W1G200-HH01-50

EC axial compact fan

sickled blades (S series)



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Nominal data

Type	**W1G200-HH01-50**
Motor	**M1G074-BF**

Nominal voltage	VDC	48
Nominal voltage range	VDC	36 .. 57
Frequency	Hz	-
Type of data definition		fa
Speed	min^{-1}	2950
Power input	W	55
Current draw	A	1.3
Min. ambient temperature	°C	-25
Max. ambient temperature	°C	60

ml = Max. load · me = Max. efficiency · fa = Running at free air · cs = Customer specs · cu = Customer unit
Subject to alterations

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Technical features

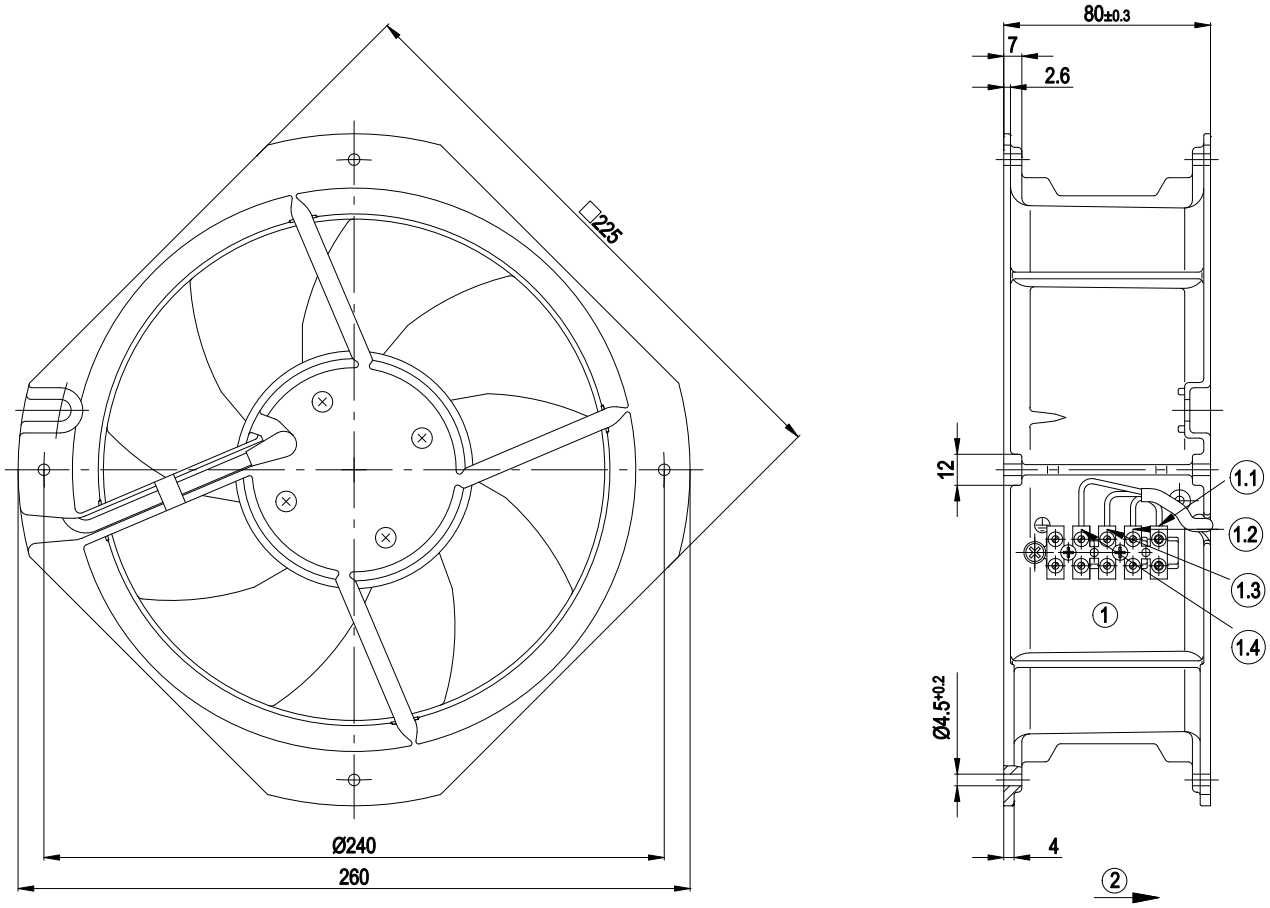
Mass	2.1 kg
Size	200 mm
Surface of rotor	Coated in black
Material of blades	Sheet steel, coated in black
Material of wall ring	Die-cast aluminium
Number of blades	9
Direction of air flow	"V"
Direction of rotation	Counter-clockwise, seen on rotor
Type of protection	IP 42
Insulation class	"B"
Humidity class	F0
Max. permissible ambient motor temp. (transp./ storage)	+ 80 °C
Min. permissible ambient motor temp. (transp./storage)	- 40 °C
Mounting position	Any
Condensate discharge holes	None
Operation mode	S1
Motor bearing	Ball bearing
Technical features	- Control input 0-10 VDC / PWM - Line undervoltage detection - Motor current limit - Soft start
EMC interference immunity	Acc. to EN 61000-6-2 (industrial environment)
EMC interference emission	Acc. to EN 55022 (Class B)
Electrical leads	Via terminal strip
Motor protection	Reverse polarity and locked-rotor protection
Product conforming to standard	EN 60950-1
Approval	UL 1004-1; CSA C22.2 Nr.77

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Product drawing



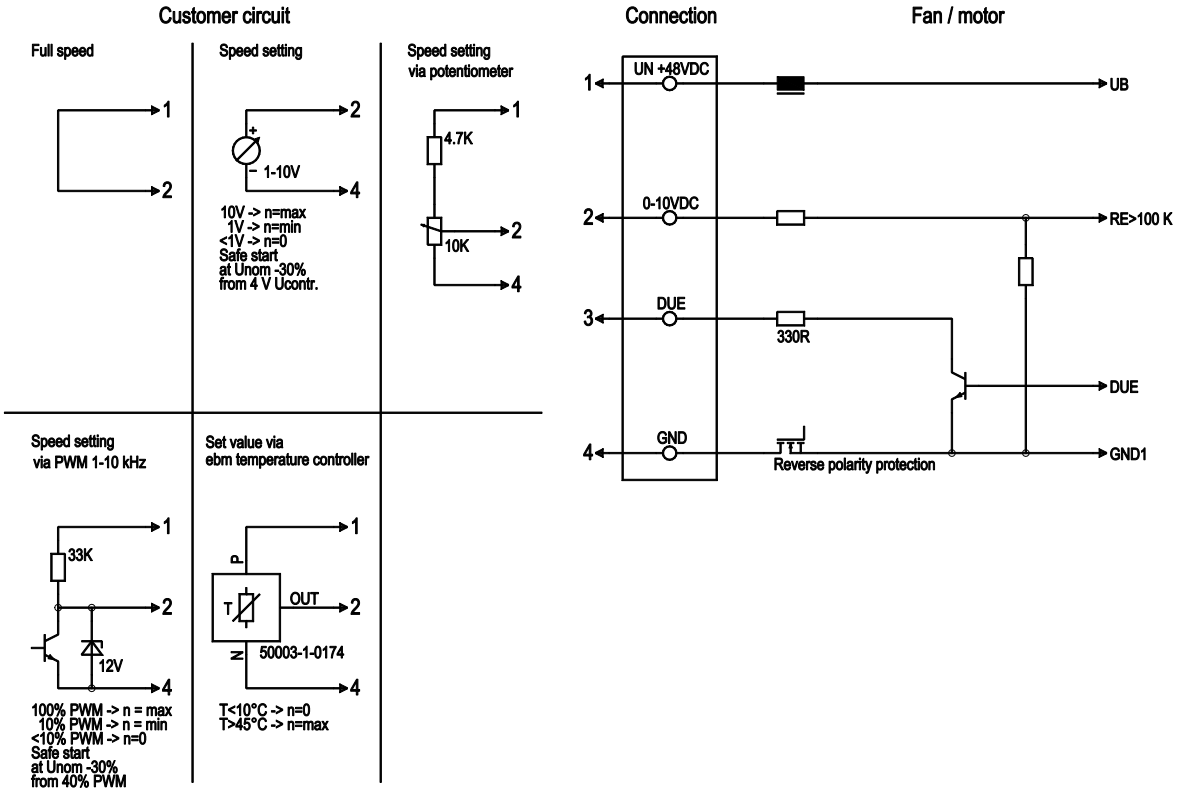
1	Connection: terminal strip with 5 terminals.
1.1	UN +48 VDC (red)
1.2	GND (blue)
1.3	DUE (white)
1.4	0-10 VDC (yellow)
2	Direction of air flow "V"

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Connection screen



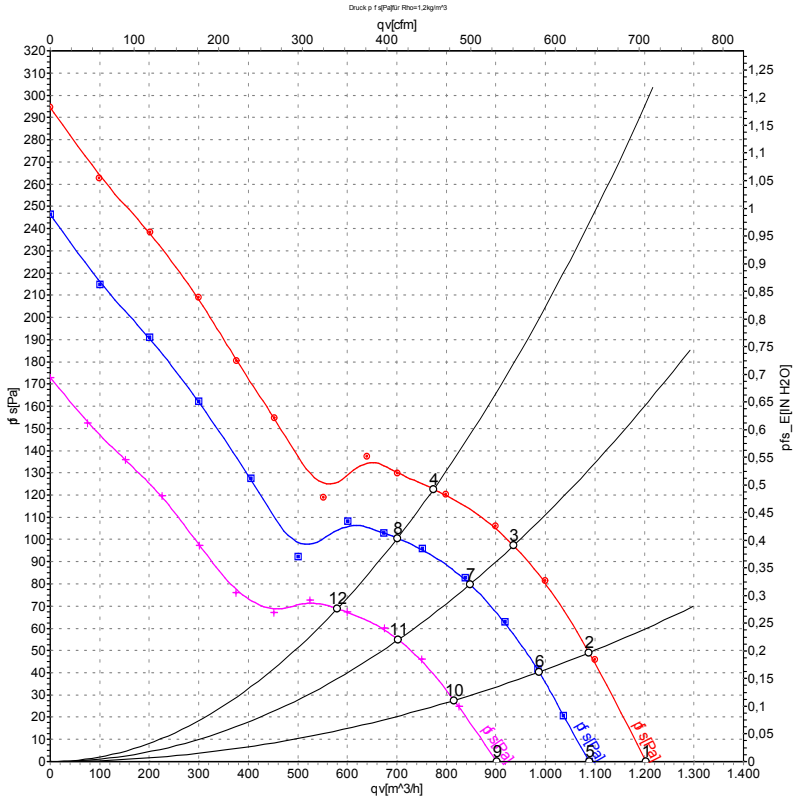
No.	Conn.	Designation	Colour	Function / assignment
	1	Un +48 VDC	red	Power supply 48 VDC, residual ripple 3.5 %
	2	0-10 VDC	yellow	Control input Re > 100k
	3	Tach	white	Speed monitoring output, fan good/bad, fan good = low, response threshold = 1000 rmp, Isink max=20 mA
	4	GND	blue	Reference mass

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Charts: Air flow



Measurement: LU-122619
Measurement: LU-122613
Measurement: LU-122617

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_{ed}	I	qv	p_{fs}
	V	min^{-1}	W	A	m^3/h	Pa
1	57	3320	72	1.42	1205	0
2	57	3225	76	1.49	1090	50
3	57	3130	80	1.57	935	97
4	57	3070	83	1.62	775	123
5	48	2950	55	1.30	1090	0
6	48	2880	56	1.31	985	40
7	48	2810	59	1.38	850	80
8	48	2755	61	1.42	700	100
9	36	2500	34	1.11	900	0
10	36	2420	35	1.14	815	28
11	36	2360	36	1.16	705	55
12	36	2310	37	1.18	580	69

U = Supply voltage · n = Speed · P_{ed} = Power input · I = Current draw · qv = Air flow · p_{fs} = Pressure increase

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