

# EC centrifugal fan

backward-curved, single-intake

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

Bachmühle 2 · D-74673 Mulfingen

Phone +49 7938 81-0

Fax +49 7938 81-110

info1@de.ebmpapst.com

www.ebmpapst.com

Limited partnership · Headquarters Mulfingen

Amtsgericht (court of registration) Stuttgart · HRA 590344

General partner Elektrobau Mulfingen GmbH · Headquarters Mulfingen

Amtsgericht (court of registration) Stuttgart · HRB 590142

## Nominal data

Type	R1G120-AD13-02	
Motor	M1G045-BE	
Nominal voltage	VDC	24
Nominal voltage range	VDC	16 .. 28
Method of obtaining data		fa
Speed (rpm)	min <sup>-1</sup>	4060
Power consumption	W	26
Current draw	A	1.2
Min. ambient temperature	°C	-25
Max. ambient temperature	°C	50

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

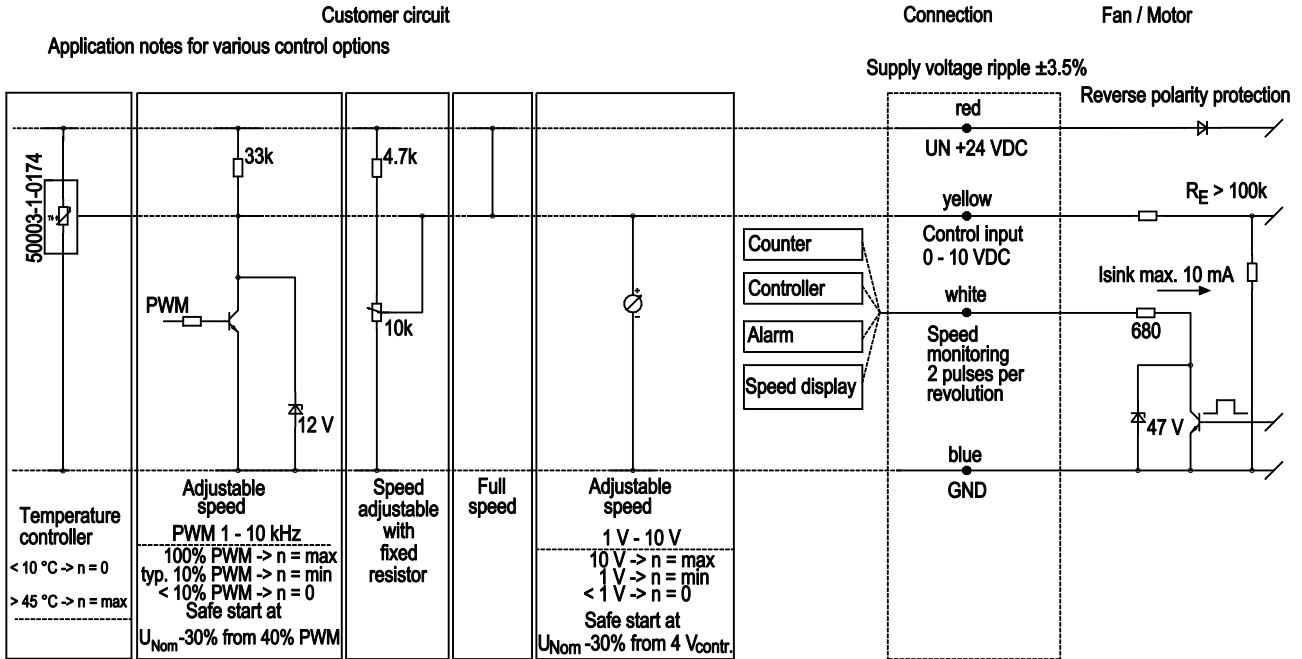


### Technical description

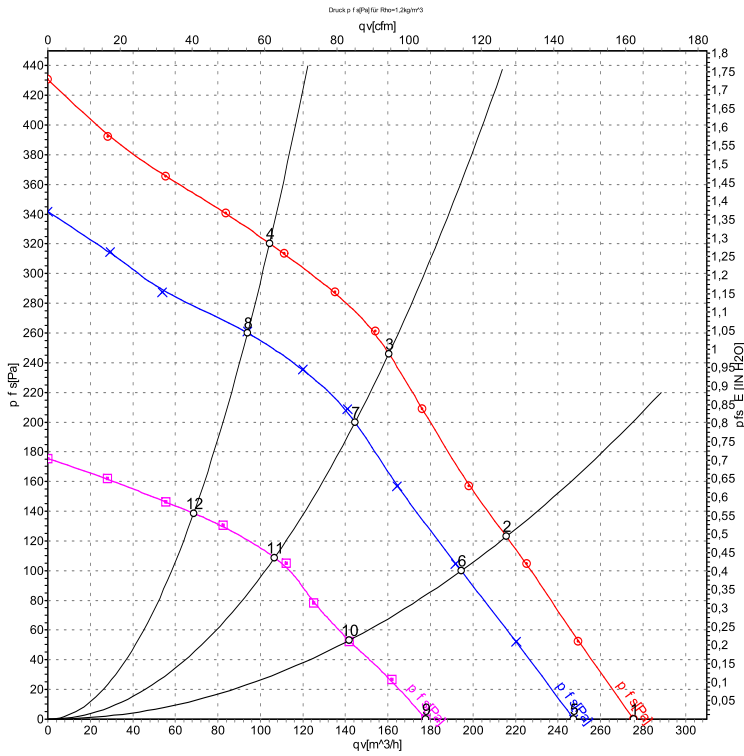
<b>Weight</b>	0.5 kg
<b>Fan size</b>	120 mm
<b>Rotor surface</b>	Galvanized
<b>Impeller material</b>	PA66 plastic, glass-fiber reinforced
<b>Number of blades</b>	9
<b>Direction of rotation</b>	Clockwise, viewed toward rotor
<b>Degree of protection</b>	IP20
<b>Insulation class</b>	"B"
<b>Max. permitted ambient temp. for motor (transport/storage)</b>	+80 °C
<b>Min. permitted ambient temp. for motor (transport/storage)</b>	-40 °C
<b>Installation position</b>	Any
<b>Condensation drainage holes</b>	None
<b>Mode</b>	S1
<b>Motor bearing</b>	Ball bearing
<b>Technical features</b>	<ul style="list-style-type: none"> <li>- Tach output</li> <li>- Soft start</li> <li>- Control input 0-10 VDC / PWM</li> </ul>
<b>Motor protection</b>	Reverse polarity and locked-rotor protection
<b>With cable</b>	Axial
<b>Conformity with standards</b>	EN 60950-1
<b>Approval</b>	EAC



## Connection diagram



## Curves: Air performance



Measurement: LU-57724-1  
 Measurement: LU-57723-1  
 Measurement: LU-57725-1

Air performance measured according to ISO 5801 installation category A. For detailed information on the measurement setup, contact ebm-papst. 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 <sub>ed</sub>	I	q <sub>v</sub>	P <sub>fs</sub>	q <sub>v</sub>	P <sub>fs</sub>
	V	min <sup>-1</sup>	W	A	m <sup>3</sup> /h	Pa	cfm	inH <sub>2</sub> O
1	28	4525	38	1.51	275	0	160	0.00
2	28	4510	38	1.52	215	123	125	0.49
3	28	4605	37	1.46	160	246	95	0.99
4	28	4780	34	1.35	105	320	60	1.28
5	24	4060	26	1.20	245	0	145	0.00
6	24	4055	28	1.30	195	100	115	0.40
7	24	4140	27	1.24	145	200	85	0.80
8	24	4275	25	1.15	95	260	55	1.04
9	16	2975	12	0.82	180	0	105	0.00
10	16	2965	12	0.83	140	52	85	0.21
11	16	3010	11	0.80	105	110	65	0.44
12	16	3095	10	0.74	70	139	40	0.56

U = Power supply · n = Speed (rpm) · P<sub>ed</sub> = Power consumption · I = Current draw · q<sub>v</sub> = Air flow · P<sub>fs</sub> = Pressure increase



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