W2G130-AA33-31

EC axial compact fan

sickle-shaped blades (S series)

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Nominal data

Type	**W2G130-AA33-31**
Motor	**M2G055-BD**

Nominal voltage	VDC	24
Nominal voltage range	VDC	16 .. 28
Frequency	Hz	-
Method of obtaining data		fa
Speed (rpm)	min^{-1}	3150
Power consumption	W	16
Current draw	A	0.74
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	0.9 kg
Size	130 mm
Motor size	55
Rotor surface	Painted black
Blade material	Sheet steel, painted black
Fan housing material	Die-cast aluminum, painted black
Number of blades	7
Airflow direction	V
Direction of rotation	Counterclockwise, viewed toward rotor
Degree of protection	IP20
Insulation class	"B"
Moisture (F) / Environmental (H) protection class	H0 - dry environment
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 bearing	Ball bearing
Technical features	- Tach output - Motor current limitation - Reverse polarity protection
Electrical hookup	Connector with cable
Protection class assignment	III; Requires supply with safety extra-low voltage SELV. This component for installation may have several local protection classes. This information relates to this component's basic design. The final protection class is based on the component's intended installation and connection. If there is a PE connection point on the housing, it must not be visible after installation.
Conformity with standards	EN 62368-1
Approval	EAC; UL 507

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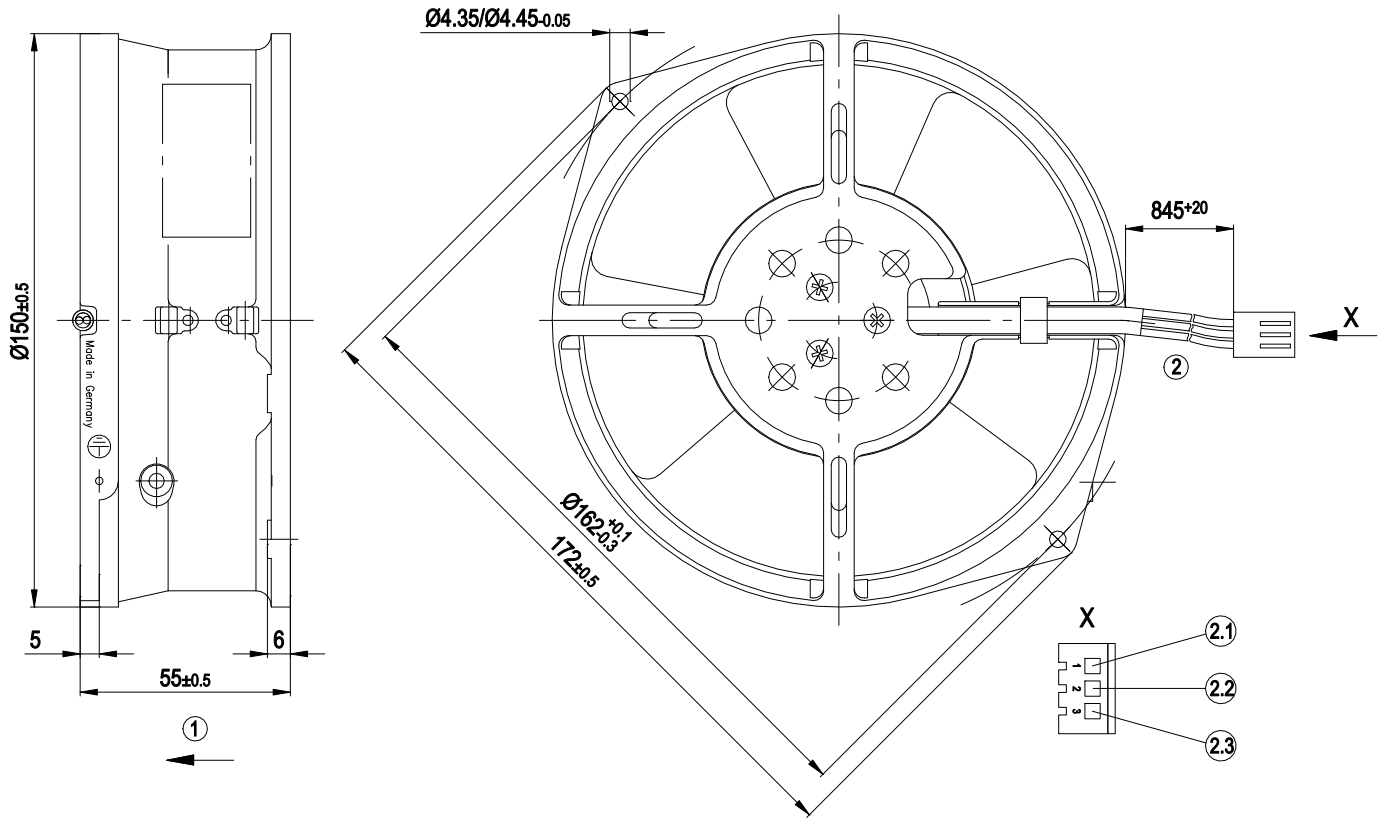
Product drawing



1	Direction of air flow "V"
2	Connector housing (Molex 09-50-3031), cable AWG20 with 3x plug (Molex 08-50-0105)
2.1	+ (red)
2.2	s (white)
2.3	- (blue)

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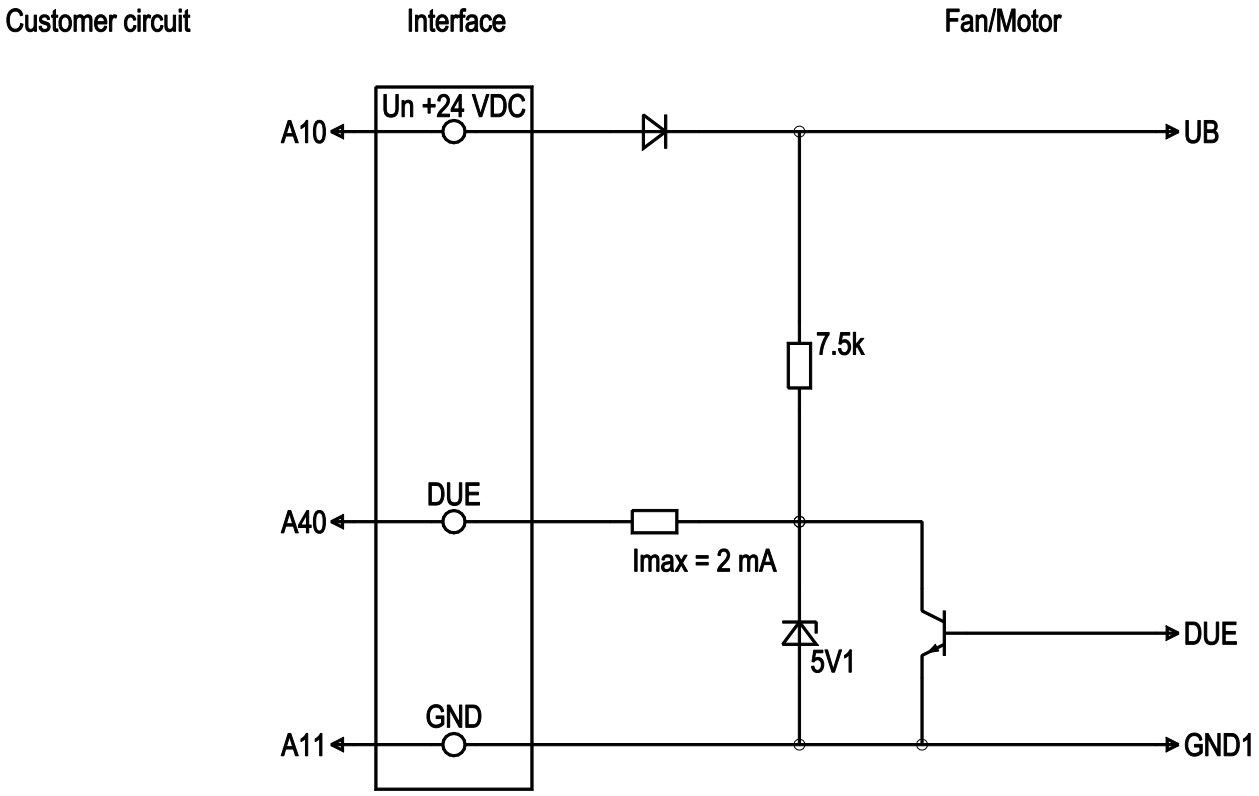
Connection diagram



No.	Conn.	Designation	Color	Function/assignment
	A10	+24 VDC	red	Power supply 24 VDC, see nameplate for voltage range, maximum ripple 3.5%
	A40	Tach	white	Speed monitoring, 2 pulses per revolution, Isource max. 2 mA/optional
	A11	GND	blue	Reference ground

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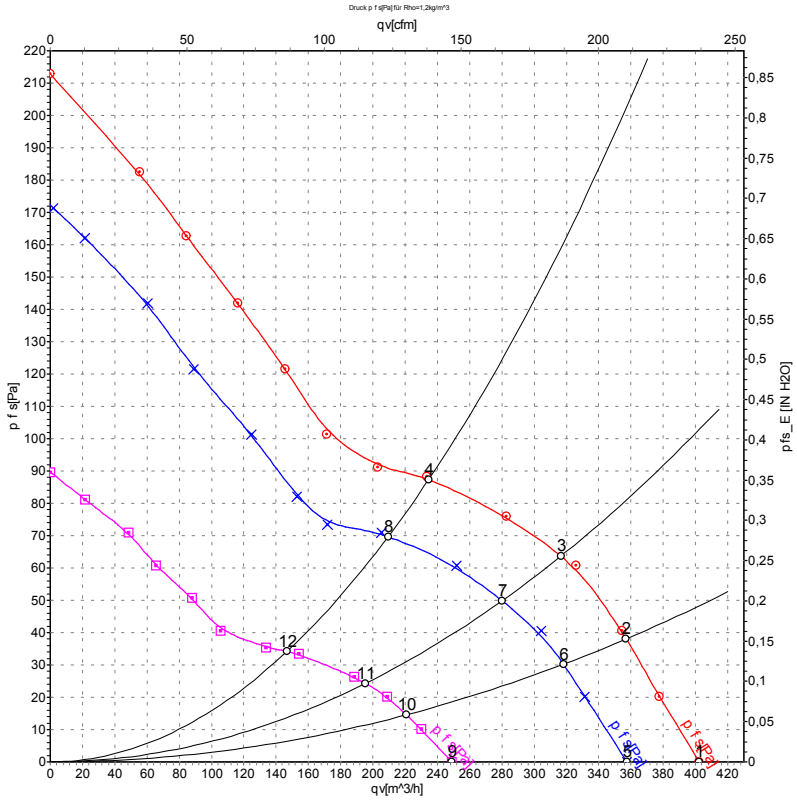
Curves: Air performance



Measurement: LU-47058-1
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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	28	3555	21	0.80	400	0	235	0.00
2	28	3490	22	0.82	355	38	210	0.15
3	28	3430	23	0.84	315	64	185	0.26
4	28	3400	23	0.86	235	88	140	0.35
5	24	3150	16	0.74	360	0	210	0.00
6	24	3105	17	0.75	320	30	185	0.12
7	24	3060	17	0.76	280	50	165	0.20
8	24	3040	17	0.77	210	70	125	0.28
9	16	2210	6.7	0.58	250	0	145	0.00
10	16	2180	7.0	0.59	220	15	130	0.06
11	16	2160	7.3	0.60	195	24	115	0.10
12	16	2155	7.3	0.60	145	34	85	0.14

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

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