

W3G300-ER40-77

EC axial fan

with brushless DC motor
Automotive



W3G300-ER40-77 ebmpapst Datasheet
sales@fansco.com
www.fansco.com

Nominal data

Type	W3G300-ER40-77	
Motor	M3G074-CF	
Nominal voltage	VDC	26
Method of obtaining data		fa
Speed (rpm)	min ⁻¹	2900
Power consumption	W	210
Current draw	A	8
Min. ambient temperature	°C	-40
Max. ambient temperature	°C	70

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



Technical description

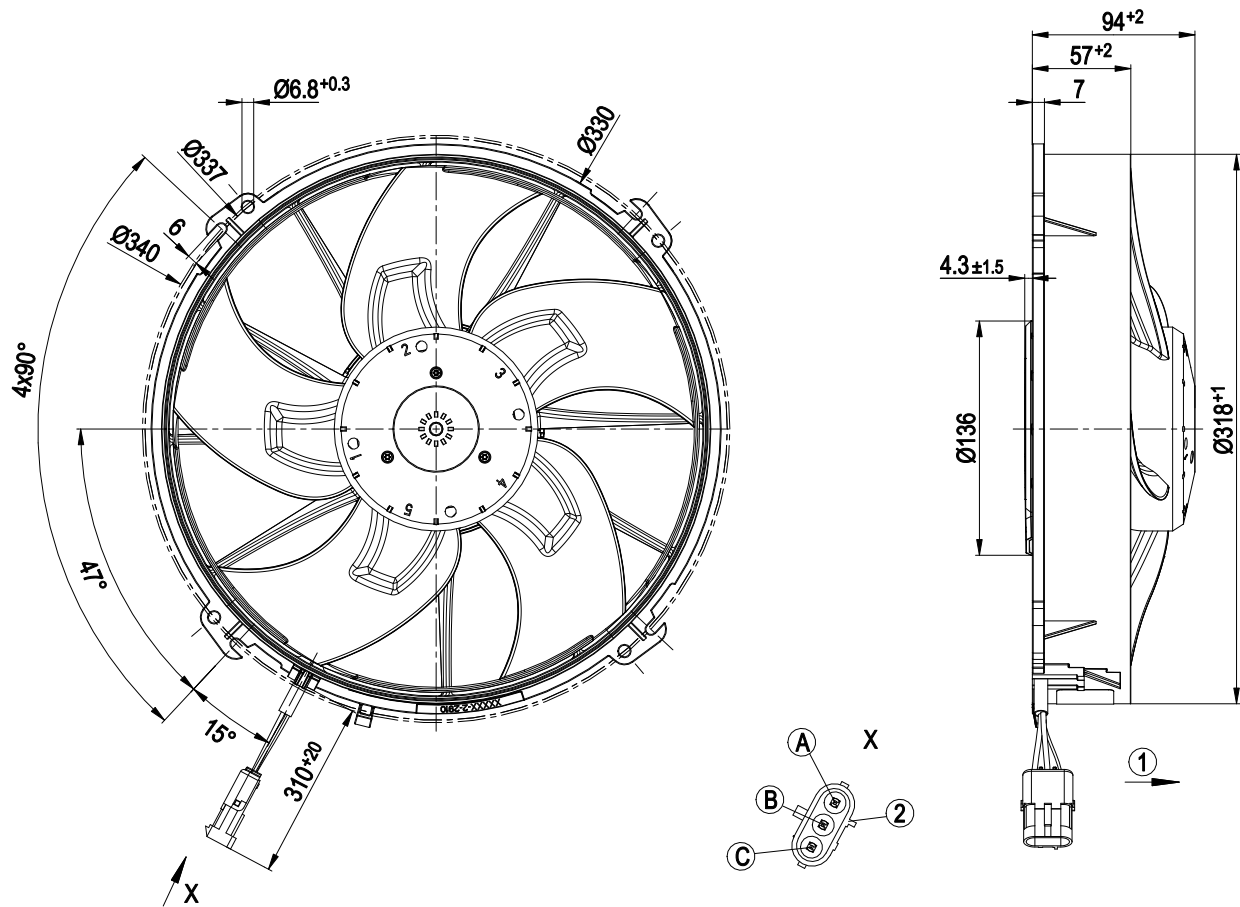
Weight	2.5 kg
Size	300 mm
Motor size	74
Impeller material	PBT plastic
Fan housing material	PP plastic
Number of blades	5
Airflow direction	A
Direction of rotation	Clockwise, viewed toward rotor
Degree of protection	Motor IP24 KM
Insulation class	"B"
Moisture (F) / Environmental (H) protection class	H2
Max. permitted ambient temp. for motor (transport/storage)	+70 °C
Min. permitted ambient temp. for motor (transport/storage)	-40 °C
Installation position	Any
Condensation drainage holes	None, open rotor
Cooling hole/opening	On rotor side
Mode	S1
Motor bearing	Ball bearing; (sealed)
Life expectancy	25,000 h (typical)
Technical features	- Load dump protection - Motor current limitation - Soft start - Control input 0-5 VDC - Standstill on cable break - Temperature limiter function - Overvoltage detection - Thermal overload protection for electronics - Line undervoltage detection - Reverse polarity protection
Electrical hookup	Connector with cable
Motor protection	Reverse polarity and locked-rotor protection
With cable	Lateral

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Product drawing



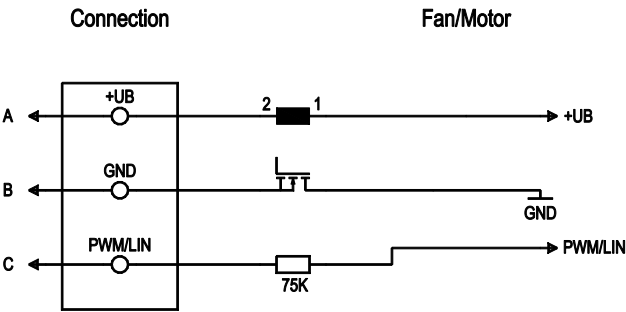
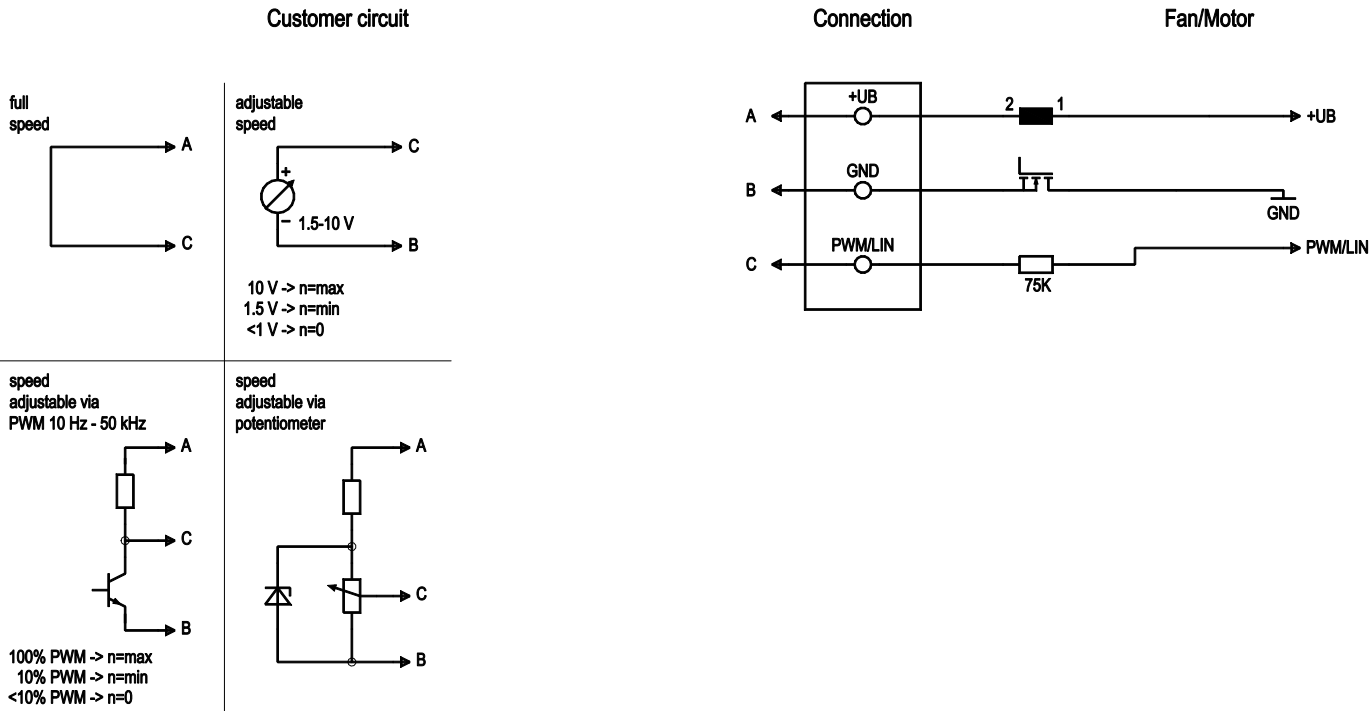
1	Direction of air flow "A"
2	Cable with 3-pole plug Aptiv 12010717, coded
	1x plug pin Aptiv 12124582
	2x plug pin Aptiv 12089040
	Cable with mating connector Aptiv "Weather Pack" 12020829 not included in scope of delivery
2.1	+ UB
2.2	GND
2.3	PWM/LIN



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Connection diagram

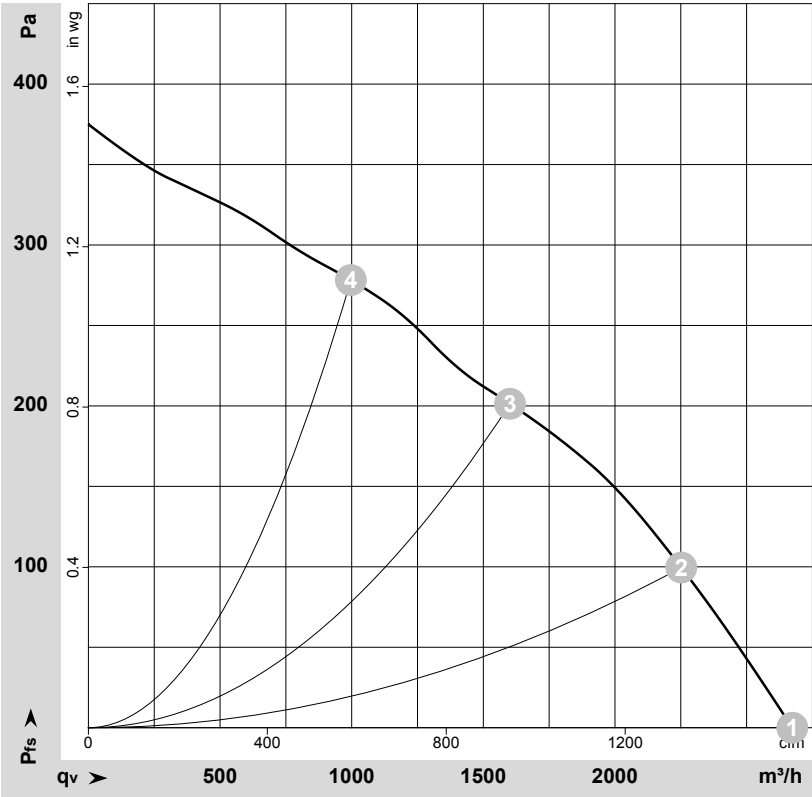


No.	Conn.	Designation	Function/assignment
	A	+UB	Power supply
	B	GND	Power supply GND, reference ground
	C	PWM/LIN	Analog voltage control input 0-10 V or PWM



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Curves: Air performance



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

Measurement: LU-127024-1

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	26	2900	210	8.00	2675	0	1575	0.00
2	26	2905	227	8.71	2250	100	1325	0.40
3	26	2890	246	9.49	1600	200	940	0.80
4	26	2765	277	10.65	995	280	585	1.12

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

