W2G130-AA33-31

EC axial compact fan

sickle-shaped blades (S series)

ebm-papst Mulfingen GmbH & Co. KG
Bachmühle 2 · D-74673 Mulfingen
Phone +49 7938 81-0
Fax +49 7938 81-110
info1@de.ebmpapst.com
www.ebmpapst.com

Limited partnership · Headquarters Mulfingen
Amtsgericht (court of registration) Stuttgart · HRA 590344

General partner Elektrobau Mulfingen GmbH · Headquarters Mulfingen
Amtsgericht (court of registration) Stuttgart · HRB 590142

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

EC axial compact fan

sickle-shaped blades (S series)

Technical description

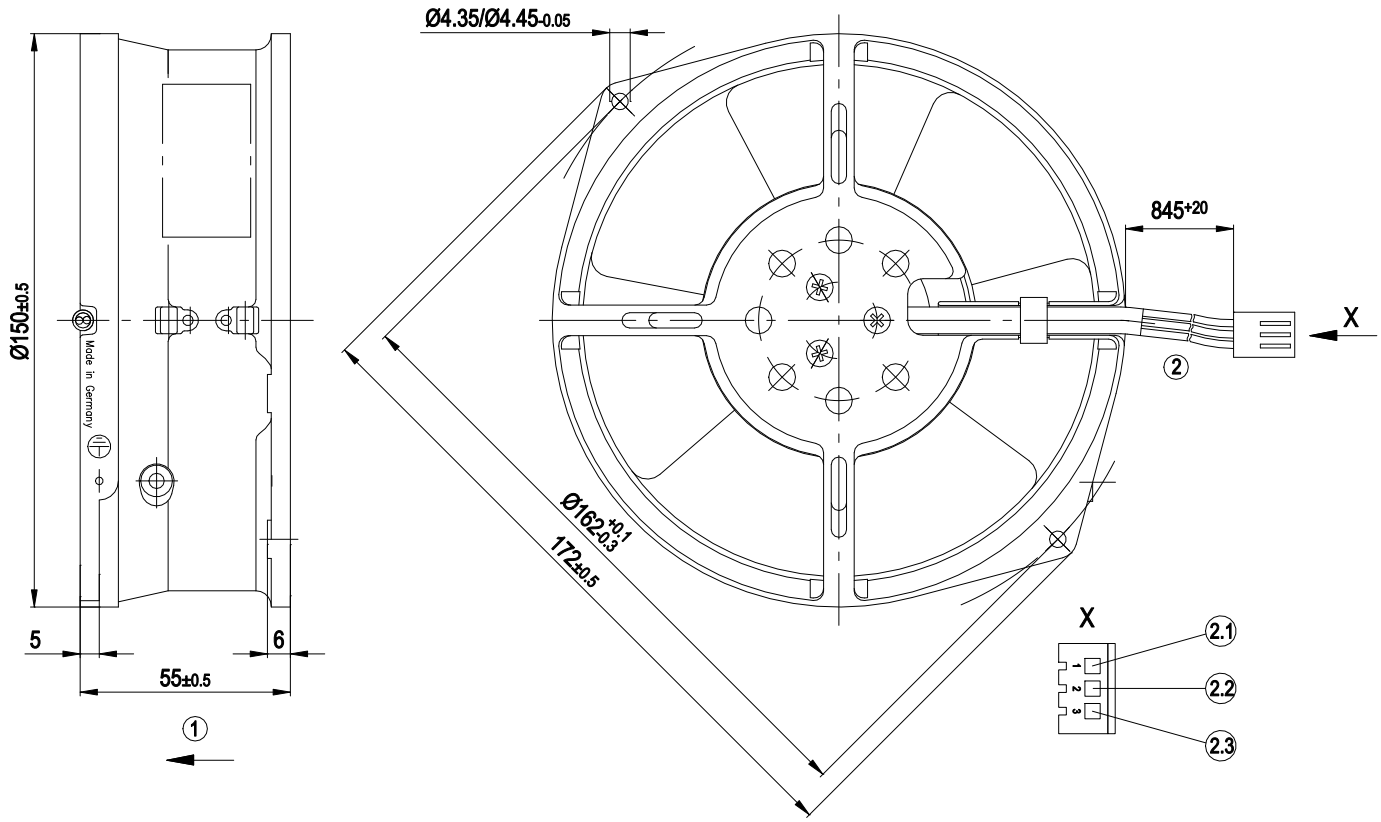
Weight	0.9 kg
Size	130 mm
Motor size	55
Rotor surface	Painted black
Blade material	Sheet steel, painted black
Fan housing material	Die-cast aluminum, painted black
Number of blades	7
Airflow direction	V
Direction of rotation	Counterclockwise, viewed toward rotor
Degree of protection	IP20
Insulation class	"B"
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 mounting	Ball bearing
Technical features	- Tach output - Motor current limitation
Electrical hookup	Plug
Motor protection	Reverse polarity and locked-rotor protection
Conformity with standards	EN 60950-1
Approval	UL 507; EAC

ebm-papst Mulfingen GmbH & Co. KG · Bachmühle 2 · D-74673 Mulfingen · Phone +49 (0) 7938 81-0 · Fax +49 (0) 7938 81-110 · info1@de.ebmpapst.com · www.ebmpapst.com

EC axial compact fan

sickle-shaped blades (S series)

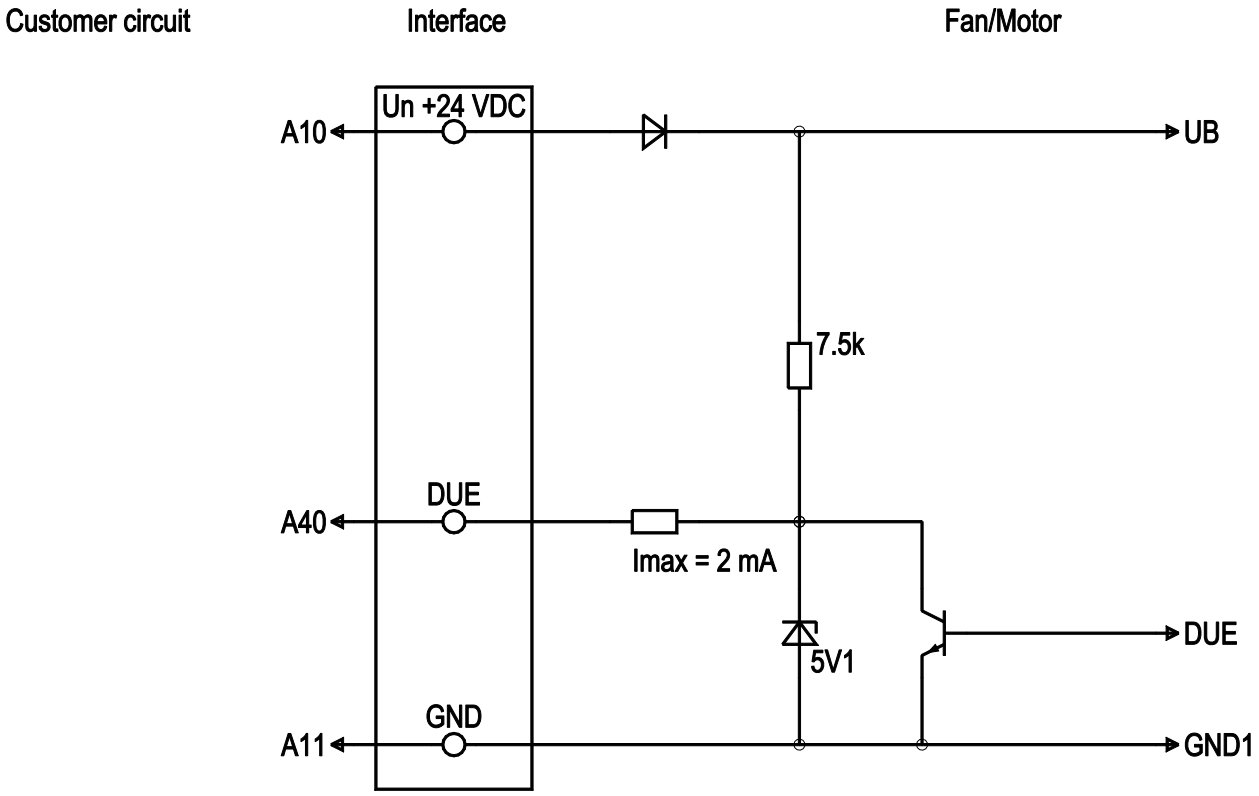
Product drawing



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)

ebm-papst Mulfingen GmbH & Co. KG · Bachmühle 2 · D-74673 Mulfingen · Phone +49 (0) 7938 81-0 · Fax +49 (0) 7938 81-110 · info1@de.ebmpapst.com · www.ebmpapst.com

Connection diagram



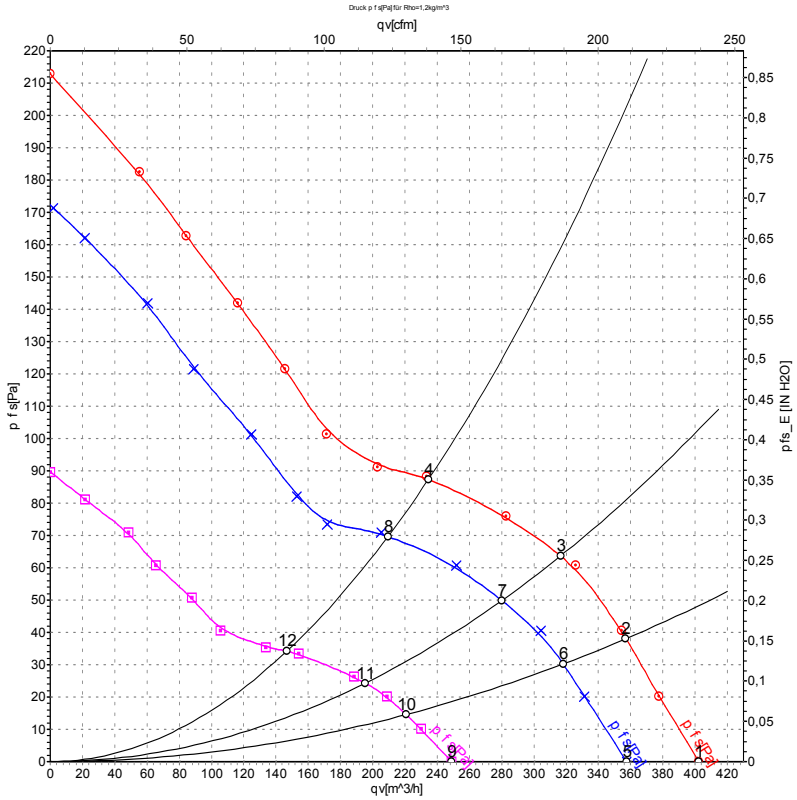
No.	Conn.	Designation	Color	Function/assignment
	A10	+24 VDC	red	Power supply 24 VDC, see nameplate for voltage range, maximum ripple 3.5%
	A40	Tach	white	Speed monitoring, 2 pulses per revolution, Isource max. 2 mA/optional
	A11	GND	blue	Reference ground

ebm-papst Mulfingen GmbH & Co. KG · Bachmühle 2 · D-74673 Mulfingen · Phone +49 (0) 7938 81-0 · Fax +49 (0) 7938 81-110 · info1@de.ebmpapst.com · www.ebmpapst.com

EC axial compact fan

sickle-shaped blades (S series)

Curves: Air performance



Measurement: LU-47058-1
Measurement: LU-47057-1
Measurement: LU-47059-1

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

ebm-papst Mulfingen GmbH & Co. KG · Bachmühle 2 · D-74673 Mulfingen · Phone +49 (0) 7938 81-0 · Fax +49 (0) 7938 81-110 · info1@de.ebmpapst.com · www.ebmpapst.com