

W2G130-AA33-31 ebmpapst Datasheet

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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

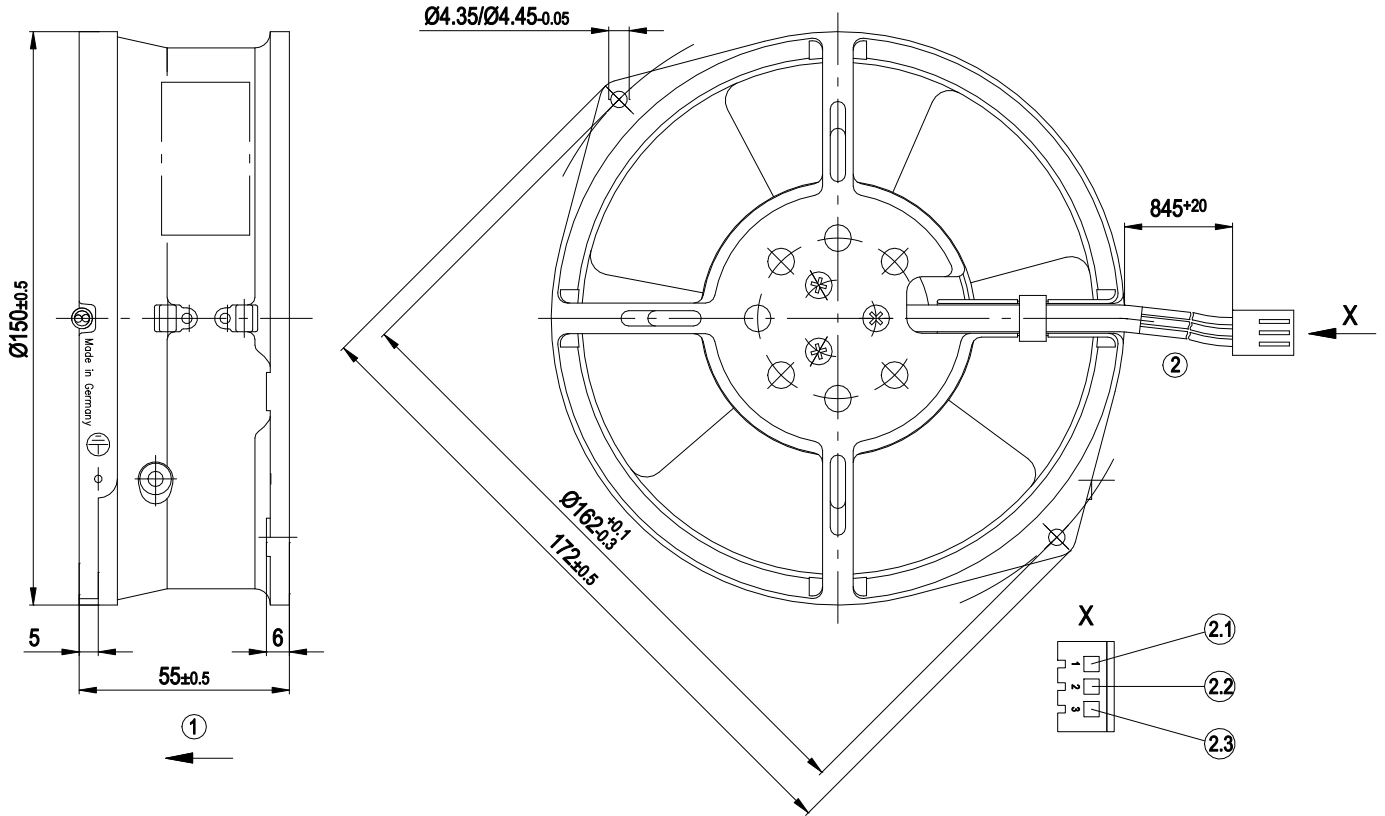


Technical description

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



Product drawing

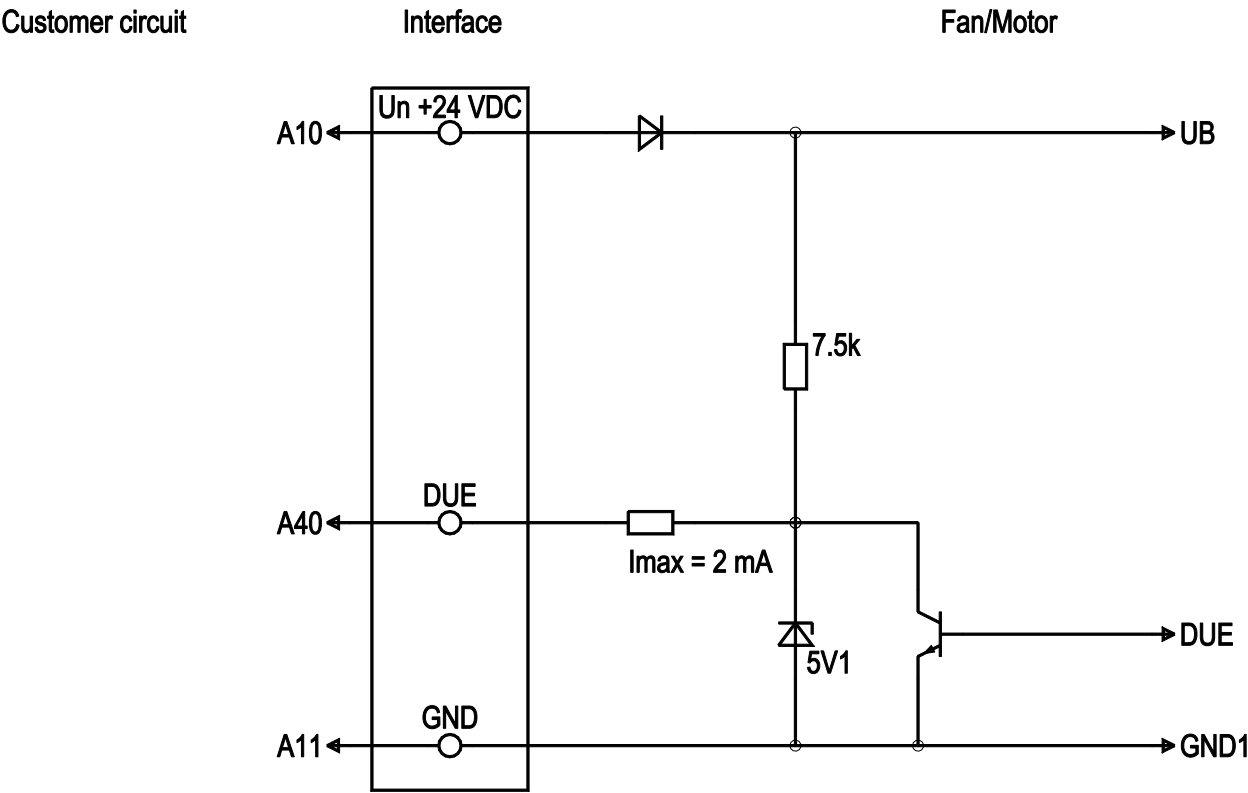


1	Direction of air flow "V"
2	Connector housing (Molex 09-50-3031), cable AWG20 with 3x plug (Molex 08-50-0105)
2.1	+ (red)
2.2	s (white)
2.3	- (blue)

EC axial compact fan

sickle-shaped blades (S series)

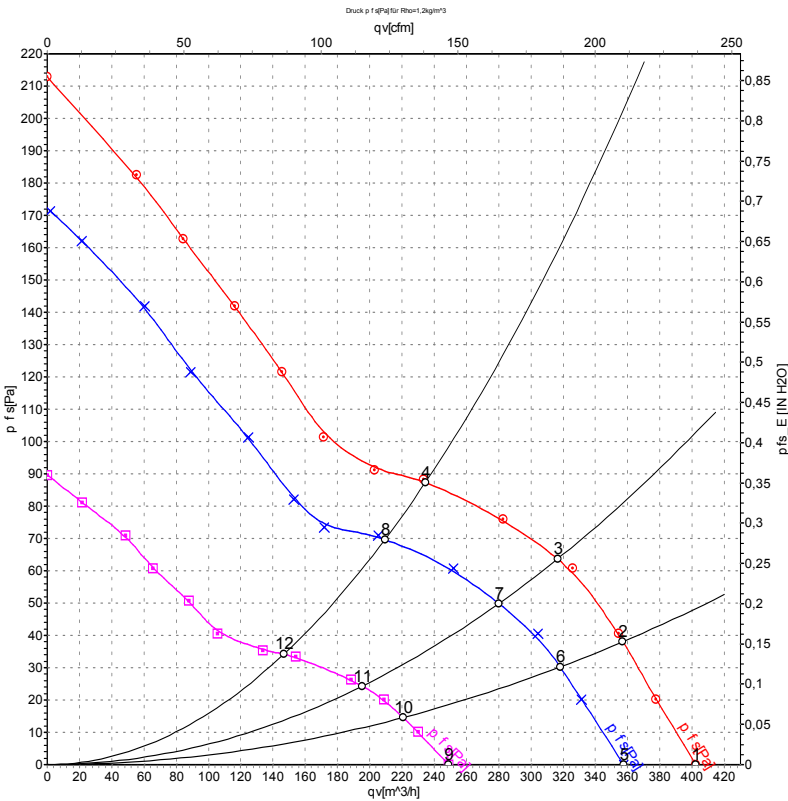
Connection diagram



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, I _{source} max. 2 mA/optional
	A11	GND	blue	Reference ground



Curves: Air performance



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

