

# L-BL2 N

## Data sheet 2BL2 041

### Compact circuit vacuum pump

**IE3**


#### General information

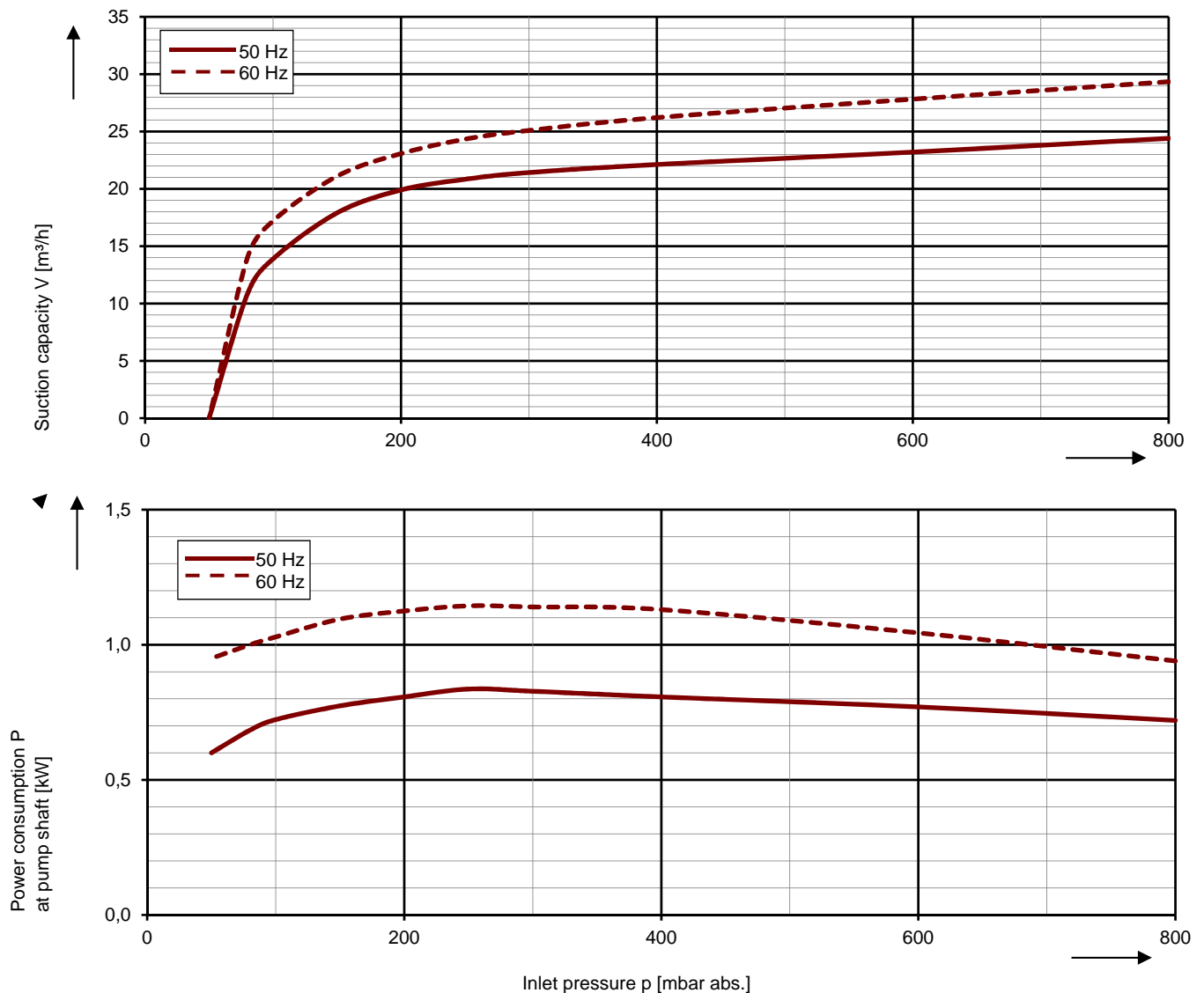
Elmo Rietschle vacuum pumps of the model range L-BL2 are Also known as the Elmo Rietschle "Pump in a Box", these portable units are oil free and air cooled. They include an L-BV liquid ring pump, industrial electric motor, discharge separator, seal water cooler and discharge air cooler. To install – 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 041

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	
<b>3- 50/60 Hz, IP55, Insulation material class F</b>								
50	190-210 Δ	4,7 Δ	0,85	1,29	IE3	65	40	2BL2041-2 □ K50-1B
60	190-210 YY / 380-480 Y	5,40 YY / 2,70 Y	1,15	1,10	IE3	69		
	200 YY	4,60 YY	1,15	1,04	NP	69		
<b>3- 50/60 Hz, IP55, Insulation material class F</b>								
50	220-240 Δ / 380-420 Y	4,5 Δ / 2,6 Y	0,85	1,29	IE3	65	40	2BL2041-2 □ K50-6B
60	220-240 YY / 440-480 Y	4,9 YY / 2,45 Y	1,15	1,10	IE3	69		
	230 YY / 460 Y	3,95 YY / 1,98 Y	1,15	1,10	NP	69		
<b>3- 50/60 Hz, IP55, Insulation material class F</b>								
50	500 Y	1,82 Y	0,85	1,29	IE3	65	40	2BL2041-2 □ Q50-3B
60	575 Y	1,58 Y	1,15	1,04	NP	69		
<b>3- 50/60 Hz, IP55, Insulation material class F</b>								
50	380-420 Δ / 660-725 Y	2,35 Δ / 1,36 Y	0,85	1,29	IE3	65	40	2BL2041-2 □ Q50-7B
60	440-480 Δ	2,35 Δ	1,15	1,10	IE3	69		
	460 Δ	1,98 Δ	1,15	1,04	NP	69		

### Materials

**Cast iron (internal surface with ceramic coating)**

**A**

- 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	60 Hz	
50 Hz	60Hz			2BL2...-... □ ... □	
<b>3-</b>					
200 VΔ	200 V YY / 230 VΔ / 400 VY		•	K	1
190-210 VΔ	190-210 VYY / 220-240 VΔ / 380-420VY		•	K	6
200 V YY / 230 VΔ / 400 VY	230 V YY / 460 VY		•	K	6
190-210 VYY / 220-240 VΔ / 380-420VY	220-240 VYY / 440-480VY		•	K	6
475-525 V Y	550-600 V Y		•	Q	3
475-525 VΔ	550-600 VΔ		•	Q	5
400 VΔ / 690 V Y	460 VΔ		•	Q	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.