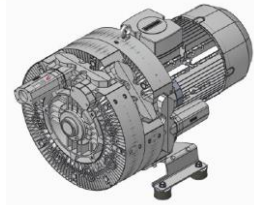




Elmo Rietschle

IE3

CEC US



# G-BH 7 N Data sheet 2BH7 630-0A

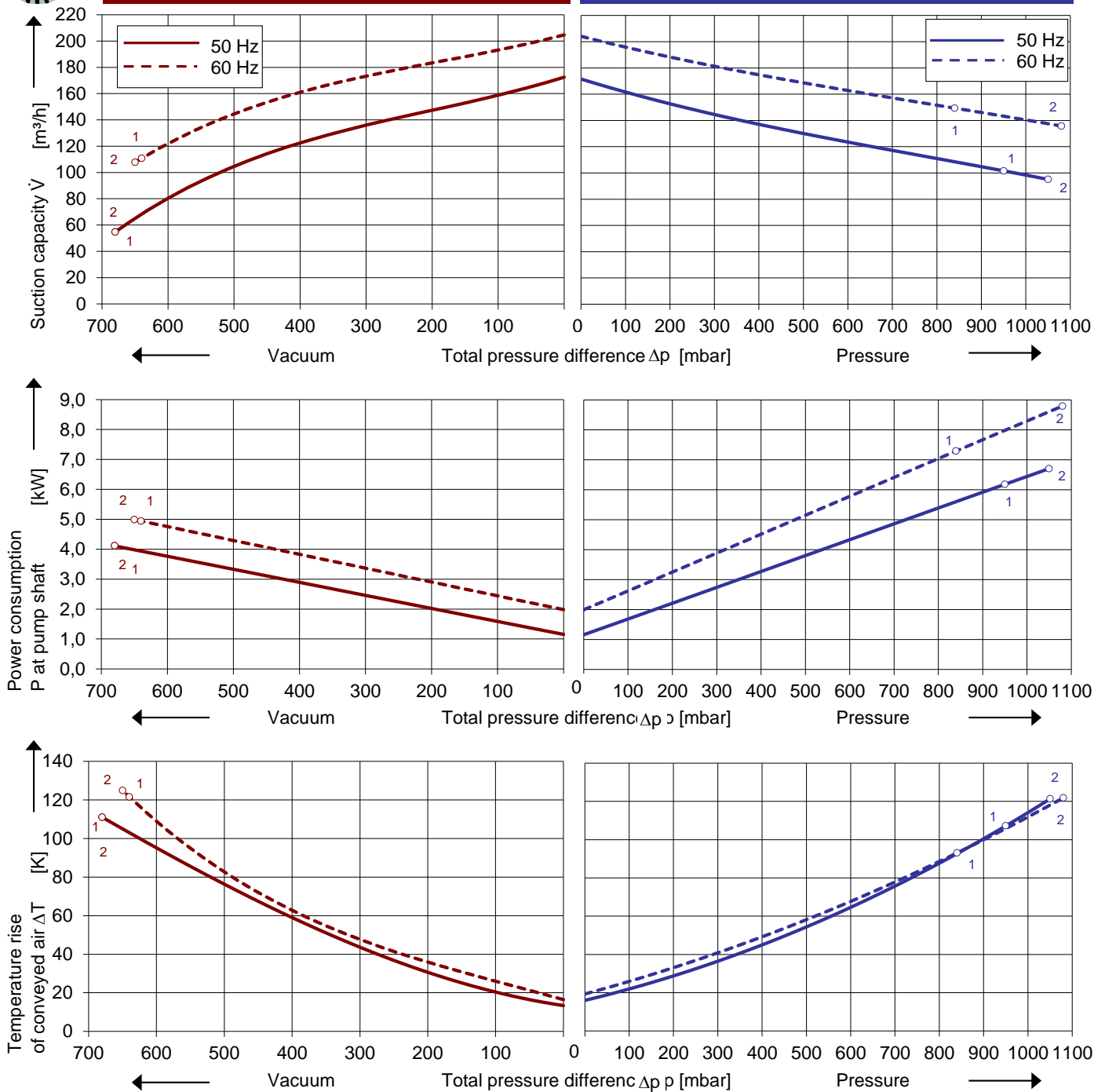
Side channel blower with IE3-motors



## 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 2BH7 630-0A										
No.	Fre- quency	Rated			Max. differential pressure <sup>2)</sup>		Sound pressure level <sup>3)</sup>	Efficiency <sup>4)</sup>	Weight Approx.	Order No.
		Voltage <sup>1)</sup>	Current	Power	Vacuum	Pressure				
					mbar					
<b>IE3 3~ 50/60 Hz, IP55, Insulation material class F, UL 1450 and CAN/CSA C22.2 No. 68-09 (certificate number E225239)</b>										
1	50	190-210 Δ	23,5 Δ	6,3	-680	950	64	IE3	89	2BH7630-0AK71-2
	60	190-210 YY / 380-420 Y	27,6 YY / 13,8 Y	7,3	-640	840	66	IE3		
	60	200 YY	27,6 YY	7,3	-640	840	66	NP		
2	50	190-210 Δ	30,8 Δ	8,6	-680	1050	64	IE3	101	2BH7630-0AK61-2
	60	190-210 YY / 380-420 Y	35,2 YY / 17,6 Y	9,9	-650	1080	66	IE3		
	60	200 YY	35,2 YY	9,9	-650	1080	66	NP		
<b>IE3 3~ 50/60 Hz, IP55, Insulation material class F, UL 1450 and CAN/CSA C22.2 No. 68-09 (certificate number E225239)</b>										
1	50	220-240 Δ / 380-420 Y	20,4 Δ / 11,8 Y	6,3	-680	950	64	IE3	89	2BH7630-0AK76-2
	60	220-240 YY / 440-480 Y	24,0 YY / 12,0 Y	7,3	-640	840	66	IE3		
	60	230 YY / 460 Y	24,0 YY / 12,0 Y	7,3	-640	840	66	NP		
2	50	220-240 Δ / 380-420 Y	26,8 Δ / 15,5 Y	8,6	-680	1050	64	IE3	101	2BH7630-0AK66-2
	60	220-240 YY / 440-480 Y	30,6 YY / 15,3 Y	9,9	-650	1080	66	IE3		
	60	230 YY / 460 Y	30,6 YY / 15,3 Y	9,9	-650	1080	66	NP		
<b>IE3 3~ 50/60 Hz, IP55, Insulation material class F, UL 1450 and CAN/CSA C22.2 No. 68-09 (certificate number E225239)</b>										
1	50	500 Y	9,5 Y	6,3	-680	950	64	IE3	89	2BH7630-0AQ73-2
	60	575 Y	9,6 Y	7,3	-640	840	66	NP		
2	50	500 Y	12,4 Y	8,6	-680	1050	64	IE3	101	2BH7630-0AQ63-2
	60	575 Y	12,2 Y	9,9	-650	1080	66	NP		
<b>IE3 3~ 50/60 Hz, IP55, Insulation material class F, UL 1450 and CAN/CSA C22.2 No. 68-09 (certificate number E225239)</b>										
1	50	380-420 Δ / 660-725 Y	11,8 Δ / 6,8 Y	6,3	-680	950	64	IE3	89	2BH7630-0AQ77-2
	60	440-480 Δ	12,0 Δ	7,3	-640	840	66	IE3		
	60	460 Δ	12,0 Δ	7,3	-640	840	66	NP		
2	50	380-420 Δ / 660-725 Y	15,5 Δ / 8,9 Y	8,6	-680	1050	64	IE3	101	2BH7630-0AQ67-2
	60	440-480 Δ	15,3 Δ	9,9	-650	1080	66	IE3		
	60	460 Δ	15,3 Δ	9,9	-650	1080	66	NP		
<b>IE3 3~ 50/60 Hz, IP55, Insulation material class F, UL 1450 and CAN/CSA C22.2 No. 68-09 (certificate number E225239)</b>										
1	50	220-240 Δ / 380-420 Y	20,8 Δ / 12,0 Y	6,3	-680	950	64	IE3	89	2BH7630-0AQ76-2
	60	440-480 Y	12,0 Y	7,3	-640	840	66	IE3		
2	50	220-240 Δ / 380-420 Y	27,5 Δ / 15,9 Y	8,6	-680	1050	64	IE3	101	2BH7630-0AQ66-2
	60	440-480 Y	15,7 Y	9,9	-650	1080	66	IE3		

- 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		Efficiency <sup>4)</sup>	60 Hz	2BH7...-2
50 Hz	60Hz			
3~				
200 VΔ	200 V YY / 230 VΔ / 400 VY	<b>NEMA Premium</b>	•	K 1
190-210 VΔ	190-210 VYY / 220-240 VΔ / 380-420VY	<b>IE3</b>	•	
200 V YY / 230 VΔ / 400 VY	230 V YY / 460 VY	<b>NEMA Premium</b>	•	K 6
190-210 VYY / 220-240 VΔ / 380-420VY	220-240 VYY / 440-480VY	<b>IE3</b>	•	
475-525 V Y	550-600 V Y	<b>NEMA Premium</b>	•	Q 3
475-525 VΔ	550-600 VΔ	<b>NEMA Premium</b>	•	Q 5
220-240 VD / 380-420VY	440-480VY	<b>IE3</b>	•	Q 6
400 VΔ / 690 V Y	460 VΔ	<b>NEMA Premium</b>	•	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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