



Elmo Rietschle

G-BH 1 N Data sheet 2BH7 210

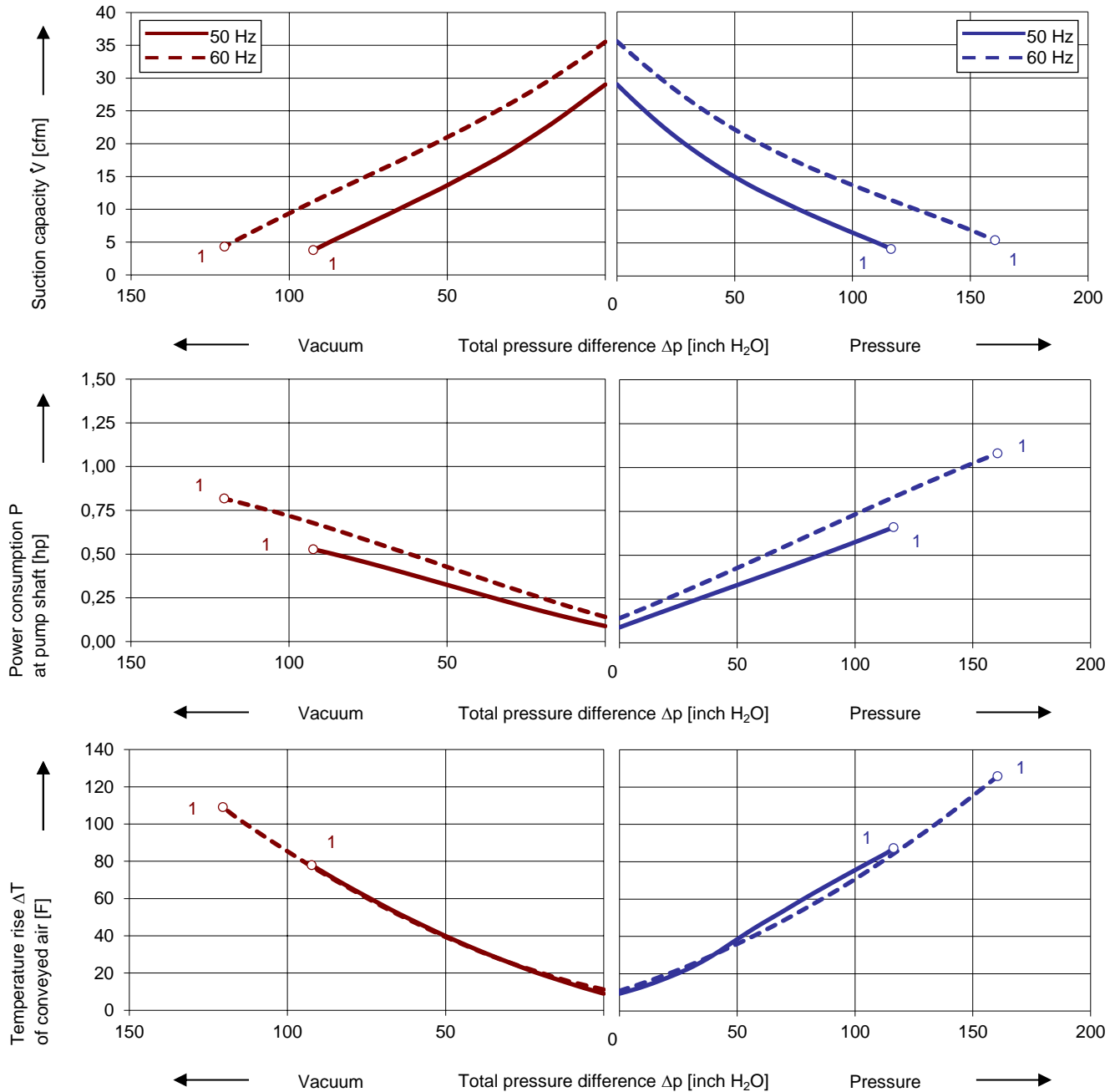
Side channel blower with NEMA Premium motor



Performance curves

Vacuum operation (acfm)

Pressure operation (scfm)



The performance curves are based on air at a temperature of 59 F and an atmospheric pressure of 29.92 inch Hg with a tolerance of $\pm 10\%$. The total Suction capacity relates to inlet conditions. Pressure capacity relates to atmospheric conditions. For other conditions please contact Elmo Rietschle.

Every G-BH blower can be used either for vacuum or pressure in continuous operation over the total performance curve range. The standard motors have a protection category of IP 55 and insulation class F. These blowers are UL and CSA approved.

Selection and ordering data

| Type | | | | | | | | | | |
|--|----------------------|------------------------|-----------------|-------|---|----------|---|-----------------------------------|--------------------------|-----------------|
| No. | Fre- quency Hz | Rated | | | Max. differential ²⁾ pressure | | sound press. level ³⁾ dB(A) | Efficiency class ⁴⁾ | Weight approx. lbs | Order No. |
| | | Voltage ¹⁾ | Current | Power | Vacuum | Pressure | | | | |
| | | V | A | hp | inch H ₂ O | | | | | |
| IE3 3~ 50/60 Hz, IP55, Insulation material class F, UL (certificate number E489378) | | | | | | | | | | |
| 1 | 50 | 190-210 Δ | 4,15 Δ | 1,3 | -92 | 116 | 57 | IE3 | 46 | 2BH7210-0AK31-1 |
| | 60 | 190-210 YY / 380-420 Y | 4,8 YY / 2,4 Y | 1,5 | -120 | 161 | 62 | IE3 | | |
| | 60 | 200 YY | 4,8 YY | 1,5 | -120 | 161 | 62 | NP | | |
| IE3 3~ 50/60 Hz, IP55, Insulation material class F, UL (certificate number E489378) | | | | | | | | | | |
| 1 | 50 | 220-240 Δ / 380-420 Y | 3,65 Δ / 2,10 Y | 1,3 | -92 | 116 | 57 | IE3 | 46 | 2BH7210-0AK36-1 |
| | 60 | 220-240 YY / 440-480 Y | 4,2 YY / 2,1 Y | 1,5 | -120 | 161 | 62 | IE3 | | |
| | 60 | 230 YY / 460 Y | 4,2 YY / 2,1 Y | 1,5 | -120 | 161 | 62 | NP | | |
| IE3 3~ 50/60 Hz, IP55, Insulation material class F, UL (certificate number E489378) | | | | | | | | | | |
| 1 | 50 | 500 Y | 1,68 Y | 1,3 | -92 | 116 | 57 | IE3 | 46 | 2BH7210-0AQ33-1 |
| | 60 | 575 Y | 1,68 Y | 1,5 | -120 | 161 | 62 | NP | | |
| IE3 3~ 50/60 Hz, IP55, Insulation material class F, UL (certificate number E489378) | | | | | | | | | | |
| 1 | 50 | 380-420 Δ / 660-725 Y | 2,10 Δ / 1,21 Y | 1,3 | -92 | 116 | 57 | IE3 | 46 | 2BH7210-0AQ37-1 |
| | 60 | 440-480 Δ | 2,10 Δ | 1,5 | -120 | 161 | 62 | IE3 | | |
| | 60 | 460 Δ | 2,10 Δ | 1,5 | -120 | 161 | 62 | NP | | |

2) Relief valves available for limiting differential pressure.

3) Surface sound pressure levels are according 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 blowers conform to the 2006/42/EC (machinery) and 2006/95/EC (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

| Voltage range | | Efficiency ⁴⁾ | cFL us | 60 Hz | |
|--------------------------------------|--------------------------------------|-----------------------------|--------|-------|-------------------|
| 50 Hz | 60Hz | | | 60 Hz | 2BH7....- . □ . □ |
| 3~ | | | | | |
| 200 VΔ | 200 V YY / 230 VΔ / 400 VY | NEMA Premium | • | K | 1 |
| 190-210 VΔ | 190-210 VYY / 220-240 VΔ / 380-420VY | IE3 | • | K | 6 |
| 200 V YY / 230 VΔ / 400 VY | 230 V YY / 460 VY | NEMA Premium | • | K | 6 |
| 190-210 VYY / 220-240 VΔ / 380-420VY | 220-240 VYY / 440-480VY | IE3 | • | K | 6 |
| 475-525 V Y | 550-600 V Y | NEMA Premium | • | Q | 3 |
| 475-525 VΔ | 550-600 VΔ | NEMA Premium | • | Q | 5 |
| 400 VΔ / 690 V Y | 460 VΔ | NEMA Premium | • | 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.

Elmo Rietschle is a brand of Gardner Denver

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