G1G085-AB05-01

EC centrifugal fan

forward-curved, single-intake

with housing (flange)



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Nominal data

Type	**G1G085-AB05-01**	
Motor	**M1G045-BE**	
Nominal voltage	VDC	24
Nominal voltage range	VDC	16 .. 28
Method of obtaining data		fa
Speed (rpm)	min^{-1}	2850
Power consumption	W	14
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
Size	85 mm
Motor size	45
Rotor surface	Galvanized
Impeller material	Sheet steel, hot-dip 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	H0 - dry environment
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 mounting	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
Approval	EAC

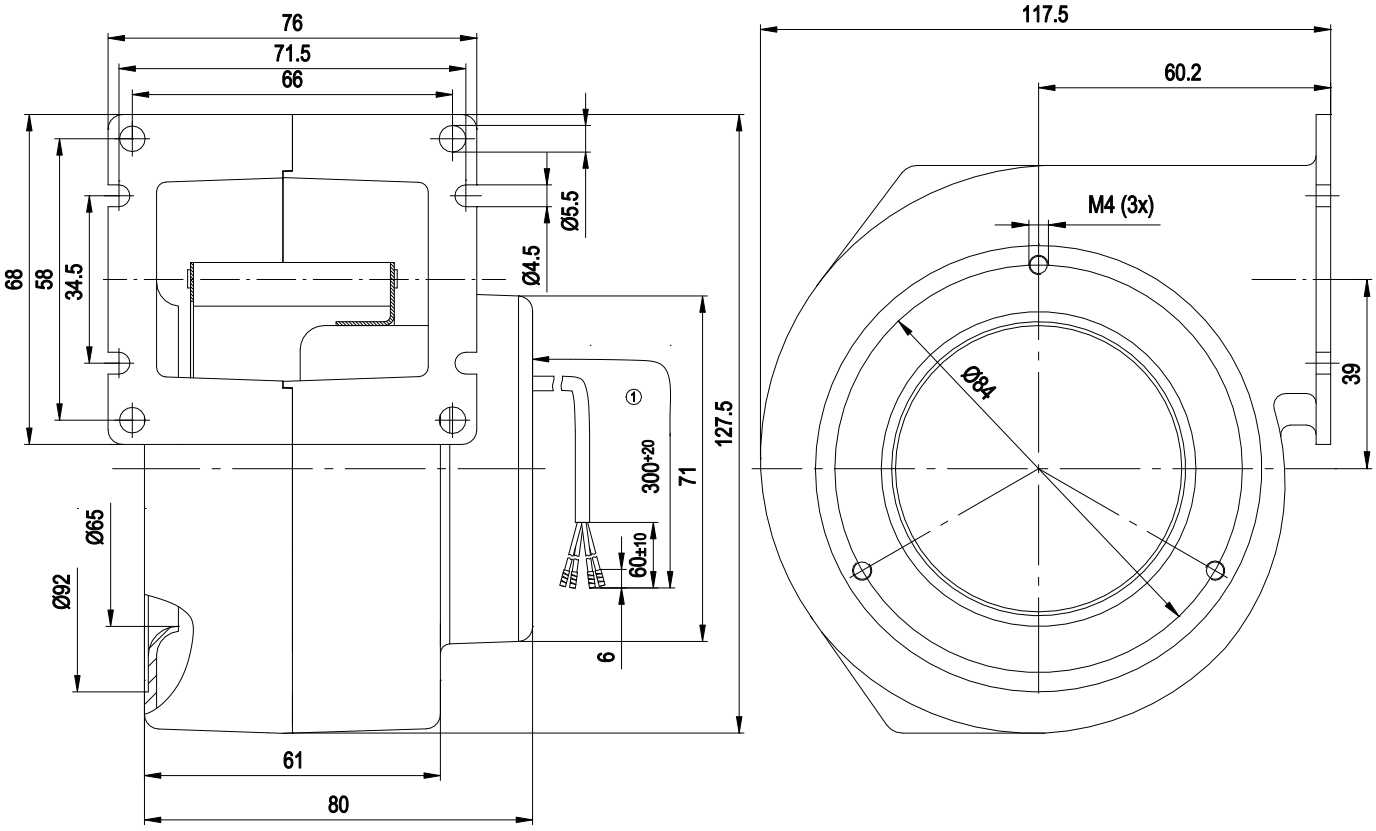
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Product drawing



1	Cable PVC AWG22, 4 x crimped splices

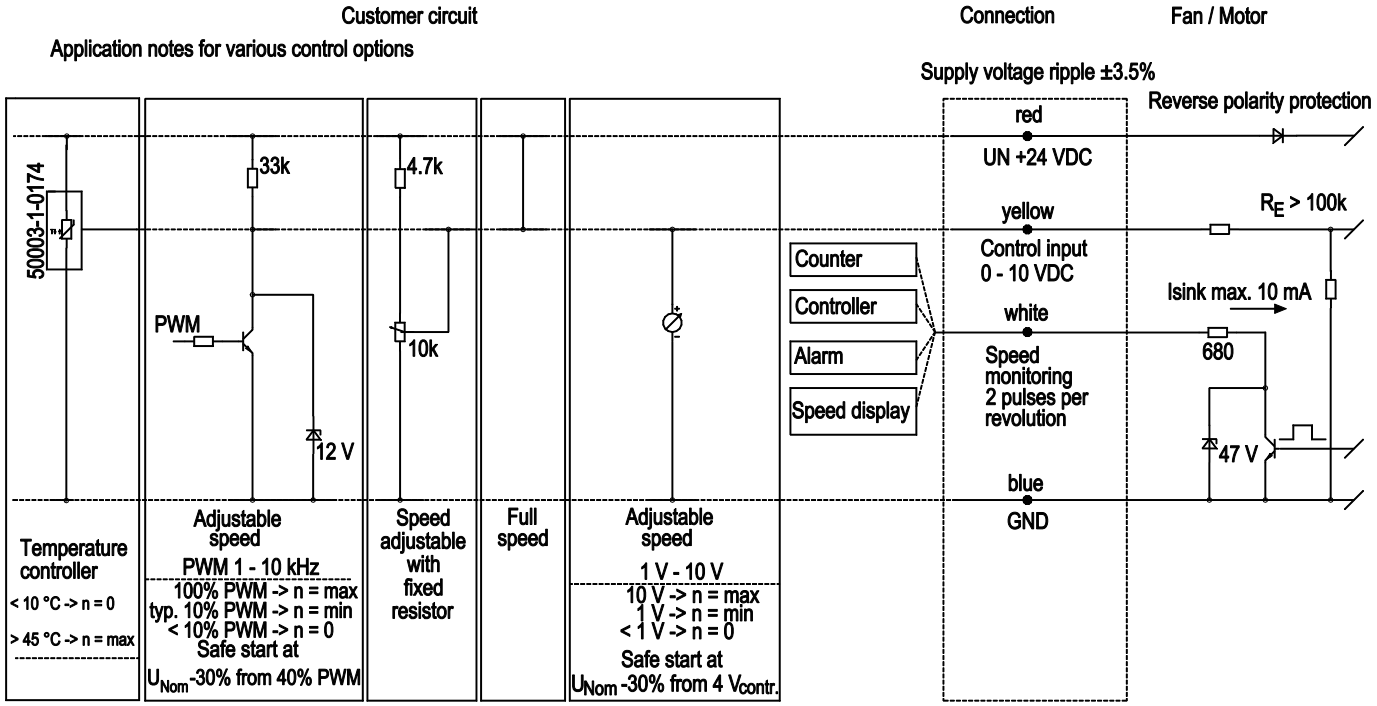
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Connection diagram



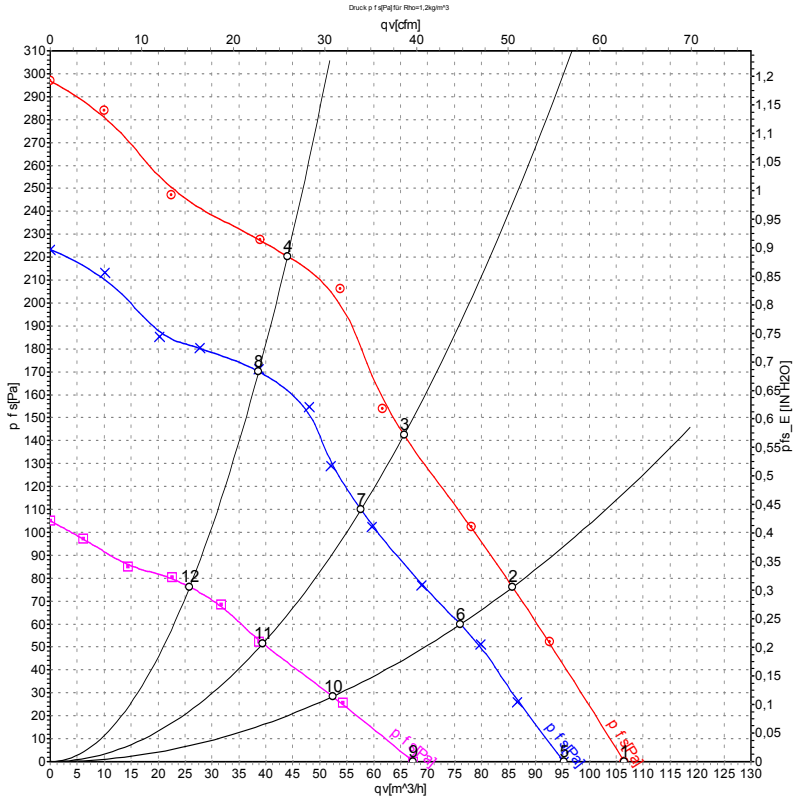
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Curves: Air performance



Measurement: LU-39691-1
Measurement: LU-39690-1
Measurement: LU-39692-1

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	in. wg
1	28	3205	19	0.74	105	0	60	0.00
2	28	3405	17	0.66	85	76	50	0.31
3	28	3605	15	0.58	65	141	40	0.57
4	28	3845	12	0.51	45	220	25	0.88
5	24	2850	14	0.64	95	0	55	0.00
6	24	3030	12	0.57	75	60	45	0.24
7	24	3200	10	0.51	60	110	35	0.44
8	24	3400	8.8	0.45	40	170	25	0.68
9	16	2045	5.9	0.44	65	0	40	0.00
10	16	2155	5.1	0.40	50	29	30	0.12
11	16	2245	4.4	0.37	40	51	25	0.20
12	16	2345	3.9	0.35	25	76	15	0.31

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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