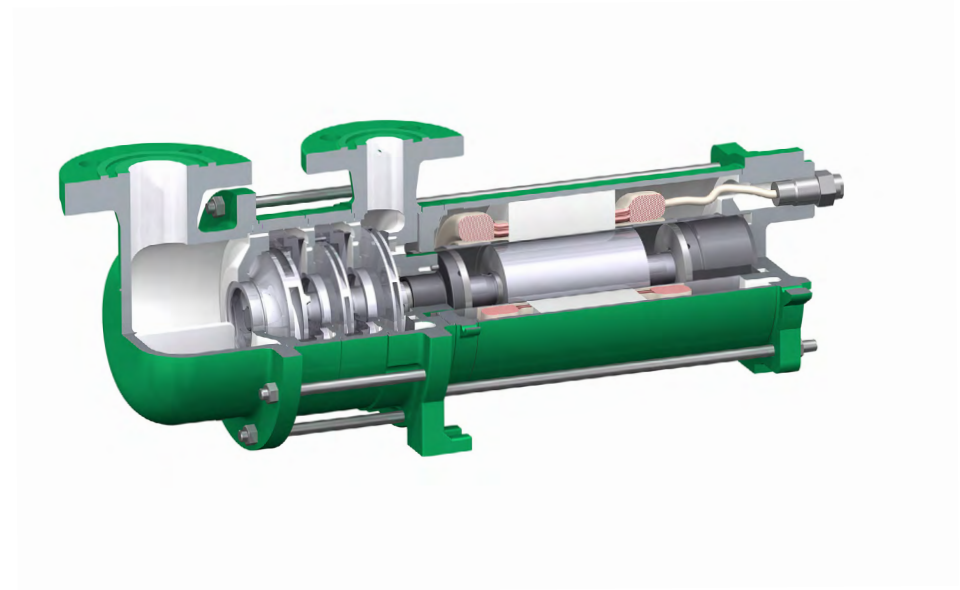
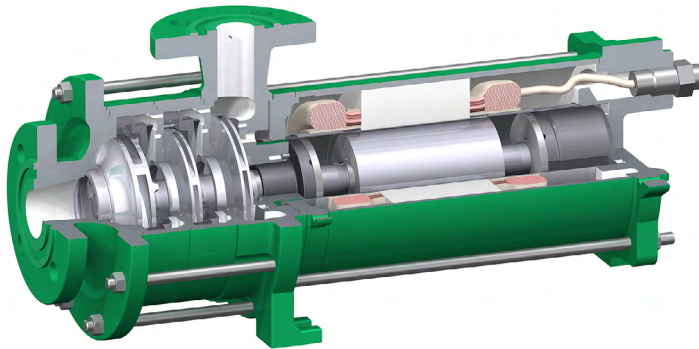


SERIES INFORMATION  
CANNED MOTOR PUMP TYPE CAM / CAMR

# REFRIGERATION ENGINEERING



**Information**

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**Operating data**

**Temperature**

Areas of application -50 °C to +30 °C

**Canned motors**

Output	up to 25.0 kW
Speed	2800 rpm or 3500 rpm (frequency control possible – with frequency converter from 1500 rpm to 3500 rpm)
Voltage	230, 400, 480, 500, 575, 690 Volt
Frequency	50 Hz or 60 Hz
Type of protection	IP 55

**Pump and hydraulics designations**

**CAM 2 / 3 AGX 3.0**

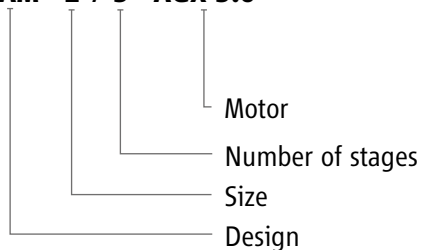


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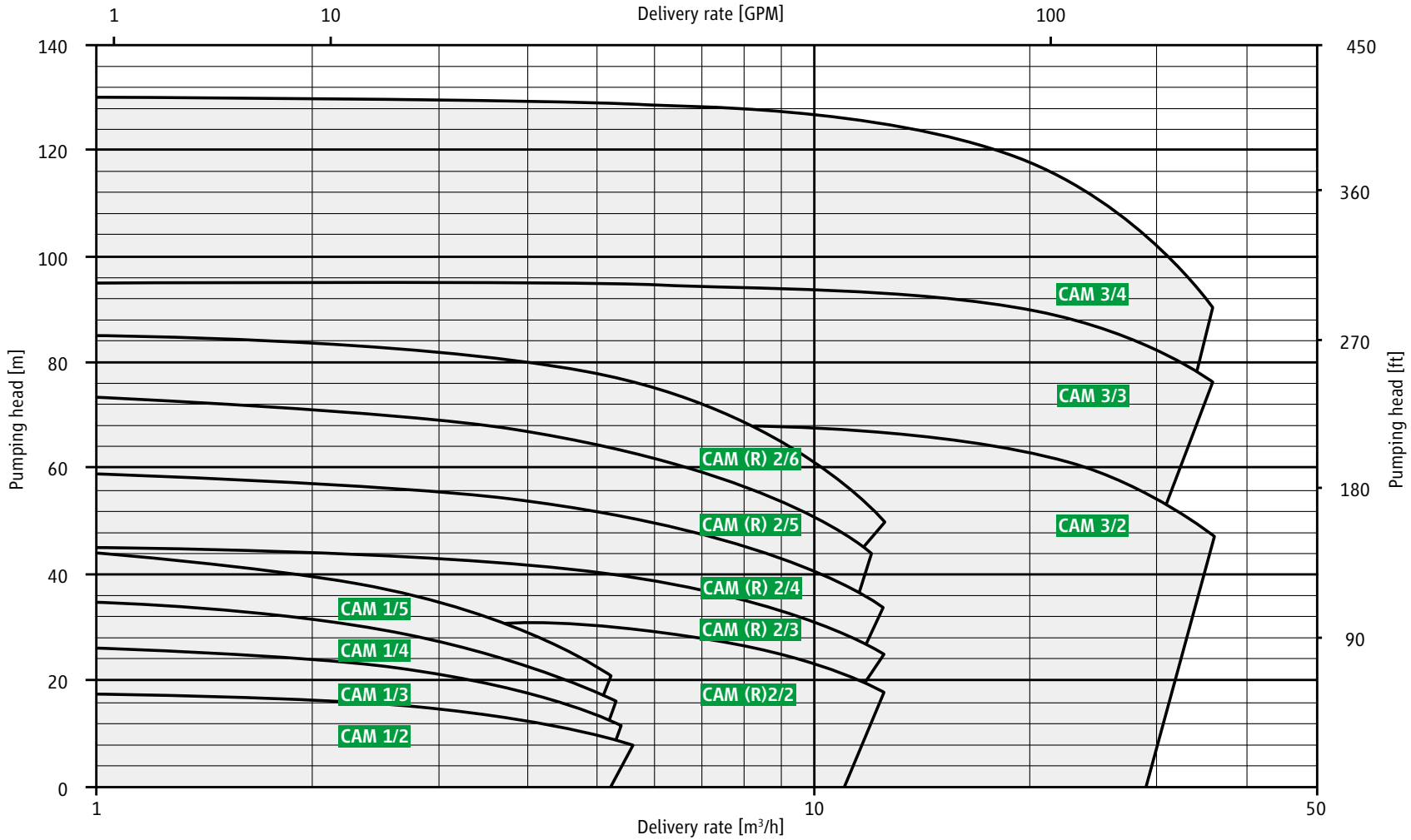
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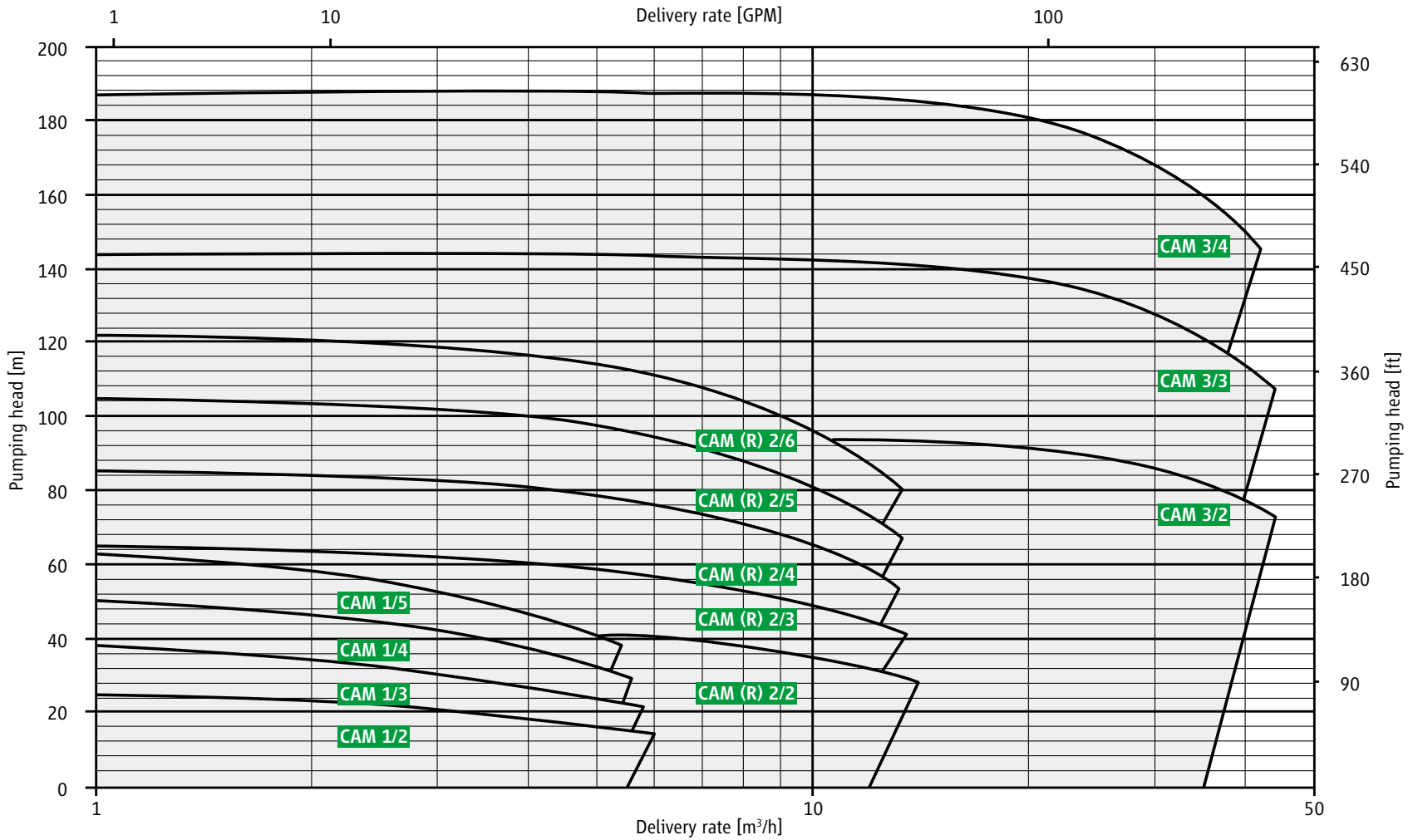
2900 rpm 50 Hz



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3500 rpm 60 Hz



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## Versions CAM / CAMR

Type	Motor	Pump data		Motor data 50 Hz / 60 Hz		Weight kg	PN
		Q <sub>min</sub> m <sup>3</sup> /h	Q <sub>max</sub> m <sup>3</sup> /h	Output kW [P2]	Rated current at 400 V / 480 V		
CAM 1/2	AGX 1.0	0.5	5.0	1.0 / 1.2	2.7	27.0	40
CAM 1/3	AGX 1.0	0.5	5.0	1.0 / 1.2	2.7	28.0	40
CAM 1/4	AGX 1.0	0.5	5.0	1.0 / 1.2	2.7	29.0	40
CAM 1/5	AGX 1.0	0.5	5.0	1.0 / 1.2	2.7	30.0	40
CAM (R) 2/2	AGX 3.0	1.0	13.0	3.0 / 3.4	7.1	48.0	40
CAM (R) 2/2	AGX 4.5	1.0	14.0	4.5 / 5.6	10.4	56.0	40
CAM (R) 2/3	AGX 3.0	1.0	13.0	3.0 / 3.4	7.1	52.0	40
CAM (R) 2/3	AGX 4.5	1.0	14.0	4.5 / 5.6	10.4	60.0	40
CAM (R) 2/3	AGX 6.5	1.0	14.0	6.5 / 7.5	15.2	63.0	40
CAM (R) 2/4	AGX 3.0	1.0	14.0	3.0 / 3.4	7.1	56.0	40
CAM (R) 2/4	AGX 4.5	1.0	14.0	4.5 / 5.6	10.4	68.0	40
CAM (R) 2/4	AGX 6.5	1.0	14.0	6.5 / 7.5	15.2	71.0	40
CAM (R) 2/5	AGX 3.0	1.0	14.0	3.0 / 3.4	7.1	60.0	40
<b>CAM (R) 2/5</b>	<b>AGX 4.5</b>	<b>1.0</b>	<b>14.0</b>	<b>4.5 / 5.6</b>	<b>10.4</b>	<b>74.0</b>	<b>40</b>
CAM (R) 2/5	AGX 6.5	1.0	14.0	6.5 / 7.5	15.2	77.0	40
CAM (R) 2/6	AGX 3.0	1.0	14.0	3.0 / 3.4	7.1	64.0	40
CAM (R) 2/6	AGX 4.5	1.0	14.0	4.5 / 5.6	10.4	78.0	40
CAM (R) 2/6	AGX 6.5	1.0	14.0	6.5 / 7.5	15.2	81.0	40
CAM 3/2	AGX 8.5	6.0	30.0	8.5 / 9.7	19.0	120.0	40
CAM 3/2	CKPx 12.0	6.0	30.0	13.5 / 15.7	31.0	150.0	25 / 40
CAM 3/3	AGX 8.5	6.0	30.0	8.5 / 9.7	19.0	138.0	40
CAM 3/3	CKPx 12.0	6.0	30.0	13.5 / 15.7	31.0	168.0	25 / 40
CAM 3/3	CKPx 19.0	6.0	30.0	22.0 / 25.0	49.5	213.0	25 / 40
CAM 3/4	CKPx 12.0	6.0	35.0	13.5 / 15.7	31.0	186.0	25 / 40
CAM 3/4	CKPx 19.0	6.0	35.0	22.0 / 25.0	49.5	231.0	25 / 40

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## Materials / pressure stages / flanges

Housing	JS 1025
Suction cover (suction housing CAMR 2)	JS 1025
Stage casing (CAM 1, CAM 2, CAMR 2)	1.0460
Stage casing (CAM 3)	JS 1025
Diffuser (guide wheel CAM 3)	JL 1030
Impellers	JL 1030
Slide bearing	1.4021 / carbon
Shaft	1.4021
Rotor lining	1.4571
Seals	AFM 34*
Pressure rating	PN 40**, PN 25 (for motors CKPx 12.0 and CKPx 19.0)
Flanges	according to DIN EN 1092-1, PN 40 and PN 25 type D

\* asbestos-free aramid fibre, \*\* test pressure 60 bar

## Noise expectancy values

Motors	AGX 1.0	AGX 3.0	AGX 4.5	AGX 6.5	AGX 8.5	CKPx 12.0	CKPx 19.0
Output power [P2 at 50 Hz]	1.0 kW	3.0 kW	4.5 kW	6.5 kW	8.5 kW	13.5 kW	22.0 kW
max. expected sound pressure level dB(A) at 50 Hz	48	52	54	56	57	59	61
Output power [P2 at 60 Hz]	1.2 kW	3.4 kW	5.6 kW	7.5 kW	9.7 kW	15.7 kW	25.0 kW
max. expected sound pressure level dB(A) at 60 Hz	48	52	55	56	57	59	61

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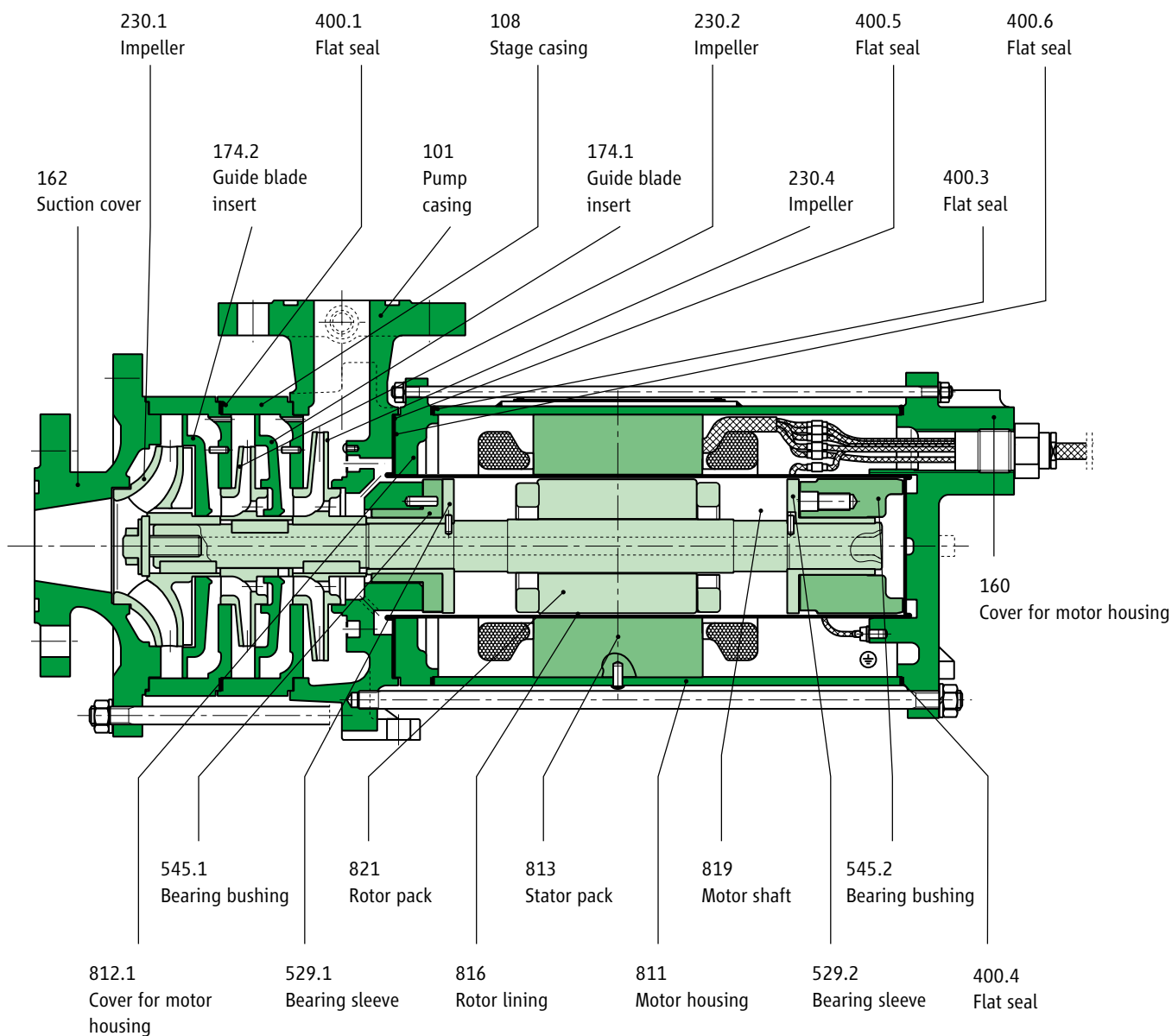
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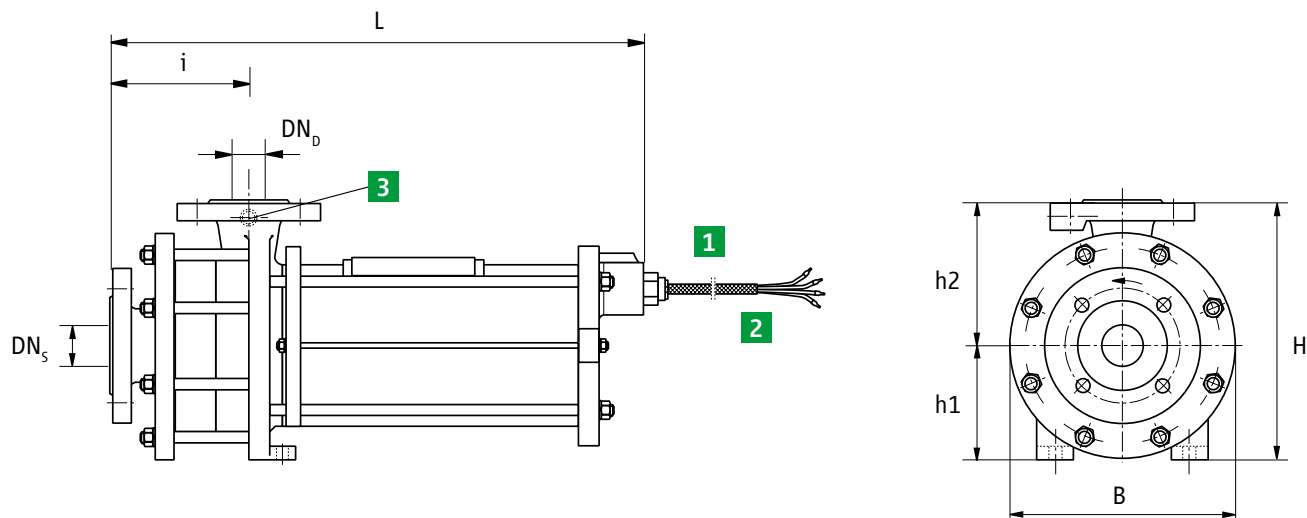


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**Dimension drawing for motors of size: AGX 1.0 / AGX 3.0 / AGX 4.5 / AGX 6.5**


- |  |  |
|--|--|
| <b>1</b> Cable U1, V1, W1 + protective conductor ⊕ | <b>2</b> Cable for PTC thermistor        |
| AGX 1.0: 4 x 1.5 mm <sup>2</sup>                   | 2 x 1.0 mm <sup>2</sup> , cable 5 + 6,   |
| AGX 3.0: 4 x 1.5 mm <sup>2</sup>                   | Cable length 2.5 m                       |
| AGX 4.5: 4 x 2.5 mm <sup>2</sup>                   | <b>3</b> Pressure gauge connection G 1/4 |
| AGX 6.5: 4 x 4 mm <sup>2</sup>                     |  |
| Cable length 2.5 m                                 |  |

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## Versions CAM 1

Dimensions	CAM 1 / 2-stage	CAM 1 / 3-stage	CAM 1 / 4-stage	CAM 1 / 5-stage
	AGX 1.0	AGX 1.0	AGX 1.0	AGX 1.0
Length / L	419	447	475	503
Width / W	160	160	160	160
Height / H	10	210	210	210
h1	90	90	90	90
h2	120	120	120	120
i	112	140	168	196
DN <sub>s</sub>	25	25	25	25
DN <sub>b</sub>	20	20	20	20

## Versions CAM 2

Dimensions	CAM 2 / 2-stage	CAM 2 / 3-stage	CAM 2 / 4-stage	CAM 2 / 5-stage	CAM 2 / 6-stage
	AGX 3.0 / 4.5	AGX 3.0 to 6.5	AGX 3.0 to 6.5	AGX 3.0 to 6.5	AGX 3.0 to 6.5
Length / L	536	577	618	659	700
Width / W	218	218	218	218	218
Height / H	250	250	250	250	250
h1	110	110	110	110	110
h2	140	140	140	140	140
i	135	176	217	258	299
DN <sub>s</sub>	40	40	40	40	40
DN <sub>b</sub>	32	32	32	32	32

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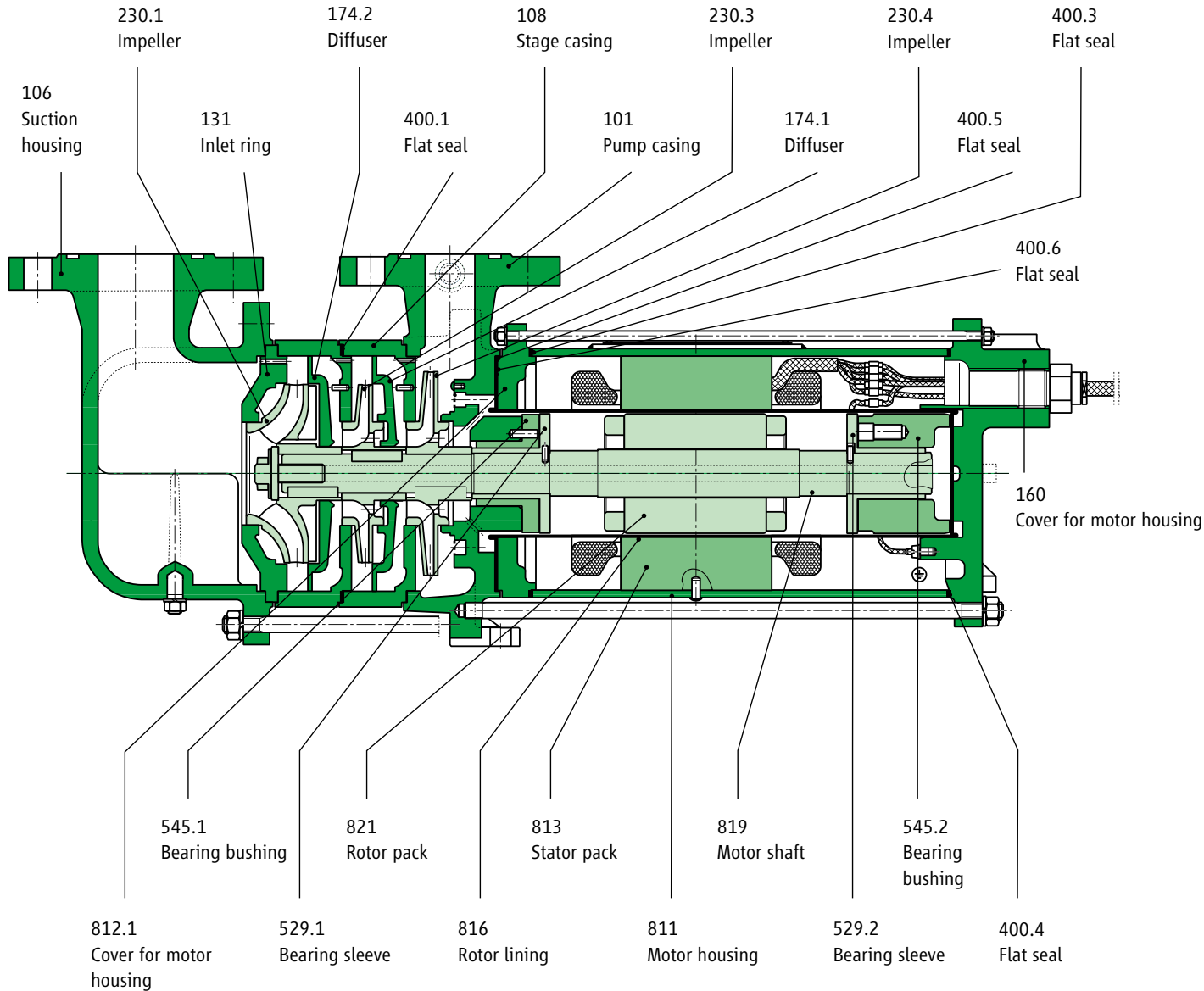
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## Dimension drawing for motors of size: AGX 3.0 / AGX 4.5 / AGX 6.5

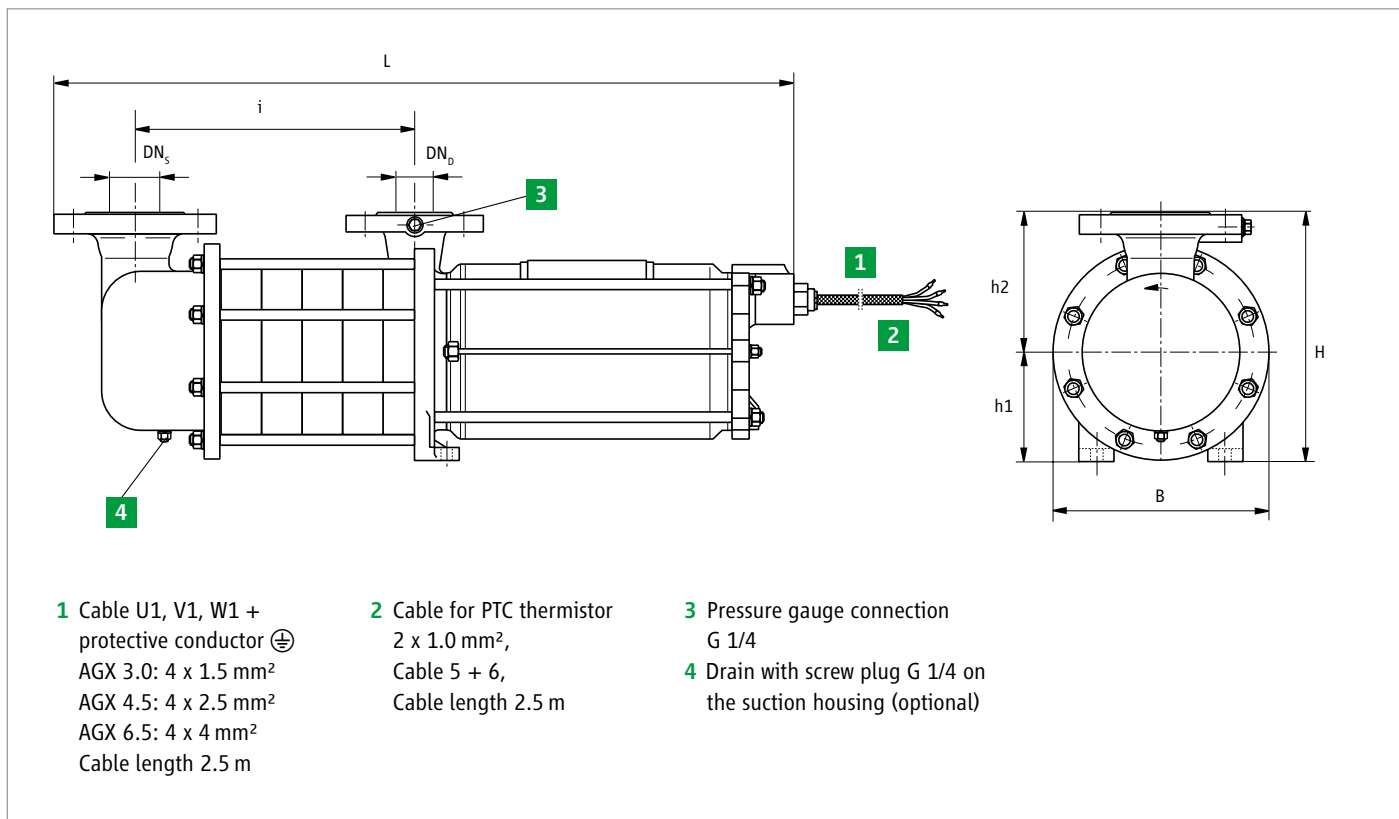


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## Versions CAMR 2

Dimensions	CAMR 2 / 2-stage	CAMR 2 / 3-stage	CAMR 2 / 4-stage	CAMR 2 / 5-stage	CAMR 2 / 6-stage
	AGX 3.0 / 4.5	AGX 3.0 to 6.5	AGX 3.0 to 6.5	AGX 3.0 to 6.5	AGX 3.0 to 6.5
Length / L	649	690	731	772	813
Width / W	218	218	218	218	218
Height / H	250	250	250	250	250
h1	110	110	110	110	110
h2	140	140	140	140	140
i	160	201	242	283	324
DN <sub>s</sub>	50	50	50	50	50
DN <sub>b</sub>	32	32	32	32	32

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