

G-BH2 e

Data sheet 2BH2 0540-2

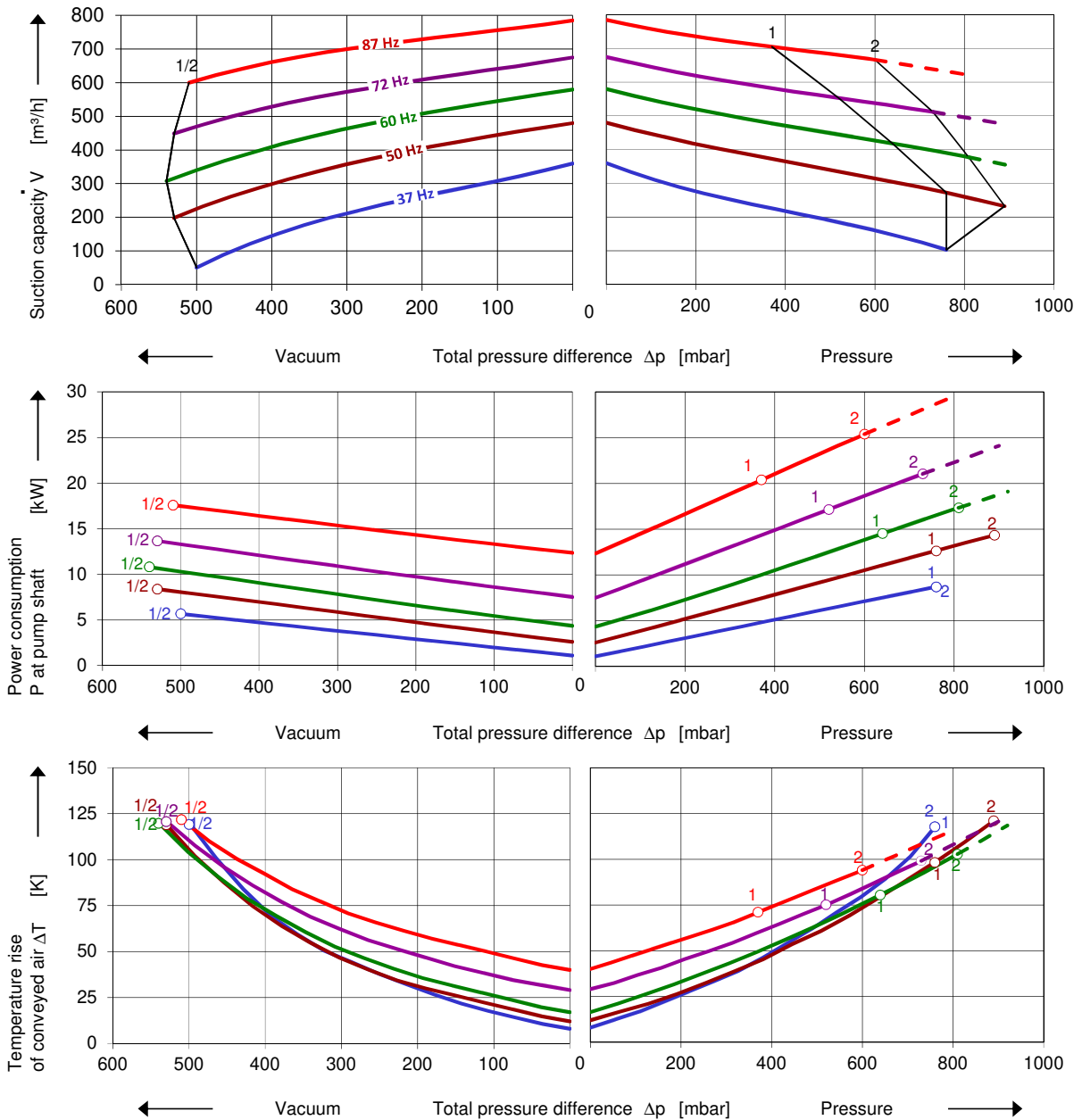
Side channel blower with Frequency Converter



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 ± 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 0540-2												
No.	Fre- quency	Rated			Max. differential pressure		Sound pressure level	Weight Approx.	Order No.			VFD type
		Voltage	Current	Power	Vacuum	Pressure						
Integrated VFD 3~ 400V -15% ... 480V +10%, 50/60 Hz ±6% with thermistor (PTC), IP55, UL 1450												
1	85	380 Y	41.0 Y	20.5	-510	370	84	79/80	176	178	2BH20540-2AA3P6-BA	K
2	85	380 Y	48.0 Y	25.0	-510	600	84	79/80	186	188	2BH20540-2AA3Q6-BA	K
3~ 50/60 Hz, IP55, Insulation material class F, UL 1450 and CAN/CSA C22.2 No. 68-09 (certificate number E225239)												
1	37	-	-	-	-500	520	69	79/80	132	134	2BH20540-2AAKN6-BA ³⁾	G
	50	-	-	-	-530	450	70					
	60	-	-	-	-460	350	75					
	85	400 Δ	26.0 Δ	14.0	-160	80	84					
	37	-	-	-	-500	760	69	79/80	152	154	2BH20540-2AAKP6-BA ³⁾	J
	50	-	-	-	-530	760	70					
	60	-	-	-	-540	640	75					
	85	400 Δ	39.5 Δ	20.5	-510	370	84					
1	37	-	-	-	-500	760	69	79/80	161	163	2BH20540-2AAKQ6-BA ³⁾	G
	50	-	-	-	-530	890	70					
	60	-	-	-	-540	920	75					
	85	400 Δ	53.7 Δ	28.2	-510	800	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 p
- 3) PTC recommended for motor overload protection. Ordering example: 2BH20540-2 □□□□□□-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	2FC4152-1 □□ 00	400V (-15%) ... 480V (+10%)	4	2	3	10	4	2FX16190ER00
B	2FC4222-1 □□ 00		6	2	5	10	5	2FX16490ER00
C	2FC4302-1 □□ 00		8	3	6	16		
D	2FC4402-1 □□ 00		10	4	8	16		
E	2FC4552-1 □□ 00		13	6	11	20	9	2FX16690ER00
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	2BH20540-2AA3P6-BA Z=U51 VFD type 2FC4223-1PB00 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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