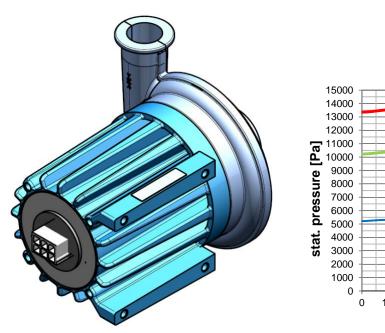
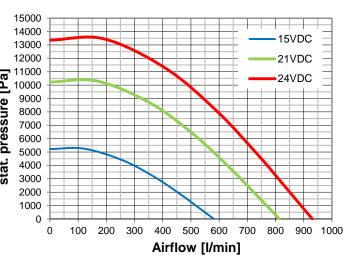


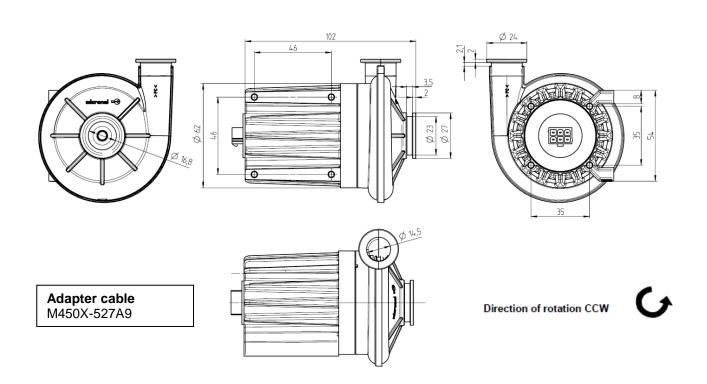
Baureihen / Series U85HL-024KH-4

Miniatur Radial Gebläse mit integrierter Elektronik Miniature Radial Blower with integrated electronic











Technische Daten

Allgemeine Beschreibung

Kompakter Lüfter mit effizientem Motor. Eigenschaften: Gehäuse: PC, Flügelrad: PA. Bürstenloser und sensorloser 3-Phasen Motor mit integrierter Treiber Elektronik. Anschluss über MOLEX-Stecker.

Technical data

General description

Compact blower with an efficient motor. Features: housing: PC, impeller: PA. Brushless and sensorless 3-Phase motor with integrated driver electronic. Connection via MOLEX-connector.

		U85HL-024KH-4
U _N	VDC	24
U	VDC	15.0-24.0
I _{N freeblowing}	mA	8'100
I _{N static}	mA	2'200
P _{N typ. freeblowing}	W	194
n freeblowing	min ⁻¹	40'500
n _{static}	min ⁻¹	47'100
V freeblowing	l/min	930
p static	Pa	13'350
Т	°C	0+45
m	gr	545
Housing material		PC PA6
Impeller material Ball Bearing		FA0 ●
Tacho		•
Speed control SP		•
NTC		NTCG164KF104F TDK

Data's at Density: 1.2kg/m³

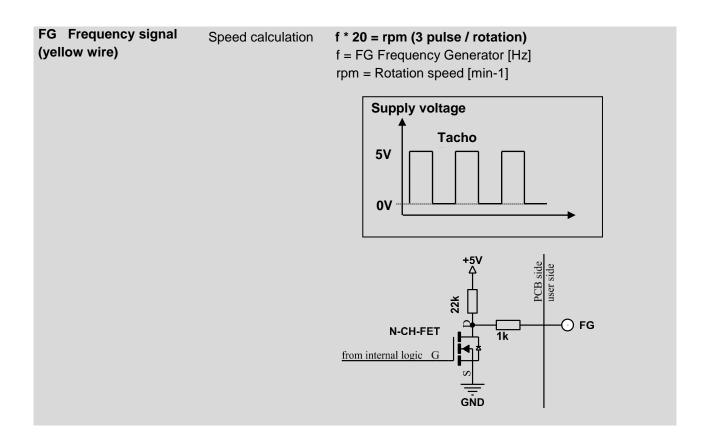


Operating Instruction and Warning

Electrical connection	U85HL-024KH-4 Connector type: MOLEX 46015-0603				
	PIN 1 2 3 4 5	Description GND Frequency NTC Vcc + Power Set Speed NTC	3		
Diamen Frances					

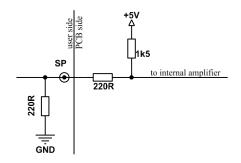
Blower Features

- Integrated speed control input
- FG frequency signal output
- ON / OFF control by logic signal SP (set speed)
- Locked rotor protection (1min)
- ESD Protection 16 kV
- no polarity protection





SP Set speed (green wire)



Input voltage 0...0.2VDC → Stop

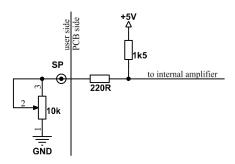
0.2...1.5VDC → Not defined, if blower RUN or STOP

2.0 VDC → min. Start voltage

1.5-4.0 VDC \rightarrow Fan is running compare to VDC 4.0-5.0 VDC \rightarrow Fan is running with 100% speed

Negative voltage or >5VDC not allowed

>> or >>



Input resistor Connect between SP (green) and GND (black)

SP not Blower operates at 100% Speed connected

Blower limits

- Max. allowed temperature on heat sink surface:

- Maximum speed

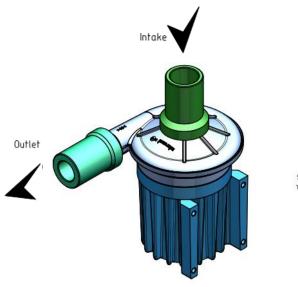
- Orifice diameter at outlet / inlet

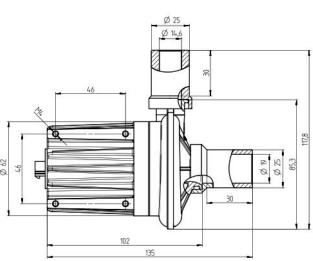
- Orifice diameter > 4mm (Q > 80 l/min)

Power supply Ripple voltage < 5%, requirement Continuous operation: 10A*

* The start-up current can be three times higher. Pay attention that the power supply supports this short (25µs) current peak.







	Intake / Einlass	Outlet / Auslass	Description / Beschreibung
U85HL-024KH-4			Without intake / without outlet Ohne Einlass / ohne Auslass
U85HL-024KH-41	•		With intake / without outlet Mit Einlass / ohne Auslass
U85HL-024KH-42		•	Without intake / with outlet Ohne Einlass / mit Auslass
U85HL-024KH-43*	•	•	With intake / with outlet Mit Einlass / mit Auslass

^{*} The drawings show intake and outlet connections. Both options are independent of each other. Die Zeichnungen stellen beide Anschlussmöglichkeiten (Ein-und Auslass) dar.

Info Specifications are subject to change without notice.

Specifications on this Datasheet are for reference.

Version: 31.01.2018 / DH

Doc: U85HL-024KH-4 with integrated electronics.doc