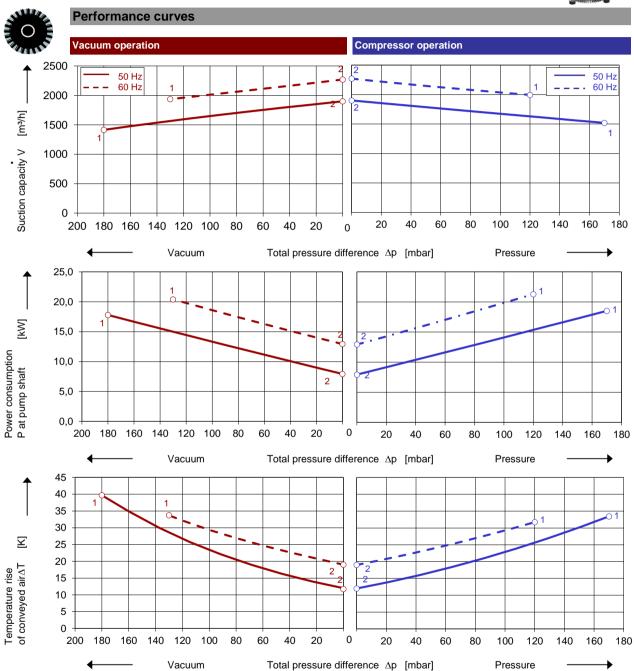


G-BH1 N Data sheet 2BH1 943

Side channel blower in ATEX configuration







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. Blowers with 2014/34/EU (ATEX Directive) are available for categories 3GD and 3/2D as fixed voltage machines for 50 and 60 Hz. For category 3/2G 50 Hz or 60 Hz versions only are available.

Selection and ordering data													
Type 2BH1 943													
No.	Fre-	Rated			Max. differential pressure		Sound	Weight	Degree	ATEX category	Order No.		
	quency						pressure	Approx.	of pro-				
		Voltage	Current	Power	Vacuum	Pressure	level		tection	ection	Order No.		
	Hz	V	Α	kW	m	bar	dB(A)	kg					
IE3 3~ 50/60 Hz, Insulation material class F, Temperature class T3 3GD, 3/2D													
	50	400 Δ / 690 Y	32,0 Δ / 18,6 Y	18,5	-180	170	73		IP55	3/2D ²⁾	2BH1943-1GD36-Z Z=M34		
1	60	460 Δ	32,0 Δ	21,3	-130	120	73	342	11 33	3/20	2BH1943-1GD30-2 Z=W34		
	50	400 Δ / 690 Y	32,0 A / 18,6 Y	18,5	-180	170	73	342	IP55	3GD ²⁾	2BH1943-1GD36-Z Z=M74		
	60	460 Δ	32,0 Δ	21,3	-130	120	73						
IE3 3~ 50 Hz oder 3~ 60 Hz, Insulation material class F, Temperature class T3 3/2G													
2	50							on	IP55	3/2G ²⁾	2BH1943-1GD31-Z Z=M71		
	60							request		3/20	2BH1943-1GG31-Z Z=M71		

- 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).
- The abbreviations "D" and "G" used include the subcategories (i) for "inside" and (o) for "outside". Examples: 3GD includes 3D(i) and 3D(o), 3/2D includes 3D(i) and 2D(o), 3/2G includes 3G(i) and 2G(o)

All G-BH comply with the directives 2006/42/EC (machinery) and 2014/34/EU (ATEX directive) as well as the standards EN 60079-0 EN (potentially explosive atmospheres: explosion protection).

areas: General requirements), EN 60079-7 EN (Explosive atmospheres: Equipment protection by increased safety "e") and ISO 80079-36 (Explosive atmospheres: Non-electrical equipment for use in potentially explosive atmospheres- Basic principles and requirements).

The motors are designed according to thermal class F in efficiency class IE3. The voltage tolerance is designed according to the above mentioned standards. The frequency tolerance is max. +/- 2 %.

Other Voltages [V]											
ATEX-category	50 Hz	60 Hz	2BH11. 🗆 .	<u> </u>	Z Z=						
3~											
3/2D, 3GD	230 Δ / 400 Y 400 Δ / 690 Y 500 Δ	460 Y 460 Δ 575 Δ	D D	1 6 5	M34, M74						
3/2G	230 Δ / 400 Y 400 Δ / 690 Y 500 Δ - -	- - - 460 Υ 460 Δ 575 Δ	D D G G	1 6 5 1 6 5	M71 on request						

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 o



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Print date: 5.11.2020