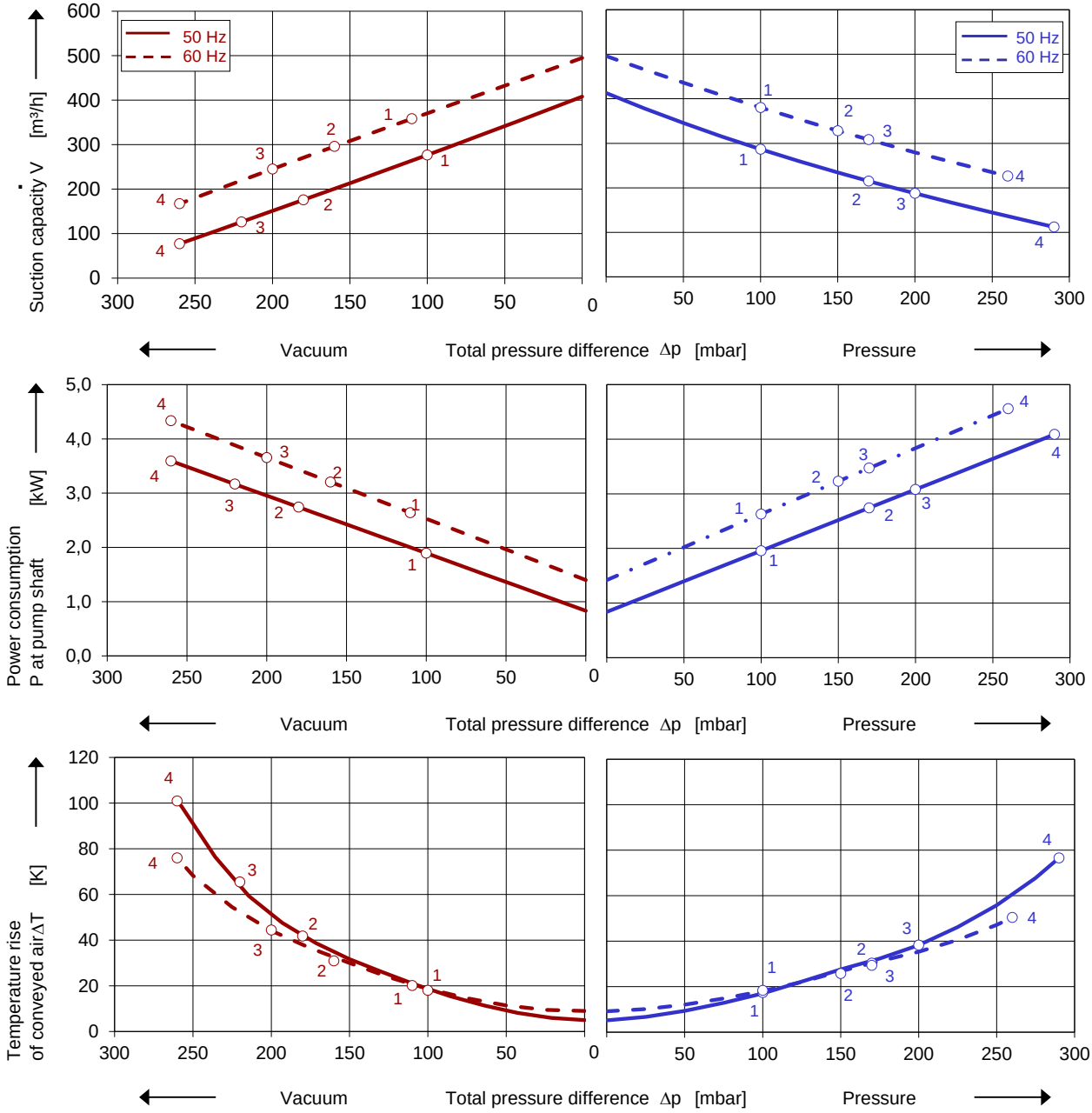
G-BH1
Data sheet 2BH1 630

Side channel blower



Performance curves

Vacuum operation | **Compressor operation**



The performance curves are based on air at a temperature of 15 °C and an atmospheric pressure of 1013 mbar with a tolerance of ± 10 %. The total pressure differences are valid for suction and ambient temperature up to 25 °C. For other conditions please get in touch with us.

Every G-BH pump can be used both as vacuum pump and compressor in continuous operation over the total performance curve range. The motors are available as standard in protection category IP 55 and insulation class F. The vacuum pumps / compressors are UL and CSA approved.

Selection and ordering data

Type 2BH1 630

No.	Fre-quency	Rated			Max. differential pressure		pressure level	Weight Approx.	**Order No.**
		Voltage	Current	Power	Vacuum	Pressure			
	Hz	V [1]	A	kW	mbar [2]		dB(A) [3]	kg	
3~ 50/60 Hz, IP55, Insulation material class F, UL 1450 and CNA/CSA 22.2 No 68-09 (certificate number E225239)									
1	50	200-240 Δ / 345-415 Y	8,5 Δ / 4,9 Y	1,6	-100	100	70	29	**2BH1630-7AH06** [4]
	60	220-275 Δ / 380-480 Y	8,8 Δ / 5,1 Y	2,05	-110	100	73		
2	50	200-240 Δ / 345-415 Y	9,7 Δ / 5,6 Y	2,2	-180	170	70	32	**2BH1630-7AH16** [4]
	60	220-275 Δ / 380-480 Y	10,3 Δ / 6,0 Y	2,55	-160	150	73		
3	50	200-240 Δ / 345-415 Y	12,5 Δ / 7,2 Y	3,0	-220	200	71	38	**2BH1630-1AH26** [4]
	60	220-275 Δ / 380-480 Y	12,6 Δ / 7,3 Y	3,45	-200	170	75		
4	50	200-240 Δ / 345-415 Y	15,6 Δ / 9,0 Y	4,0	-260	290	71	48	**2BH1630-1AH36** [4]
	60	220-275 Δ / 380-480 Y	15,6 Δ / 9,0 Y	4,6	-260	260	75		
	50	200-240 Δ / 345-415 Y	15,6 Δ / 9,0 Y	4,0	-260	290	71	48	**2BH1630-1AH36** [4]
	60	220-275 Δ / 380-480 Y	15,6 Δ / 9,0 Y	4,6	-260	260	75		
3~ 50/60 Hz, IP55, Insulation material class F, UL 1450 and CNA/CSA 22.2 No 68-09 (certificate number E225239)									
1	50	500 Y	3,2 Y	1,5	-100	100	70	29	**2BH1630-7AC03** [4]
	60	575 Y	3,2 Y	1,75	-110	100	73		
2	50	500 Y	4,5 Y	2,2	-180	170	70	32	**2BH1630-7AC13** [4]
	60	575 Y	4,55 Y	2,55	-160	150	73		
3	50	500 Y	5,7 Y	3,0	-220	200	71	38	**2BH1630-1AC23** [4]
	60	575 Y	5,8 Y	3,45	-200	170	75		
4	50	500 Y	7,5 Y	4,0	-260	290	71	48	**2BH1630-1AC33** [4]
	60	575 Y	7,6 Y	4,6	-260	260	75		



2BH9 2300-**1**AAPxx-AA

Discharge right (standard)



2BH9 2300-**5**AAPxx-AA

Discharge left (optional)

1) In case of frequency converter operation the standard motor insulation system is suitable for converter input voltages up to 460 V.

2) Relief valves available for limiting differential pressure.

3) Measuring surface sound pressure level acc. to EN ISO 3744, measured with an equivalent unit at a distance of 1 m. The pump is throttled to an average suction pressure, with piping connected, but no relief valves fitted, tolerance ±3 dB (A).

4) Order number for suction port at the blower cover: 2BH1630-1E □□□

All G-BH match the 2006/42/EC (machinery) and 2014/35/EU (low voltage) directives and the EN 60034 norm “Rotating electrical machines”.

The motors comply with EN 60 034 (IEC 60034) and thermal class F.
For three phase motors tolerances are +/-10% for fixed voltage motors and +/-5% for voltage range motors. Single phase machines are designed with a +/- 5% tolerance.
The frequency tolerance is +/- 2 % maximum.

Motor for alternate voltages [V]

Voltage range		Fixed voltage		VFD	cULus		
50 Hz	**60 Hz**	**50 Hz**	**60 Hz**	**87 Hz**	**60 Hz** Δ	**60 Hz** Y	**2BH1630-..** □ . □
3~							
185 - 225 Δ / 320 - 390 Y	200 - 240 Δ / 345 - 415 Y			380 Δ	•	•	**H 1**
200 - 240 Δ / 345 - 415 Y	220 - 275 Δ / 380 - 480 Y				•	•	**H 6**
345 - 415 Δ / 600 - 720 Y	380 - 480 Δ / 660 - 720 Y				•		**H 7**
			575 Y			•	**C 3**
		500 Δ	575 Δ		•		**C 5**

Voltage range		efficency degree[5]	cULus	
50 Hz	**60Hz**		**60 Hz**	**2BH1630-..** □ . □
3~ IE3 NEMA Premium [6]				
200 Δ	200 YY / 230 Δ / 400 Y	NEMA Premium	•	**K 1**
190-210 Δ	190-210 YY / 220-240 Δ / 380-420 Y	IE3		
200 YY / 230 Δ / 400 Y	230 YY / 460 Y	NEMA Premium	•	**K 6**
190-210 YY / 220-240 Δ / 380-420 Y	220-240 YY / 440-480 Y	IE3		
475-525 V Y	550-600 V Y	NEMA Premium	•	**Q 3**
475-525 VΔ	550-600 VΔ	NEMA Premium	•	**Q 5**
400 VΔ / 690 V Y	460 VΔ	NEMA Premium	•	**Q 7**

5) The motors according to NEMA MG1-12. NP=NEMA Premium; NEMA Premium includes IE3.

6) Performance can differ if IE3/NP motors are used. Please refer to corresponding data sheets.

Changes in particular of the quoted performance curve, data and weights may occur without prior notice. The data given does not constitute an obligation from our side to deliver as shown.

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