8300100468

VWLG275XJNWZ

EC axial fan

with brushless DC motor

Automotive

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Nominal data

Item	**8300100468**
Motor	**E07425-10**

Nominal voltage	VDC	26
Nominal voltage range	VDC	16 .. 32
Method of obtaining data		fa
Speed (rpm)	min^{-1}	3000
Power consumption	W	110
Current draw	A	4.2
Max. back pressure	Pa	170
Max. back pressure	in. wg	0.68
Min. ambient temperature	°C	-40
Max. ambient temperature	°C	40

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

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Technical description

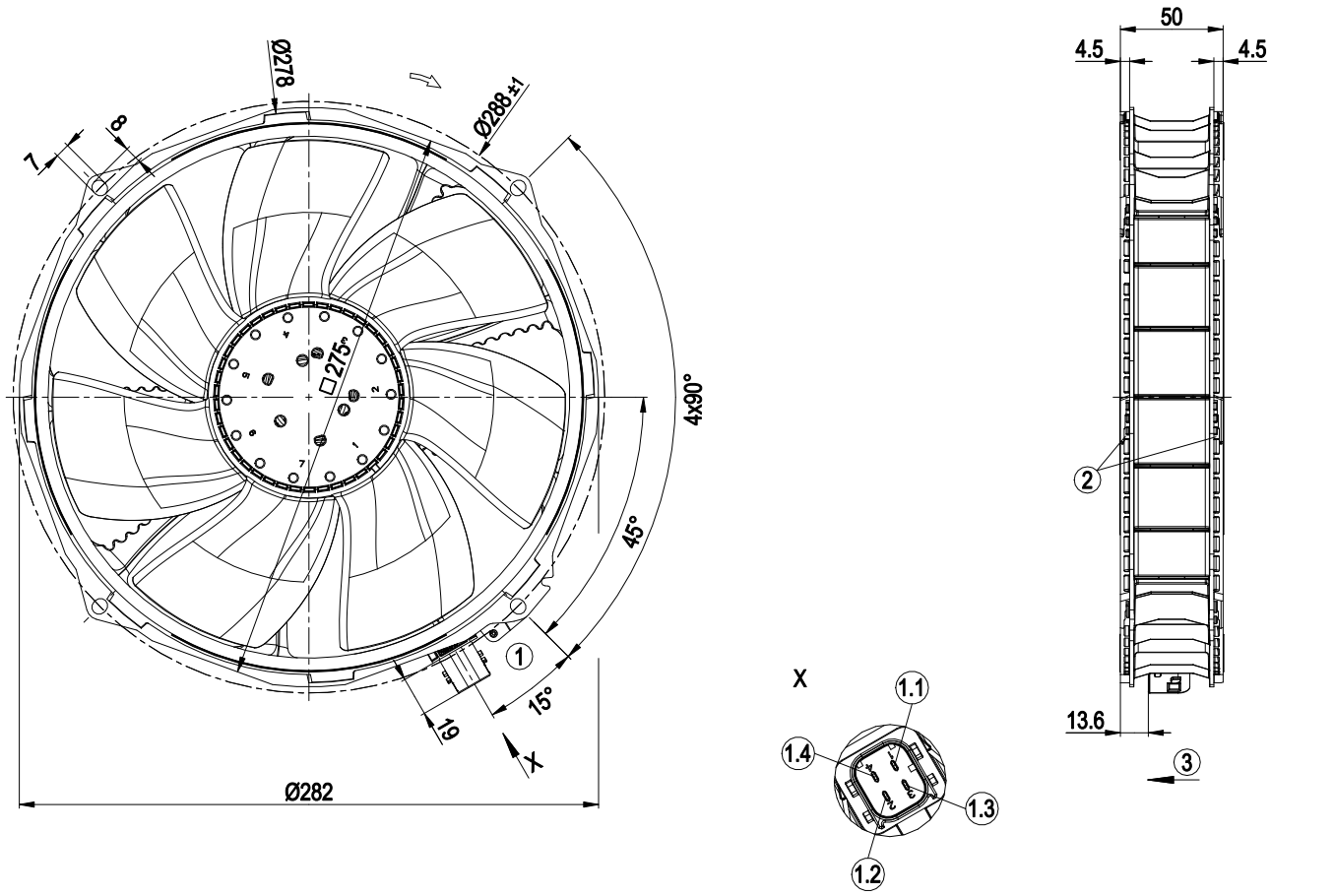
Weight	1.1 kg
Size	250 mm
Motor size	74
Blade material	PP plastic
Fan housing material	PA plastic
Number of blades	7
Airflow direction	V
Direction of rotation	Clockwise, viewed toward rotor
Degree of protection	Motor IP24 KM, electronics IP6K9K (mating connector installed)
Insulation class	"B"
Moisture (F) / Environmental (H) protection class	H4
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
Mode	S1
Motor bearing	Ball bearing with low-temperature lubricant; (sealed)
Life expectancy	40,000 h (depending on load profile and ambient conditions)
Technical features	- Tach output - Power limiter - Load dump (58 V) - Motor current limitation - Soft start - Control input 0-10 VDC / PWM - Temperature derating - Reverse polarity protection
Electrical hookup	Plug; Standby current less than 350 µA

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Product drawing



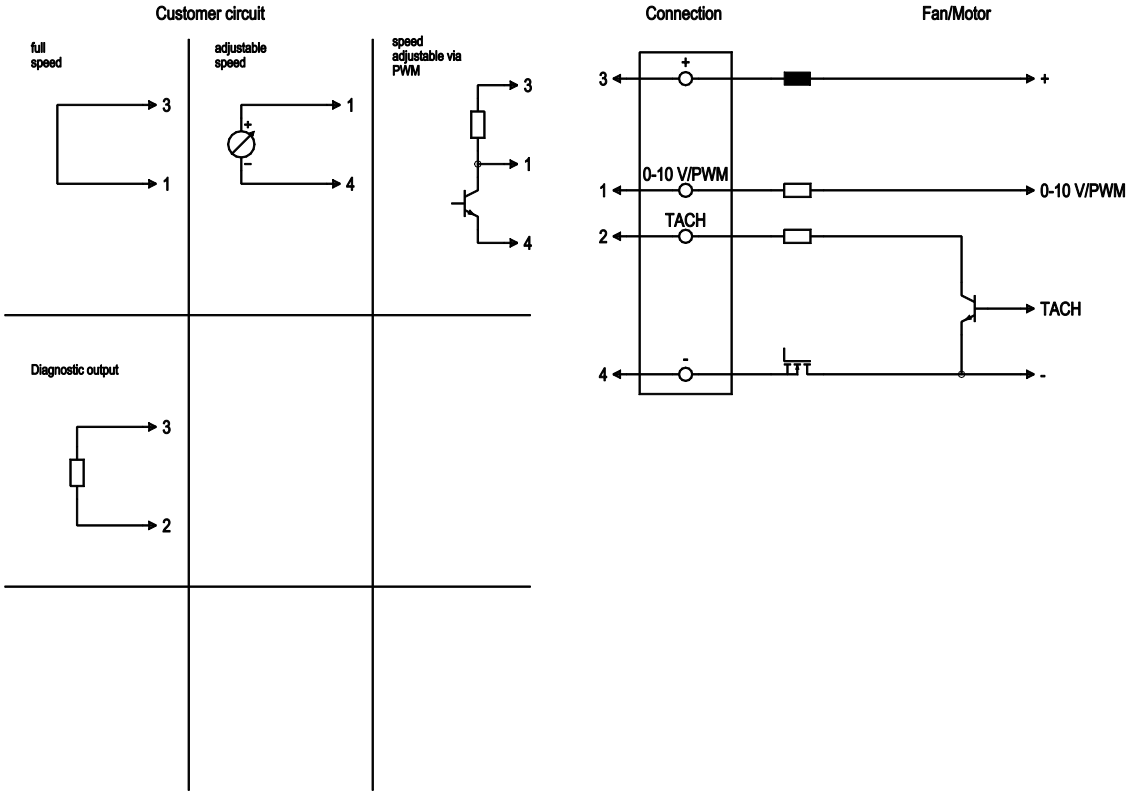
1	4-pole plug, pluggable with cable from accessories
1.1	PWM/LIN
1.2	Tach
1.3	+ UB
1.4	GND
	Accessory part: Cable (460 mm) with mating connector, part no. 02025-4-1021 not included in scope of delivery 4-pole mating connector TE 1-1418390-1, 2x socket TE 968857-1, 2x socket TE 968855-1, 2x seal TE 828905-1, 2x seal TE 828904-1
	Accessory part: Guard grill (18605-2-4039) not included in scope of delivery
2	Bayonet attachment (both sides) for sheet metal or plastic 1.5, 2.0 or 2.5 mm thick
	Alternatively four fastening holes in each case (on both sides)
	A detailed drawing of the recess required for bayonet attachment can be obtained from ebm-papst.
3	Airflow direction "V"

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Connection diagram



No.	Conn.	Designation	Function/assignment
	3	+	Power supply +
	1	0-10 V / PWM	Typical values Control input Ri > 36 kΩ 0-10 V: - < 1 V ⇒ n=0 - 1,5 V ⇒ n=min - > 9.5 V ⇒ n=max or PWM (> 10 V; 1-10 kHz): - < 4 % ⇒ n=0 - 10 % ⇒ n=min - > 95% ⇒ n=max
	2	Tacho	Tach output: open collector, 1 pulse per revolution, Isink max = 10 mA, Ri = 2.1 kΩ
	4	-	Power supply -

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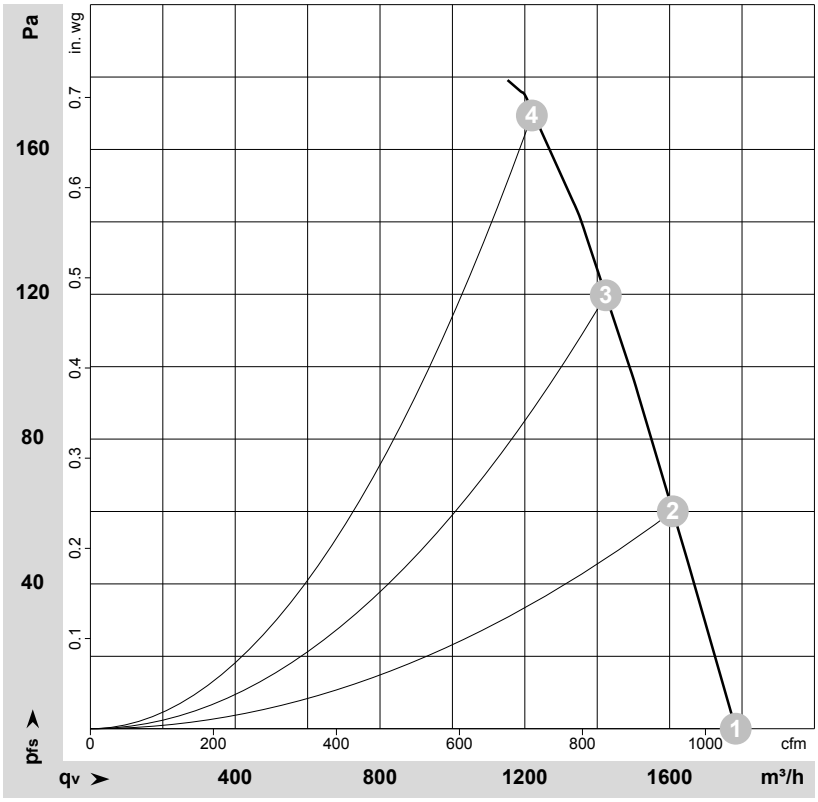
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Curves: Air performance



ρ = 1.15 kg/m³ ± 2 %

Measurement: LU-189573-1

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_e	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	3000	110	4.20	69	77	1785	0	1050	0.00
2	26	2905	118	4.56	67	75	1610	60	945	0.24
3	26	2855	128	4.95	66	74	1425	120	840	0.48
4	26	2835	136	5.27	68	75	1220	170	715	0.68

U = Voltage · n = Speed (rpm) · P_e = Power consumption · I = Current draw · LpA_{in} = Sound pressure level intake side · LwA_{in} = Sound power level intake side · q_V = Air flow
p_{fs} = Pressure increase

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