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Limited partnership · Headquarters Mulfingen  
County court Stuttgart · HRA 590344General partner Elektrobau Mulfingen GmbH · Headquarters Mulfingen  
County court Stuttgart · HRB 590142**Nominal data**

<b>Type</b>	<b>W3G300-BV25-23</b>	
<b>Motor</b>	<b>M3G084-BF</b>	
Nominal voltage	VDC	26
Nominal voltage range	VDC	16 .. 32
Type of data definition		fa
Speed	min <sup>-1</sup>	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

**Data according to ErP directive**

Installation category	A
Efficiency category	Static
Variable speed drive	Yes
Specific ratio*	1.00

\* Specific ratio =  $1 + p_b / 100\,000\text{ Pa}$

		Actual	Request 2013	Request 2015
Overall efficiency $\eta_{es}$	%	44.8	27.5	31.5
Efficiency grade N		53.3	36	40
Power input $P_e$	kW	0.46		
Air flow $q_v$	m <sup>3</sup> /h	2205		
Pressure increase $p_{fs}$	Pa	306		
Speed n	min <sup>-1</sup>	3720		

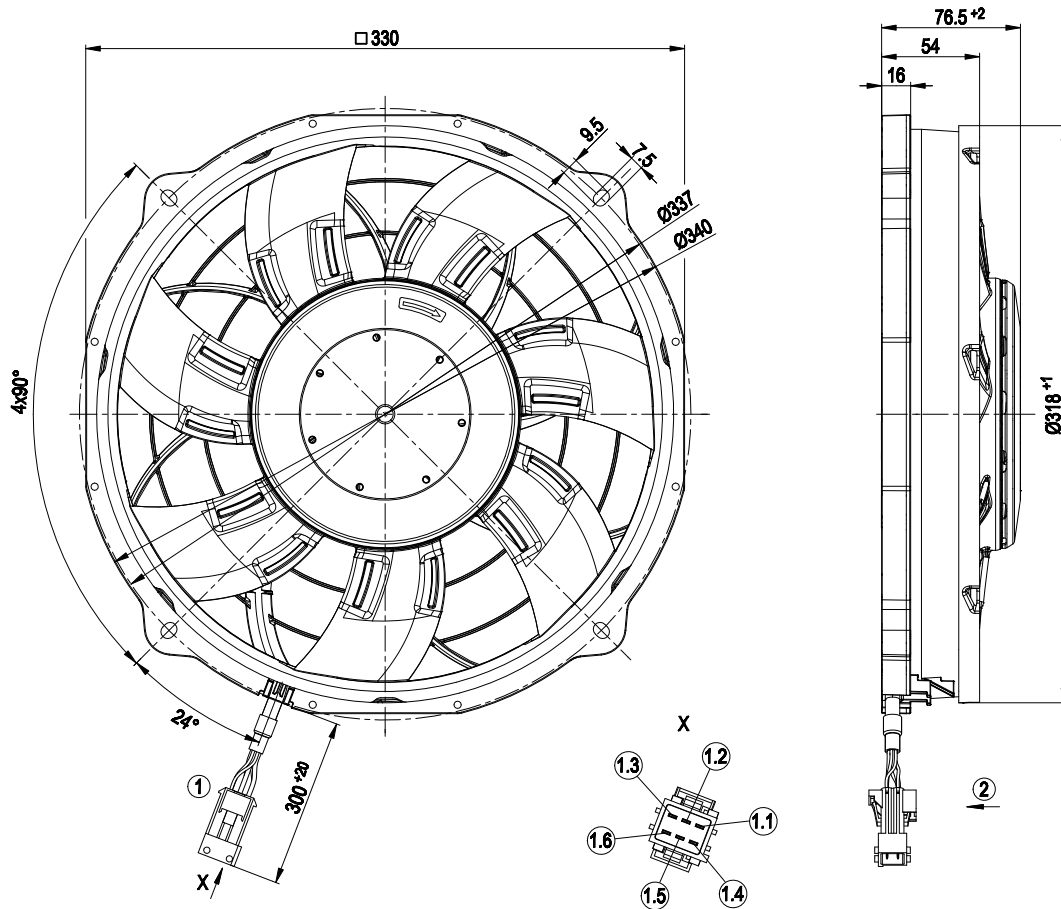
Data definition with optimum efficiency.  
The ErP data is determined using a motor-impeller combination in a standardised measurement configuration.



### Technical features

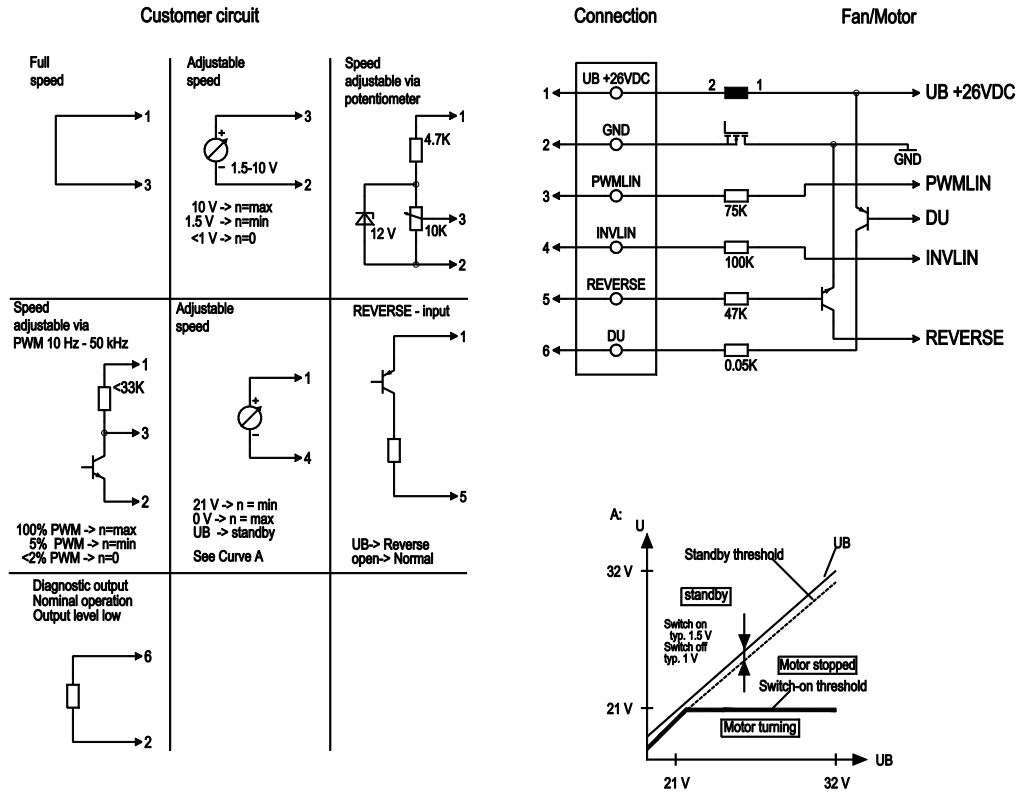
<b>Mass</b>	2 kg
<b>Size</b>	300 mm
<b>Material of impeller</b>	PA plastic
<b>Material of wall ring</b>	PA plastic
<b>Number of blades</b>	7
<b>Direction of air flow</b>	"V"
<b>Direction of rotation</b>	Clockwise, seen on rotor
<b>Type of protection</b>	IP 24 KM; (Motor); electronics IP 66 / 69 K
<b>Insulation class</b>	"B"
<b>Humidity class</b>	F4-1
<b>Max. permissible ambient motor temp. (transp./ storage)</b>	+110 °C
<b>Min. permissible ambient motor temp. (transp./storage)</b>	-40 °C
<b>Mounting position</b>	Any
<b>Condensate discharge holes</b>	None, open rotor
<b>Operation mode</b>	S1
<b>Motor bearing</b>	Ball bearing
<b>Technical features</b>	<ul style="list-style-type: none"> <li>- Direction of rotation selection counter-clockwise / clockwise</li> <li>- Fault output (high-side switch max. 30 mA)</li> <li>- Output limit</li> <li>- Motor current limit</li> <li>- Soft start</li> </ul>
<b>EMC directives</b>	ECE R10 Rev.3
<b>Electrical leads</b>	With plug
<b>Motor protection</b>	Reverse polarity and locked-rotor protection
<b>Cable exit</b>	Lateral

Product drawing



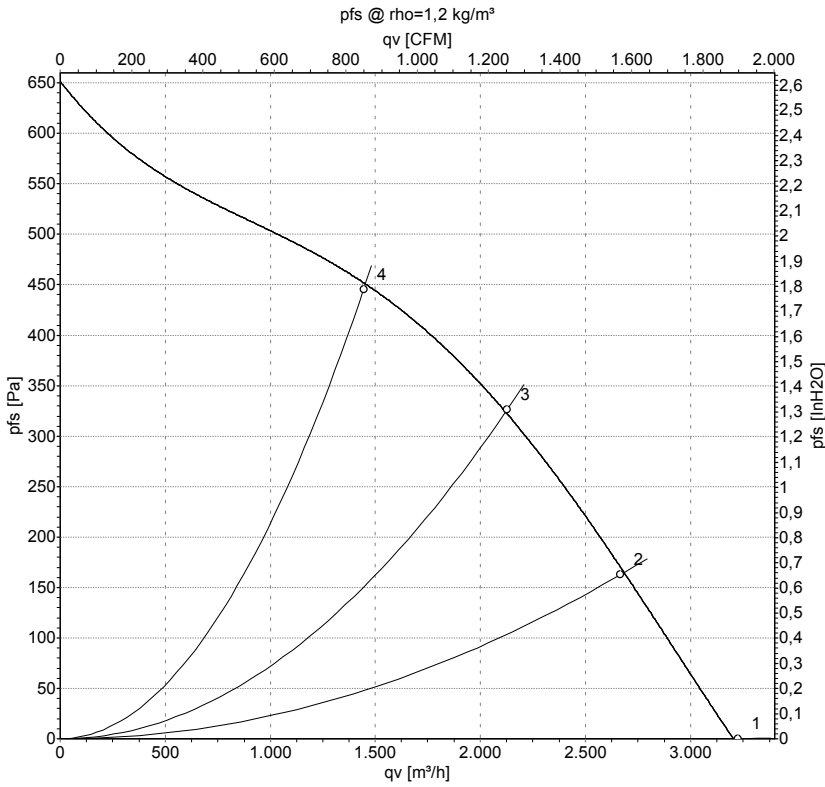
1	Connection line with plug AMP Junior Power Timer, 6-pole, coded Accessory part: connection line (460 mm) with mating connector Part No. 02002-4-1021 not included in the standard scope of delivery
1.1	+ UB (black)
1.2	GND (brown)
1.3	PWMLIN (yellow) optional LIN-BUS
1.4	INVLIN (orange)
1.5	Reverse (blue)
1.6	Diagnostic output (white)
2	Direction of air flow "V"

## Connection screen



No.	Pin	Signal	Function / assignment
	1	UB +26 VDC	Power supply 26 VDC
	2	GND	Power supply GND, reference ground
	3	PWMLIN	Analogue voltage control input 0-10 V or PWM
	4	INVLIN	Control input, inverse linear
	5	REVERSE	Input for changing direction of rotation
	6	DU	Diagnostic output

## Charts: Air flow



Measurement: LU-141116

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: LwA measured as per ISO 13347 / LpA 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 <sub>ed</sub>	I	LpA <sub>in</sub>	LwA <sub>in</sub>	qv	p <sub>fs</sub>
	V	min <sup>-1</sup>	W	A	dB(A)	dB(A)	m <sup>3</sup> /h	Pa
1	26	3940	380	14.60	79	87	3225	0
2	26	3815	408	15.68	79	87	2665	160
3	26	3715	462	17.74	78	85	2130	325
4	26	3630	495	19.01	81	88	1445	445

U = Supply voltage · n = Speed · P<sub>ed</sub> = Power input · I = Current draw · LpA<sub>in</sub> = Sound pressure level inlet side · LwA<sub>in</sub> = Sound power level inlet side · qv = Air flow · p<sub>fs</sub> = Pressure increase

