G1G085-AB05-07

EC centrifugal fan

forward-curved, single-intake

with housing (flange)



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Nominal data

Type	**G1G085-AB05-07**	
Motor	**M1G045-BE**	
Nominal voltage	VDC	24
Nominal voltage range	VDC	16 .. 28
Method of obtaining data		fa
Speed (rpm)	min^{-1}	2780
Power consumption	W	13
Current draw	A	0.6
Min. ambient temperature	°C	-25
Max. ambient temperature	°C	60

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

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Technical description

Weight	0.8 kg
Fan size	85 mm
Rotor surface	Painted black
Impeller material	Sheet steel, galvanized
Housing material	Die-cast aluminum
Direction of rotation	Clockwise, viewed toward rotor
Degree of protection	IP22; installation- and position-dependent
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	- Tach output - Soft start - Control input 0-10 VDC / PWM
Motor protection	Reverse polarity and locked-rotor protection
With cable	Axial
Protection class	I (if protective earth is connected by customer to the housing's connection point)

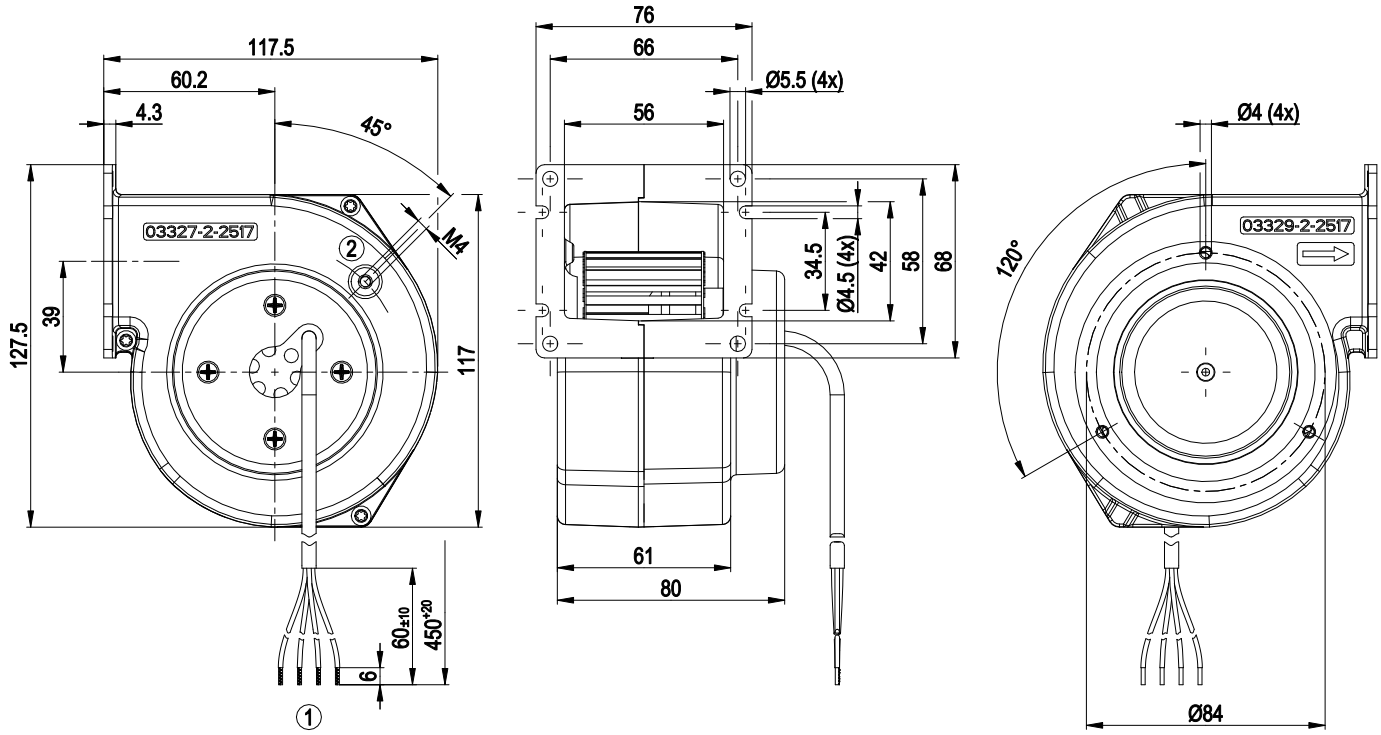
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Product drawing



1	Cable PVC AWG22, 4x crimped splices
2	Ground connection point
	Max. clearance for screw 4 mm

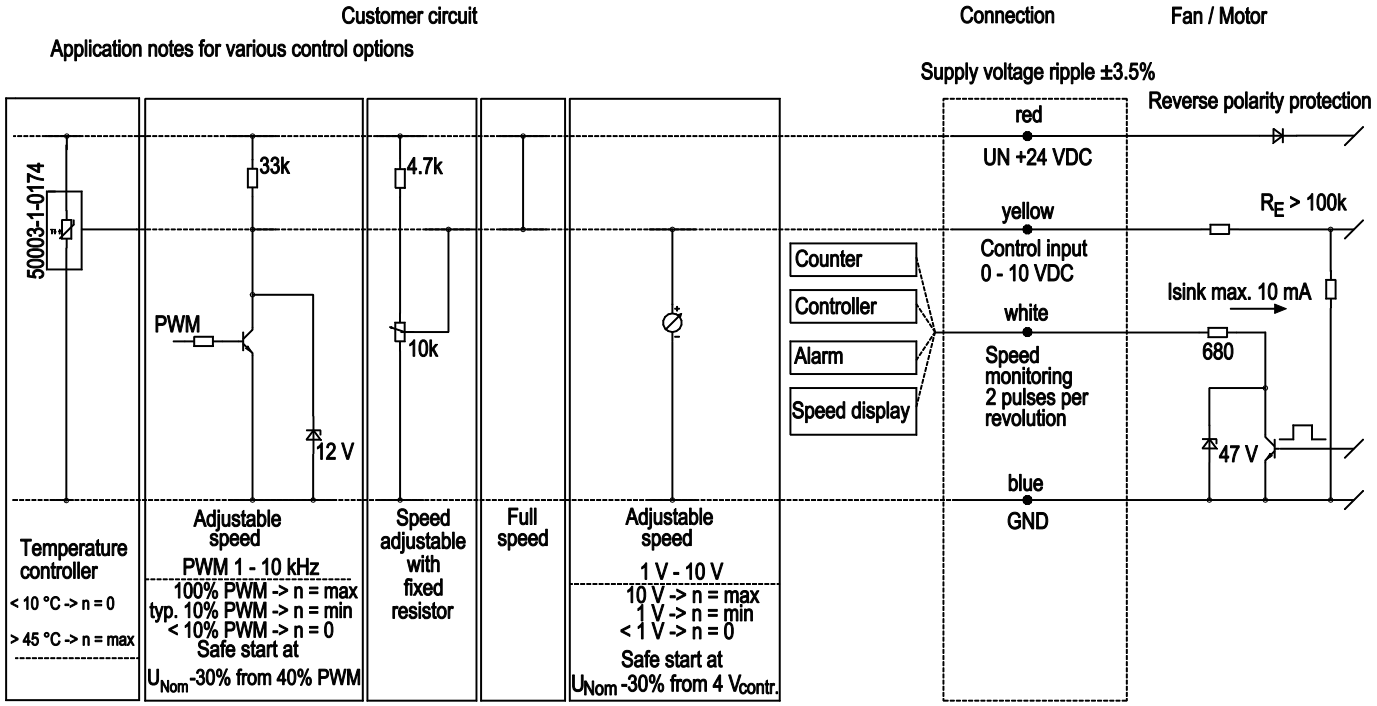
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Connection diagram



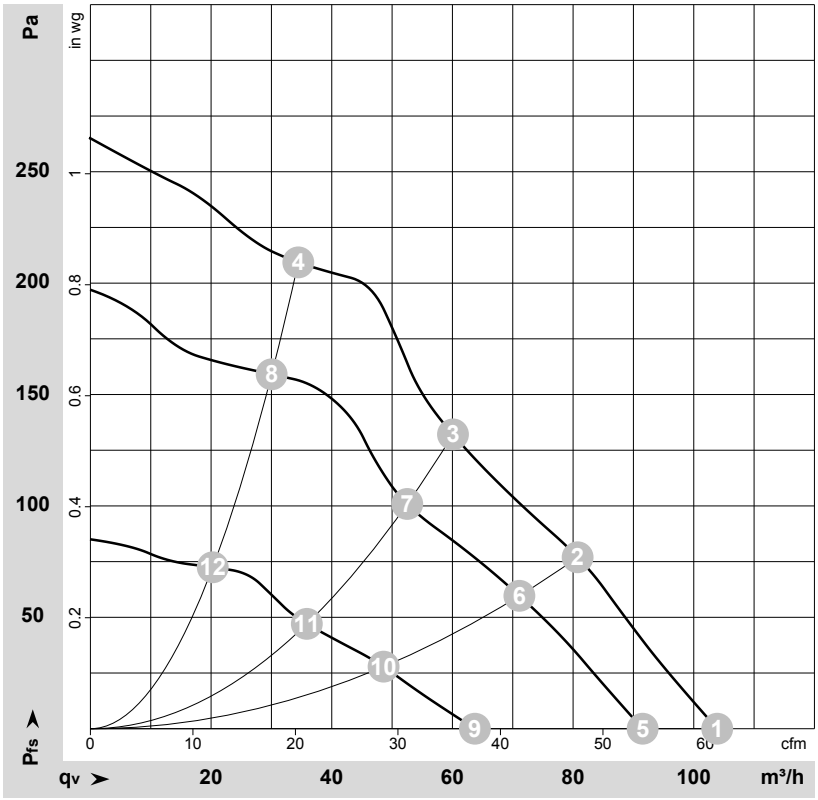
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Curves: Air performance



ρ = 1.15 kg/m³ ± 2 %

Measurement: LU-52220-1
Measurement: LU-52219-1
Measurement: LU-52218-1

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_{ed}	I	q_V	p_{fs}	q_V	p_{fs}
	V	min^{-1}	W	A	m^3/h	Pa	cfm	inH2O
1	28	3110	18	0.70	105	0	60	0.00
2	28	3335	15	0.60	80	78	50	0.31
3	28	3525	13	0.52	60	132	35	0.53
4	28	3790	11	0.44	35	209	20	0.84
5	24	2780	13	0.60	90	0	55	0.00
6	24	2950	11	0.52	70	60	40	0.24
7	24	3110	10.0	0.46	55	100	30	0.40
8	24	3325	8.0	0.39	30	160	20	0.64
9	16	1955	6.0	0.41	65	0	40	0.00
10	16	2055	5.0	0.37	50	28	30	0.11
11	16	2140	4.0	0.35	35	47	20	0.19
12	16	2275	3.00	0.31	20	73	10	0.29

U = Power supply · n = Speed (rpm) · P_{ed} = Power consumption · I = Current draw · q_V = Air flow · p_{fs} = Pressure increase

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