

**Elmo
Rietschle**

IE3

CE **US**



G-BH 2 N

Data sheet 2BH20360-1

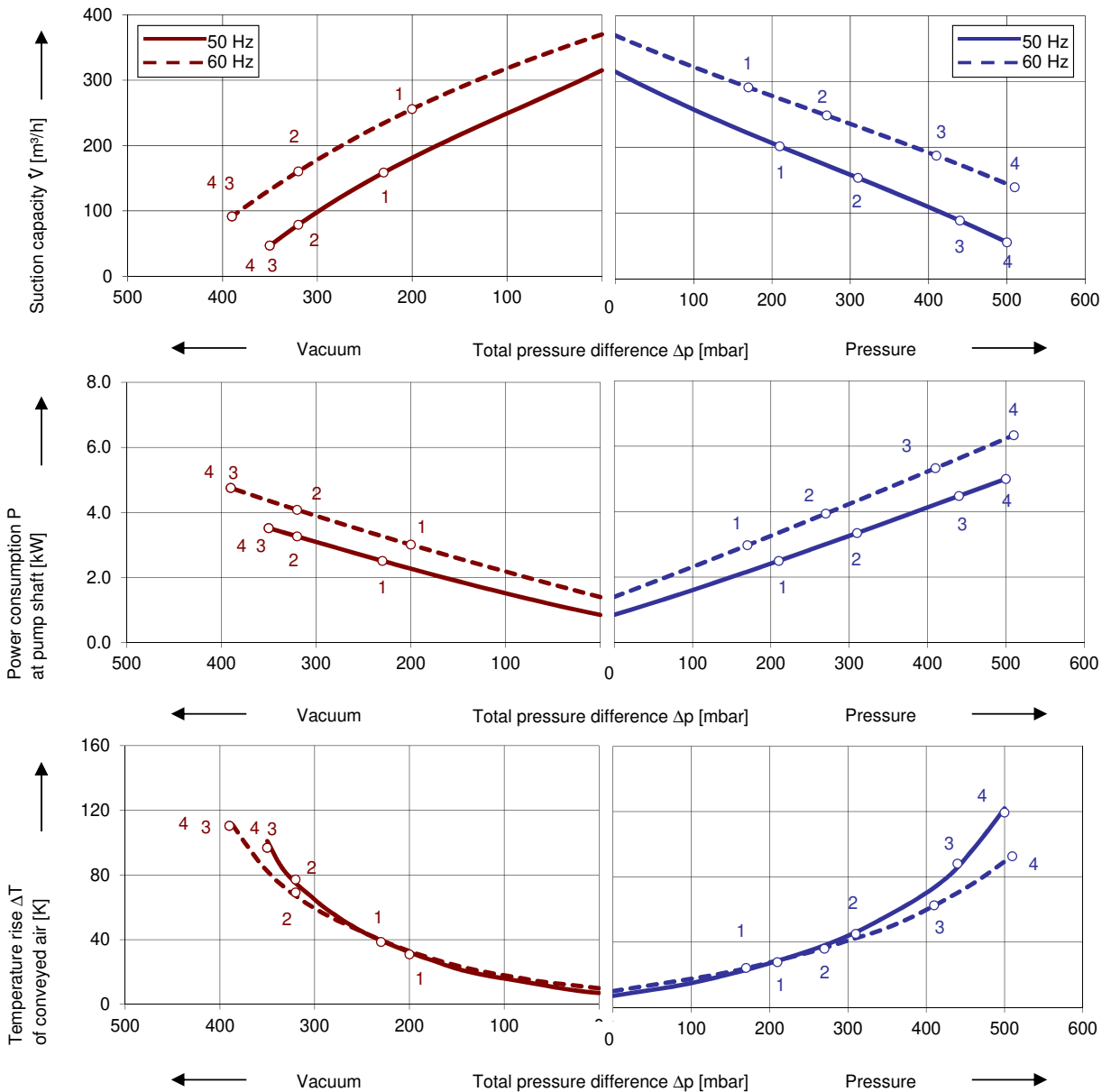
Side channel blower with IE3-motors



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 Hz	Rated			Max. differential pressure ²⁾		Sound pr. level ³⁾ dB(A)	Efficiency 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	9.9 Δ	2.5	-230	210	64	IE3	56	2BH20360-1AAKJ1-BA
	60	190-210 YY / 380-420 Y	12.0 YY / 6.0 Y	3.0	-200	170	67	IE3		
	60	200 YY	12.0 YY	3.0	-200	170	67	NP		
2	50	190-210 Δ	13.3 Δ	3.5	-320	310	70	IE3	61	2BH20360-1AAKK1-BA
	60	190-210 YY / 380-420 Y	15.2 YY / 7.6 Y	4.0	-320	270	72	IE3		
	60	200 YY	15.2 YY	4.0	-320	270	72	NP		
3	50	190-210 Δ	17.1 Δ	4.6	-350	440	65	IE3	68	2BH20360-1AAKL1-BA
	60	190-210 YY / 380-420 Y	19.6 YY / 9.8 Y	5.3	-390	410	70	IE3		
	60	200 YY	19.6 YY	5.3	-390	410	70	NP		
4	50	190-210 Δ	23.5 Δ	6.3	-350	500	71	IE3	76	2BH20360-1AAKM1-BA
	60	190-210 YY / 380-420 Y	27.6 YY / 13.8 Y	7.3	-390	510	75	IE3		
	60	200 YY	27.6 YY	7.3	-390	510	75	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	8.6 Δ / 5.0 Y	2.5	-230	210	64	IE3	56	2BH20360-1AAKJ6-BA
	60	220-240 YY / 440-480 Y	10.4 YY / 5.2 Y	3.0	-200	170	67	IE3		
	60	230 YY / 460 Y	10.4 YY / 5.2 Y	3.0	-200	170	67	NP		
2	50	220-240 Δ / 380-420 Y	11.6 Δ / 6.7 Y	3.5	-320	310	70	IE3	61	2BH20360-1AAKK6-BA
	60	220-240 YY / 440-480 Y	13.2 YY / 6.6 Y	4.0	-320	270	72	IE3		
	60	230 YY / 460 Y	13.2 YY / 6.6 Y	4.0	-320	270	72	NP		
3	50	220-240 Δ / 380-420 Y	14.9 Δ / 8.6 Y	4.6	-350	440	65	IE3	68	2BH20360-1AAKL6-BA
	60	220-240 YY / 440-480 Y	17.0 YY / 8.5 Y	5.3	-390	410	70	IE3		
	60	230 YY / 460 Y	17.0 YY / 8.5 Y	5.3	-390	410	70	NP		
4	50	220-240 Δ / 380-420 Y	20.4 Δ / 11.8 Y	6.3	-350	500	71	IE3	76	2BH20360-1AAKM6-BA
	60	220-240 YY / 440-480 Y	24.0 YY / 12.0 Y	7.3	-390	510	75	IE3		
	60	230 YY / 460 Y	24.0 YY / 12.0 Y	7.3	-390	510	75	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	4.0 Y	2.5	-230	210	64	IE3	56	2BH20360-1AAQJ3-BA
	60	550-600 Y	4.1 Y	3.0	-200	170	67	NP		
	60	475-525 Y	5.4 Y	3.5	-320	310	70	IE3		
2	50	475-525 Y	5.4 Y	3.5	-320	310	70	IE3	61	2BH20360-1AAQK3-BA
	60	550-600 Y	5.3 Y	4.0	-320	270	72	NP		
	60	475-525 Y	6.9 Y	4.6	-350	440	65	IE3		
3	50	475-525 Y	6.9 Y	4.6	-350	440	65	IE3	68	2BH20360-1AAQL3-BA
	60	550-600 Y	6.8 Y	5.3	-390	410	70	NP		
	60	475-525 Y	9.5 Y	6.3	-350	500	71	IE3		
4	50	475-525 Y	9.5 Y	6.3	-350	500	71	IE3	76	2BH20360-1AAQM3-BA
	60	550-600 Y	9.6 Y	7.3	-390	510	75	NP		
	60	475-525 Y	12.0 Y	7.3	-390	510	75	NP		
1	50						64		56	2BH20360-1AAQJ7-BA
	60						67			
	60						67			
2	50	380-420 Δ / 660-725 Y	6.7 Δ / 3.9 Y	3.5	-320	310	70	IE3	61	2BH20360-1AAQK7-BA
	60	440-480 Δ	6.6 Δ	4.0	-320	270	72	IE3		
	60	460 Δ	6.6 Δ	4.0	-320	270	72	NP		
3	50	380-420 Δ / 660-725 Y	8.6 Δ / 5.0 Y	4.6	-350	440	65	IE3	68	2BH20360-1AAQL7-BA
	60	440-480 Δ	8.5 Δ	5.3	-390	410	70	IE3		
	60	460 Δ	8.5 Δ	5.3	-390	410	70	NP		
4	50	380-420 Δ / 660-725 Y	11.8 Δ / 6.8 Y	6.3	-350	500	71	IE3	76	2BH20360-1AAQM7-BA
	60	440-480 Δ	12.0 Δ	7.3	-390	510	75	IE3		
	60	460 Δ	12.0 Δ	7.3	-390	510	75	NP		

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.

Motor for alternate voltages

Voltage range		Efficiency ⁴⁾	NEMA Premium	IE3	60 Hz	2BH2...-... □ . □
50 Hz	60Hz					
3~						
200 VΔ	200 V YY / 230 VΔ / 400 VY					
190-210 VΔ	190-210 VYY / 220-240 VΔ / 380-420VY					K 1
200 V YY / 230 VΔ / 400 VY	230 V YY / 460 VY					
190-210 VYY / 220-240 VΔ / 380-420VY	220-240 VYY / 440-480VY					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 shown.



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