

G-BH2 e Data sheet 2BH2 0360-1

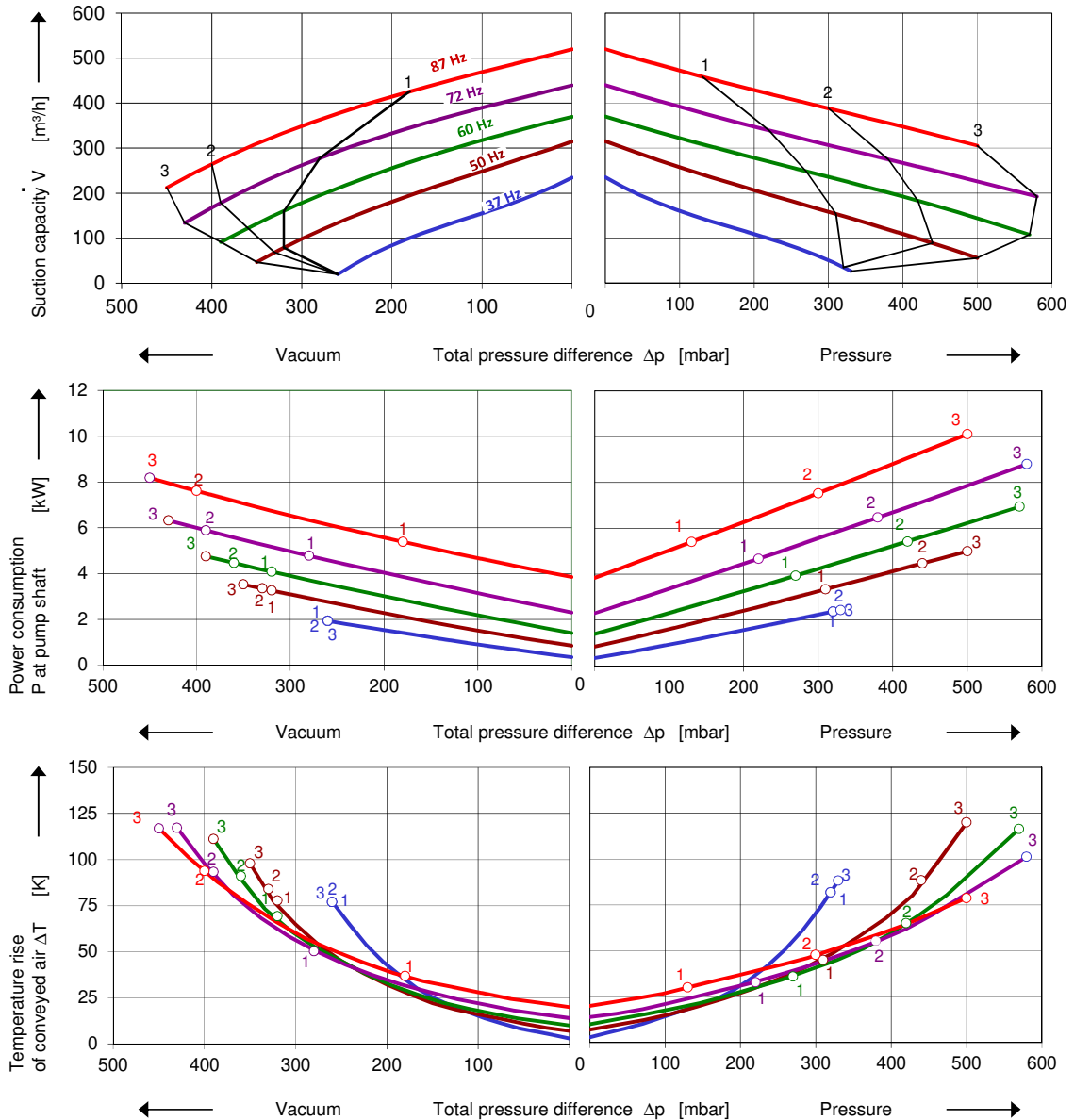
Side channel blower with Frequency Converter



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 0360-1												
No.	Frequency	Rated			Max. differential pressure		Sound pressure level	Weight Approx.	Order No.			VFD type
		Voltage	Current	Power	Vacuum	Pressure						
		Hz	V	A	kW	mbar ¹⁾	dB(A) ²⁾	kg				
Integrated VFD 3~ 400V -15% ... 480V +10%, 50/60 Hz ±6% with thermistor (PTC), IP55, UL 1450												
1	87	380 Y	11.5 Y	5.8	-180	130	78	75/76	61	63	2BH20360-1AA3K6-BA	E
2	85	380 Y	14.9 Y	7.5	-400	300	78	75/76	76	78	2BH20360-1AA3L6-BA	F
3	85	380 Y	20.3 Y	10.2	-450	500	84	75/76	86	88	2BH20360-1AA3M6-BA	G
3~ 50/60 Hz, IP55, Insulation material class F, UL 1450 and CAN/CSA C22.2 No. 68-09 (certificate number E225239)												
	37	-	-	-	-250	240	54	75/76	56	58	2BH20360-1AAKJ6-BA ³⁾	D
	50	-	-	-	-230	210	64					
	60	-	-	-	-200	170	67					
1	72	330 Δ	8.8 Δ	3.5	-150	120	64	75/76	61	63	2BH20360-1AAKK6-BA ³⁾	E
	37	-	-	-	-260	320	66					
	50	-	-	-	-320	310	64					
2	60	-	-	-	-320	270	67	75/76	68	70	2BH20360-1AAKL6-BA ³⁾	F
	87	400 Δ	11.0 Δ	5.8	-180	130	81					
	37	-	-	-	-260	320	66					
3	50	-	-	-	-330	440	64	75/76	76	78	2BH20360-1AAKM6-BA ³⁾	G
	60	-	-	-	-360	420	67					
	87	400 Δ	14.4 Δ	7.5	-400	300	78					
	37	-	-	-	-260	330	68	75/77	76	78	2BH20360-1AAKM6-BA ³⁾	G
	50	-	-	-	-350	500	64					
	60	-	-	-	-390	570	67					
	85	400 Δ	20.4 Δ	10.2	-450	500	84					

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, with pipi
- 3) PTC recommended for motor overload protection. Ordering example: 2BH20360-1 □□□□-□□-□ 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.	Order No.								
A	2FC4152-1 □□ 00	400V (-15%) ... 480V (+10%)	4	2	3	10	4	2FX16190ER00	
B	2FC4222-1 □□ 00		6	2	5	10	5		
C	2FC4302-1 □□ 00		8	3	6	16			
D	2FC4402-1 □□ 00		10	4	8	16		9	
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		
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	2BH20360-1AA3K6-BA Z=U51 VFD type 2FC4552-1PB00 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 shown.



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