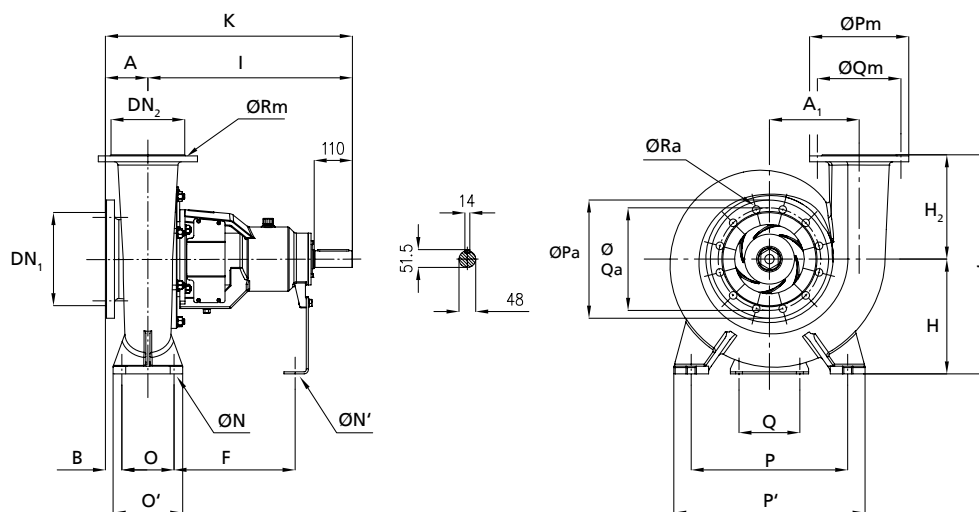


Fig. 2: Vitacast 080-065-210 to 150-125-260 without motor

Vitacast	DN ₁	DN ₂	A	B	F	G	H	I	K	J	L	N	N'	O	O'	P	P'	Q
080-065-210	80	65	90	149	202	135	225	474	564	390	165	14	12	80	106	300	340	110
080-065-260	80	65	100	158	202	155	225	474	573	430	205	14	12	80	106	300	340	110
100-080-175	100	80	100	166	202	139	217	479	579	381	164	14	12	80	106	300	340	110
100-080-210	100	80	100	161	202	145	225	476	576	389	164	14	12	80	106	300	340	110
100-080-260	100	80	100	161	202	165	225	476	576	424	209	14	12	80	106	300	340	110

Vitacast	DN ₁	DN ₂	A	B	F	G	H	I	K	J	L	N	N'	O	O'	P	P'	Q
125-100-210	125	100	111	178	202	161	225	483	593	439	214	14	12	80	106	300	340	110
125-100-260	125	100	115	178	202	186	225	478	593	441	216	14	12	80	106	300	340	110
150-125-260	150	125	110	182	202	206	225	487	597	441	216	14	12	80	106	300	340	110

Version with coupling

Fig. 3: Vitacast 150-125-350 and 200-150-350 without motor

Vitacast	DN ₁	DN ₂	A	B	F	G	H	I	K	J	L	N	N'	O	O'	P	P'	Q
150-125-350	150	125	122	47	346	232	280	586	708	580	300	22	14	150	200	400	500	110
200-150-350	200	150	122	47	348	258	330	580	702	630	300	22	20	150	200	450	550	175

Vitacast	DN ₁	DN ₂	ØPm	ØPa	ØQm	ØQa	ØRa	ØRm	Number of holes a	Number of holes m
150-125-350	150	125	250	285	210	240	22	18	8	8
200-150-350	200	150	285	340	240	295	22	22	12	8

Pump set dimensions

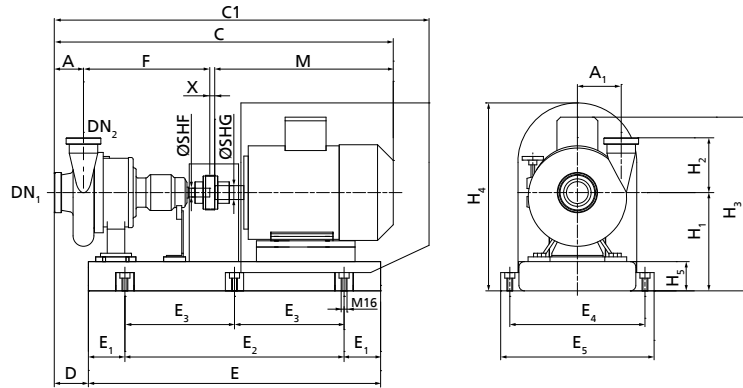


Fig. 4: Pump set on baseplate

Table 10: Dimensions of baseplate-mounted pump set, based on connection to DIN 11851 and Siemens 1LE 1 motor, 50 Hz

Size	Motor	p ⁷⁾		A	A ⁸⁾	A ₁	C	C ₁	D	DN ₁	DN ₁ ⁸⁾	DN ₂	E	E ₁	E ₂	E ₃	E ₄	E ₅	F	H ₁	H ₂	H ₃	H ₄	H ₅	M	X	ØSHF	ØSHG	Coupling type	Baseplate size	
		2 poles	4 poles																												
		[mm]																													
[kW]																															
040-032-145	80M	0,75	0,55	80	80	85	724	844	111,5	65	40	32	620	80	460	-	370	420	335	254	145	390	440	70	292	17	24	19	A0	1	
040-032-145	80M	1,1	0,75	80	80	85	724	844	111,5	65	40	32	620	80	460	-	370	420	335	254	145	390	440	70	292	17	24	19	A0	1	
040-032-145	90S	1,5	1,1	80	80	85	825	945	111,5	65	40	32	620	80	460	-	370	420	335	254	145	409	459	70	387	23	24	19	A1	1	
040-032-145	90L	2,2	1,5	80	80	85	825	945	111,5	65	40	32	620	80	460	-	370	420	335	254	145	409	459	70	387	23	24	19	A1	1	
040-032-145	100L	3	2,2	80	80	85	868	988	111,5	65	40	32	650	80	490	-	370	420	335	254	145	419	490	70	430	23	24	28	A1	2	
040-032-145	100L	3	3	80	80	85	868	988	111,5	65	40	32	650	80	490	-	370	420	335	254	145	419	490	70	430	23	24	28	A1	2	
040-032-145	112M	4	4	80	80	85	852	972	111,5	65	40	32	650	80	490	-	370	420	335	254	145	438	488	70	414	23	24	28	A1	2	
040-032-145	132S	5,5	5,5	80	80	85	903	1023	93	65	40	32	800	100	600	-	370	420	335	269	145	481	515	80	465	23	24	38	A1	3	
040-032-145	132S	7,5	5,5	80	80	85	903	1023	93	65	40	32	800	100	600	-	370	420	335	269	145	481	515	80	465	23	24	38	A1	3	
040-032-175	80M	0,75	0,55	80	85	95	724	844	112,5	65	40	32	620	80	460	-	370	420	335	254	150	390	440	70	292	17	24	38	A0	1	
040-032-175	80M	1,1	0,75	80	85	95	724	844	112,5	65	40	32	620	80	460	-	370	420	335	254	150	390	440	70	292	17	24	38	A0	1	
040-032-175	90S	1,5	1,1	80	85	95	825	945	112,5	65	40	32	620	80	460	-	370	420	335	254	150	409	459	70	387	23	24	19	A1	1	
040-032-175	90L	2,2	1,5	80	85	95	825	945	112,5	65	40	32	620	80	460	-	370	420	335	254	150	409	459	70	387	23	24	19	A1	1	
040-032-175	100L	3	2,2	80	85	95	868	988	112,5	65	40	32	650	80	490	-	370	420	335	254	150	419	490	70	430	23	24	28	A1	2	
040-032-175	100L	3	3	80	85	95	868	988	112,5	65	40	32	650	80	490	-	370	420	335	254	150	419	490	70	430	23	24	28	A1	2	

⁷ For 50 Hz⁸ With inducer

Size	Motor	p ⁷⁾		A	A ⁸⁾	A ₁	C	C ₁	D	DN ₁	DN ₁ ⁸⁾	DN ₂	E	E ₁	E ₂	E ₃	E ₄	E ₅	F	H ₁	H ₂	H ₃	H ₄	H ₅	M	X	ØSHF	ØSHG	Coupling type	Baseplate size
		2 poles	4 poles																											
		[mm]																												
040-032-175	112M	4	4	80	85	95	852	972	112,5	65	40	32	650	80	490	-	370	420	335	254	150	438	488	70	414	23	24	28	A1	2
040-032-175	132S	5,5	5,5	80	85	95	903	1023	94	65	40	32	800	100	600	-	370	420	335	269	150	481	515	80	465	23	24	28	A1	3
040-032-175	132S	7,5	5,5	80	85	95	903	1023	94	65	40	32	800	100	600	-	370	420	335	269	150	481	515	80	465	23	24	28	A1	3
040-032-210	80M	0,75	0,55	80	85	110	724	844	112,5	65	40	32	620	80	460	-	370	420	335	254	165	390	440	70	292	17	24	19	A0	1
040-032-210	80M	1,1	0,75	80	85	110	724	844	112,5	65	40	32	620	80	460	-	370	420	335	254	165	390	440	70	292	17	24	19	A0	1
040-032-210	90L	2,2	1,5	80	85	110	825	945	112,5	65	40	32	620	80	460	-	370	420	335	254	165	409	459	70	387	23	24	19	A1	1
040-032-210	100L	3	2,2	80	85	110	868	988	112,5	65	40	32	650	80	490	-	370	420	335	254	165	419	490	70	430	23	24	28	A1	2
040-032-210	100L	3	3	80	85	110	868	988	112,5	65	40	32	650	80	490	-	370	420	335	254	165	419	490	70	430	23	24	28	A1	2
040-032-210	112M	4	4	80	85	110	852	972	112,5	65	40	32	650	80	490	-	370	420	335	254	165	438	488	70	414	23	24	28	A1	2
040-032-210	132S	5,5	5,5	80	85	110	903	1023	94	65	40	32	800	100	600	-	370	420	335	269	165	481	515	80	465	23	24	38	A1	3
040-032-210	132S	7,5	5,5	80	85	110	903	1023	94	65	40	32	800	100	600	-	370	420	335	269	165	481	515	80	465	23	24	38	A1	3
040-032-210	160M	11	11	80	85	110	1052	1172	95	-	40	32	900	120	660	-	400	450	335	269	165	524	604	80	604	33	24	38	A2	4
040-032-210	160M	15	11	80	85	110	1052	1172	95	-	40	32	900	120	660	-	400	450	335	269	165	524	604	80	604	33	24	38	A2	4
050-032-260	90S	1,5	1,1	90	-	140	968	1088	115,5	-	50	32	800	100	600	-	420	470	468	323	172	478	528	80	387	23	32	24	A1	6
050-032-260	90L	2,2	1,5	90	-	140	968	1088	115,5	-	50	32	800	100	600	-	420	470	468	323	172	478	528	80	387	23	32	24	A1	6
050-032-260	100L	3	2,2	90	-	140	1011	1131	115,5	-	50	32	800	100	600	-	420	470	468	323	172	488	538	80	430	23	32	28	A1	6
050-032-260	100L	3	3	90	-	140	1011	1131	115,5	-	50	32	800	100	600	-	420	470	468	323	172	488	538	80	430	23	32	28	A1	6
050-032-260	112M	4	4	90	-	140	995	1115	115,5	-	50	32	800	100	600	-	420	470	468	323	172	535	585	80	414	23	32	28	A1	6
050-032-260	132S	5,5	5,5	90	-	140	1046	1166	115,5	-	50	32	900	120	660	-	420	470	468	323	172	535	585	80	465	23	32	38	A1	4
050-032-260	132S	7,5	5,5	90	-	140	1046	1166	115,5	-	50	32	900	120	660	-	420	470	468	323	172	535	585	80	465	23	32	38	A1	4
050-032-260	160M	11	11	90	-	140	1195	1315	115,5	-	50	32	1025	120	785	-	420	470	468	323	172	578	658	80	604	33	32	42	A2	7
050-032-260	160M	15	11	90	-	140	1195	1315	115,5	-	50	32	1025	120	785	-	420	470	468	323	172	578	658	80	604	33	32	42	A2	7
050-032-260	160L	18,5	15	90	-	140	1255	1375	115,5	-	50	32	1025	120	785	-	420	470	468	323	172	578	658	80	664	33	32	42	A2	7
050-040-145	80M	0,75	0,55	80	-	90	724	844	112,5	-	50	40	620	80	460	-	370	420	335	254	133	390	440	70	292	17	24	19	A0	1
050-040-145	80M	1,1	0,75	80	-	90	724	844	112,5	-	50	40	620	80	460	-	370	420	335	254	133	390	440	70	292	17	24	19	A0	1
050-040-145	90S	1,5	1,1	80	-	90	825	945	112,5	-	50	40	620	80	460	-	370	420	335	254	133	409	459	70	387	23	24	19	A1	1
050-040-145	90L	2,2	1,5	80	-	90	825	945	112,5	-	50	40	620	80	460	-	370	420	335	254	133	409	459	70	387	23	24	19	A1	1
050-040-145	100L	3	2,2	80	-	90	868	988	112,5	-	50	40	650	80	490	-	370	420	335	254	133	419	490	70	430	23	24	28	A1	2
050-040-145	100L	3	3	80	-	90	868	988	112,5	-	50	40	650	80	490	-	370	420	335	254	133	419	490	70	430	23	24	28	A1	2
050-040-145	112M	4	4	80	-	90	852	972	112,5	-	50	40	650	80	490	-	370	420	335	254	133	438	488	70	414	23	24	28	A1	2
050-040-145	132S	5,5	5,5	80	-	90	903	1023	94	-	50	40	800	100	600	-	370	420	335	269	133	481	515	80	465	23	24	28	A1	3
050-040-145	132S	7,5	5,5	80	-	90	903	1023	94	-	50	40	800	100	600	-	370	420	335	269	133	481	515	80	465	23	24	28	A1	3
050-040-175	80M	0,75	0,55	80	-	95	726	846	114,5	-	50	40	620	80	460	-	370	420	337	254	150	390	440	70	292	17	24	28	A0	1
050-040-175	80M	1,1	0,75	80	-	95	726	846	114,5	-	50	40	620	80	460	-	370	420	337	254	150	390	440	70	292	17	24	28	A0	1
050-040-175	90L	2,2	1,5	80	-	95	827	947	114,5	-	50	40	620	80	460	-	370	420	337	254	150	409	459	70	387	23	24	19	A1	1
050-040-175	100L	3	2,2	80	-	95	870	990	114,5	-	50	40	650	80	490	-	370	420	337	254	150	419	490	70	430	23	24	28	A1	2

Size	Motor	p ⁷⁾		A	A ⁸⁾	A ₁	C	C ₁	D	DN ₁	DN ₁ ⁸⁾	DN ₂	E	E ₁	E ₂	E ₃	E ₄	E ₅	F	H ₁	H ₂	H ₃	H ₄	H ₅	M	X	ØSHF	ØSHG	Coupling type	Baseplate size
		2 poles	4 poles																											
050-040-175	100L	3	3	80	-	95	870	990	114,5	-	50	40	650	80	490	-	370	420	337	254	150	419	490	70	430	23	24	28	A1	2
050-040-175	112M	4	4	80	-	95	854	974	114,5	-	50	40	650	80	490	-	370	420	337	254	150	438	488	70	414	23	24	28	A1	2
050-040-175	132S	5,5	5,5	80	-	95	905	1025	96	-	50	40	800	100	600	-	370	420	337	269	150	481	515	80	465	23	24	38	A1	3
050-040-175	132S	7,5	5,5	80	-	95	905	1025	96	-	50	40	800	100	600	-	370	420	337	269	150	481	515	80	465	23	24	38	A1	3
050-040-175	160M	11	11	80	-	95	1054	1174	97	-	50	40	900	120	660	-	400	450	337	269	150	524	604	80	604	33	24	38	A2	4
050-040-175	160M	15	11	80	-	95	1054	1174	97	-	50	40	900	120	660	-	400	450	337	269	150	524	604	80	604	33	24	38	A2	4
050-040-175	160L	18,5	15	80	-	95	1114	1234	97	-	50	40	900	120	660	-	400	450	337	269	150	524	604	80	664	33	24	38	A2	4
050-040-210	80M	0,75	0,55	80	89	115	726	846	114,5	80	50	40	620	80	460	-	370	420	337	254	165	390	440	70	292	17	24	19	A0	1
050-040-210	80M	1,1	0,75	80	89	115	726	846	114,5	80	50	40	620	80	460	-	370	420	337	254	165	390	440	70	292	17	24	19	A0	1
050-040-210	90S	1,5	1,1	80	89	115	827	947	114,5	80	50	40	620	80	460	-	370	420	337	254	165	409	459	70	387	23	24	24	A1	1
050-040-210	90L	2,2	1,5	80	89	115	827	947	114,5	80	50	40	620	80	460	-	370	420	337	254	165	409	459	70	387	23	24	24	A1	1
050-040-210	100L	3	2,2	80	89	115	870	990	114,5	80	50	40	650	80	490	-	370	420	337	254	165	419	490	70	430	23	24	28	A1	2
050-040-210	100L	3	3	80	89	115	870	990	114,5	80	50	40	650	80	490	-	370	420	337	254	165	419	490	70	430	23	24	28	A1	2
050-040-210	112M	4	4	80	89	115	854	974	114,5	80	50	40	650	80	490	-	370	420	337	254	165	438	488	70	414	23	24	28	A1	2
050-040-210	132S	5,5	5,5	80	89	115	905	1025	96	80	50	40	800	100	600	-	370	420	337	269	165	481	515	80	465	23	24	38	A1	3
050-040-210	132S	7,5	5,5	80	89	115	905	1025	96	80	50	40	800	100	600	-	370	420	337	269	165	481	515	80	465	23	24	38	A1	3
050-040-210	160M	11	11	80	89	115	1054	1174	97	80	50	40	900	120	660	-	400	450	337	269	165	524	604	80	604	33	24	38	A2	4
050-040-210	160M	15	11	80	89	115	1054	1174	97	80	50	40	900	120	660	-	400	450	337	269	165	524	604	80	604	33	24	38	A2	4
050-040-210	160L	18,5	15	80	89	115	1114	1234	97	80	50	40	900	120	660	-	400	450	337	269	165	524	604	80	664	33	24	38	A2	4
050-040-260	90L	2,2	1,5	100	-	145	978	1098	125,5	-	50	40	800	100	600	-	420	470	468	323	172	478	528	80	387	23	32	24	A1	6
050-040-260	100L	3	2,2	100	-	145	1021	1141	125,5	-	50	40	800	100	600	-	420	470	468	323	172	488	538	80	430	23	32	28	A1	6
050-040-260	100L	3	3	100	-	145	1021	1141	125,5	-	50	40	800	100	600	-	420	470	468	323	172	488	538	80	430	23	32	28	A1	6
050-040-260	112M	4	4	100	-	145	1005	1125	125,5	-	50	40	800	100	600	-	420	470	468	323	172	507	557	80	414	23	32	28	A1	6
050-040-260	132S	5,5	5,5	100	-	145	1056	1176	125,5	-	50	40	900	120	660	-	420	470	468	323	172	535	585	80	465	23	32	38	A1	4
050-040-260	132S	7,5	5,5	100	-	145	1056	1176	125,5	-	50	40	900	120	660	-	420	470	468	323	172	535	585	80	465	23	32	38	A1	4
050-040-260	160M	11	11	100	-	145	1205	1325	125,5	-	50	40	1025	120	785	-	420	470	468	323	172	578	658	80	604	33	32	42	A2	7
050-040-260	160M	15	11	100	-	145	1205	1325	125,5	-	50	40	1025	120	785	-	420	470	468	323	172	578	658	80	604	33	32	42	A2	7
050-040-260	160L	18,5	15	100	-	145	1265	1385	125,5	-	50	40	1025	120	785	-	420	470	468	323	172	578	658	80	664	33	32	42	A2	7
050-040-260	180M	22	18,5	100	-	145	1310	1430	126	-	50	40	1100	130	840	-	450	500	468	343	172	617	697	100	698	44	32	48	A3B	8
050-040-260	200L	30	30	100	-	145	1333	1453	129	-	50	40	1100	130	840	-	480	530	468	343	172	643	750	100	721	44	32	55	A3B	9
050-040-260	200L	37	30	100	-	145	1333	1453	129	-	50	40	1100	130	840	-	480	530	468	343	172	643	750	100	721	44	32	55	A3B	9
065-050-145	80M	0,75	0,55	80	85	95	726	846	114,5	100	65	50	620	80	460	-	370	420	337	254	145	390	440	70	292	17	24	19	A0	1
065-050-145	80M	1,1	0,75	80	85	95	726	846	114,5	100	65	50	620	80	460	-	370	420	337	254	145	390	440	70	292	17	24	19	A0	1
065-050-145	90L	2,2	1,5	80	85	95	827	947	114,5	100	65	50	620	80	460	-	370	420	337	254	145	409	459	70	387	23	24	19	A1	1
065-050-145	100L	3	2,2	80	85	95	870	990	114,5	100	65	50	650	80	490	-	370	420	337	254	145	419	490	70	430	23	24	28	A1	2
065-050-145	100L	3	3	80	85	95	870	990	114,5	100	65	50	650	80	490	-	370	420	337	254	145	419	490	70	430	23	24	28	A1	2

Size	Motor	p ⁷⁾		A	A ⁸⁾	A ₁	C	C ₁	D	DN ₁	DN ₁ ⁸⁾	DN ₂	E	E ₁	E ₂	E ₃	E ₄	E ₅	F	H ₁	H ₂	H ₃	H ₄	H ₅	M	X	ØSHF	ØSHG	Coupling type	Baseplate size
		2 poles	4 poles																											
		[mm]																												
065-050-145	112M	4	4	80	85	95	854	974	114,5	100	65	50	650	80	490	-	370	420	337	254	145	438	488	70	414	23	24	28	A1	2
065-050-145	132S	5,5	5,5	80	85	95	905	1025	96	100	65	50	800	100	600	-	370	420	337	269	145	481	515	80	465	23	24	38	A1	3
065-050-145	132S	7,5	5,5	80	85	95	905	1025	96	100	65	50	800	100	600	-	370	420	337	269	145	481	515	80	465	23	24	38	A1	3
065-050-145	160M	11	11	80	85	95	1054	1174	97	100	65	50	900	120	660	-	400	450	337	269	145	524	604	80	604	33	24	42	A2	4
065-050-145	160M	15	11	80	85	95	1054	1174	97	100	65	50	900	120	660	-	400	450	337	269	145	524	604	80	604	33	24	42	A2	4
065-050-175	80M	0,75	0,55	80	85	100	726	846	115,5	100	65	50	620	80	460	-	370	420	337	254	150	390	440	70	292	17	24	19	A0	1
065-050-175	80M	1,1	0,75	80	85	100	726	846	115,5	100	65	50	620	80	460	-	370	420	337	254	150	390	440	70	292	17	24	19	A0	1
065-050-175	90S	1,5	1,1	80	85	100	827	947	115,5	100	65	50	620	80	460	-	370	420	337	254	150	409	459	70	387	23	24	24	A1	1
065-050-175	90L	2,2	1,5	80	85	100	827	947	115,5	100	65	50	620	80	460	-	370	420	337	254	150	409	459	70	387	23	24	24	A1	1
065-050-175	100L	3	2,2	80	85	100	870	990	115,5	100	65	50	650	80	490	-	370	420	337	254	150	419	490	70	430	23	24	28	A1	2
065-050-175	100L	3	3	80	85	100	870	990	115,5	100	65	50	650	80	490	-	370	420	337	254	150	419	490	70	430	23	24	28	A1	2
065-050-175	112M	4	4	80	85	100	854	974	115,5	100	65	50	650	80	490	-	370	420	337	254	150	438	488	70	414	23	24	28	A1	2
065-050-175	132S	5,5	5,5	80	85	100	905	1025	97	100	65	50	800	100	600	-	370	420	337	269	150	481	515	80	465	23	24	38	A1	3
065-050-175	132S	7,5	5,5	80	85	100	905	1025	97	100	65	50	800	100	600	-	370	420	337	269	150	481	515	80	465	23	24	38	A1	3
065-050-175	160M	11	11	80	85	100	1054	1174	98	100	65	50	900	120	660	-	400	450	337	269	150	524	604	80	604	33	24	38	A2	4
065-050-175	160M	15	11	80	85	100	1054	1174	98	100	65	50	900	120	660	-	400	450	337	269	150	524	604	80	604	33	24	38	A2	4
065-050-175	160L	18,5	15	80	85	100	1114	1234	98	100	65	50	900	120	660	-	400	450	337	269	150	524	604	80	664	33	24	38	A2	4
065-050-210	90S	1,5	1,1	80	85	120	827	947	114,5	100	65	50	620	80	460	-	370	420	337	254	165	409	459	70	387	23	24	24	A1	1
065-050-210	90L	2,2	1,5	80	85	120	827	947	114,5	100	65	50	620	80	460	-	370	420	337	254	165	409	459	70	387	23	24	24	A1	1
065-050-210	100L	3	2,2	80	85	120	870	990	114,5	100	65	50	650	80	490	-	370	420	337	254	165	419	469	70	430	23	24	28	A1	2
065-050-210	100L	3	3	80	85	120	870	990	114,5	100	65	50	650	80	490	-	370	420	337	254	165	419	469	70	430	23	24	28	A1	2
065-050-210	112M	4	4	80	85	120	854	974	114,5	100	65	50	650	80	490	-	370	420	337	254	165	438	488	70	414	23	24	28	A1	2
065-050-210	132S	5,5	5,5	80	85	120	905	1025	96	100	65	50	800	100	600	-	370	420	337	269	165	481	515	80	465	23	24	38	A1	3
065-050-210	132S	7,5	5,5	80	85	120	905	1025	96	100	65	50	800	100	600	-	370	420	337	269	165	481	515	80	465	23	24	38	A1	3
065-050-210	160M	11	11	80	85	120	1054	1174	97	100	65	50	900	120	660	-	400	450	337	269	165	524	604	80	604	33	24	38	A2	4
065-050-210	160M	15	11	80	85	120	1054	1174	97	100	65	50	900	120	660	-	400	450	337	269	165	524	604	80	604	33	24	38	A2	4
065-050-210	160L	18,5	15	80	85	120	1114	1234	97	100	65	50	900	120	660	-	400	450	337	269	165	524	604	80	664	33	24	38	A2	4
065-050-210	180M	22	18,5	80	85	120	1159	1279	96	100	65	50	950	120	710	-	450	500	337	289	165	563	643	80	698	44	24	48	A3B	5
065-050-210	200L	30	30	80	85	120	1182	1302	96	100	65	50	1000	120	760	-	480	530	337	289	165	589	669	80	721	44	24	55	A3B	6
065-050-210	200L	37	30	80	85	120	1182	1302	96	100	65	50	1000	120	760	-	480	530	337	289	165	589	669	80	721	44	24	55	A3B	6
065-050-260	100L	3	2,2	90	90	145	1013	1133	117,5	100	65	50	800	100	600	-	420	470	470	323	175	488	538	80	430	23	32	28	A1	6
065-050-260	100L	3	3	90	90	145	1013	1133	117,5	100	65	50	800	100	600	-	420	470	470	323	175	488	538	80	430	23	32	28	A1	6
065-050-260	112M	4	4	90	90	145	997	1117	117,5	100	65	50	800	100	600	-	420	470	470	323	175	507	557	80	414	23	32	28	A1	6
065-050-260	132S	5,5	5,5	90	90	145	1048	1168	117,5	100	65	50	900	120	660	-	420	470	470	323	175	535	585	80	465	23	32	38	A1	4
065-050-260	132S	7,5	5,5	90	90	145	1048	1168	117,5	100	65	50	900	120	660	-	420	470	470	323	175	535	585	80	465	23	32	38	A1	4
065-050-260	160M	11	11	90	90	145	1197	1317	117,5	100	65	50	1025	120	785	-	420	470	470	323	175	578	658	80	604	33	32	42	A2	7

Size	Motor	p ⁷⁾		A	A ⁸⁾	A ₁	C	C ₁	D	DN ₁	DN ₁ ⁸⁾	DN ₂	E	E ₁	E ₂	E ₃	E ₄	E ₅	F	H ₁	H ₂	H ₃	H ₄	H ₅	M	X	ØSHF	ØSHG	Coupling type	Baseplate size
		2 poles	4 poles																											
		[kW]																												
[mm]																														
065-050-260	160M	15	11	90	90	145	1197	1317	117,5	100	65	50	1025	120	785	-	420	470	470	323	175	578	658	80	604	33	32	42	A2	7
065-050-260	160L	18,5	15	90	90	145	1257	1377	117,5	100	65	50	1025	120	785	-	420	470	470	323	175	578	658	80	664	33	32	42	A2	7
065-050-260	180M	22	18,5	90	90	145	1302	1422	118	100	65	50	1100	130	840	-	450	500	470	343	175	617	697	100	698	44	32	48	A3B	8
065-050-260	200L	30	30	90	90	145	1325	1445	121	100	65	50	1100	130	840	-	480	530	470	343	175	643	750	100	721	44	32	48	A3B	9
065-050-260	200L	37	30	90	90	145	1325	1445	121	100	65	50	1100	130	840	-	480	530	470	343	175	643	750	100	721	44	32	48	A3B	9
080-065-145	90S	1,5	1,1	79	84	112	830	950	117,5	100	80	65	620	80	460	-	370	420	341	254	145	409	459	70	387	23	24	24	A1	1
080-065-145	90L	2,2	1,5	79	84	112	830	950	117,5	100	80	65	620	80	460	-	370	420	341	254	145	409	459	70	387	23	24	19	A1	1
080-065-145	100L	3	2,2	79	84	112	873	993	117,5	100	80	65	650	80	490	-	370	420	341	254	145	419	490	70	430	23	24	28	A1	2
080-065-145	100L	3	3	79	84	112	873	993	117,5	100	80	65	650	80	490	-	370	420	341	254	145	419	490	70	430	23	24	28	A1	2
080-065-145	112M	4	4	79	84	112	857	977	117,5	100	80	65	650	80	490	-	370	420	341	254	145	438	488	70	414	23	24	28	A1	2
080-065-145	132S	5,5	5,5	79	84	112	908	1028	99	100	80	65	800	100	600	-	370	420	341	269	145	481	515	80	465	23	24	28	A1	3
080-065-145	132S	7,5	5,5	79	84	112	908	1028	99	100	80	65	800	100	600	-	370	420	341	269	145	481	515	80	465	23	24	28	A1	3
080-065-145	160M	11	11	79	84	112	1057	1177	100	100	80	65	900	120	660	-	400	450	341	269	145	524	604	80	604	33	24	42	A2	4
080-065-145	160M	15	11	79	84	112	1057	1177	100	100	80	65	900	120	660	-	400	450	341	269	145	524	604	80	604	33	24	42	A2	4
080-065-175	90S	1,5	1,1	80	85	120	830	950	117,5	125	80	65	620	80	460	-	370	420	340	254	150	409	459	70	387	23	24	24	A1	1
080-065-175	90L	2,2	1,5	80	85	120	830	950	117,5	125	80	65	620	80	460	-	370	420	340	254	150	409	459	70	387	23	24	24	A1	1
080-065-175	100L	3	2,2	80	85	120	873	993	117,5	125	80	65	650	80	490	-	370	420	340	254	150	419	469	70	430	23	24	28	A1	2
080-065-175	100L	3	3	80	85	120	873	993	117,5	125	80	65	650	80	490	-	370	420	340	254	150	419	469	70	430	23	24	28	A1	2
080-065-175	100L	3	2,2	80	85	120	873	993	117,5	125	80	65	650	80	490	-	370	420	340	254	150	419	490	70	430	23	24	28	A1	2
080-065-175	100L	3	3	80	85	120	873	993	117,5	125	80	65	650	80	490	-	370	420	340	254	150	419	490	70	430	23	24	28	A1	2
080-065-175	112M	4	4	80	85	120	857	977	117,5	125	80	65	650	80	490	-	370	420	340	254	150	438	488	70	414	23	24	28	A1	2
080-065-175	132S	5,5	5,5	80	85	120	908	1028	99	125	80	65	800	100	600	-	370	420	340	269	150	481	515	80	465	23	24	38	A1	3
080-065-175	132S	7,5	5,5	80	85	120	908	1028	99	125	80	65	800	100	600	-	370	420	340	269	150	481	515	80	465	23	24	38	A1	3
080-065-175	160M	11	11	80	85	120	1057	1177	100	125	80	65	900	120	660	-	400	450	340	269	150	524	604	80	604	33	24	38	A2	4
080-065-175	160M	15	11	80	85	120	1057	1177	100	125	80	65	900	120	660	-	400	450	340	269	150	524	604	80	604	33	24	38	A2	4
080-065-175	160L	18,5	15	80	85	120	1117	1237	100	125	80	65	900	120	660	-	400	450	340	269	150	524	604	80	664	33	24	38	A2	4
080-065-175	180M	22	18,5	80	85	120	1162	1282	99	125	80	65	950	120	710	-	450	500	340	289	150	563	643	80	698	44	24	48	A3B	5
080-065-175	200L	30	30	80	85	120	1185	1305	99	125	80	65	1000	120	760	-	480	530	340	289	150	589	669	80	721	44	24	55	A3B	6
080-065-175	200L	37	30	80	85	120	1185	1305	99	125	80	65	1000	120	760	-	480	530	340	289	150	589	669	80	721	44	24	55	A3B	6
080-065-210	100L	3	2,2	90	-	135	1017	1137	120,5	-	80	65	800	100	600	-	420	470	474	323	165	488	538	80	430	23	32	28	A1	6
080-065-210	100L	3	3	90	-	135	1017	1137	120,5	-	80	65	800	100	600	-	420	470	474	323	165	488	538	80	430	23	32	28	A1	6
080-065-210	112M	4	4	90	-	135	1001	1121	120,5	-	80	65	800	100	600	-	420	470	474	323	165	507	557	80	414	23	32	28	A1	6
080-065-210	132S	5,5	5,5	90	-	135	1052	1172	120,5	-	80	65	900	120	660	-	420	470	474	323	165	535	585	80	465	23	32	38	A1	4
080-065-210	132S	7,5	5,5	90	-	135	1052	1172	120,5	-	80	65	900	120	660	-	420	470	474	323	165	535	585	80	465	23	32	38	A1	4
080-065-210	160M	11	11	90	-	135	1201	1321	120,5	-	80	65	1025	120	785	-	420	470	474	323	165	578	658	80	604	33	32	42	A2	7
080-065-210	160M	15	11	90	-	135	1201	1321	120,5	-	80	65	1025	120	785	-	420	470	474	323	165	578	658	80	604	33	32	42	A2	7

Size	Motor	p ⁷⁾		A	A ⁸⁾	A ₁	C	C ₁	D	DN ₁	DN ₁ ⁸⁾	DN ₂	E	E ₁	E ₂	E ₃	E ₄	E ₅	F	H ₁	H ₂	H ₃	H ₄	H ₅	M	X	ØSHF	ØSHG	Coupling type	Baseplate size
		2 poles	4 poles																											
		[mm]																												
080-065-210	160L	18,5	15	90	-	135	1261	1381	120,5	-	80	65	1025	120	785	-	420	470	474	323	165	578	658	80	664	33	32	42	A2	7
080-065-210	180M	22	18,5	90	-	135	1306	1426	121	-	80	65	1100	130	840	-	450	500	474	343	165	617	697	100	698	44	32	48	A3B	8
080-065-210	200L	30	30	90	-	135	1329	1449	124	-	80	65	1100	130	840	-	480	530	474	343	165	643	750	100	721	44	32	55	A3B	9
080-065-210	200L	37	30	90	-	135	1329	1449	124	-	80	65	1100	130	840	-	480	530	474	343	165	643	750	100	721	44	32	55	A3B	9
080-065-260	100L	3	2,2	100	108	155	1026	1146	129,5	125	80	65	800	100	600	-	420	470	473	323	205	488	538	80	430	23	32	28	A1	6
080-065-260	100L	3	3	100	108	155	1026	1146	129,5	125	80	65	800	100	600	-	420	470	473	323	205	488	538	80	430	23	32	28	A1	6
080-065-260	112M	4	4	100	108	155	1010	1130	129,5	125	80	65	800	100	600	-	420	470	473	323	205	507	557	80	414	23	32	28	A1	6
080-065-260	132S	5,5	5,5	100	108	155	1111	1231	129,5	125	80	65	900	120	660	-	420	470	473	323	205	535	585	80	515	23	32	38	A1	7
080-065-260	132S	7,5	5,5	100	108	155	1111	1231	129,5	125	80	65	900	120	660	-	420	470	473	323	205	535	585	80	515	23	32	38	A1	7
080-065-260	132M	-	7,5	100	108	155	1111	1231	129,5	125	80	65	900	120	660	-	420	470	473	323	205	535	585	80	515	23	32	38	A1	7
080-065-260	160M	11	11	100	108	155	1210	1330	129,5	125	80	65	1025	120	785	-	420	470	473	323	205	578	658	80	604	33	32	42	A2	7
080-065-260	160M	15	11	100	108	155	1210	1330	129,5	125	80	65	1025	120	785	-	420	470	473	323	205	578	658	80	604	33	32	42	A2	7
080-065-260	160L	18,5	15	100	108	155	1270	1390	129,5	125	80	65	1025	120	785	-	420	470	473	323	205	578	658	80	664	33	32	42	A2	7
080-065-260	180M	22	18,5	100	108	155	1315	1435	130	125	80	65	1100	130	840	-	450	500	473	343	205	617	697	100	698	44	32	48	A3B	8
080-065-260	200L	30	30	100	108	155	1338	1458	133	125	80	65	1100	130	840	-	480	530	473	343	205	643	750	100	721	44	32	55	A3B	9
080-065-260	200L	37	30	100	108	155	1338	1458	133	125	80	65	1100	130	840	-	480	530	473	343	205	643	750	100	721	44	32	55	A3B	9
080-065-260	225M	45	45	100	108	155	1435	1585	131	125	80	65	1150	150	850	-	520	570	473	343	205	716	850	100	818	44	32	55	A3B	10
080-065-260	250M	55	55	100	108	155	1514	1664	101,5	125	80	65	1275	200	875	-	590	640	473	369	205	742	842	100	887	54	32	60	A4	11
100-080-175	100L	3	2,2	100	-	139	1031	1151	137,5	-	100	80	800	100	600	-	420	470	478	315	164	480	530	80	430	23	32	28	A1	6
100-080-175	100L	3	3	100	-	139	1031	1151	137,5	-	100	80	800	100	600	-	420	470	478	315	164	480	530	80	430	23	32	28	A1	6
100-080-175	112M	4	4	100	-	139	1015	1135	137,5	-	100	80	800	100	600	-	420	470	478	315	164	499	549	80	414	23	32	28	A1	6
100-080-175	132S	5,5	5,5	100	-	139	1116	1236	137,5	-	100	80	900	120	660	-	420	470	478	315	164	527	577	80	515	23	32	38	A1	7
100-080-175	132S	7,5	5,5	100	-	139	1116	1236	137,5	-	100	80	900	120	660	-	420	470	478	315	164	527	577	80	515	23	32	38	A1	7
100-080-175	132M	-	7,5	100	-	139	1116	1236	137,5	-	100	80	900	120	660	-	420	470	478	315	164	527	577	80	515	23	32	38	A1	7
100-080-175	160M	11	11	100	-	139	1215	1335	137,5	-	100	80	1025	120	785	-	420	470	478	315	164	570	650	80	604	33	32	38	A2	7
100-080-175	160M	15	11	100	-	139	1215	1335	137,5	-	100	80	1025	120	785	-	420	470	478	315	164	570	650	80	604	33	32	38	A2	7
100-080-175	160L	18,5	15	100	-	139	1275	1395	137,5	-	100	80	1025	120	785	-	420	470	478	315	164	570	650	80	664	33	32	38	A2	7
100-080-175	180M	22	18,5	100	-	139	1320	1440	138	-	100	80	1100	130	840	-	450	500	478	335	164	609	689	100	698	44	32	48	A3B	8
100-080-175	200L	30	30	100	-	139	1343	1463	141	-	100	80	1100	130	840	-	480	530	478	335	164	635	750	100	721	44	32	48	A3B	9
100-080-175	200L	37	30	100	-	139	1343	1463	141	-	100	80	1100	130	840	-	480	530	478	335	164	635	750	100	721	44	32	48	A3B	9
100-080-210	100L	3	2,2	100	128,5	145	1029	1149	132,5	150	100	80	800	100	600	-	420	470	476	323	164	488	538	80	430	23	32	28	A1	6
100-080-210	100L	3	3	100	128,5	145	1029	1149	132,5	150	100	80	800	100	600	-	420	470	476	323	164	488	538	80	430	23	32	28	A1	6
100-080-210	112M	4	4	100	128,5	145	1013	1133	132,5	150	100	80	800	100	600	-	420	470	476	323	164	507	557	80	414	23	32	28	A1	6
100-080-210	132S	5,5	5,5	100	128,5	145	1114	1234	132,5	150	100	80	900	120	660	-	420	470	476	323	164	535	585	80	515	23	32	38	A1	7
100-080-210	132S	7,5	5,5	100	128,5	145	1114	1234	132,5	150	100	80	900	120	660	-	420	470	476	323	164	535	585	80	515	23	32	38	A1	7
100-080-210	132M	-	7,5	100	128,5	145	1114	1234	132,5	150	100	80	900	120	660	-	420	470	476	323	164	535	585	80	515	23	32	38	A1	7

Size	Motor	p ⁷⁾		A	A ⁸⁾	A ₁	C	C ₁	D	DN ₁	DN ₁ ⁸⁾	DN ₂	E	E ₁	E ₂	E ₃	E ₄	E ₅	F	H ₁	H ₂	H ₃	H ₄	H ₅	M	X	ØSHF	ØSHG	Coupling type	Baseplate size
		2 poles	4 poles																											
		[mm]																												
100-080-210	160M	11	11	100	128,5	145	1213	1333	132,5	150	100	80	1025	120	785	-	420	470	476	323	164	578	658	80	604	33	32	42	A2	7
100-080-210	160M	15	11	100	128,5	145	1213	1333	132,5	150	100	80	1025	120	785	-	420	470	476	323	164	578	658	80	604	33	32	42	A2	7
100-080-210	160L	18,5	15	100	128,5	145	1273	1393	132,5	150	100	80	1025	120	785	-	420	470	476	323	164	578	658	80	664	33	32	42	A2	7
100-080-210	180M	22	18,5	100	128,5	145	1318	1438	133	150	100	80	1100	130	840	-	450	500	476	343	164	617	697	100	698	44	32	48	A3B	8
100-080-210	200L	30	30	100	128,5	145	1341	1461	136	150	100	80	1100	130	840	-	480	530	476	343	164	643	750	100	721	44	32	55	A3B	9
100-080-210	200L	37	30	100	128,5	145	1341	1461	136	150	100	80	1100	130	840	-	480	530	476	343	164	643	750	100	721	44	32	55	A3B	9
100-080-210	225M	45	45	100	128,5	145	1438	1588	134	150	100	80	1150	150	850	-	520	570	476	343	164	716	850	100	818	44	32	55	A3B	10
100-080-210	250M	55	55	100	128,5	145	1517	1667	104,5	150	100	80	1275	200	875	-	590	640	476	369	164	742	842	100	887	54	32	60	A4	11
100-080-210	280S	75	75	100	128,5	145	1590	1740	104,5	150	100	80	1400	150	1100	550	650	700	476	399	164	867	967	100	960	54	32	65	A4	12
100-080-260	112M	4	4	100	135	165	1013	1133	132,5	150	100	80	800	100	600	-	420	470	476	323	209	507	557	80	414	23	32	28	A1	6
100-080-260	132S	5,5	5,5	100	135	165	1114	1234	132,5	150	100	80	900	120	660	-	420	470	476	323	209	535	585	80	515	23	32	38	A1	7
100-080-260	132S	7,5	5,5	100	135	165	1114	1234	132,5	150	100	80	900	120	660	-	420	470	476	323	209	535	585	80	515	23	32	38	A1	7
100-080-260	132M	-	7,5	100	135	165	1114	1234	132,5	150	100	80	900	120	660	-	420	470	476	323	209	535	585	80	515	23	32	38	A1	7
100-080-260	160M	11	11	100	135	165	1213	1333	132,5	150	100	80	1025	120	785	-	420	470	476	323	209	578	658	80	604	33	32	42	A2	8
100-080-260	160M	15	11	100	135	165	1213	1333	132,5	150	100	80	1025	120	785	-	420	470	476	323	209	578	658	80	604	33	32	42	A2	8
100-080-260	160L	18,5	15	100	135	165	1273	1393	132,5	150	100	80	1025	120	785	-	420	470	476	323	209	578	658	80	664	33	32	42	A2	8
100-080-260	180M	22	18,5	100	135	165	1318	1438	133	150	100	80	1100	130	840	-	450	500	476	343	209	617	697	100	698	44	32	48	A3B	8
100-080-260	200L	30	30	100	135	165	1341	1461	136	150	100	80	1100	130	840	-	480	530	476	343	209	643	750	100	721	44	32	55	A3B	9
100-080-260	200L	37	30	100	135	165	1341	1461	136	150	100	80	1100	130	840	-	480	530	476	343	209	643	750	100	721	44	32	55	A3B	9
100-080-260	225M	45	45	100	135	165	1438	1588	134	150	100	80	1150	150	850	-	520	570	476	343	209	716	850	100	818	44	32	55	A3B	10
100-080-260	250M	55	55	100	135	165	1517	1667	104,5	150	100	80	1275	200	875	-	590	640	476	369	209	742	842	100	887	54	32	60	A4	11
100-080-260	280S	75	75	100	135	165	1590	1740	104,5	150	100	80	1400	150	1100	550	650	700	476	399	209	867	967	100	960	54	32	65	A4	12
100-080-260	280M	90	90	100	135	165	1700	1850	104,5	150	100	80	1400	150	1100	550	650	700	476	399	209	867	967	100	1070	54	32	65	A4	12
100-080-310	132M	-	7,5	100	-	200	1116	1236	133,5	-	100	80	900	120	660	-	420	470	478	336	250	548	598	80	515	23	32	38	A1	7
100-080-310	160M	11	11	100	-	200	1215	1335	133,5	-	100	80	1025	120	785	-	420	470	478	336	250	591	671	80	604	33	32	42	A2	8
100-080-310	160M	15	11	100	-	200	1215	1335	133,5	-	100	80	1025	120	785	-	420	470	478	336	250	591	671	80	604	33	32	42	A2	8
100-080-310	160L	18,5	15	100	-	200	1275	1395	133,5	-	100	80	1025	120	785	-	420	470	478	336	250	591	671	80	664	33	32	42	A2	8
100-080-310	180M	22	18,5	100	-	200	1290	1410	134	-	100	80	1100	130	840	-	450	500	478	356	250	630	710	100	668	44	32	48	A3B	9
100-080-310	180L	-	22	100	-	200	1320	1440	134	-	100	80	1100	130	840	-	450	500	478	356	250	630	710	100	698	44	32	48	A3B	9
100-080-310	200L	30	30	100	-	200	1368	1488	137	-	100	80	1100	130	840	-	480	530	478	356	250	656	750	100	746	44	32	55	A3B	10
100-080-310	200L	37	30	100	-	200	1368	1488	137	-	100	80	1100	130	840	-	480	530	478	356	250	656	750	100	746	44	32	55	A3B	10
100-080-310	225S	-	37	100	-	200	1420	1570	135	-	100	80	1200	150	900	-	520	570	478	356	250	729	750	100	788	54	32	60	A4	11
125-100-210	112M	4	4	111	-	161	1031	1151	151,5	-	125	100	800	100	600	-	420	470	483	323	214	507	557	80	414	23	32	28	A1	6
125-100-210	132S	5,5	5,5	111	-	161	1132	1252	151,5	-	125	100	900	120	660	-	420	470	483	323	214	535	585	80	515	23	32	38	A1	7
125-100-210	132S	7,5	5,5	111	-	161	1132	1252	151,5	-	125	100	900	120	660	-	420	470	483	323	214	535	585	80	515	23	32	38	A1	7
125-100-210	132M	-	7,5	111	-	161	1132	1252	151,5	-	125	100	900	120	660	-	420	470	483	323	214	535	585	80	515	23	32	38	A1	7

Size	Motor	p ⁷⁾		A	A ⁸⁾	A ₁	C	C ₁	D	DN ₁	DN ₁ ⁸⁾	DN ₂	E	E ₁	E ₂	E ₃	E ₄	E ₅	F	H ₁	H ₂	H ₃	H ₄	H ₅	M	X	ØSHF	ØSHG	Coupling type	Baseplate size
		2 poles	4 poles																											
		[mm]																												
125-100-210	160L	18,5	15	111	-	161	1291	1411	151,5	-	125	100	1025	120	785	-	420	470	483	343	214	598	678	80	664	33	32	42	A2	7
125-100-210	180M	22	18,5	111	-	161	1336	1456	152	-	125	100	1100	130	840	-	450	500	483	343	214	617	697	100	698	44	32	48	A3B	8
125-100-210	200L	30	30	111	-	161	1359	1479	155	-	125	100	1100	130	840	-	480	530	483	343	214	643	750	100	721	44	32	55	A3B	9
125-100-210	200L	37	30	111	-	161	1359	1479	155	-	125	100	1100	130	840	-	480	530	483	343	214	643	750	100	721	44	32	55	A3B	9
125-100-210	225M	45	45	111	-	161	1456	1606	153	-	125	100	1150	150	850	-	520	570	483	343	214	716	850	100	818	44	32	55	A3B	10
125-100-210	250M	55	55	111	-	161	1535	1685	123,5	-	125	100	1275	200	875	-	590	640	483	369	214	742	842	100	887	54	32	60	A4	11
125-100-210	280S	75	75	111	-	161	1608	1758	123,5	-	125	100	1400	150	1100	550	650	700	483	399	214	867	967	100	960	54	32	65	A4	12
125-100-210	280M	90	90	111	-	161	1718	1868	123,5	-	125	100	1400	150	1100	550	650	700	483	399	214	867	967	100	1070	54	32	65	A4	12
125-100-260	132S	5,5	5,5	115	168,5	186	1131	1251	149,5	200 ⁹⁾	125	100	900	120	660	-	420	470	478	323	216	535	585	80	515	23	32	38	A1	7
125-100-260	132S	7,5	5,5	115	168,5	186	1131	1251	149,5	200 ⁹⁾	125	100	900	120	660	-	420	470	478	323	216	535	585	80	515	23	32	38	A1	7
125-100-260	132M	-	7,5	115	168,5	186	1131	1251	149,5	200 ⁹⁾	125	100	900	120	660	-	420	470	478	323	216	535	585	80	515	23	32	38	A1	7
125-100-260	160M	11	11	115	168,5	186	1230	1350	149,5	200 ⁹⁾	125	100	1025	120	785	-	420	470	478	323	216	578	658	80	604	33	32	42	A2	8
125-100-260	160M	15	11	115	168,5	186	1230	1350	149,5	200 ⁹⁾	125	100	1025	120	785	-	420	470	478	323	216	578	658	80	604	33	32	42	A2	8
125-100-260	160L	18,5	15	115	168,5	186	1290	1410	149,5	200 ⁹⁾	125	100	1025	120	785	-	420	470	478	323	216	578	658	80	664	33	32	42	A2	8
125-100-260	180M	22	18,5	115	168,5	186	1305	1425	150	200 ⁹⁾	125	100	1100	130	840	-	450	500	478	343	216	617	697	100	668	44	32	48	A3B	9
125-100-260	180L	-	22	115	168,5	186	1335	1455	150	200 ⁹⁾	125	100	1100	130	840	-	450	500	478	343	216	617	697	100	698	44	32	48	A3B	9
125-100-260	200L	30	30	115	168,5	186	1358	1478	153	200 ⁹⁾	125	100	1100	130	840	-	480	530	478	343	216	643	750	100	721	44	32	55	A3B	9
125-100-260	200L	37	30	115	168,5	186	1358	1478	153	200 ⁹⁾	125	100	1100	130	840	-	480	530	478	343	216	643	750	100	721	44	32	55	A3B	9
125-100-260	225M	45	45	115	168,5	186	1455	1605	151	200 ⁹⁾	125	100	1150	150	850	-	520	570	478	343	216	716	850	100	818	44	32	55	A3B	10
125-100-260	250M	55	55	115	168,5	186	1534	1684	121,5	200 ⁹⁾	125	100	1275	200	875	-	590	640	478	369	216	742	842	100	887	54	32	60	A4	11
125-100-260	280S	75	75	115	168,5	186	1607	1757	121,5	200 ⁹⁾	125	100	1400	150	1100	550	650	700	478	399	216	867	967	100	960	54	32	65	A4	12
125-100-260	280M	90	90	115	168,5	186	1717	1867	121,5	200 ⁹⁾	125	100	1400	150	1100	550	650	700	478	399	216	867	967	100	1070	54	32	65	A4	12
125-100-310	160M	11	11	115	166	215	1234	1354	152,5	200 ⁹⁾	125	100	1025	120	785	-	420	470	482	336	250	591	671	80	604	33	32	42	A2	8
125-100-310	160M	15	11	115	166	215	1234	1354	152,5	200 ⁹⁾	125	100	1025	120	785	-	420	470	482	336	250	591	671	80	604	33	32	42	A2	8
125-100-310	160L	18,5	15	115	166	215	1294	1414	152,5	200 ⁹⁾	125	100	1025	120	785	-	420	470	482	336	250	591	671	80	664	33	32	42	A2	8
125-100-310	180M	22	18,5	115	166	215	1309	1429	153	200 ⁹⁾	125	100	1100	130	840	-	450	500	482	356	250	630	710	100	668	44	32	48	A3B	9
125-100-310	180L	-	22	115	166	215	1339	1459	153	200 ⁹⁾	125	100	1100	130	840	-	450	500	482	356	250	630	710	100	698	44	32	48	A3B	9
125-100-310	200L	30	30	115	166	215	1387	1507	156	200 ⁹⁾	125	100	1100	130	840	-	480	530	482	356	250	656	750	100	746	44	32	55	A3B	10
125-100-310	200L	37	30	115	166	215	1387	1507	156	200 ⁹⁾	125	100	1100	130	840	-	480	530	482	356	250	656	750	100	746	44	32	55	A3B	10
125-100-310	225S	-	37	115	166	215	1439	1589	154	200 ⁹⁾	125	100	1200	150	900	-	520	570	482	356	250	729	750	100	788	54	32	60	A4	11
125-100-310	225M	45	45	115	166	215	1499	1649	154	200 ⁹⁾	125	100	1200	150	900	-	520	570	482	356	250	729	850	100	848	54	32	60	A4	11
150-125-260	132M	-	7,5	110	-	206	1135	1255	153,5	-	150	125	900	120	660	-	420	470	487	323	216	535	585	80	515	23	32	38	A1	7

Size	Motor	p ⁷⁾		A	A ⁸⁾	A ₁	C	C ₁	D	DN ₁	DN ₁ ⁸⁾	DN ₂	E	E ₁	E ₂	E ₃	E ₄	E ₅	F	H ₁	H ₂	H ₃	H ₄	H ₅	M	X	ØSHF	ØSHG	Coupling type	Baseplate size
		2 poles	4 poles																											
		[mm]																												
150-125-260	160M	11	11	110	-	206	1234	1354	153,5	-	150	125	1025	120	785	-	420	470	487	323	216	578	658	80	604	33	32	42	A2	8
150-125-260	160M	15	11	110	-	206	1234	1354	153,5	-	150	125	1025	120	785	-	420	470	487	323	216	578	658	80	604	33	32	42	A2	8
150-125-260	160L	18,5	15	110	-	206	1294	1414	153,5	-	150	125	1025	120	785	-	420	470	487	323	216	578	658	80	664	33	32	42	A2	8
150-125-260	180M	22	18,5	110	-	206	1309	1429	154	-	150	125	1100	130	840	-	450	500	487	343	216	617	697	100	668	44	32	48	A3B	9
150-125-260	180L	-	22	110	-	206	1339	1459	154	-	150	125	1100	130	840	-	450	500	487	343	216	617	697	100	698	44	32	48	A3B	9
150-125-260	200L	30	30	110	-	206	1387	1507	157	-	150	125	1100	130	840	-	480	530	487	343	216	643	750	100	746	44	32	55	A3B	10
150-125-260	200L	37	30	110	-	206	1387	1507	157	-	150	125	1100	130	840	-	480	530	487	343	216	643	750	100	746	44	32	55	A3B	10
150-125-260	225S	-	37	110	-	206	1439	1589	155	-	150	125	1150	150	850	-	520	570	487	343	216	716	750	100	788	54	32	60	A4	11
150-125-350	160L	18,5	15	122	-	232	1405	1525	6,5	-	150 ⁹⁾	125 ⁹⁾	1300	150	1000	-	600	650	586	398	300	653	796	100	664	33	48	42	A3B	12
150-125-350	180M	22	18,5	122	-	232	1420	1540	6,5	-	150 ⁹⁾	125 ⁹⁾	1400	150	1100	-	600	650	586	398	300	672	733	100	668	44	48	48	A3B	13
150-125-350	180L	-	22	122	-	232	1450	1570	6,5	-	150 ⁹⁾	125 ⁹⁾	1400	150	1100	-	600	650	586	398	300	672	752	100	698	44	48	48	A3B	13
150-125-350	200L	30	30	122	-	232	1498	1618	9,5	-	150 ⁹⁾	125 ⁹⁾	1400	150	1100	-	600	650	586	398	300	698	752	100	746	44	48	55	A3B	13
150-125-350	200L	37	30	122	-	232	1498	1618	9,5	-	150 ⁹⁾	125 ⁹⁾	1400	150	1100	-	600	650	586	398	300	698	752	100	746	44	48	55	A3B	13
150-125-350	225S	-	37	122	-	232	1550	1700	5,5	-	150 ⁹⁾	125 ⁹⁾	1450	150	1150	-	600	650	586	398	300	771	871	100	788	54	48	60	A4	14
150-125-350	225M	45	45	122	-	232	1610	1760	5,5	-	150 ⁹⁾	125 ⁹⁾	1450	150	1150	-	600	650	586	398	300	771	871	100	848	54	48	60	A4	14
200-150-350	180M	22	18,5	122	-	258	1414	1534	2	-	200 ⁹⁾	150 ⁹⁾	1400	150	1100	-	650	700	580	448	300	722	851	100	668	44	48	48	A3B	15
200-150-350	180L	-	22	122	-	258	1444	1564	2	-	200 ⁹⁾	150 ⁹⁾	1400	150	1100	-	650	700	580	448	300	722	802	100	698	44	48	48	A3B	15
200-150-350	200L	30	30	122	-	258	1492	1612	2	-	200 ⁹⁾	150 ⁹⁾	1400	150	1100	-	650	700	580	448	300	748	802	100	746	44	48	55	A3B	15
200-150-350	200L	37	30	122	-	258	1492	1612	2	-	200 ⁹⁾	150 ⁹⁾	1400	150	1100	-	650	700	580	448	300	748	802	100	746	44	48	55	A3B	15
200-150-350	225S	-	37	122	-	258	1544	1694	1	-	200 ⁹⁾	150 ⁹⁾	1460	150	1160	-	650	700	580	448	300	821	921	100	788	54	48	60	A3B	16
200-150-350	225M	45	45	122	-	258	1604	1754	1	-	200 ⁹⁾	150 ⁹⁾	1460	150	1160	-	650	700	580	448	300	821	921	100	848	54	48	60	A3B	16
200-150-350	250M	55	55	122	-	258	1643	1793	1	-	200 ⁹⁾	150 ⁹⁾	1520	185	1150	575	650	700	580	448	300	821	921	100	887	54	48	65	A3B	17
200-150-350	280S	75	75	122	-	258	1720	1870	1	-	200 ⁹⁾	150 ⁹⁾	1600	185	1230	615	650	700	580	448	300	916	1016	100	960	58	48	75	A45	18
200-150-350	280M	90	90	122	-	258	1830	1980	1	-	200 ⁹⁾	150 ⁹⁾	1600	185	1230	615	650	700	580	448	300	916	1016	100	1070	58	48	75	A45	18

Accessories

- Version with inducer for pump sizes 040-032-145 to 150-125-260
- Motor shroud made of stainless steel
- Heatable casing/discharge cover
- Residual drainage of pump casing
- System for supplying the mechanical seal



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