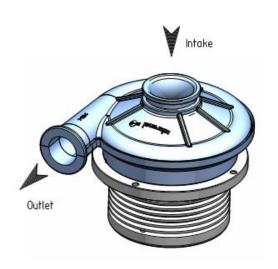


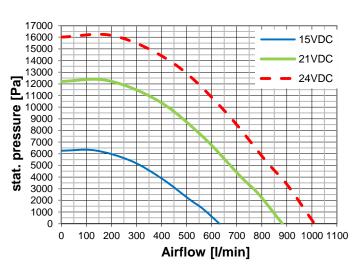
Datenblatt / Data Sheet

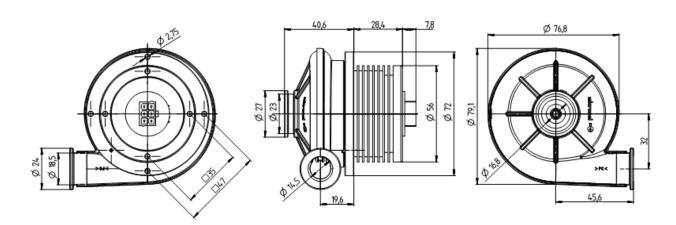
U85MX-024KX-4

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









Direction of rotation CCW





Technische Daten

recillische 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 MOLEXStecker.

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.

		U85MX-024KX-4
U_N	VDC	21
U	VDC	15.0-24.0
I _{N freeblowing}	mA	8'500
I _{N typ. work. point}	mA	5'900
I _{N static}	mA	2'400
P _{N typ. work. point}	W	125
n freeblowing	min ⁻¹	39'000
n typ. work. point	min ⁻¹	41'500
n _{static}	min ⁻¹	46'100
V freeblowing	l/min	885
V typ. work. point	l/min	390
p work. point	Pa	10'500
p _{static}	Pa	12'300
LpA (WP)	dB(A)	77
Т	°C	-20+45
m	gr	390
Housing material Impeller material		PC PA6
Sleeve Bearing		N/A
Ball Bearing		•
Tacho		•
Speed control SP		•

Data's at Density: 1.2kg/m³

NTC

NTCG164KF104F TDK



Operating Instruction and Warning

		U85MX-024KX-4		
Electrical connection	Connector type: MOLEX 46015-0603			
	1 GND 2 Freq 3 NTC 4 Vcc -	uency 1 1 4 + Power Speed		
Blower Features	 FG frequence 	etion 16 kV		
FG Frequency signal (yellow wire)	Speed calculation	f * 20 = rpm (3 pulse / rotation) f = FG Frequency Generator [Hz] rpm = Rotation speed [min-1]		
		Supply voltage Tacho VP 0.3		
		N-CH-FET From internal logic G GND		
SP Set speed (green wire)		SP To internal amplifier		

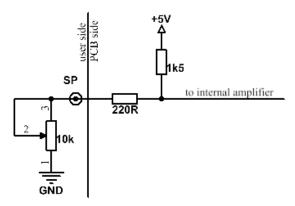


Input voltage $0.0-0.2 \text{ VDC} \rightarrow \text{Stop (short to ground to stop)}$

0.3-3.9 VDC → Fan is running compare to VDC

3.9-5.0 VDC → Fan is running with 100% speed

>> or >>



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

SP not connected Blower operates at 100% Speed

SP to GND Speed zero → Stop

Blower limits - Max. allowed temperature on heat sink surface: 65° C

- Maximum speed- Max. Power consumption45'000 1/min160W

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

Power supply requirement Ripple voltage < 5%

10000 mA

Info Specifications are subject to change without notice.

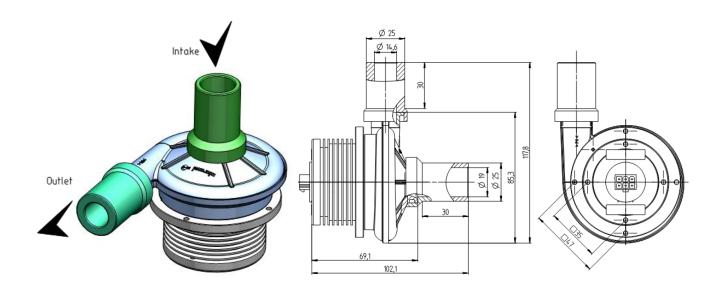
Specifications on this Datasheet are for reference.

Version: 26.10.16 / DH

Doc: U85MX-024KX-4 with integrated electronics.doc



Options for intake and outlet connections*



Product no. incl. option / Product Nr. inkl. Option	Intake / Einlass	Outlet / Auslass	Description / Beschreibung
U85MX-024KX-4			Without intake / without outlet Ohne Einlass / ohne Auslass
U85MX-024KX-41	•		With intake / without outlet Mit Einlass / ohne Auslass
U85MX-024KX-42		•	Without intake / with outlet Ohne Einlass / mit Auslass
U85MX-024KX-43*	•	•	With intake / with outlet Mit Einlass / mit Auslass

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