

W3G300-BV25-30

EC axial fan

with brushless DC motor
Automotive



W3G300-BV25-30 ebmpapst Datasheet
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Nominal data

Type	W3G300-BV25-30	
Motor	M3G084-BF	
Nominal voltage	VDC	26
Nominal voltage range	VDC	16 .. 32
Type of data definition		fa
Speed (rpm)	min ⁻¹	3940
Power input	W	380
Current draw	A	14.6
Min. ambient temperature	°C	-40
Max. ambient temperature	°C	85/110

ml = Max. load · me = Max. efficiency · fa = Running at free air · cs = Customer specs · cu = Customer unit
Subject to alterations

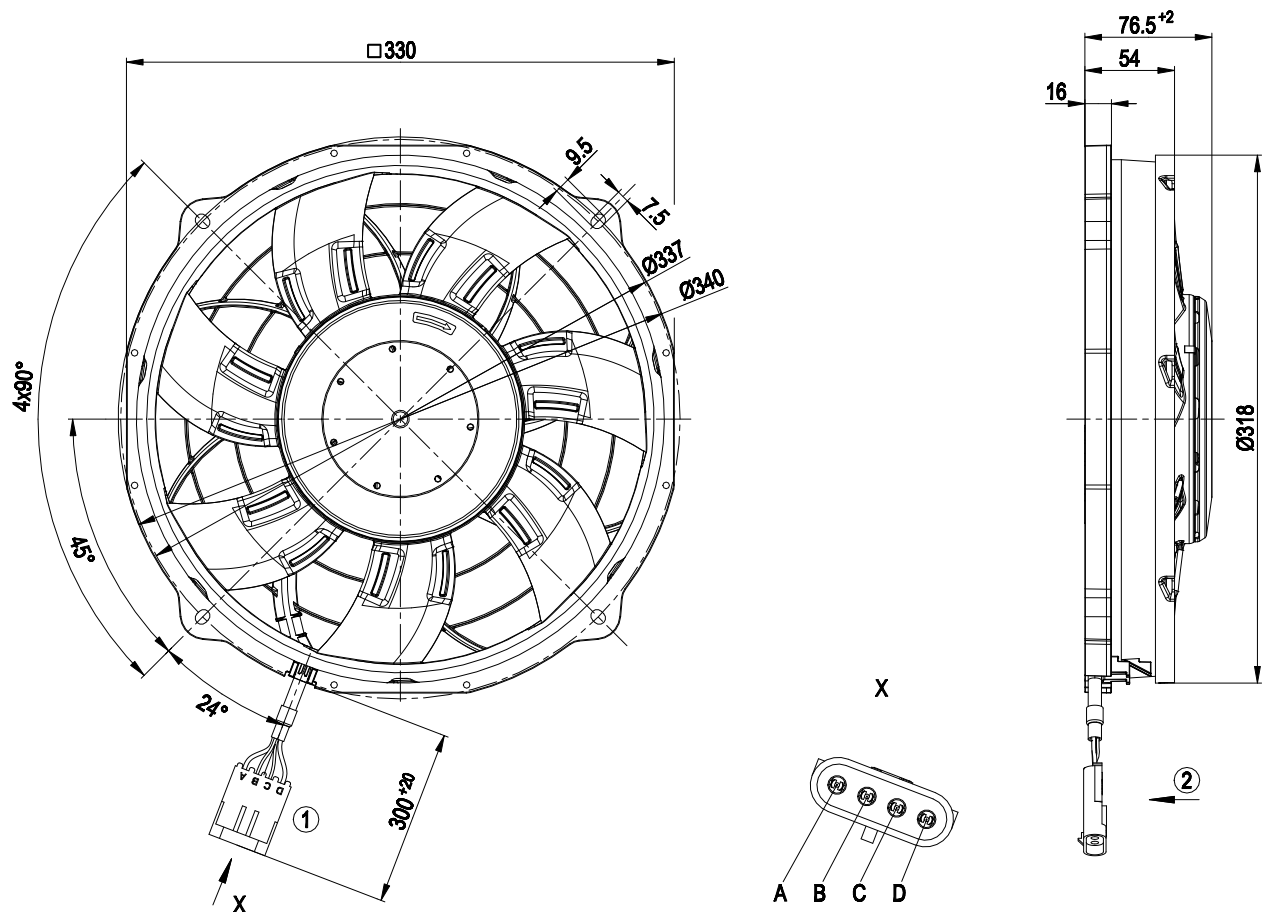


Technical features

Mass	2 kg
Size	300 mm
Motor size	84
Material of impeller	PA plastic
Material of wall ring	PA plastic
Direction of air flow	V
Balance quality according to DIN ISO 1940-1	G 10
Direction of rotation	Clockwise, seen on rotor
Type of protection	Motor IP24 KM, electronics IP6K9K
Insulation class	"B"
Humidity (F) / environmental protection class (H)	H4
Note ambient temperature	Over +85° C with power derating
Max. permissible ambient motor temp. (transp./ storage)	+110 °C
Min. permissible ambient motor temp. (transp./storage)	-40 °C
Mounting position	Any
Condensation drainage holes	None, open rotor
Operation mode	S1
Motor bearing	Ball bearing; (sealed)
Life expectancies	40,000 h (typical)
Technical features	- Lowering input - Fault output (high-side switch max. 30 mA) - INVLIN (control input, inverse linear) - Output limit - Load dump (58 V) - Motor current limit - Soft start - Control input 0-10 VDC / PWM - Temperature derating - Overvoltage detection - Over-temperature protected electronics - Line undervoltage detection
EMC directives	According to ECE R10 Rev. 3
Electrical connection	Connector with connection line; Standby current less than 500 µA
Motor protection	Reverse polarity and locked-rotor protection
Cable exit	Lateral
Approval	E1
Remark	Type approval number – 036433

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Product drawing

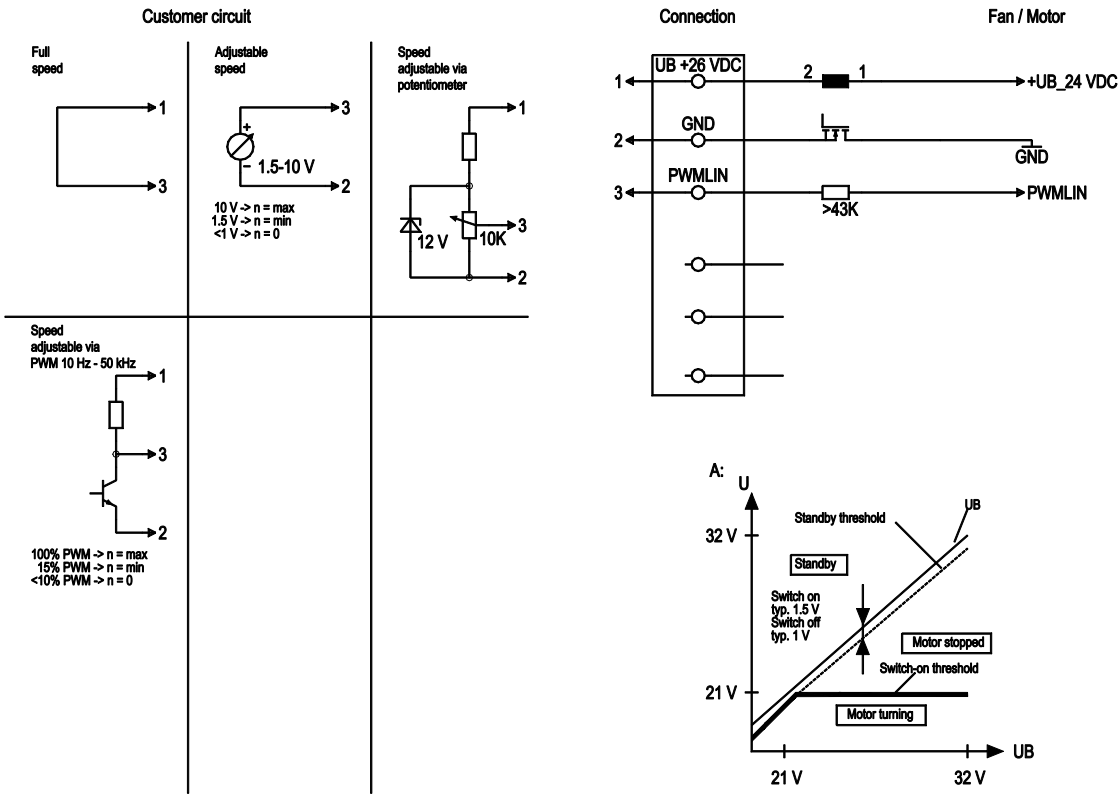


1	Connection line with Packard Electric connector, 4-pole coded (no. 12010974)
A	+ (red)
B	PWM/LIN (blue)
C	not used
D	GND (black)
2	Direction of air flow "V"
Customer circuit socket:	
Housing: Packard 120 15797	
Plug contacts: Packard 120 89188 and Packard 121 24580	
Seal: Packard 153 24982 and Packard 153 24983	



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Connection screen



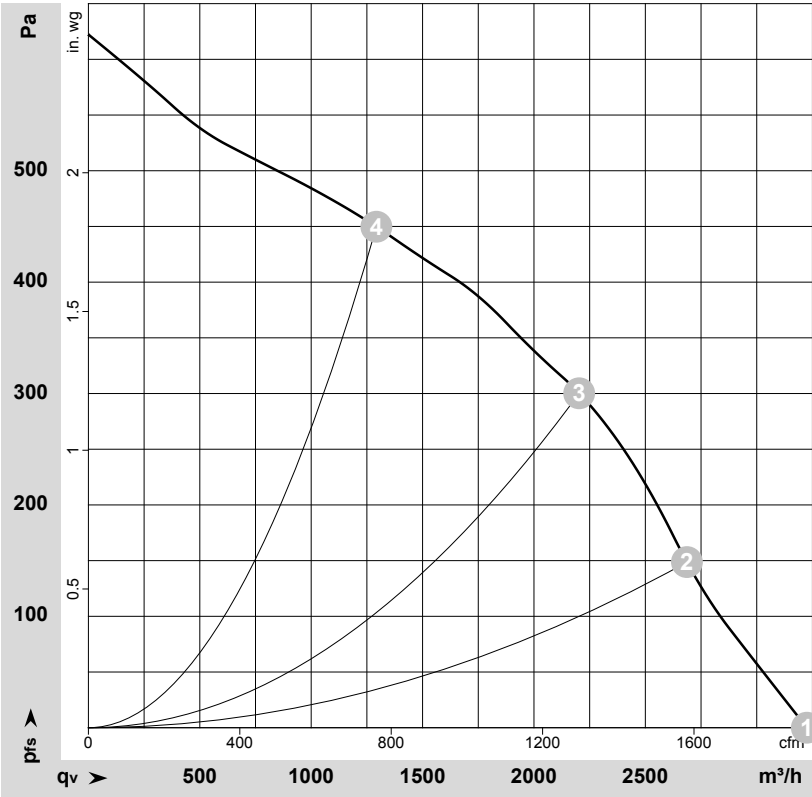
No.	Conn.	Designation	Function / assignment
1	A	UB +26 VDC	Power supply 26 VDC
2	D	GND	Power supply GND, reference earth
3	B	PWMLIN	Analogue voltage control input 0-10 V or PWM



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Charts: Air flow



$\rho = 1.15 \text{ kg/m}^3 \pm 2 \%$

Measurement: LU-141116-1

Air performance measured as per ISO 5801 Installation category A. For detailed information on the measuring set-up, please contact ebm-papst. Suction-side noise levels: L_{WA} measured as per ISO 13347 / L_{pA} measured with 1m distance to fan axis. The values given are valid under the measuring conditions mentioned above and may vary according to the actual installation situation. With any deviation from the standard set-up, the specific values have to be checked and reviewed with the unit installed.

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	26	3940	380	14.60	79	87	3225	0	1900	0.00
2	26	3820	405	15.55	79	87	2685	150	1580	0.60
3	26	3725	460	17.63	78	86	2205	300	1295	1.20
4	26	3620	504	19.36	82	89	1295	450	760	1.81

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

