

S1G200-AH01-52

## EC axial fan

sickled blades (S series)  
with guard grille for short nozzle



**ebm-papst Mulfingen GmbH & Co. KG**

Bachmühle 2

74673 Mulfingen

Phone: +49 7938 81-0

Fax: +49 7938 81-110

[www.fansco.com](http://www.fansco.com)

[sales@fansco.com](mailto:sales@fansco.com)

### Nominal data

Type	S1G200-AH01-52	
Motor	M1G074-BF	
Nominal voltage	[VDC]	48
Nominal voltage range	[VDC]	36 .. 57
Frequency	[Hz]	-
Type of data definition		rfa
Speed	[min <sup>-1</sup> ]	2950
Power input	[W]	55
Current draw	[A]	1.3
Max. back pressure	[Pa]	120
Min. ambient temperature	[°C]	- 25
Max. ambient temperature	[°C]	+60

ml = max. load · me = max. efficiency · rfa = running at free air · cs = customer specs · cu = customer unit  
Subject to alterations

# EC axial fan

sickled blades (S series)  
with guard grille for short nozzle

## Technical features

<b>Size</b>	200 mm
<b>Operation mode</b>	Continuous operation (S1)
<b>Direction of rotation</b>	Counter-clockwise, seen on rotor
<b>Mounting position</b>	Any
<b>Direction of air flow</b>	"V"
<b>Insulation class</b>	"B"
<b>Cable exit</b>	Lateral
<b>Bearing motor</b>	Ball bearing
<b>Mass</b>	1.5 kg
<b>Material of electronics housing</b>	Rotor: Coated in black
<b>Material of impeller</b>	Sheet steel, coated in black
<b>Motor protection</b>	Reverse polarity and locked-rotor protection
<b>Number of blades</b>	9
<b>Type of protection</b>	IP 42
<b>Protection class</b>	I
<b>Technical features</b>	Control input 0-10 VDC / PWM, tach output, polarity and locked rotor protection
<b>Approval</b>	CSA C22.2 Nr.77; UL 1004-1

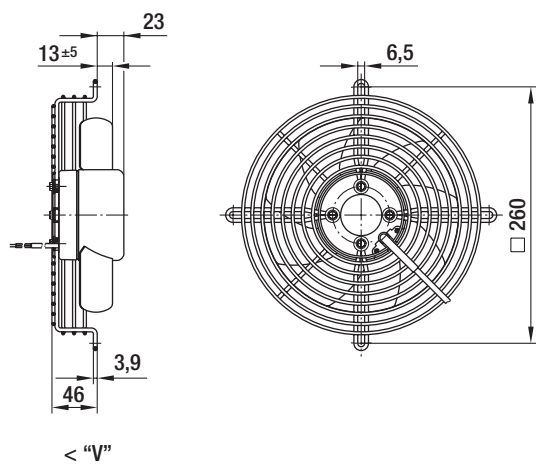
S1G200-AH01-52

# EC axial fan

sickled blades (S series)

with guard grille for short nozzle

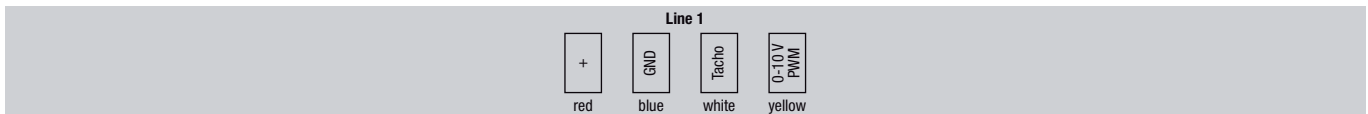
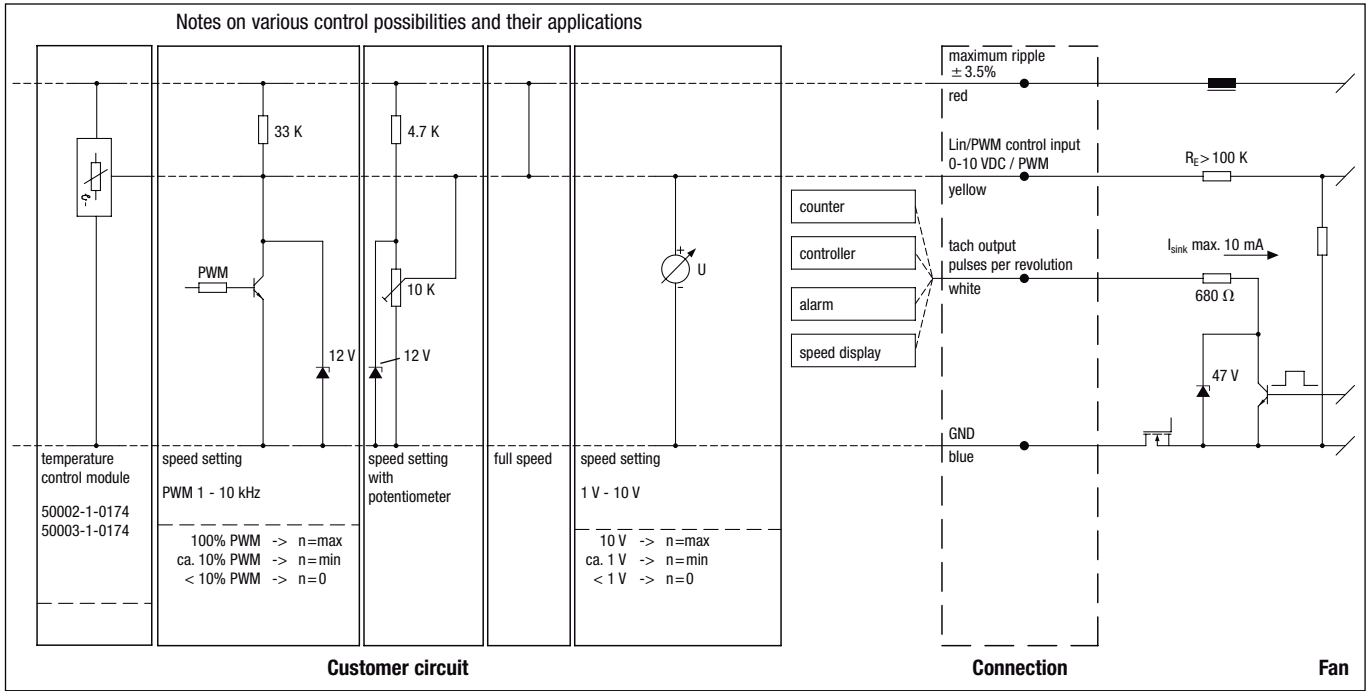
## Product drawing



# EC axial fan

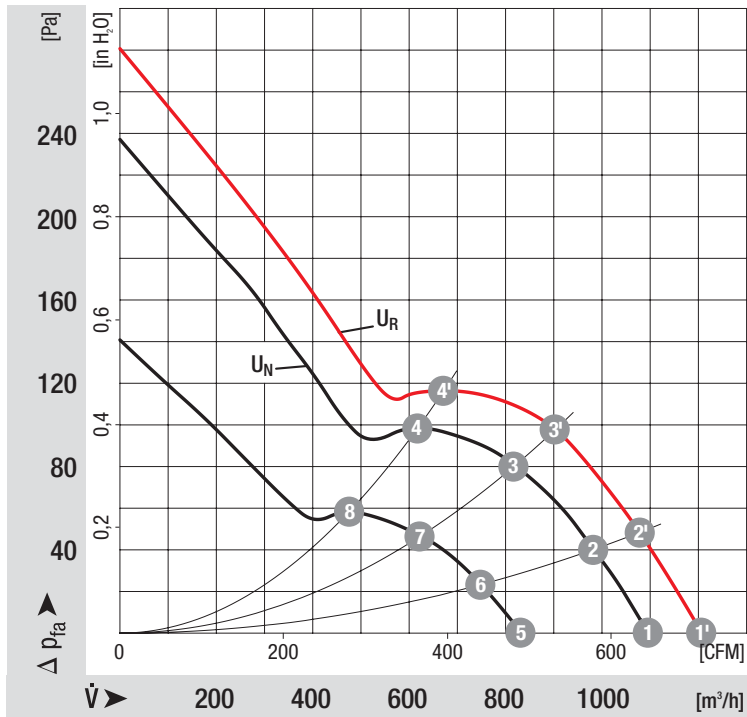
sickled blades (S series)  
with guard grille for short nozzle

## Connection screen



Line	Signal	Colour	Assignment / function	Line	Signal	Colour	Assignment / function
1	+	red	maximum ripple $\pm 3.5\%$	1	Tacho	white	Tach output: pulses per revolution
	GND	blue	GND		0-10 V / PWM	yellow	Control input

## Charts: Air flow



## Measured values

	n	P <sub>1</sub>	η <sub>TL</sub>
	[min <sup>-1</sup> ]	[W]	[%]
1'	2300	73	
2'	2970	77	67
3'	3100	80	64
4'	2970	80	54
1	2950	55	
2	2890	58	67
3	2800	61	64
4	2780	63	54
5	2270	27	
6	2230	28	67
7	2170	29	64
8	2130	30	54