

W1G200-EF41-01

EC axial panel fan - ESM

sickle-shaped blades (S series)

ESM fan housing



W1G200-EF41-01 ebmpapst Datasheet FansCo

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Nominal data

Type	W1G200-EF41-01	
Motor	M1G055-BD	
Nominal voltage	VDC	24
Method of obtaining data		fa
Speed (rpm)	min ⁻¹	1550
Power consumption	W	11
Current draw	A	0.5
Max. back pressure	Pa	30
Max. back pressure	in. wg	0.12
Min. ambient temperature	°C	-30
Max. ambient temperature	°C	50

ml = Max. load · me = Max. efficiency · fa = Free air · cs = Customer specification · ce = Customer equipment
Subject to change

Technical description

Weight	0.92 kg
Size	200 mm
Motor size	55
Electronics housing material	PP plastic
Blade material	PA plastic
Fan housing material	PP plastic
Number of blades	5
Airflow direction	V
Direction of rotation	Counterclockwise, viewed toward rotor
Degree of protection	IP55
Insulation class	"B"
Moisture (F) / Environmental (H) protection class	H1+
Max. permitted ambient temp. for motor (transport/storage)	+80 °C
Min. permitted ambient temp. for motor (transport/storage)	-40 °C
Installation position	Any
Condensation drainage holes	None
Mode	S1
Motor bearing	Ball bearing
Technical features	<ul style="list-style-type: none"> - Tach output - Motor current limitation - Soft start - Control input 0-10 VDC / PWM - Thermal overload protection for electronics/motor
Motor protection	Thermal switch auto reset, internally connected
With cable	Lateral
Protection class assignment	II; The built-in component has several local protection class assignments. The final protection class is determined by the intended installation.
Safety class of the permissible refrigerants according to EN378 / ISO5149-1	A3/B3
Maximum surface temperature	225 °C
Conformity with standards	EN 60034-1; EN 60204-1; EN 60335-1; EN 60335-2-24; EN 60335-2-80; EN 60335-2-89
Comment on CE	Ecodesign Directive 2009/125/EC + Fan Directive (EC) No. 327/2011 does not apply, as power consumption <125W.
Approval	UL 1004-3; EAC; CSA C22.2 No. 77; VDE

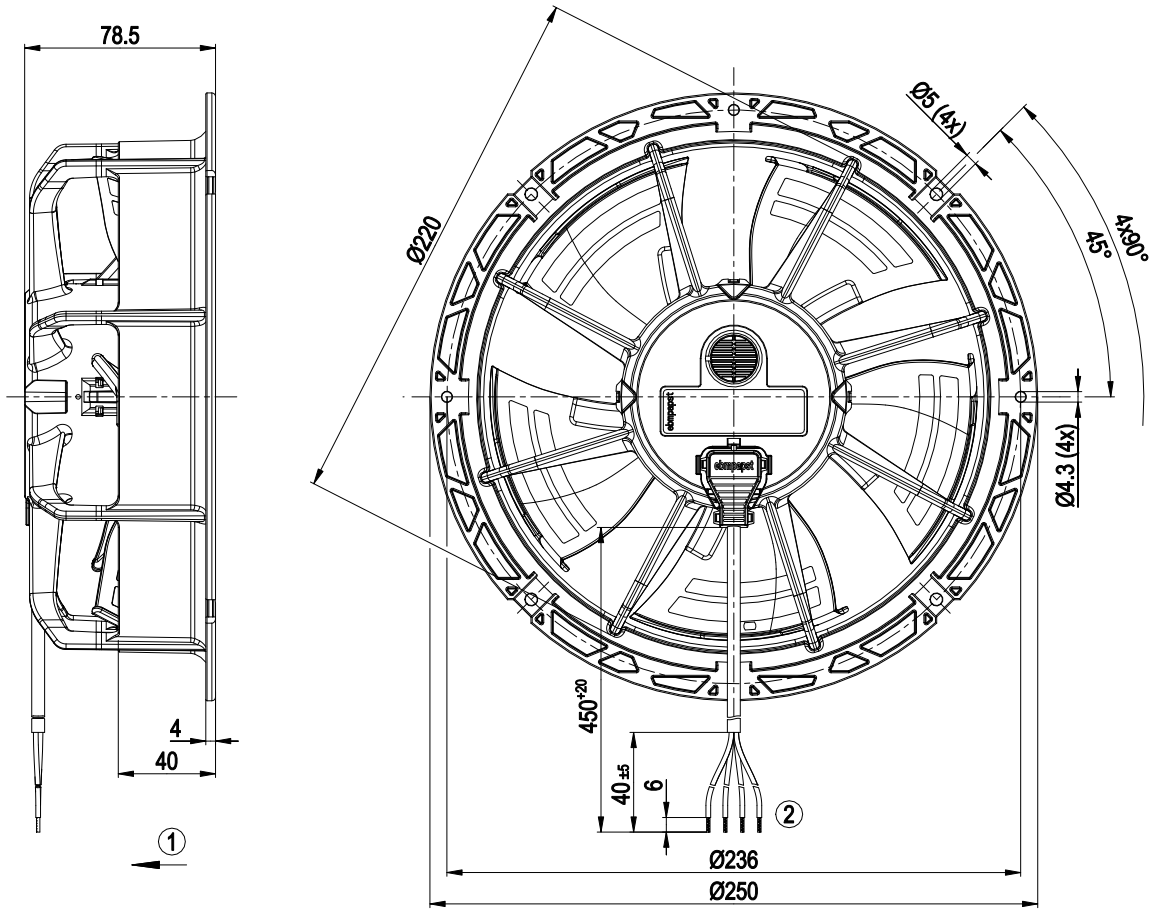
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Product drawing



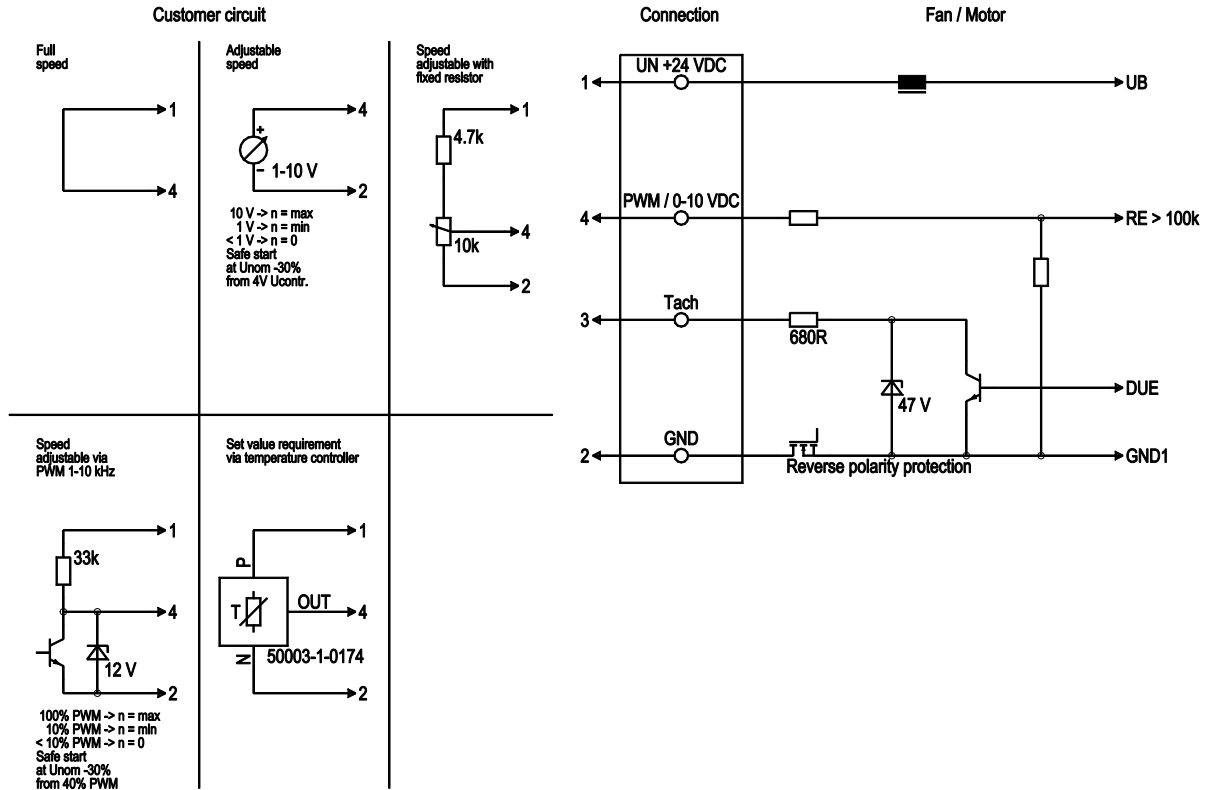
1	Airflow direction "V"
2	Cable PVC AWG20
	4x splice

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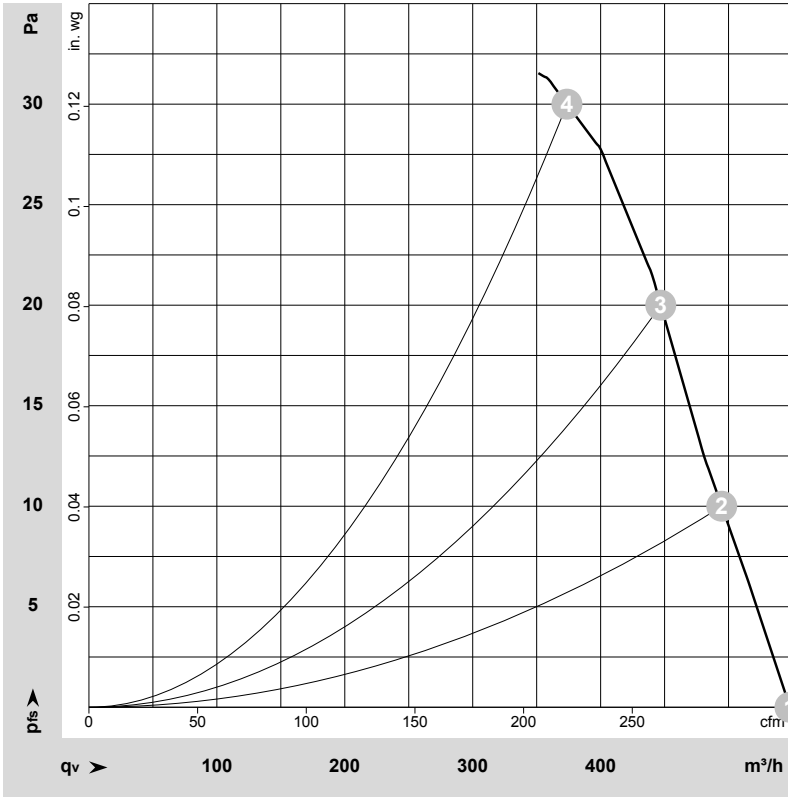
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Connection diagram



No.	Conn.	Designation	Color	Function/assignment
	1	UN +24 VDC	red	Power supply 24 VDC, maximum ripple 3.5%
	2	GND	blue	Reference ground
	3	Tach	white	Tach output, 1 pulse per revolution, Isink max = 10 mA, open collector
	4	PWM / 0-10 VDC	yellow	Control input PWM or 0-10 V, RE > 100k

Curves: Air performance



$\rho = 1.175 \text{ kg/m}^3 \pm 2 \%$

Measurement: LU-139779-1
Date: 2012-01-19
Housing: 10002-2-2910

Air performance measured according to ISO 5801 installation category A. For detailed information on the measurement setup, contact ebmpapst. Intake sound level: Sound power level according to ISO 13347 / sound pressure level measured at 1 m distance from fan axis. The values given are valid under the specified measuring conditions and may vary due to conditions of installation. For deviations from the standard configuration, the parameters have to be checked on the installed unit.

Measured values

	U	n	P _{ed}	I	LpA _{in}	LwA _{in}	q _v	p _{fs}	q _v	p _{fs}
	V	min ⁻¹	W	A	dB(A)	dB(A)	m ³ /h	Pa	cfm	in. wg
1	24	1550	11	0.48	46	54	550	0	325	0.00
2	24	1530	11	0.50	45	53	495	10	290	0.04
3	24	1510	12	0.51	44	52	445	20	265	0.08
4	24	1520	11	0.50	47	56	375	30	220	0.12

U = Voltage · n = Speed (rpm) · P_{ed} = Power consumption · I = Current draw · LpA_{in} = Sound pressure level intake side · LwA_{in} = Sound power level intake side · q_v = Air flow
p_{fs} = Pressure increase