



Elmo Rietschle

G-BH 1 N

Data sheet 2BH1 400

Side channel blower with IE3-motors

IE3

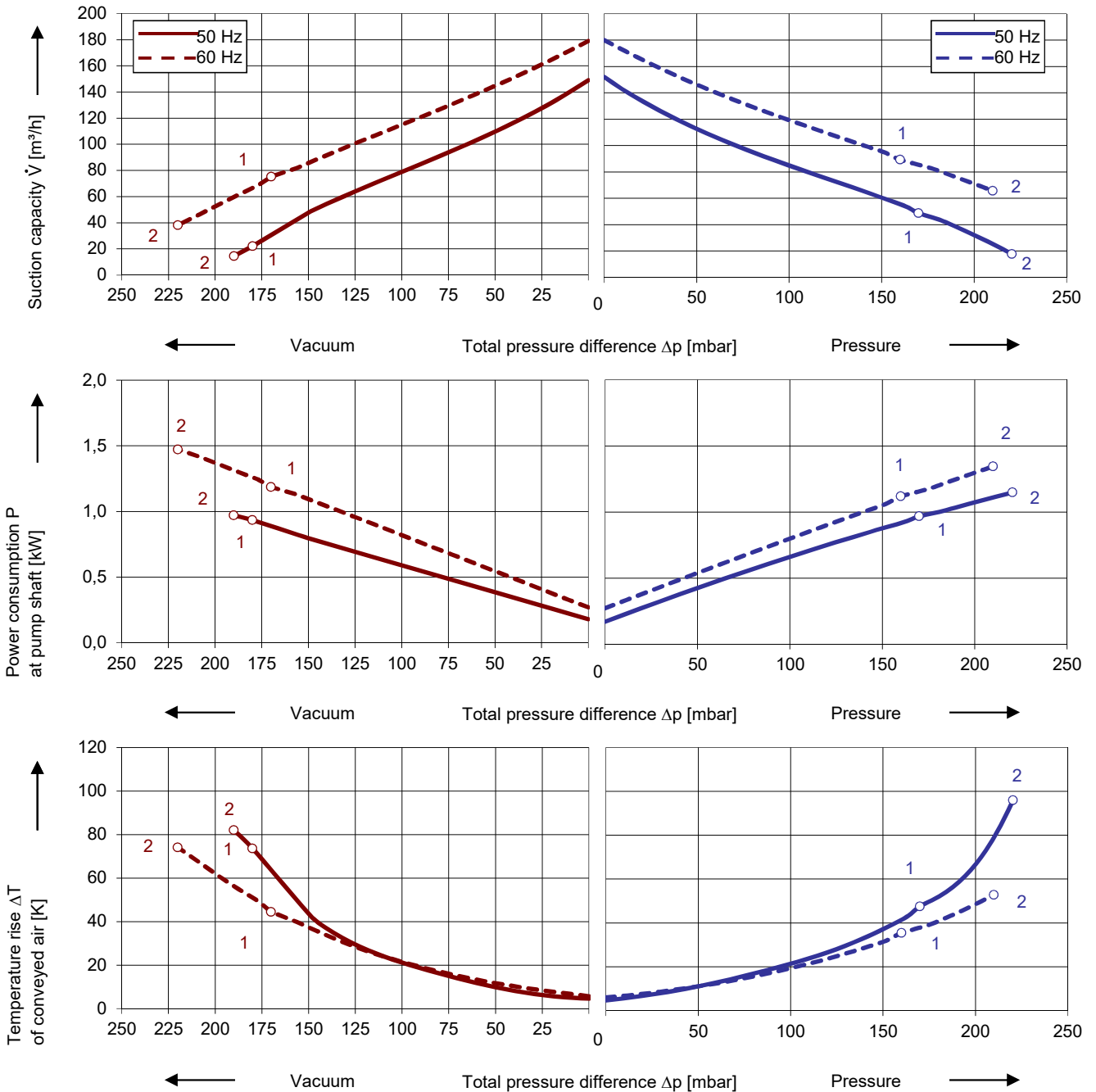
CE US



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 Hz	Rated			Max. differential pressure ²⁾		Sound pres. ³⁾ Level dB(A)	Efficiency class ⁴⁾	Weight approx. kg	Order No.
		Voltage ¹⁾ V	Current A	Power kW	Vacuum	Pressure				
					mbar					
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	4,2 Δ	0,95	-180	170	61	IE3	16	2BH1400-0AK11
	60	190-210 YY / 380-420 Y	4,8 YY / 2,4 Y	1,10	-170	160	64	IE3		
	60	200 YY	4,8 YY	1,10	-170	160	64	NP		
2	50	190-210 Δ	5,6 Δ	1,30	-190	220	61	IE3	19	2BH1400-0AK21
	60	190-210 YY / 380-420 Y	6,3 YY / 3,2 Y	1,60	-220	210	64	IE3		
	60	200 YY	6,3 YY	1,60	-220	210	64	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	3,7 Δ / 2,1 Y	0,95	-180	170	61	IE3	16	2BH1400-0AK16
	60	220-240 YY / 440-480 Y	4,2 YY / 2,1 Y	1,10	-170	160	64	IE3		
	60	230 YY / 460 Y	4,2 YY / 2,1 Y	1,10	-170	160	64	NP		
2	50	220-240 Δ / 380-420 Y	4,9 Δ / 2,9 Y	1,30	-190	220	61	IE3	19	2BH1400-0AK26
	60	220-240 YY / 440-480 Y	5,5 YY / 2,8 Y	1,60	-220	210	64	IE3		
	60	230 YY / 460 Y	5,5 YY / 2,8 Y	1,60	-220	210	64	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	475-525 Y	1,7 Y	0,95	-180	170	61	IE3	16	2BH1400-0AQ13
	60	550-600 Y	1,7 Y	1,10	-170	160	64	NP		
2	50	475-525 Y	2,3 Y	1,30	-190	220	61	IE3	19	2BH1400-0AQ23
	60	550-600 Y	2,2 Y	1,60	-220	210	64	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	380-420 Δ / 660-725 Y	2,1 Δ / 1,2 Y	0,95	-180	170	61	IE3	16	2BH1400-0AQ17
	60	440-480 Δ	2,1 Δ	1,10	-170	160	64	IE3		
	60	460 Δ	2,1 Δ	1,10	-170	160	64	NP		
2	50	380-420 Δ / 660-725 Y	2,9 Δ / 1,7 Y	1,30	-190	220	61	IE3	19	2BH1400-0AQ27
	60	440-480 Δ	2,8 Δ	1,60	-220	210	64	IE3		
	60	460 Δ	2,8 Δ	1,60	-220	210	64	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	3,7 Δ / 2,1 Y	0,95	-180	170	61	IE3	16	2BH1400-0AQ16
	60	440-480 Y	2,1 Y	1,10	-170	160	64	IE3		
2	50	220-240 Δ / 380-420 Y	4,9 Δ / 2,9 Y	1,30	-190	220	61	IE3	19	2BH1400-0AQ26
	60	440-480 Y	2,8 Y	1,60	-220	210	64	IE3		

- In case of frequency converter operation the standard motor insulation system is suitable for converter input voltages up to 500 V.
- Relief valves available for limiting differential pressure.
- 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).
- 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 ⁴⁾	c us	60 Hz	
50 Hz	60Hz			60 Hz	2BH1...-0. □ . □
3~					
200 VΔ	200 V YY / 230 VΔ / 400 VY		•		K 1
190-210 VΔ	190-210 VYY / 220-240 VΔ / 380-420VY	IE3	•		K 1
200 V YY / 230 VΔ / 400 VY	230 V YY / 460 VY		•		K 6
190-210 VYY / 220-240 VΔ / 380-420VY	220-240 VYY / 440-480VY	IE3	•		K 6
475-525 V Y	550-600 V Y		•		Q 3
475-525 VΔ	550-600 VΔ		•		Q 5
220-240 VΔ / 380-420VY	440-480VY	IE3	•		Q 6
400 VΔ / 690 V Y	460 VΔ		•		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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