

### Data sheet 2RB 840

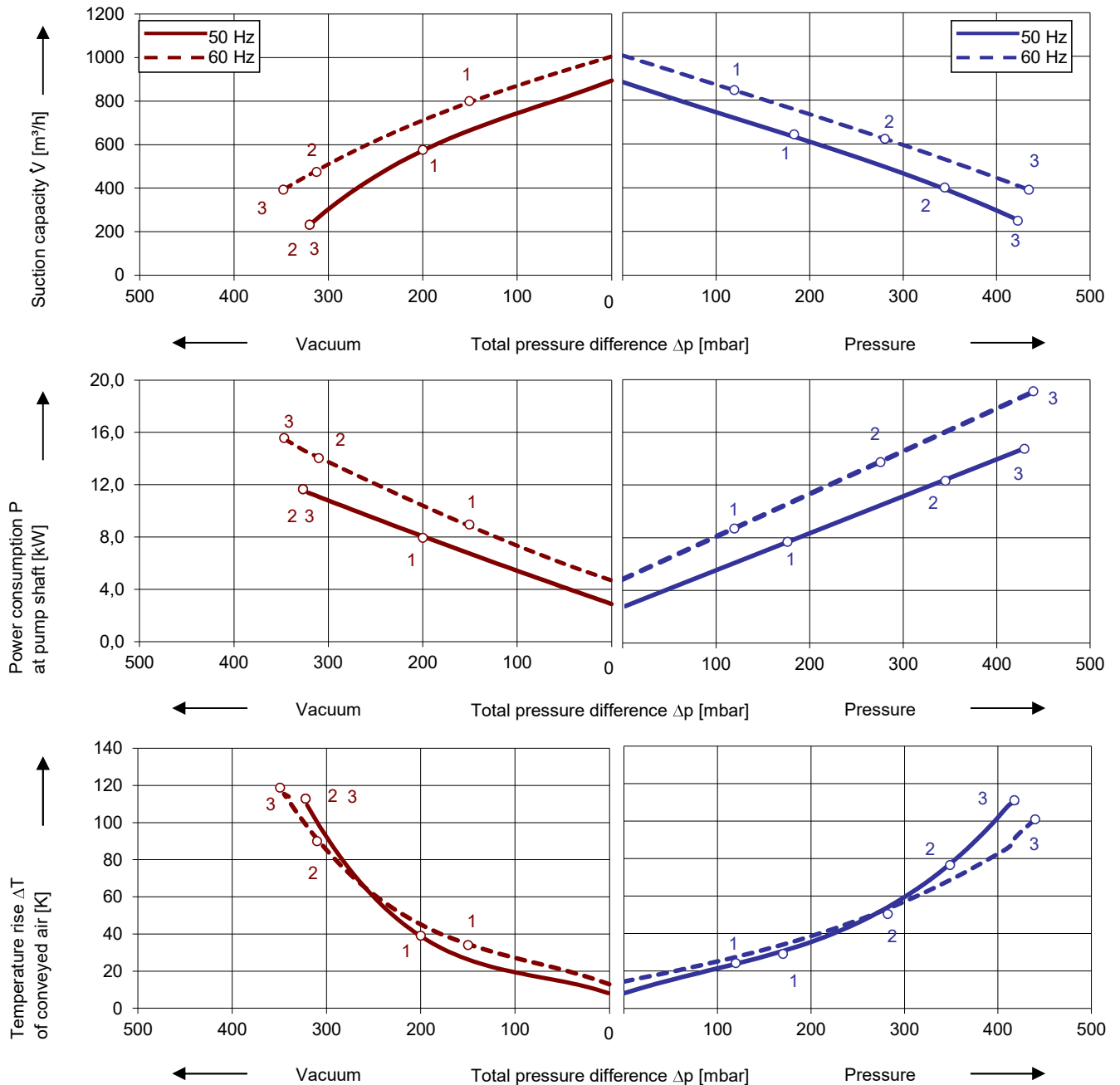
### Side channel blower with IE3-motors



#### 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.

All Greenco blowers 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.

## Selection and ordering data

### Type 2RB 840

No.	Fre- quency Hz	Rated			Max. differential pressure <sup>2)</sup>		Sound pres. Level <sup>3)</sup> dB(A)	Efficiency class <sup>4)</sup>	Weight approx. kg	Order No.
		Voltage <sup>1)</sup>	Current	Power	Vacuum	Pressure				
		V	A	kW	mbar					
<b>IE3 3~ 50/60 Hz, IP55, Insulation material class F (UL certificate number E481218)</b>										
1	50	190-210△	30,8△	8,6	-200	180	70	IE3	93	2RB 840-1GP21
	60	190-210 YY/380-420 Y	35,2 YY/17,6Y	9,9	-150	120	75	IE3		
2	50	190-210△	46,4△	12,6	-320	330	70	IE3	115	2RB 840-1GP31
	60	190-210 YY/380-420 Y	52,8 YY/26,4Y	14,5	-310	280	75	IE3		
3	50	190-210△	63,0△	17,3	-320	420	70	IE3	121	2RB 840-1GP41
	60	190-210 YY/380-420 Y	72,2 YY/36,1Y	19,9	-340	440	75	IE3		
<b>IE3 3~ 50/60 Hz, IP55, Insulation material class F (UL certificate number E481218)</b>										
1	50	220-240△ / 380-420 Y	26,8△/15,5 Y	8,6	-200	180	70	IE3	93	2RB 840-1GP26
	60	220-240 YY / 440-480 Y	30,6YY/15,3 Y	9,9	-150	120	75	IE3		
2	50	220-240△ / 380-420 Y	40,3△/23,3 Y	12,6	-320	330	70	IE3	115	2RB 840-1GP36
	60	220-240 YY / 440-480 Y	46,0YY/23,0 Y	14,5	-310	280	75	IE3		
3	50	220-240△ / 380-420 Y	54,9△/31,7 Y	17,3	-320	420	70	IE3	121	2RB 840-1GP46
	60	220-240 YY / 440-480 Y	62,8YY/31,4 Y	19,9	-340	440	75	IE3		
<b>IE3 3~ 50/60 Hz, IP55, Insulation material class F (UL certificate number E481218)</b>										
1	50	380-420△ / 660-725 Y	15,5△/8,9 Y	8,6	-200	180	70	IE3	93	2RB 840-1GQ27
	60	440-480△	15,3△	9,9	-150	120	75	IE3		
2	50	380-420△ / 660-725 Y	23,3△/13,4 Y	12,6	-320	330	70	IE3	115	2RB 840-1GQ37
	60	440-480△	23,0△	14,5	-310	280	75	IE3		
3	50	380-420△ / 660-725 Y	31,7△/18,3 Y	17,3	-320	420	70	IE3	121	2RB 840-1GQ47
	60	440-480△	31,4△	19,9	-340	440	75	IE3		
<b>IE3 3~ 50/60 Hz, IP55, Insulation material class F (UL certificate number E481218)</b>										
1	50	220-240△ / 380-420 Y	26,8△/15,5 Y	8,6	-200	180	71	IE3	93	2RB 840-1GQ26
	60	440-480Y	15,3Y	9,9	-150	120	76	IE3		
2	50	220-240△ / 380-420 Y	40,3△/23,3 Y	12,6	-320	330	71	IE3	115	2RB 840-1GQ36
	60	440-480Y	23,0Y	14,5	-310	280	76	IE3		
3	50	220-240△ / 380-420 Y	40,3△/23,3 Y	17,3	-320	420	71	IE3	121	2RB 840-1GQ46
	60	440-480Y	31,4Y	19,9	-340	440	76	IE3		

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.

5) Klixon recommended for motor overload protection. Ordering example: 2RB 840-□□□□-Z

All 2RB blowers 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.

Voltage range		Efficiency η <sub>s</sub>	60 Hz	2RB ...-1. □ . □
50 Hz	60Hz			
<b>3~</b>				
200 V△	200 V YY / 230 V△ / 400 VY	NEMA Premium	•	P 1
190-210 V△	190-210 VYY / 220-240 V△ / 380-420VY	IE3	•	
200 V YY / 230 V△ / 400 VY	230 V YY / 460 VY	NEMA Premium	•	P 6
190-210 VYY / 220-240 V△ / 380-420VY	220-240 VYY / 440-480VY	IE3	•	
475-525 V Y	550-600 V Y	NEMA Premium	•	Q 3
475-525 V△	550-600 V△	NEMA Premium	•	Q 5
220-240 V△ / 380-420 V Y	440-480VY	IE3	•	Q 6
400 V△ / 690 V Y	460 V△	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