



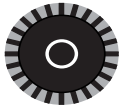
## G-BH2

### Data sheet 2BH2 0360-2

Side channel blower with IE2-motors

IE2

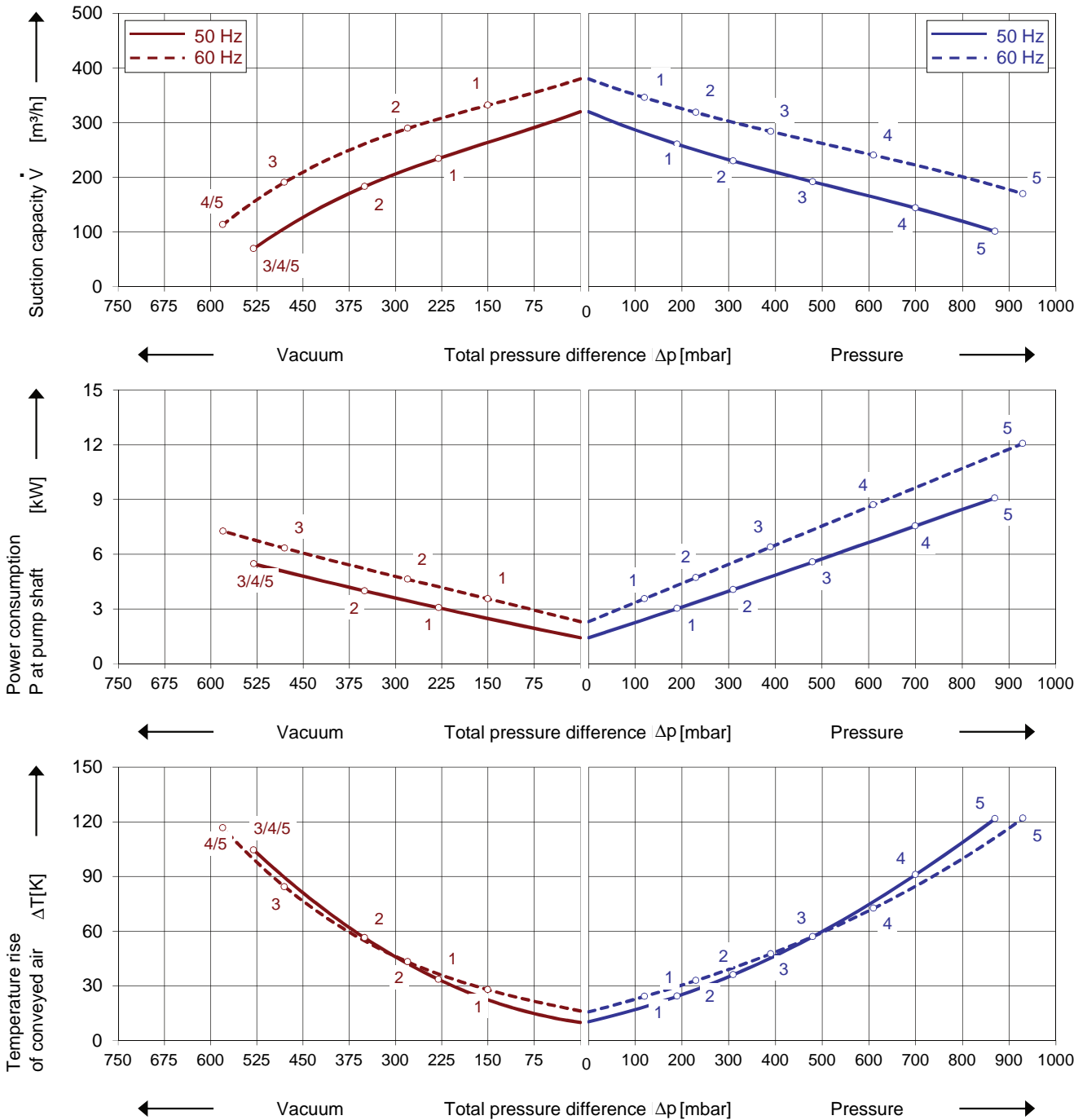
CEC US



#### 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 2BH2 0360-2

No.	Fre- quency	Rated			Max. differential pressure <sup>2)</sup>		Sound pressure level <sup>3)</sup>	Weight Approx.	Order No.
		Voltage <sup>1)</sup>	Current	Power	Vacuum	Pressure			
		Hz	V	A	kW	mbar			
<b>IE2 3~ 50/60 Hz, IP55, Insulation material class F, UL 1450 and CNA/CSA 22.2 No 68-09 (certificate number E225239)</b>									
1	50	230 Δ / 400 Y	10.1 Δ / 5.8 Y	3.0	-230	190	68	78	2BH20360-2AAPK6-AA
	60	265 Δ / 460 Y	9.7 Δ / 5.6 Y	3.45	-150	120	71		
2	50	400 Δ / 690 Y	7.6 Δ / 4.4 Y	4.0	-350	310	69	89	2BH20360-2AAPL7-AA
	60	460 Δ	7.3 Δ	4.55	-280	230	72		
3	50	400 Δ / 690 Y	10.1 Δ / 5.9 Y	5.5	-530	480	70	100	2BH20360-2AAPM7-AA
	60	460 Δ	9.9 Δ	6.3	-480	390	73		
4	50	400 Δ / 690 Y	13.4 Δ / 7.7 Y	7.5	-530	700	70	107	2BH20360-2AAPN7-AA
	60	460 Δ	13.1 Δ	8.6	-580	610	73		
5	50	400 Δ / 690 Y	19.7 Δ / 11.4 Y	11.0	-530	870	72	132	2BH20360-2AAPP7-AA
	60	460 Δ	19.5 Δ	12.6	-580	930	76		
<b>IE2 3~ 50/60 Hz, IP55, Insulation material class F, UL 1450 and CNA/CSA 22.2 No 68-09 (certificate number E225239)</b>									
1	50	500 Δ	4.7 Δ	3.0	-230	190	68	78	2BH20360-2AAPK5-AA
	60	575 Δ	4.5 Δ	3.45	-150	120	71		
2	50	500 Δ	6.0 Δ	4.0	-350	310	69	89	2BH20360-2AAPL5-AA
	60	575 Δ	5.9 Δ	4.55	-280	230	72		
3	50	500 Δ	8.1 Δ	5.5	-530	480	70	100	2BH20360-2AAPM5-AA
	60	575 Δ	7.9 Δ	6.3	-480	390	73		
5	50	500 Δ	15.8 Δ	11.0	-530	870	72	132	2BH20360-2AAPP5-AA
	60	575 Δ	15.6 Δ	12.6	-580	930	76		

- 1) In case of frequency converter operation the standard motor insulation system is suitable for converter input voltages up to 460 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).

All G-BH match the 2006/42/EC (machinery) and 2006/95/EC (low voltage) directives and the EN 60034-1 norm "Rotating electrical machines".

The motors comply with EN 60 034-1 / -2 / -30 (IEC 60034) and thermal class F.

For three phase motors tolerances are +/-10% for fixed voltage motors and +/-5% for voltage range motors. Single phase machines are designed with a +/- 5% tolerance.

The frequency tolerance is +/- 2 % maximum.

## Motor for alternate voltages

Voltage range		Fixed voltage		VFD	<b>US</b>	
50 Hz	60 Hz	50 Hz	60 Hz	87 Hz	60 Hz Δ Y	2BH20360-2AA <input type="checkbox"/> <input type="checkbox"/> -AA
		<b>IE2 3~</b>				
180 - 240 V Δ / 310 - 415 V Y 450 - 550 V Y	200 - 275 V Δ / 345 - 480 V Y 520 - 600 V Y	200 V Δ / 345 V Y 500 V Y	230 V Δ / 400 V Y 575 V Y		• • • • • •	P 1 P 3 P 5 P 6 P 7
450 - 550 V Δ	520 - 600 V Δ	500 V Δ	575 V Δ			
200 - 260 V Δ / 350 - 450 V Y	230 - 290 V Δ / 400 - 500 V Y	230 V Δ / 400 V Y	265 V Δ / 460 V Y	400 V Δ		
350 - 450 V Δ / 610 - 725 V Y	400 - 500 V Δ / 690 - 725 V Y	400 V Δ / 690 V Y	460 V Δ			

Changes in particular of the quoted performance curve, data and weights may occur without prior notice. The data given do not constitute an obligation from our side to deliver as shown.

Elmo Rietschle is a brand of Gardner Denver

**Gardner  
Denver**

Your Ultimate Source for Vacuum and Pressure

**Gardner Denver Deutschland GmbH**

Industriestraße 26  
97616 Bad Neustadt - Germany  
Tel.: +49 9771 6888-0  
Fax: +49 9771 6888-4000

www.gd-elmorietschle.com • er.de@gardnerdenver.com

**Gardner Denver Schopfheim GmbH**

Roggenbachstraße 58  
79650 Schopfheim - Germany  
Tel.: +49 7622 392-0  
Fax: +49 7622 392-300