G1G108-AB27-11

EC centrifugal fan

forward-curved, single-intake

with housing (flange), Automotive

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Nominal data

Type	**G1G108-AB27-11**	
Motor	**M1G055-BD**	
Nominal voltage	VDC	24
Nominal voltage range	VDC	16 .. 28
Method of obtaining data		ml
Speed (rpm)	min^{-1}	2700
Power consumption	W	24.5
Current draw	A	1.1
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	1.7 kg
Size	108 mm
Motor size	55
Rotor surface	Painted black
Impeller material	Sheet steel, galvanized
Housing material	Die-cast aluminum
Number of blades	30
Direction of rotation	Clockwise, viewed toward rotor
Degree of protection	IP22
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 mounting	Ball bearing
Technical features	- Tach output - Motor current limitation - Soft start - Control input 0-10 VDC / PWM
Electrical hookup	Plug
Motor protection	Reverse polarity and locked-rotor protection
With cable	Axial
Conformity with standards	EN 60335-1
Approval	UL 1004-1; CSA C22.2 No. 77

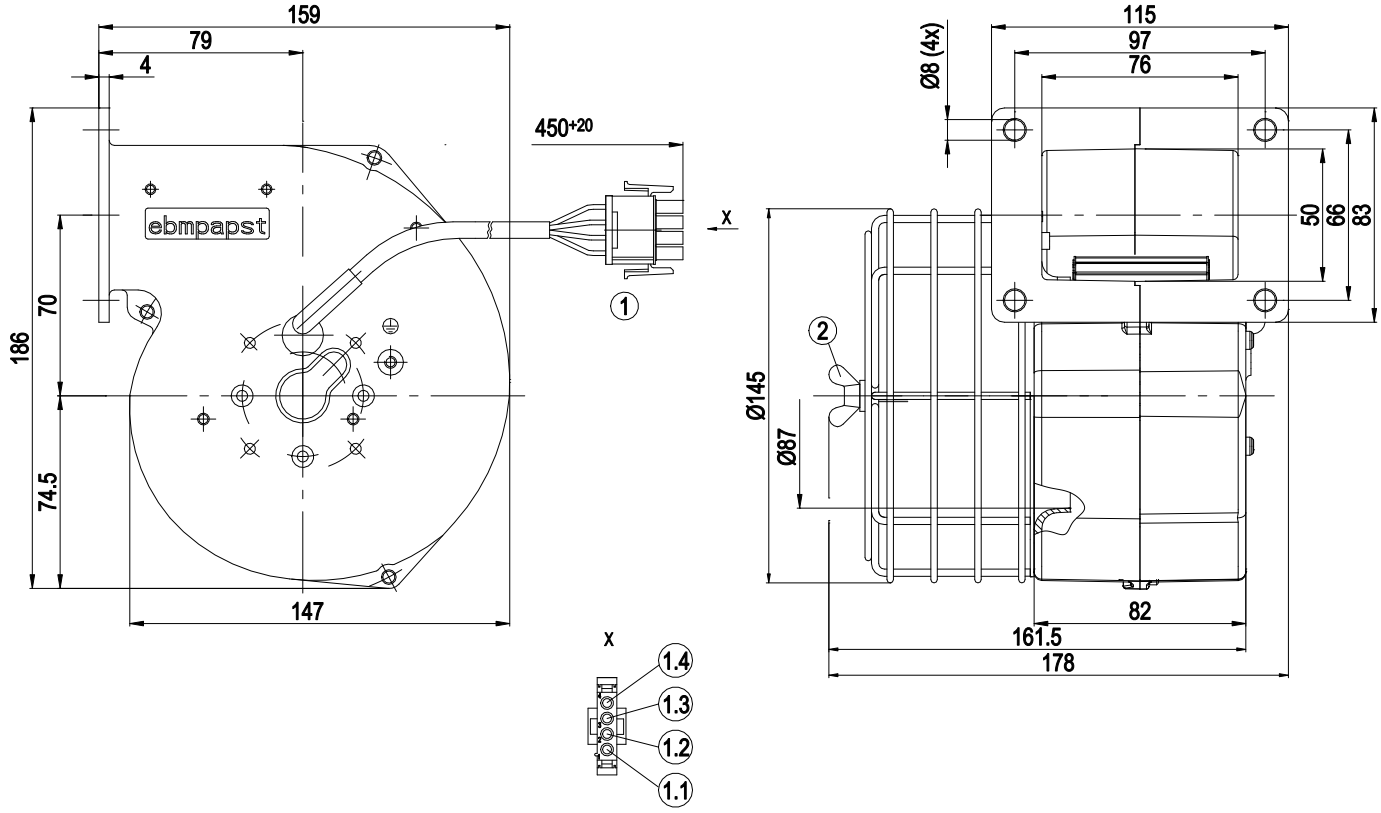
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Product drawing



1	Cable PVC AWG20 with 4-pole connector housing TE 350779-1, 4x plug pin TE 926885-1
1.1	UN +24 VDC (red)
1.2	GND (blue)
1.3	0-10 VDC (yellow)
1.4	Tach (white)
2	Tightening torque 1.4±0.2 Nm

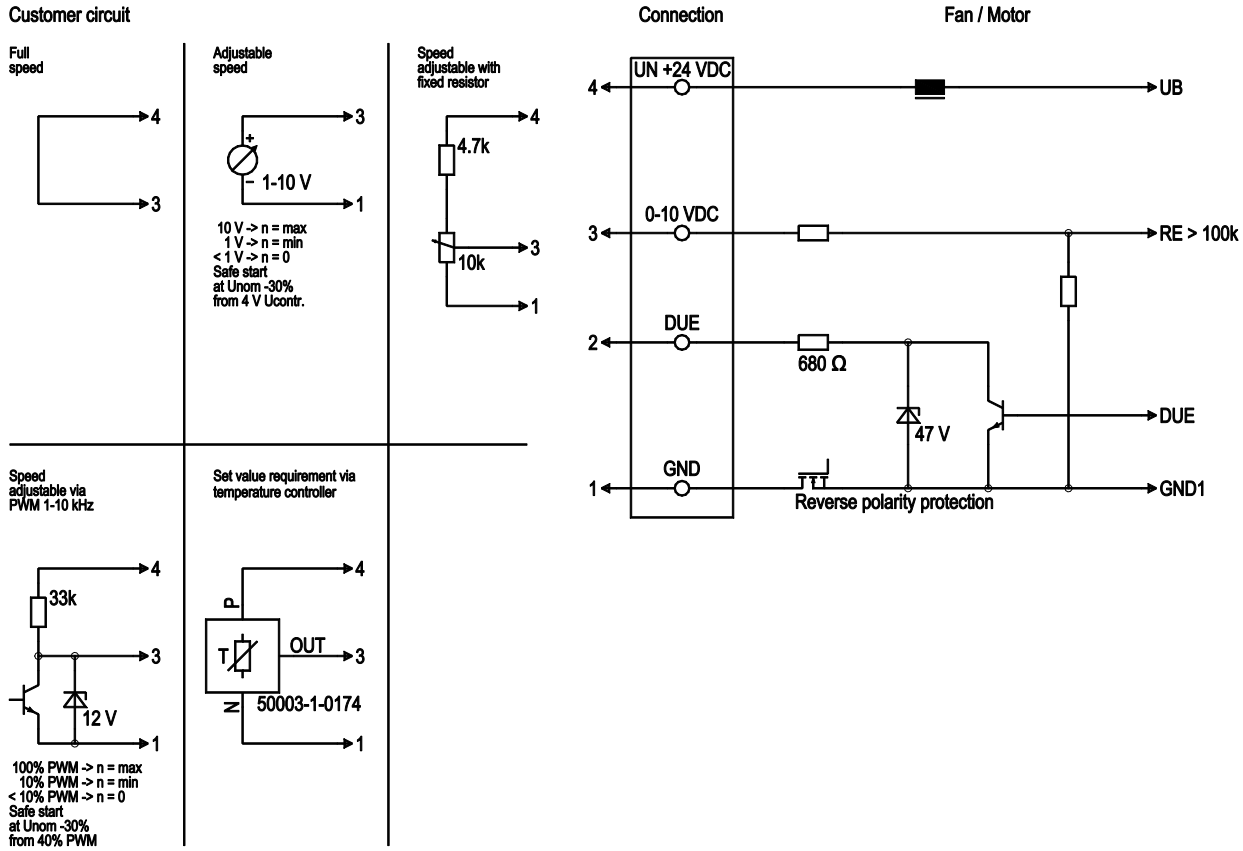
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Connection diagram



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

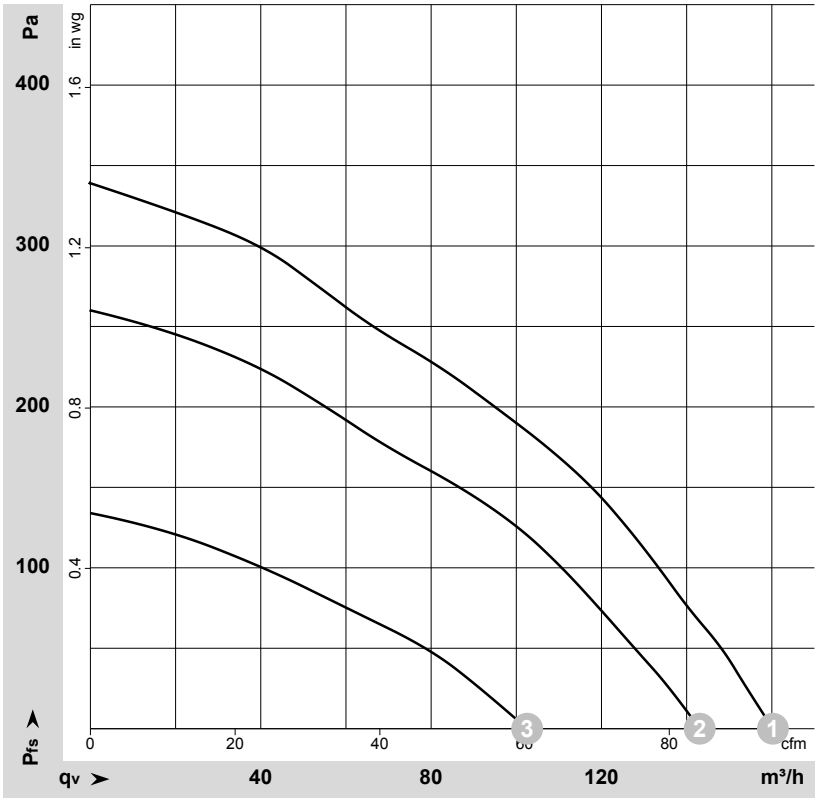
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Curves: Air performance



ρ = 1.15 kg/m³ ± 2 %

Measurement: LU-61730-1
Measurement: LU-61729-1
Measurement: LU-61731-1

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	q_V	p_{fs}
	V	min^{-1}	W	A	m^3/h	cfm	in. wg
1	28	2975	34	1.32	160	95	0.00
2	24	2700	25	1.10	145	85	0.00
3	16	2000	10.0	0.76	105	60	0.00

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

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