

# G-BH 7 N

## Data sheet 2BH7 520

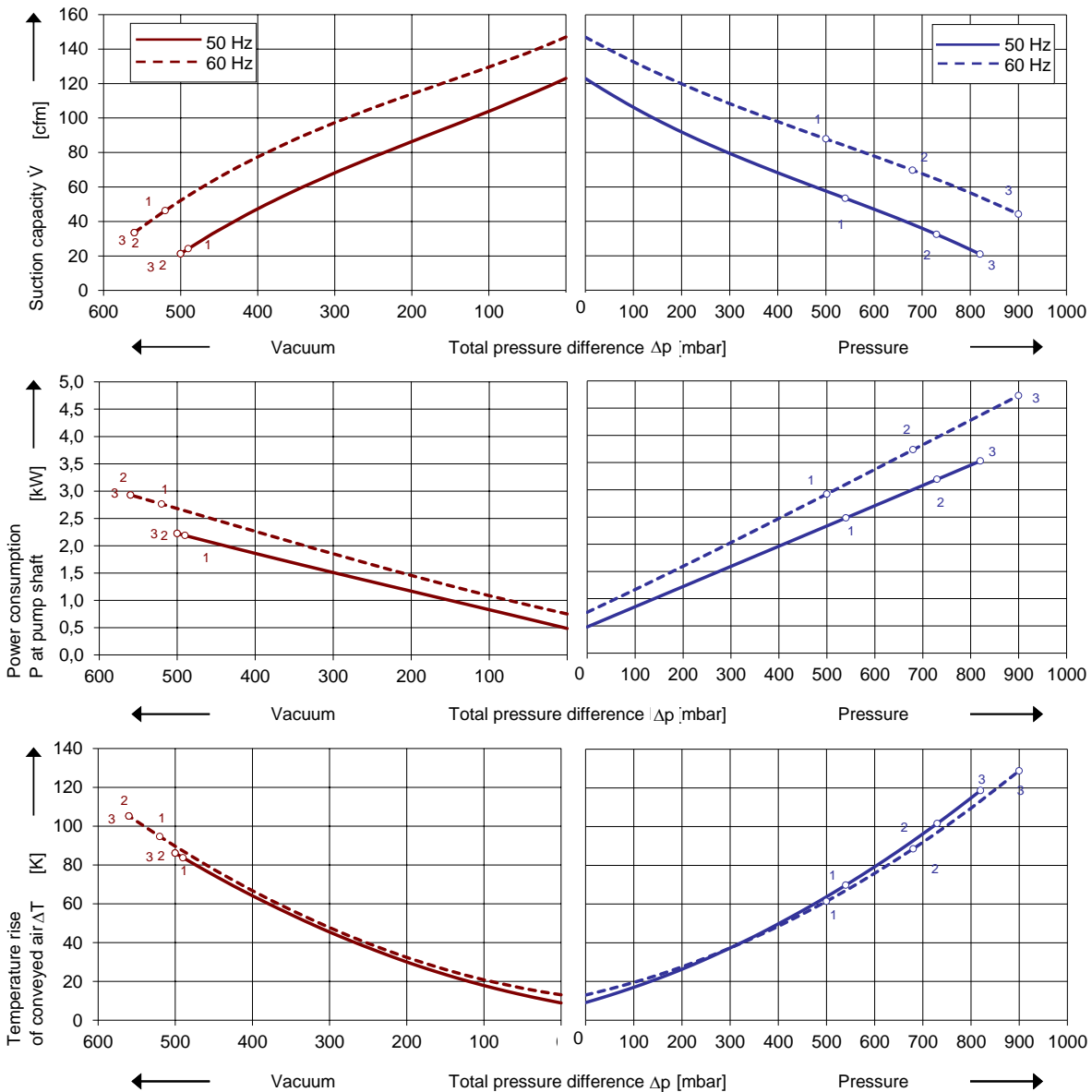
Side channel blower with IE3-motors



### 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 2BH7 520

No.	Frequency Hz	Rated			Max. differential pressure <sup>2)</sup>		Sound pressure level <sup>3)</sup> dB(A)	Efficiency <sup>4)</sup> 0	Weight Approx. kg	Order No.
		Voltage <sup>1)</sup> V	Current A	Power kW	Vacuum mbar	Pressure				
<b>IE3 3~ 50/60 Hz, IP55, Insulation material class F, UL 1450 and CAN/CSA C22.2 No. 68-09 (certificate number E225239)</b>										
1	50	190-210 Δ	9,9 Δ	2,5	-490	540	64	IE3	50	2BH7520-0AK21-1
	60	190-210 YY / 380-420 Y	12,0 YY / 6,0 Y	3,0	-520	500	68	IE3		
	60	200 YY	12,0 YY	3,0	-520	500	68	NP		
2	50	190-210 Δ	13,3 Δ	3,5	-500	730	67	IE3	54	2BH7520-0AK51-1
	60	190-210 YY / 380-420 Y	15,2 YY / 7,6 Y	4,0	-560	680	73	IE3		
	60	200 YY	15,2 YY	4,0	-560	680	73	NP		
3	50	190-210 Δ	17,1 Δ	4,6	-500	820	65	IE3	61	2BH7520-0AK71-1
	60	190-210 YY / 380-420 Y	19,6 YY / 9,8 Y	5,3	-560	900	70	IE3		
	60	200 YY	19,6 YY	5,3	-560	900	70	NP		
<b>IE3 3~ 50/60 Hz, IP55, Insulation material class F, UL 1450 and CAN/CSA C22.2 No. 68-09 (certificate number E225239)</b>										
1	50	220-240 Δ / 380-420 Y	8,6 Δ / 5,0 Y	2,5	-490	540	64	IE3	50	2BH7520-0AK26-1
	60	220-240 YY / 440-480 Y	10,4 YY / 5,2 Y	3,0	-520	500	68	IE3		
	60	230 YY / 460 Y	10,4 YY / 5,2 Y	3,0	-520	500	68	NP		
2	50	220-240 Δ / 380-420 Y	11,6 Δ / 6,7 Y	3,5	-500	730	67	IE3	54	2BH7520-0AK56-1
	60	220-240 YY / 440-480 Y	13,2 YY / 6,6 Y	4,0	-560	680	73	IE3		
	60	230 YY / 460 Y	13,2 YY / 6,6 Y	4,0	-560	680	73	NP		
3	50	220-240 Δ / 380-420 Y	14,9 Δ / 8,6 Y	4,6	-500	820	65	IE3	61	2BH7520-0AK76-1
	60	220-240 YY / 440-480 Y	17,0 YY / 8,5 Y	5,3	-560	900	70	IE3		
	60	230 YY / 460 Y	17,0 YY / 8,5 Y	5,3	-560	900	70	NP		
<b>IE3 3~ 50/60 Hz, IP55, Insulation material class F, UL 1450 and CAN/CSA C22.2 No. 68-09 (certificate number E225239)</b>										
1	50	500 Y	4,0 Y	2,5	-490	540	64	IE3	50	2BH7520-0AQ23-1
	60	575 Y	4,1 Y	3,0	-520	500	68	NP		
2	50	500 Y	5,4 Y	3,5	-500	730	67	IE3	54	2BH7520-0AQ53-1
	60	575 Y	5,3 Y	4,0	-560	680	73	NP		
3	50	500 Y	6,9 Y	4,6	-500	820	65	IE3	61	2BH7520-0AQ73-1
	60	575 Y	6,8 Y	5,3	-560	900	70	NP		
<b>IE3 3~ 50/60 Hz, IP55, Insulation material class F, UL 1450 and CAN/CSA C22.2 No. 68-09 (certificate number E225239)</b>										
1	50	/					64		50	2BH7520-0AQ26-1
	60						68			
	60						68			
2	50	/					67		54	2BH7520-0AQ56-1
	60						73			
	60						73			
3	50	/					65		61	2BH7520-0AQ76-1
	60						70			
	60						70			
<b>IE3 3~ 50/60 Hz, IP55, Insulation material class F, UL 1450 and CAN/CSA C22.2 No. 68-09 (certificate number E225239)</b>										
1	50	380-420 Δ /	5,0 Δ /	2,5	-490	540	64	IE3	50	2BH7520-0AQ27-1
	60			3,0	-520	500	68	IE3		
	60	460 Δ		3,0	-520	500	68	NP		
2	50	380-420 Δ /	6,7 Δ /	3,5	-500	730	67	IE3	54	2BH7520-0AQ57-1
	60			4,0	-560	680	73	IE3		
	60	460 Δ		4,0	-560	680	73	NP		
3	50	380-420 Δ / 690 Y	8,6 Δ / ### U	4,6	-500	820	65	IE3	61	2BH7520-0AQ77-1
	60			5,3	-560	900	70	IE3		
	60	460 Δ		5,3	-560	900	70	NP		

1) In case of frequency converter operation the standard motor insulation system is suitable for converter input voltages up to 500 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).










4) The motors according to NEMA MG1-12. NP=NEMA Premium; NEMA Premium includes IE3.

All G-BH match the 2006/42/EC (machinery) and 2014/35/EU (low voltage) directives and the EN 60034 norm "Rotating electrical machines".

Service factor (SF) and motor efficiency according NEMA MG1-12.

Voltage tolerances for three phase motors are +/-10%.

The frequency tolerance is +/- 2 % maximum.

Motor for alternate voltages						
		Efficiency <sup>4)</sup>				
50 Hz	60Hz		60 Hz	2BH7....	□ . □	-1
<b>3~</b>						
200 VD	200 V YY / 230 VD / 400 VY		•		K	1
190-210 VD	190-210 $\zeta\Psi\Psi$ / 220-240 $\zeta\Delta$ / 380-420 $\zeta\Psi$		•		K	6
200 V YY / 230 VD / 400 VY	230 V YY / 460 VY		•		K	6
190-210 VYY / 220-240 VD / 380-420VY	220-240 VYY / 440-480VY		•		K	6
475-525 V Y	550-600 V Y		•		Q	3
475-525 VD	550-600 VD		•		Q	5
220-240 VD / 380-420 V Y	440-480 V Y		•		Q	6
400 VD / 690 V Y	460 VD		•		Q	7

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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