

G-BH2 e

Data sheet 2BH2 0360-2

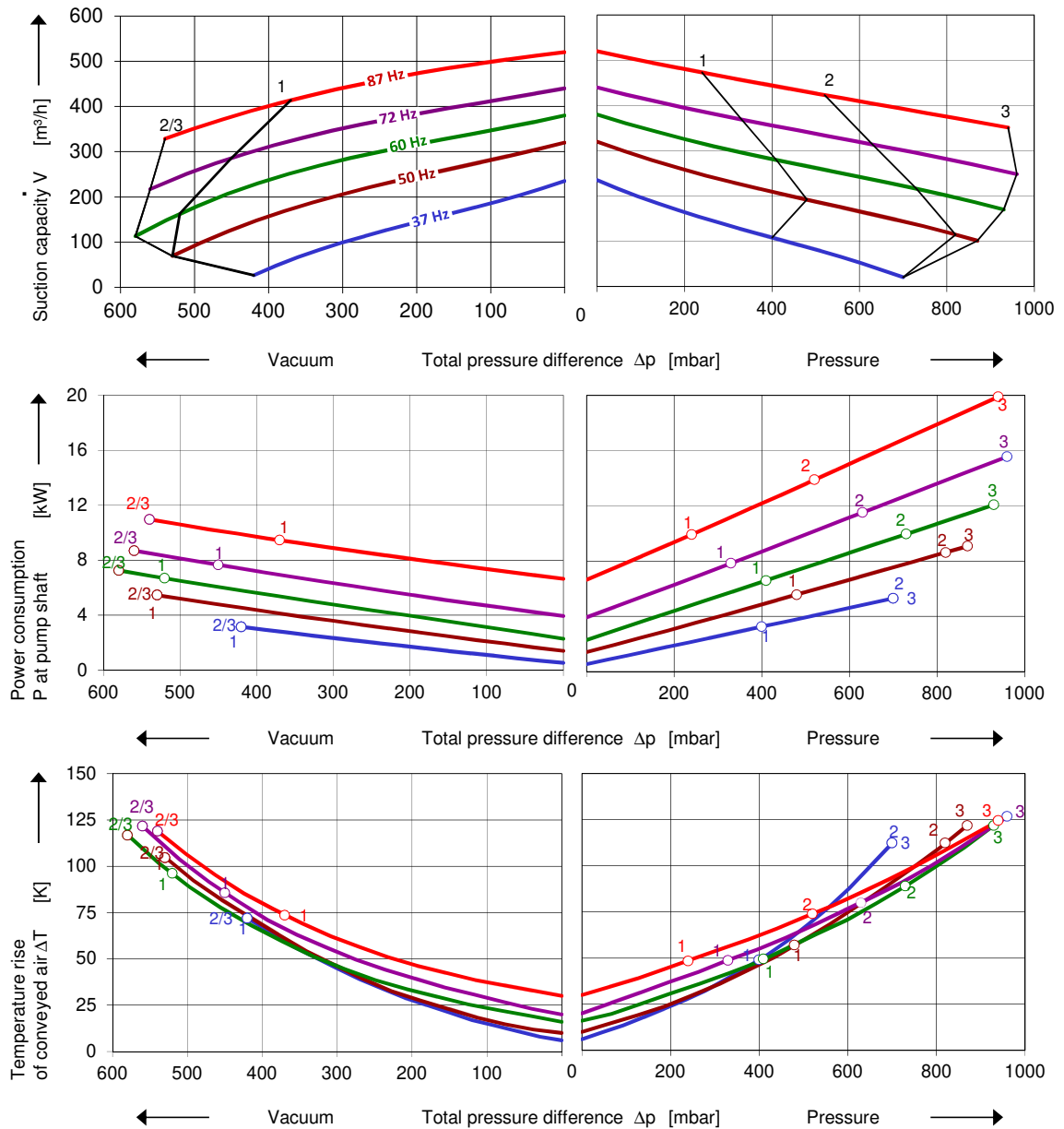
Side channel blower with Frequency Converter



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.

The performance curves are based on frequency converter operation and a pulse frequency of 4 kHz minimum. Rated voltage/frequency set point is 345 V / 87 Hz and delta connection of motor. Frequency converters must be connected to a mains voltage of 380 V minimum.

Selection and ordering data

Type 2BH2 0360-2													
No.	Fre- quency	Rated			Max. differential pressure		Sound pressure level	Weight Approx.	Order No.			VFD type	
		Voltage	Current	Power	Vacuum	Pressure							
		Hz	V	A	kW	mbar ¹⁾			mbar ¹⁾	dB(A) ²⁾	kg		
Integrated VFD 3~ 400V -15% ... 480V +10%, 50/60 Hz ±6% with thermistor (PTC), IP55, UL 1450													
1	84	380 Y	20.3 Y	9.9	-450	260	84	76/78	115	117	2BH20360-2AA3M6-BA	F	
2	85	380 Y	27.4 Y	14.0	-540	520	84	76/78	131	133	2BH20360-2AA3N6-BA	G	
3	85	380 Y	41.0 Y	20.5	-540	940	85	76/78	154	156	2BH20360-2AA3P6-BA	K	
3~ 50/60 Hz, IP55, Insulation material class F, UL 1450 and CAN/CSA C22.2 No. 68-09 (certificate number E225239)													
2	37	-	-	-	-420	420	68	75/76	92	94	2BH20360-2AAKL6-BA ³⁾	F	
	50	-	-	-	-420	370	65						
	60	-	-	-	-360	290	69						
	2	87	400 Δ	14.4 Δ	7.5	-120	60	79	76/78	99	101	2BH20360-2AAKM6-BA ³⁾	G
		37	-	-	-	-420	600	69					
		50	-	-	-	-530	550	65					
	2	60	-	-	-	-580	470	69	76/78	111	113	2BH20360-2AAKN6-BA ³⁾	G
		85	400 Δ	20.4 Δ	10.2	-450	260	84					
		37	-	-	-	-420	700	69					
	3	50	-	-	-	-530	820	65	77/79	130	132	2BH20360-2AAKP6-BA ³⁾	J
		60	-	-	-	-580	730	69					
		85	400 Δ	26.0 Δ	14.0	-540	520	84					
37		-	-	-	-420	700	73						
3	50	-	-	-	-530	870	65	77/79	130	132	2BH20360-2AAKP6-BA ³⁾	J	
	60	-	-	-	-580	930	69						
	85	400 Δ	39.5 Δ	20.5	-540	940	85						

With separately driven fan (order option G17)

- 1) We recommend differential pressure indicators / switches for limiting differential pressure. Relief valves are only useable at defined frequency.
- 2) 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, v
- 3) PTC recommended for motor overload protection. Ordering example: 2BH20360-2□□□□□-Z=A11
- 4) Sound pressure level with G17 dependent on voltage (50Hz / 60Hz)

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

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

The frequency tolerance is +/- 2 % maximum.

Frequency converter (IP55) motor integrated / for wall mounting

Frequency Converter		Rated mains voltage	Max. motor current	Typical motor power	Rated mains current	Fuse Protection	Weight Approx.	Adaptor for wall mounting
Order No.		V	A	kW	A	A	kg	Order No.
A	2FC4152-1 □□ 00	400V (-15%) ... 480V (+10%)	4	2	3	10	4	2FX16190ER00
B	2FC4222-1 □□ 00		6	2	5	10		
C	2FC4302-1 □□ 00		8	3	6	16		
D	2FC4402-1 □□ 00		10	4	8	16	5	2FX16490ER00
E	2FC4552-1 □□ 00		13	6	11	20		
F	2FC4752-1 □□ 00		18	8	15	25		
G	2FC4113-1 □□ 00		28	11	23	35	21	2FX16990ER00
H	2FC4153-1 □□ 00		34	15	28	50		
J	2FC4183-1 □□ 00		40	19	33	50		
K	2FC4223-1 □□ 00		48	22	40	63		

I/O's and automation	Order option	Example:
ST 2 AIN / 2 AOUT / 4 DIGIN / 1 DIGOUT / 2 RELAYS	STANDARD	2BH20360-2AA3M6-BA Z=U51 VFD type 2FC4752-1PB00 to be delivered already installed
PB 2 AIN / 2 AOUT / 4 DIGIN / 1 DIGOUT / 2 RELAYS / ProfiBus interface	Z = U51	
CB 2 AIN / 2 AOUT / 4 DIGIN / 1 DIGOUT / 2 RELAYS / CANopen interface	Z = U52	
PN 2 AIN / 2 AOUT / 4 DIGIN / 1 DIGOUT / 2 RELAYS / ProfiNet interface	Z = U53	
SC 2 AIN / 2 AOUT / 4 DIGIN / 1 DIGOUT / 2 RELAYS / SERCOS3 interface	Z = U54	
EC 2 AIN / 2 AOUT / 4 DIGIN / 1 DIGOUT / 2 RELAYS, with EtherCAT-Interface	Z = U56	

VFD accessories

Item	Order No.	Item	Order No.
Manual control		Differential pressure transmitters	
MMI handheld	2FX4520-0ER00	Vacuum -1000 ... 0 mbar	2FX6022-0BD00
USB adaptor cable	2FX4521-0ER00	Pressure 0 ... 600 mbar	2FX6013-0BD00
		0 ... 1000 mbar	2FX6014-0BD00
INVERTERpc Software			
Free download at www.gd-elmorietschle.com >Downloads >frequency-converters >Miscellaneous >Software			

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



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