

L-BL2 N

Data sheet 2BL2 281

Compact circuit vacuum pump

IE3


General information

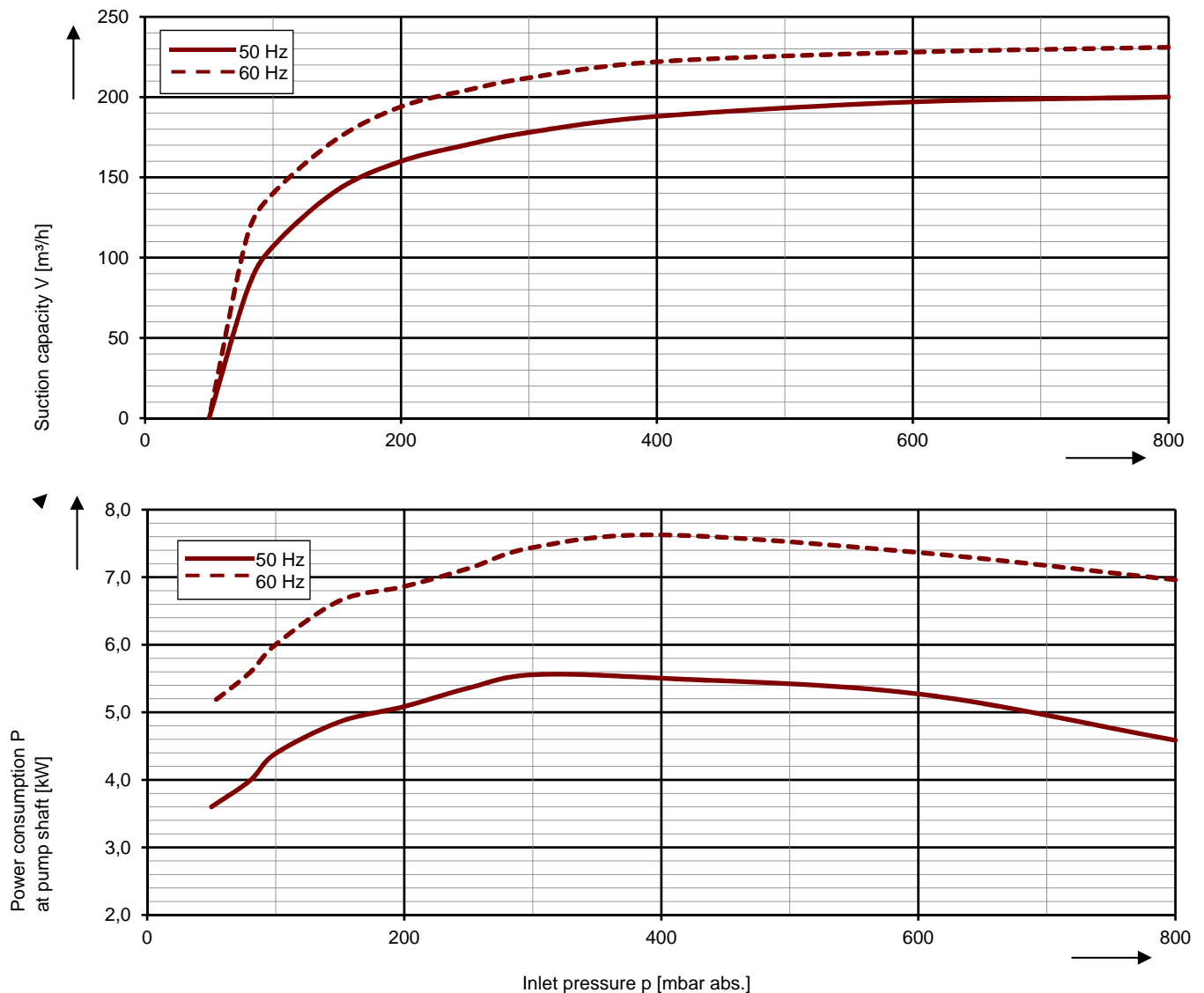
Elmo Rietschle vacuum pumps of the model range L-BL2 are Also known as the Elmo Rietschle "Pump in a Box", these portable units are oil free and air cooled. They include an L-BV liquid ring pump, industrial electric motor, discharge separator, seal water cooler and discharge air cooler. To install – simply connect the suction line and motor and fill the water tank – it's ready to go!

Maintenance and wear are minimal thanks to contact free compression and a built-in discharge air cooler. Additional features include: quiet operation, continuous duty design and suitability for humid environments.



Performance curves

Vacuum operation



The characteristic curves are based on the evacuation of dry air and an intake temperature of 20 °C. At a suction pressure of 1013 mbar abs. (water as operating liquid) the characteristic curves will be achieved. The tolerance is ± 10 %.

The motors are supplied as standard for the input voltage ranges of 50 and 60 Hz and for the protection category IP55.

Selection and ordering data

Typ 2BL2 281

Fre- quency	Rated			Service factor	Efficiency	Sound pressure level 2)	Weight Approx.	Order No.
	Voltage	Current	Power					
Hz	V	A	kW	SF	-	dB(A)	kg	
3- 50/60 Hz, IP55, Insulation material class F								
50	190-210 Δ	29,9 Δ	5,5	1,36	IE3	73	228 *	2BL2281-0 □ K03-1B
60	190-210 YY / 380-420 Y	33,0 YY / 16,5 Y	7,2	1,19	IE3	78	225 **	
	200 YY	28,5 YY	7,2	1,19	NP	78		
3- 50/60 Hz, IP55, Insulation material class F								
50	220-240 Δ / 380-420 Y	25,0 Δ / 15,0 Y	5,5	1,36	IE3	73	228 *	2BL2281-0 □ K03-6B
60	220-240 YY / 440-480 Y	28,5 YY / 14,3 Y	7,2	1,19	IE3	78	225 **	
	230 YY / 460 Y	25,0 YY / 12,4 Y	7,2	1,19	NP	78		
3- 50/60 Hz, IP55, Insulation material class F								
50	500 Y	11,4 Y	5,5	1,36	IE3	73	228 *	2BL2281-0 □ Q03-3B
60	575 Y	9,9 Y	7,2	1,20	NP	78	225 **	
3- 50/60 Hz, IP55, Insulation material class F								
50	380-420 Δ / 660-725 Y	14,8 Δ / 8,5 Y	5,5	1,36	IE3	73	228 *	2BL2281-0 □ Q03-7B
60	440-480 Δ	14,3 Δ	7,2	1,19	IE3	78	225 **	
	460 Δ	12,4 Δ	7,2	1,20	NP	78		

Materials

Cast iron (internal surface with ceramic coating)	K *
Non-cast-iron version	R
Partially stainless steel version	B
CrNi steel	H **

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 piping connected, but no relief valves fitted, tolerance ±3 dB (A).

Other voltages

Voltage range		Efficiency	c US	Order No.	
50 Hz	60Hz			60 Hz	2BL2...-... □ ..- □
3-					
200 VΔ	200 V YY / 230 VΔ / 400 VY	IE3	•	K	1
190-210 VΔ	190-210 VYY / 220-240 VΔ / 380-420VY				6
200 V YY / 230 VΔ / 400 VY	230 V YY / 460 VY	IE3	•	K	3
190-210 VYY / 220-240 VΔ / 380-420VY	220-240 VYY / 440-480VY				5
475-525 V Y	550-600 V Y	IE3	•	Q	7
475-525 VΔ	550-600 VΔ				5
400 VΔ / 690 V Y	460 VΔ				7

All L-BL2 fulfil the 2006/42/EC (machinery) and 2006/95/EC (low voltage) directives and the EN 60034-1 norm "Rotating electrical machines". The motors comply with EN 60 034-1 / -2 / -30 (IEC 60034) and thermal class F. Voltage tolerances for three phase motors are +/-10%. The frequency tolerance is +/- 2 % maximum.