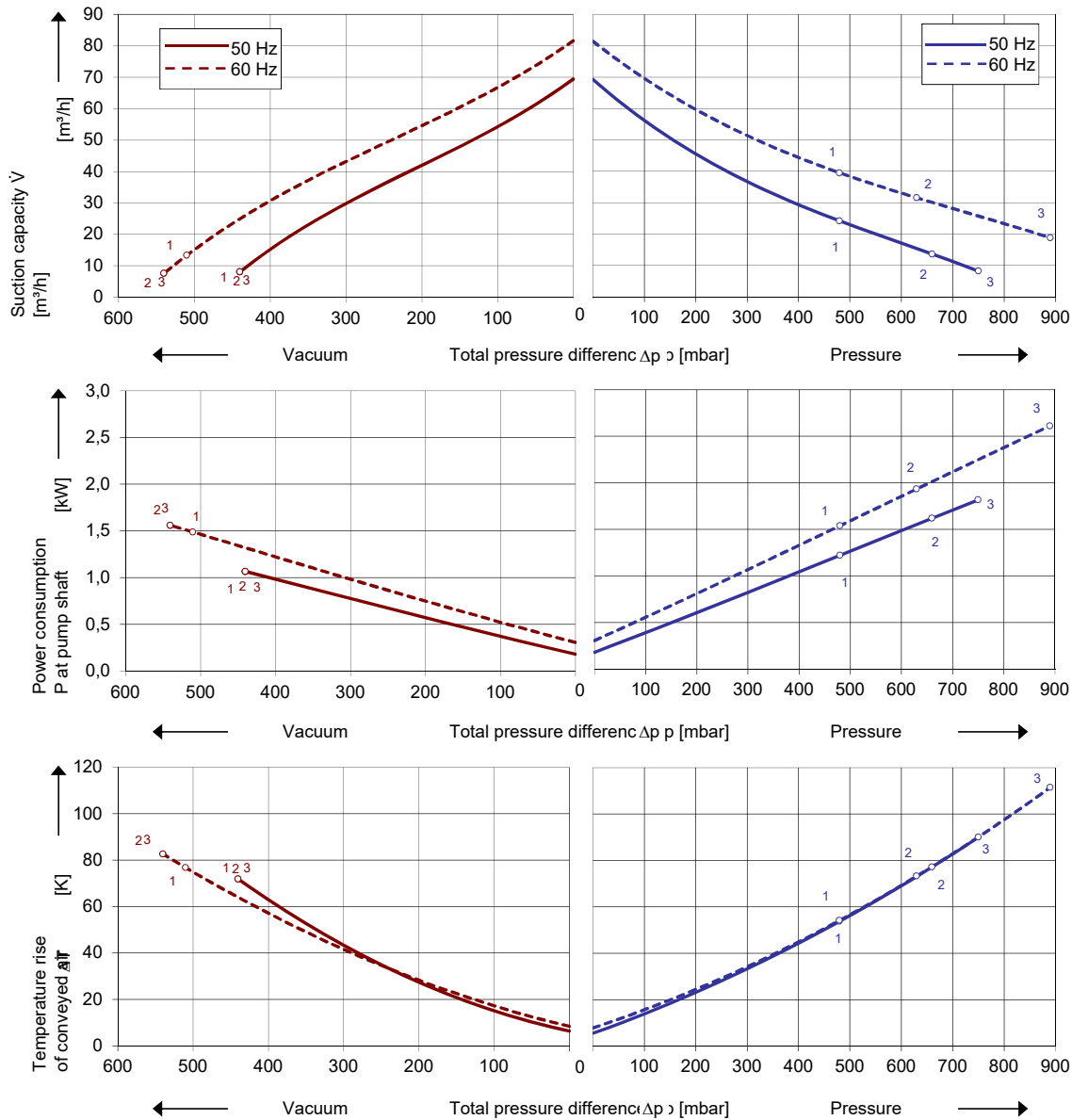


G-BH 7 N

Data sheet 2BH7 320

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 ± 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 2BH7 320

No.	Frequency Hz	Rated			Max. differential ²⁾ pressure		Sound pressure level ³⁾ dB(A)	Efficiency _η	Weight Approx. kg	Order No.
		Voltage ¹⁾ V	Current A	Power kW	Vacuum mbar	Pressure				
IE3 3~ 50/60 Hz, IP55, Insulation material class F, UL 1450 and CAN/CSA C22.2 No. 68-09 (certificate number E225239)										
1	50	190-210 Δ	5,6 Δ	1,3	-440	480	60	IE3	33	2BH7320-0AK41-1
	60	190-210 YY / 380-420 Y	6,3 YY / 3,2 Y	1,6	-510	480	64	IE3		
	60	200 YY	6,3 YY	1,6	-510	480	64	NP		
2	50	190-210 Δ	6,9 Δ	1,8	-440	660	63	IE3	36	2BH7320-0AK51-1
	60	190-210 YY / 380-420 Y	7,8 YY / 3,9 Y	2,0	-540	630	67	IE3		
	60	200 YY	7,8 YY	2,0	-540	630	67	NP		
3	50	190-210 Δ	9,9 Δ	2,5	-440	750	63	IE3	41	2BH7320-0AK61-1
	60	190-210 YY / 380-420 Y	12,0 YY / 6,0 Y	3,0	-540	890	67	IE3		
	60	200 YY	12,0 YY	3,0	-540	890	67	NP		
IE3 3~ 50/60 Hz, IP55, Insulation material class F, UL 1450 and CAN/CSA C22.2 No. 68-09 (certificate number E225239)										
1	50	220-240 Δ / 380-420 Y	4,9 Δ / 2,9 Y	1,3	-440	480	60	IE3	33	2BH7320-0AK46-1
	60	220-240 YY / 440-480 Y	5,5 YY / 2,8 Y	1,6	-510	480	64	IE3		
	60	230 YY / 460 Y	5,5 YY / 2,8 Y	1,6	-510	480	64	NP		
2	50	220-240 Δ / 380-420 Y	6,0 Δ / 3,5 Y	1,8	-440	660	63	IE3	36	2BH7320-0AK56-1
	60	220-240 YY / 440-480 Y	6,8 YY / 3,4 Y	2,0	-540	630	67	IE3		
	60	230 YY / 460 Y	6,8 YY / 3,4 Y	2,0	-540	630	67	NP		
3	50	220-240 Δ / 380-420 Y	8,6 Δ / 5,0 Y	2,5	-440	750	63	IE3	41	2BH7320-0AK66-1
	60	220-240 YY / 440-480 Y	10,4 YY / 5,2 Y	3,0	-540	890	67	IE3		
	60	230 YY / 460 Y	10,4 YY / 5,2 Y	3,0	-540	890	67	NP		
IE3 3~ 50/60 Hz, IP55, Insulation material class F, UL 1450 and CAN/CSA C22.2 No. 68-09 (certificate number E225239)										
1	50	500 Y	2,3 Y	1,3	-440	480	60	IE3	33	2BH7320-0AQ43-1
	60	575 Y	2,2 Y	1,6	-510	480	64	NP		
2	50	500 Y	2,8 Y	1,8	-440	660	63	IE3	36	2BH7320-0AQ53-1
	60	575 Y	2,7 Y	2,0	-540	630	67	NP		
3	50	500 Y	4,0 Y	2,5	-440	750	63	IE3	41	2BH7320-0AQ63-1
	60	575 Y	4,1 Y	3,0	-540	890	67	NP		
IE3 3~ 50/60 Hz, IP55, Insulation material class F, UL 1450 and CAN/CSA C22.2 No. 68-09 (certificate number E225239)										
1	50	220-240 Δ / 380-420 Y	4,9 Δ / 2,9 Y	1,3	-440	480	60	IE3	33	2BH7320-0AQ46-1
	60	/ 440-480 Y	/ 2,8 Y	1,6	-510	480	64	IE3		
2	50	220-240 Δ / 380-420 Y	6,0 Δ / 3,5 Y	1,8	-440	660	63	IE3	36	2BH7320-0AQ56-1
	60	/ 440-480 Y	/ 3,4 Y	2,0	-540	630	67	IE3		
3	50	220-240 Δ / 380-420 Y	8,8 Δ / 5,0 Y	2,5	-440	750	63	IE3	41	2BH7320-0AQ66-1
	60	/ 440-480 Y	/ 5,2 Y	3,0	-540	890	67	IE3		
IE3 3~ 50/60 Hz, IP55, Insulation material class F, UL 1450 and CAN/CSA C22.2 No. 68-09 (certificate number E225239)										
1	50	380-420 Δ / 660-725 Y	2,9 Δ / 1,7 Y	1,3	-440	480	60	IE3	33	2BH7320-0AQ47-1
	60	440-480 Δ	2,8 Δ	1,6	-510	480	64	IE3		
	60	460 Δ	2,8 Δ	1,6	-510	480	64	NP		
2	50	380-420 Δ / 660-725 Y	3,5 Δ / 2,0 Y	1,8	-440	660	63	IE3	36	2BH7320-0AQ57-1
	60	440-480 Δ	3,4 Δ	2,0	-540	630	67	IE3		
	60	460 Δ	3,4 Δ	2,0	-540	630	67	NP		
3	50	380-420 Δ / 660-725 Y	5,0 Δ / 2,9 Y	2,5	-440	750	63	IE3	41	2BH7320-0AQ67-1
	60	440-480 Δ	5,2 Δ	3,0	-540	890	67	IE3		
	60	460 Δ	5,2 Δ	3,0	-540	890	67	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 2014/35/EU (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.

Motor for alternate voltages

Voltage range		Efficiency,	c  us		
50 Hz	60Hz			60 Hz	2BH7...-.. □ . □ -1
3~					
200 V Δ 190-210 V Δ	200 V YY / 230 V Δ / 400 VY 190-210 VYY / 220-240 VD / 380-420VY	 IE3	•		K 1
200 V YY / 230 V Δ / 400 VY 190-210 VYY / 220-240 V Δ / 380-420VY	230 V YY / 460 VY 220-240 VYY / 440-480VY	 IE3	•		K 6
475-525 V Y 475-525 V Δ	550-600 V Y 550-600 V Δ	 IE3	•		Q 3
220-240 V Δ / 380-420 V Y 400 V Δ / 690 V Y	440-480 V Y 460 V Δ	 IE3	•		Q 5
		 IE3	•		Q 6
		 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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