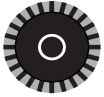
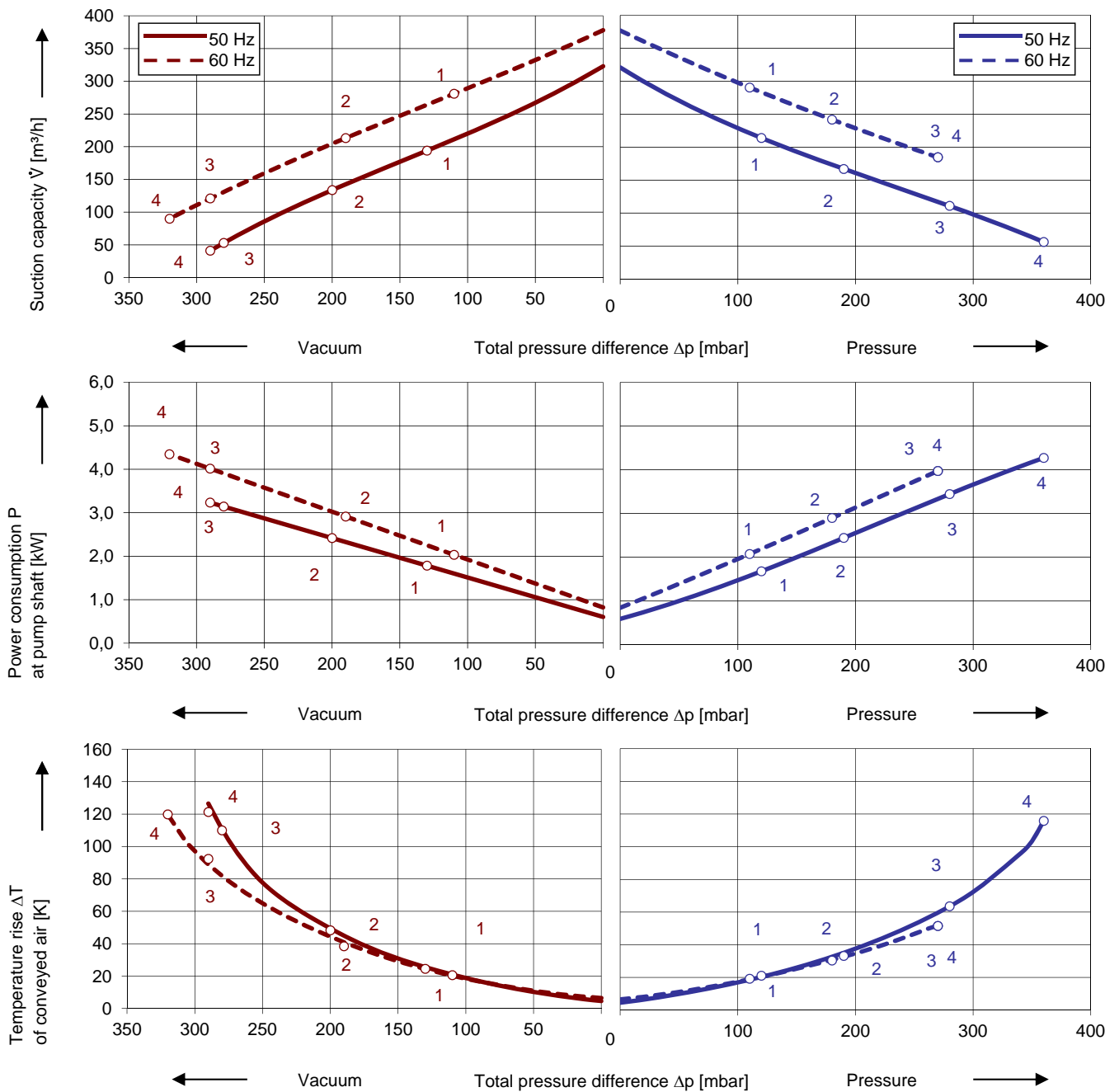




G-BH 1 N

Data sheet 2BH1 600

Side channel blower with IE3-motors


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 $\pm 10\%$. 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										
No.	Fre- quency	Rated			Max. differential pressure ²⁾		Sound pres. Level ¹⁾	Efficiency class ⁴⁾	Weight approx.	Order No.
		Voltage ¹⁾	Current	Power	Vacuum	Pressure				
		Hz	V	A	kW	mbar				
IE3 3~ 50/60 Hz, IP55, Insulation material class F, UL 1004 and CNA/CSA 22.2 No 68-09 (certificate number E225239)										
1	50	190-210 Δ	6,9 A	1,75	-130	120	69	IE3	44	2BH1600-1AK01
	60	190-210 YY / 380-420 Y	7,8 YY / 3,9 Y	2,0	-110	110	72	IE3		
	60	200 YY	7,8 YY	2,0	-110	110	72	NP		
2	50	190-210 Δ	9,9 A	2,5	-200	190	69	IE3	49	2BH1600-1AK11
	60	190-210 YY / 380-420 Y	12,0 YY / 6,0 Y	3,0	-190	180	72	IE3		
	60	200 YY	12,0 YY	3,0	-190	180	72	NP		
3	50	190-210 Δ	13,3 A	3,45	-280	280	69	IE3	54	2BH1600-1AK21
	60	190-210 YY / 380-420 Y	15,0 YY / 7,5 Y	4,0	-280	270	72	IE3		
	60	200 YY	15,0 YY	4,0	-280	270	72	NP		
4	50	190-210 Δ	17,1 A	4,6	-290	360	69	IE3	63	2BH1600-1AK31
	60	190-210 YY / 380-420 Y	19,4 YY / 9,7 Y	5,3	-320	390	72	IE3		
	60	200 YY	19,4 YY	5,3	-320	390	72	NP		
IE3 3~ 50/60 Hz, IP55, Insulation material class F, UL 1004 and CNA/CSA 22.2 No 68-09 (certificate number E225239)										
1	50	220-240 Δ / 380-420 Y	6,0 Δ / 3,45 Y	1,75	-130	120	69	IE3	44	2BH1600-1AK06
	60	220-240 YY / 440-480 Y	6,80 YY / 3,40 Y	2,0	-110	110	72	IE3		
	60	230 YY / 460 Y	6,80 YY / 3,40 Y	2,0	-110	110	72	NP		
2	50	220-240 Δ / 380-420 Y	8,6 Δ / 5,0 Y	2,5	-200	190	69	IE3	49	2BH1600-1AK16
	60	220-240 YY / 440-480 Y	10,4 YY / 5,2 Y	3,0	-190	180	72	IE3		
	60	230 YY / 460 Y	10,4 YY / 5,2 Y	3,0	-190	180	72	NP		
3	50	220-240 Δ / 380-420 Y	11,6 Δ / 6,7 Y	3,45	-280	280	69	IE3	54	2BH1600-1AK26
	60	220-240 YY / 440-480 Y	13,0 YY / 6,5 Y	4,0	-280	270	72	IE3		
	60	230 YY / 460 Y	13,0 YY / 6,5 Y	4,0	-280	270	72	NP		
4	50	220-240 Δ / 380-420 Y	14,9 Δ / 8,6 Y	4,6	-290	350	69	IE3	63	2BH1600-1AK36
	60	220-240 YY / 440-480 Y	16,8 YY / 8,4 Y	5,3	-330	360	72	IE3		
	60	230 YY / 460 Y	16,8 YY / 8,4 Y	5,3	-330	360	72	NP		
IE3 3~ 50/60 Hz, IP55, Insulation material class F, UL 1004 and CNA/CSA 22.2 No 68-09 (certificate number E225239)										
1	50	500 Y	2,76 Y	1,75	-130	120	69	IE3	44	2BH1600-1AQ03
	60	575 Y	2,72 Y	2,00	-110	110	72	NP		
2	50	500 Y	4,00 Y	2,5	-200	190	69	IE3	49	2BH1600-1AQ13
	60	575 Y	4,1 Y	3,00	-190	180	72	NP		
3	50	500 Y	5,4 Y	3,45	-280	280	69	IE3	54	2BH1600-1AQ23
	60	575 Y	5,2 Y	4,00	-280	270	72	NP		
4	50	500 Y	6,8 Y	4,6	-290	350	69	IE3	63	2BH1600-1AQ33
	60	575 Y	6,7 Y	5,3	-330	360	72	NP		
IE3 3~ 50/60 Hz, IP55, Insulation material class F, UL 1004 and CNA/CSA 22.2 No 68-09 (certificate number E225239)										
1	50	380-420 Δ / 660-725 Y	3,45 Δ / 2,00 Y	1,75	-130	120	69	IE3	44	2BH1600-1AQ07
	60	440-480 Δ	3,40 Δ	2,0	-110	110	72	IE3		
	60	460 Δ	3,40 Δ	2,0	-110	110	72	NP		
2	50	380-420 Δ / 660-725 Y	5,0 Δ / 2,90 Y	2,5	-200	190	69	IE3	49	2BH1600-1AQ17
	60	440-480 Δ	5,2 Δ	3,0	-190	180	72	IE3		
	60	460 Δ	5,2 Δ	3,0	-190	180	72	NP		
3	50	380-420 Δ / 660-725 Y	6,7 Δ / 3,85 Y	3,45	-280	280	69	IE3	54	2BH1600-1AQ27
	60	440-480 Δ	6,5 Δ	4,0	-280	270	72	IE3		
	60	460 Δ	6,5 Δ	4,0	-280	270	72	NP		
4	50	380-420 Δ / 660-725 Y	8,6 Δ / 5,0 Y	4,6	-290	350	69	IE3	63	2BH1600-1AQ37
	60	440-480 Δ	8,4 Δ	5,3	-330	360	72	IE3		
	60	460 Δ	8,4 Δ	5,3	-330	360	72	NP		

- 1) In case of frequency converter operation the standard motor insulation system is suitable for converter input voltages up to 500 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) The motors according to NEMA MG1-12. NP=NEMA Premium; NEMA Premium includes IE3.

All G-BH match the 2006/42/EC (machinery) and 2006/95/EC (low voltage) directives and the EN 60034 norm "Rotating electrical machines".

Service factor (SF) and motor efficiency according NEMA MG1-12.

Voltage tolerances for three phase motors are +/-10%.

The frequency tolerance is +/- 2 % maximum.

Voltage range		Efficiency ⁴⁾	c UL US	60 Hz	
50 Hz	60Hz			2BH1...-1.	□ . □
3~					
200 VΔ 190-210 VΔ	200 V YY / 230 VΔ / 400 VY 190-210 VYY / 220-240 VΔ / 380-420VY	 IE3	•	K	1
200 VΔ / 230 VΔ / 400 VY 190-210 VYY / 220-240 VΔ / 380-420VY	230 V YY / 460 VY 220-240 VYY / 440-480VY	 IE3	•	K	6
475-525 V Y	550-600 V Y	 IE3	•	Q	3
475-525 VΔ	550-600 VΔ	 IE3	•	Q	5
400 VΔ / 690 V Y	460 VΔ	 IE3	•	Q	7

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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