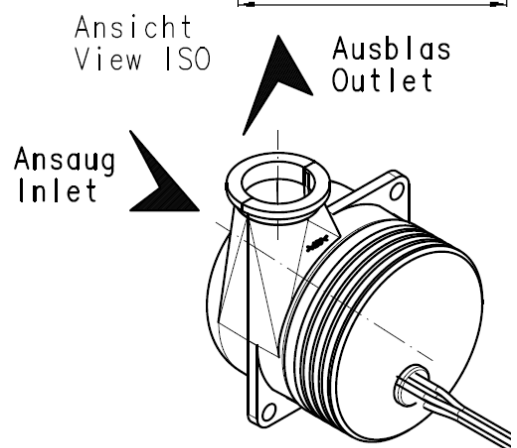
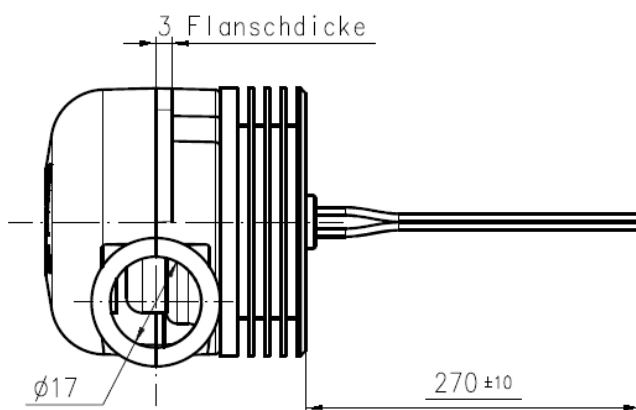
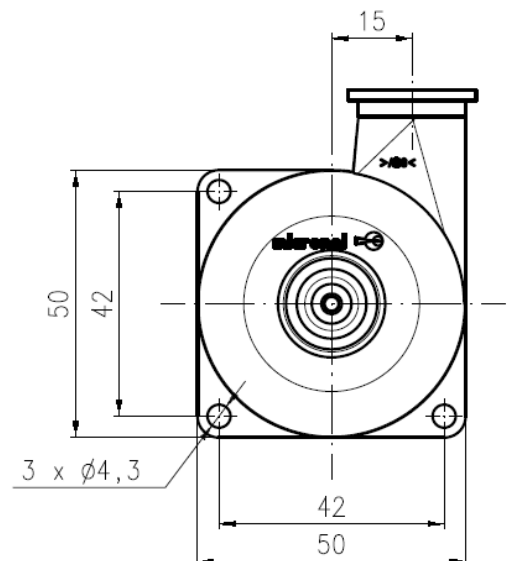
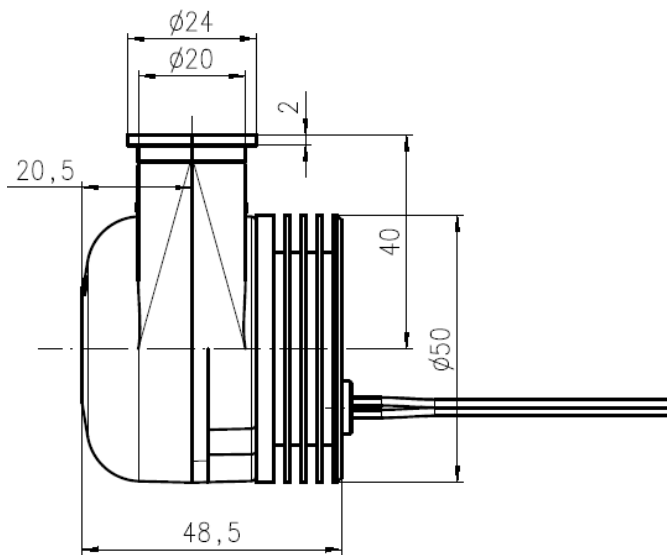
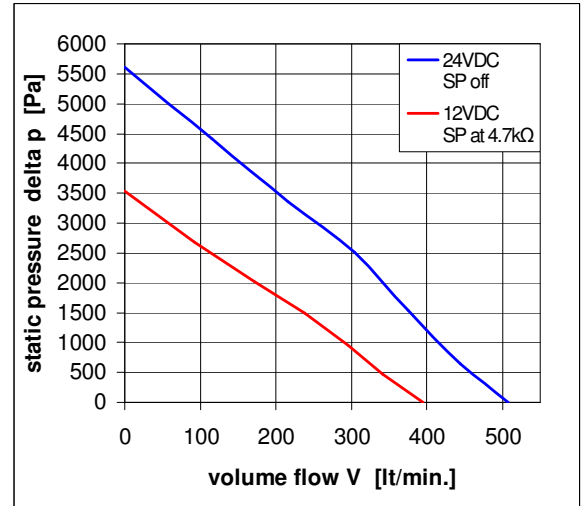
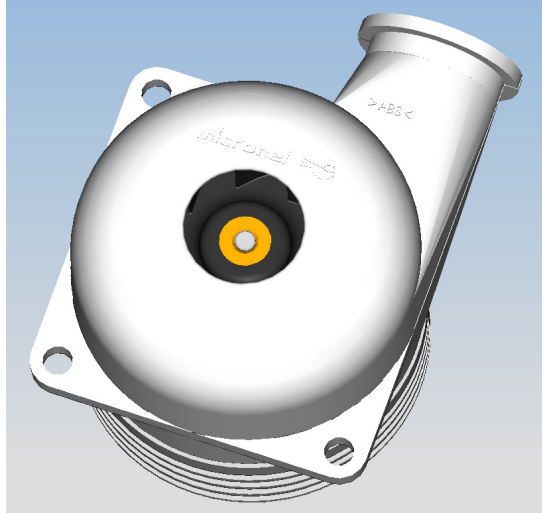




Miniatur Radial Gebläse
Miniature Radial Blower
Ventilateur miniature radial

U51DL-012KK-4
 SP at 4.7kΩ

U51DL-024KK-4
 SP off



Technische Daten

Technical data

Caractéristiques techniques

Motor

Bürstenloser und sensorloser
3-Phasen Motor mit integrierter Treiber
Elektronik

Standardluftdichte 1.2kg/m³

Motor


























Brushless and sensorless 3-Phase
motor with integrated driver electronic

Standard air density 1.2kg/m³

Moteur

Moteur à 3 phases, sans brosses et capteur,
avec électronique intégré.

Densité de l'air standard 1,2 kg/m³

			U51DL-012KK-4 Data at SP 4.7kΩ	U51DL-024KK-4 Data at SP off
	U _N	V	12	24
	U	V	10 - 16	12 - 28
	I _{N freeblowing}	mA	1'840	1'770
	I _{N work. point}	mA	1'780	1'690
	I _{N static}	mA	960	1'070
	I _{block}	mA	3A peak	3A peak
	P _{N work. point}	W	21.3	40
	n _{freeblowing}	min ⁻¹	34'480	45'980
	n _{work. point}	min ⁻¹	34'930	45'720
	n _{static}	min ⁻¹	43'720	55'560
	V _{freeblowing}	l/min	395	510
	V _{work. point}	l/min	240	300
	p _{work. point}	Pa	1'490	2'500
	p _{static}	Pa	3'540	5'600
	LpA _(WP)	dB(A)	-	-
	MTTF _(WP)	hr	15'000 / 25°C	
	T	°C/°F	-20...+50 / -5...+122	
	m	gr/oz	120 / 4.23	
	Leads	mm/inch	270 / 10.6 (AWG24)	
	Housing Material		ABS UL-94HB	
	Sleeve Bearing		N/A	
	Ball Bearing		•	
	Tacho		•	
	Speed control	sc	•	
	Warning		Max. allowed temperature on heat sink surface: 75°C	

Blower limits and warning



- Max. allowed temperature on heat sink surface:	75° C
- Minimum airflow	50 l/min
- Maximum speed	51'000 min-1
- Maximum current at ambient temp. 25° C / 77° F	2'000 mA
- Maximum current at ambient temp. 50° C / 77° F	1'700 mA
- Heat sink temperature increase at 24 V, freeblowing	20 K
- Heat sink temperature increase at 24 V, static pressure	26 K
- Heat sink temperature increase at 12 V, freeblowing	20 K
- Heat sink temperature increase at 12 V, static pressure	23 K



- **Read instruction manual before use**
- **Handle only in currentless condition**

Power supply requirement

U51DL-012KK-4

Ripple voltage < 5%

3000 mA

U51DL-024KK-4

Ripple voltage < 5%

3000 mA

Blower Features

- Unique miniature blower in very compact design
- High efficient brushless, sensorless motor with integrated driver
- Powerful airflow and pressure performance

- Integrated speed control input
- FG Frequency generator output
- ON /OFF control by logic signal
- Locked rotor protection
- Polarity protection
- Integrated thermal protection (IC temp. > 165° C switch off)