



# Elmo Rietschle

## G-BH 9 N

### Data sheet 2BH9 2300

Side channel blower with IE3-motors

IE3

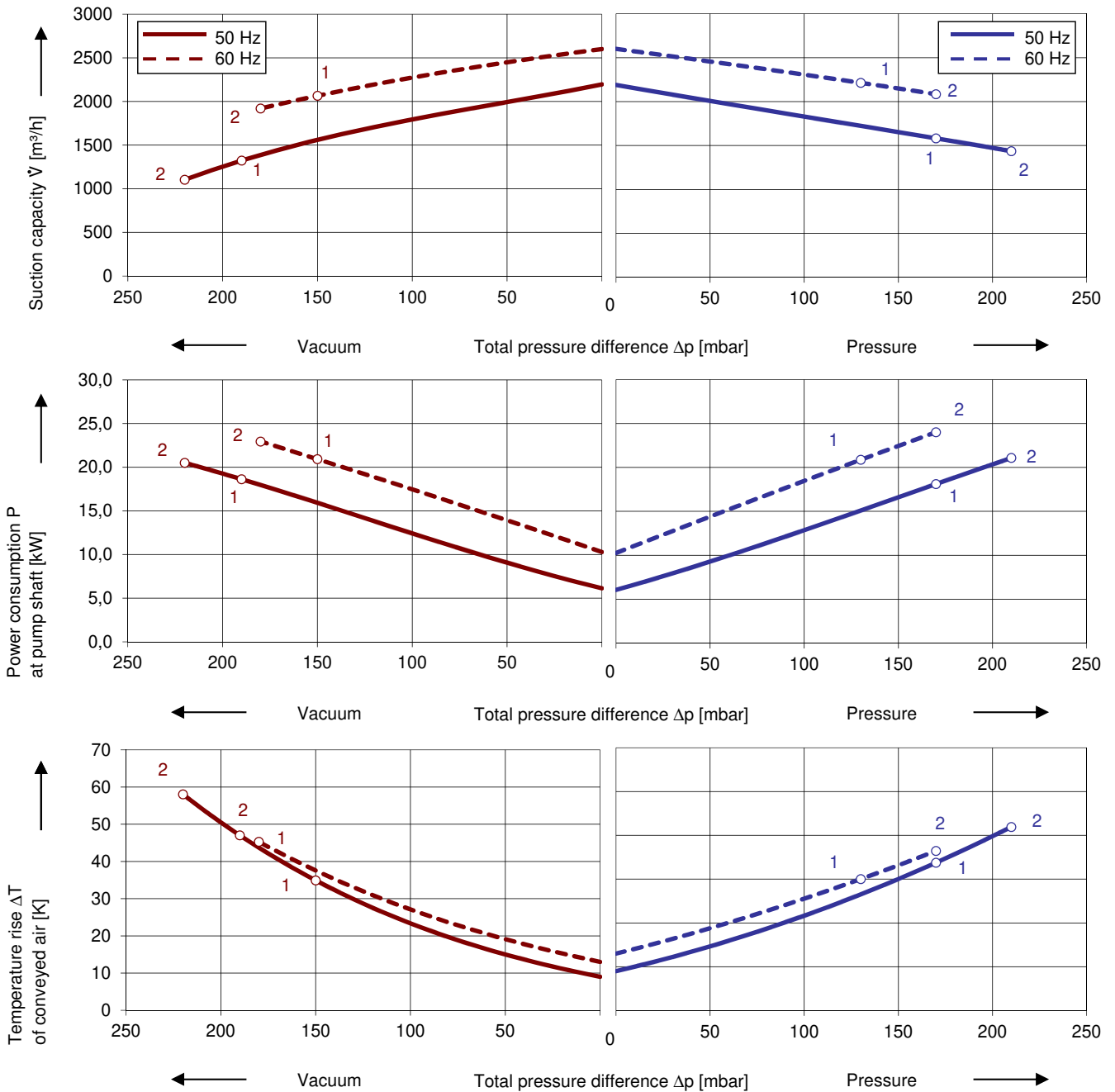
UL US



#### Performance curves

##### Vacuum operation

##### Compressor operation



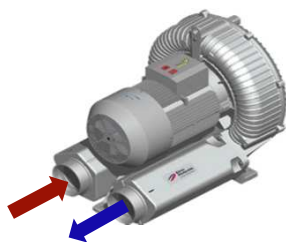
The performance curves are based on air at a temperature of 15 °C and an atmospheric pressure of 1013 mbar with a tolerance of  $\pm 10\%$ . The total pressure differences are valid for suction and ambient temperature up to 25 °C. For other conditions please get in touch with us.

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

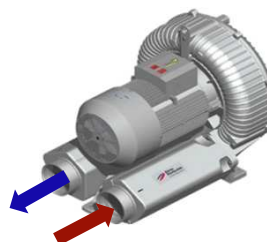
### Type

No.	Fre- quency Hz	Rated			Max. differential pressure <sup>2)</sup>		Sound pres. Level <sup>3)</sup> dB(A)	Efficiency class <sup>4)</sup>	Weight approx. kg	Order No.
		Voltage <sup>1)</sup> V	Current A	Power kW	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	63,1 Δ	17,3	-190	170	81	IE3	146	2BH92300-1AAK1-BA
	60	190-210 YY / 380-420 Y	72,2 YY / 36,1 Y	19,9	-150	130	81	IE3		
	60	200 YY	72,2 YY	19,9	-150	130	81	NP		
2	50	190-210 Δ	76,8 Δ	21,3	-220	210	81	IE3	158	2BH92300-1AAK1-BA
	60	190-210 YY / 380-420 Y	87,4 YY / 43,7 Y	24,5	-180	170	81	IE3		
	60	200 YY	87,4 YY	24,5	-180	170	81	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	54,9 Δ / 31,7 Y	17,3	-190	170	81	IE3	146	2BH92300-1AAK6-BA
	60	220-240 YY / 440-480 Y	62,8 YY / 31,4 Y	19,9	-150	130	81	IE3		
	60	230 YY / 460 Y	62,8 YY / 31,4 Y	19,9	-150	130	81	NP		
2	50	220-240 Δ / 380-420 Y	66,3 Δ / 38,3 Y	21,3	-220	210	81	IE3	158	2BH92300-1AAK6-BA
	60	220-240 YY / 440-480 Y	76,0 YY / 38,0 Y	24,5	-180	170	81	IE3		
	60	230 YY / 460 Y	76,0 YY / 38,0 Y	24,5	-180	170	81	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	475-525 Y	25,4 Y	17,3	-190	170	81	IE3	156	2BH92300-1AAQ3-BA
	60	550-600 Y	25,1 Y	19,9	-150	130	81	NP		
2	50	475-525 Y	30,6 Y	21,3	-220	210	81	IE3	165	2BH92300-1AAQ3-BA
	60	550-600 Y	30,4 Y	24,5	-180	170	81	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	31,7 Δ / 18,3 Y	17,3	-190	170	81	IE3	156	2BH92300-1AAQ7-BA
	60	440-480 Δ	31,4 Δ	19,9	-150	130	81	IE3		
	60	460 Δ	31,4 Δ	19,9	-150	130	81	NP		
2	50	380-420 Δ / 660-725 Y	38,3 Δ / 22,1 Y	21,3	-220	210	81	IE3	165	2BH92300-1AAQ7-BA
	60	440-480 Δ	38,0 Δ	24,5	-180	170	81	IE3		
	60	460 Δ	38,0 Δ	24,5	-180	170	81	NP		



2BH9 2300-1AAxxx-AA

Discharge right (standard)



2BH9 2300-5AAxxx-AA

Discharge left (optional)

- 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 <sup>4)</sup>	c  us	2BH9...-1.. □ . □	
50 Hz	60Hz			60 Hz	
<b>3~</b>					
200 VΔ	200 V YY / 230 VΔ / 400 VY		•	K	1
190-210 VΔ	190-210 VYY / 220-240 VΔ / 380-420VY	IE3	•	K	6
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
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 show

Elmo Rietschle is a brand of Gardner Denver

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