

W1G200-HH77-52

EC axial compact fan

sickled blades (S series)



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Nominal data

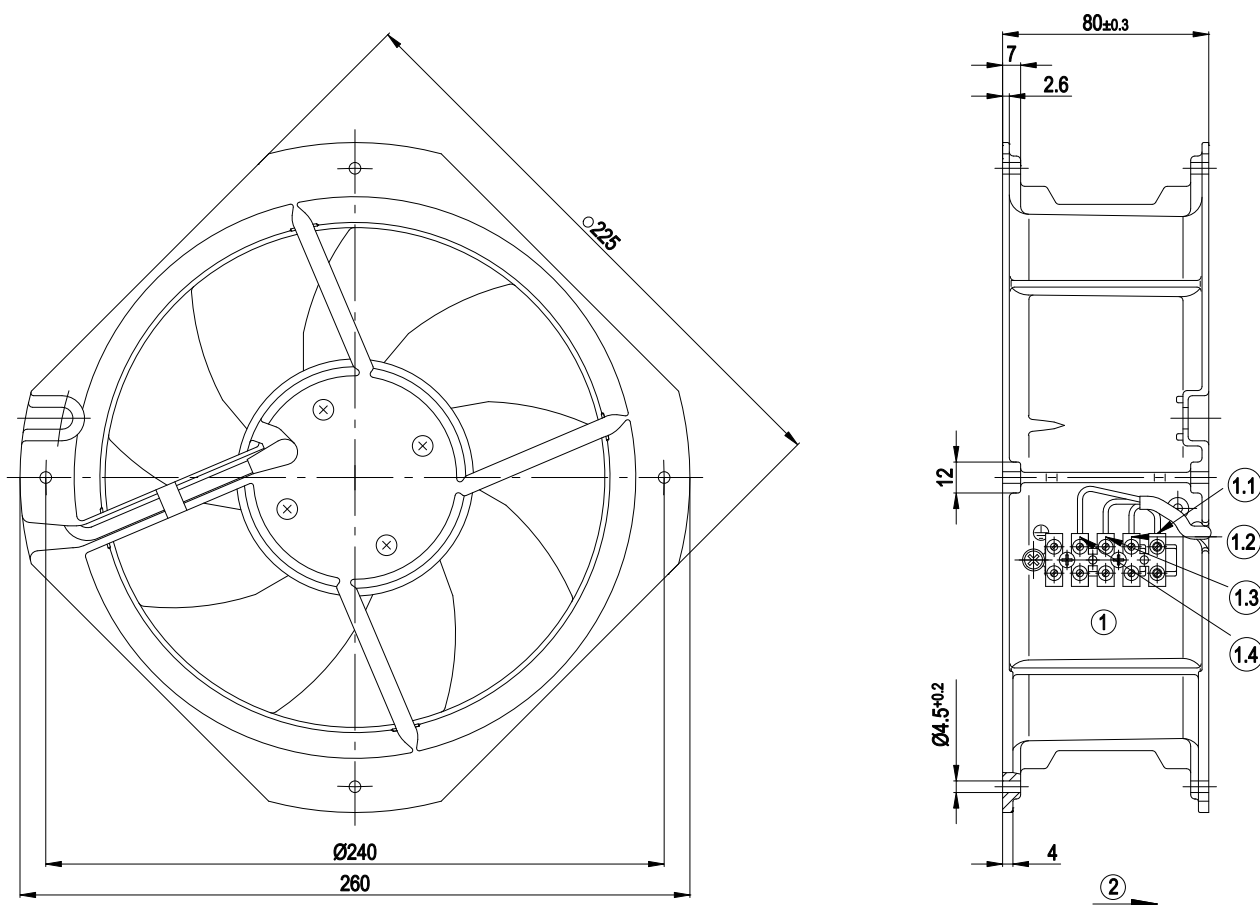
Type	W1G200-HH77-52	
Motor	M1G074-BF	
Nominal voltage	[VDC]	24
Nominal voltage range	[VDC]	16 .. 28
Type of data definition		rfa
Speed	[min ⁻¹]	2950
Power input	[W]	55
Current draw	[A]	2.6
Max. back pressure	[Pa]	120
Min. ambient temperature	[°C]	-25
Max. ambient temperature	[°C]	+60

ml = max. load · me = max. efficiency · rfa = running at free air · cs = customer specs · cu = customer unit
Subject to alterations

Technical features

Leakage current	<= 0.25 mA
Size	200 mm
Operation mode	S1
Direction of rotation	Counter-clockwise, seen on rotor
Mounting position	Any
Electrical leads	Via terminal strip
EMC interference emission	Acc. to EN 55022 (Class B)
EMC interference immunity	Acc. to EN 61000-6-2 (industrial environment)
Direction of air flow	"V"
Insulation class	"B"
Condensate discharge holes	None
Bearing motor	Ball bearing
Mass	2.13 kg
Material of blades	Sheet steel, coated in black
Material of wall ring	Die-cast aluminium
Motor protection	Reverse polarity and locked-rotor protection
Product conforming to standard	EN 60335-1
Surface of rotor	Coated in black
Number of blades	9
Type of protection	IP 42
Technical features	- Tach output - Motor current limit - Soft start - Control input 0-10 VDC / PWM
Max. permissible ambient motor temp. (transp./ storage)	+ 80 °C
Min. permissible ambient motor temp. (transp./storage)	- 40 °C
Approval	CSA C22.2 Nr.77; UL 1004-1

Product drawing



1 Connection: terminal strip with 5 terminals.

1.1 UN +24 VDC (red)

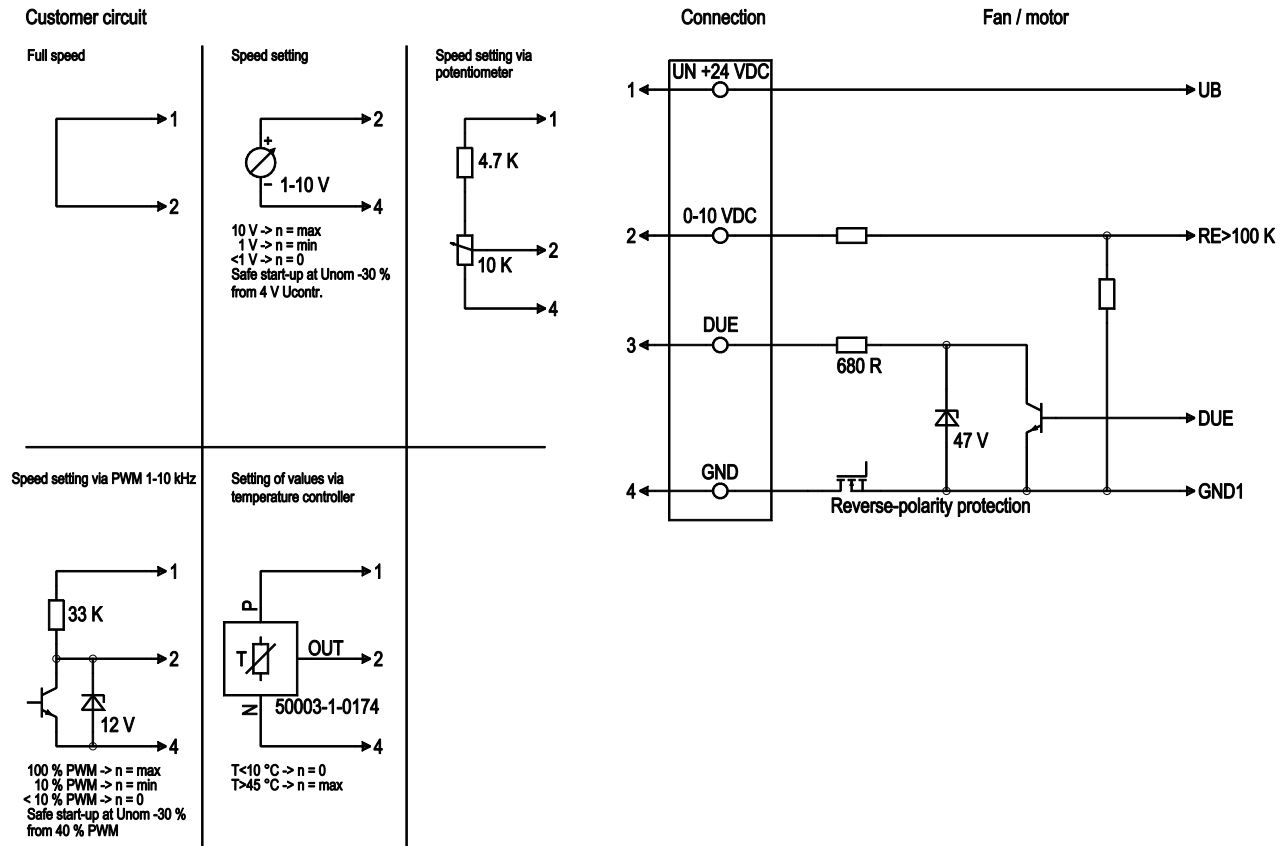
1.2 GND (blue)

1.3 DUE (white)

1.4 0-10 VDC (yellow)

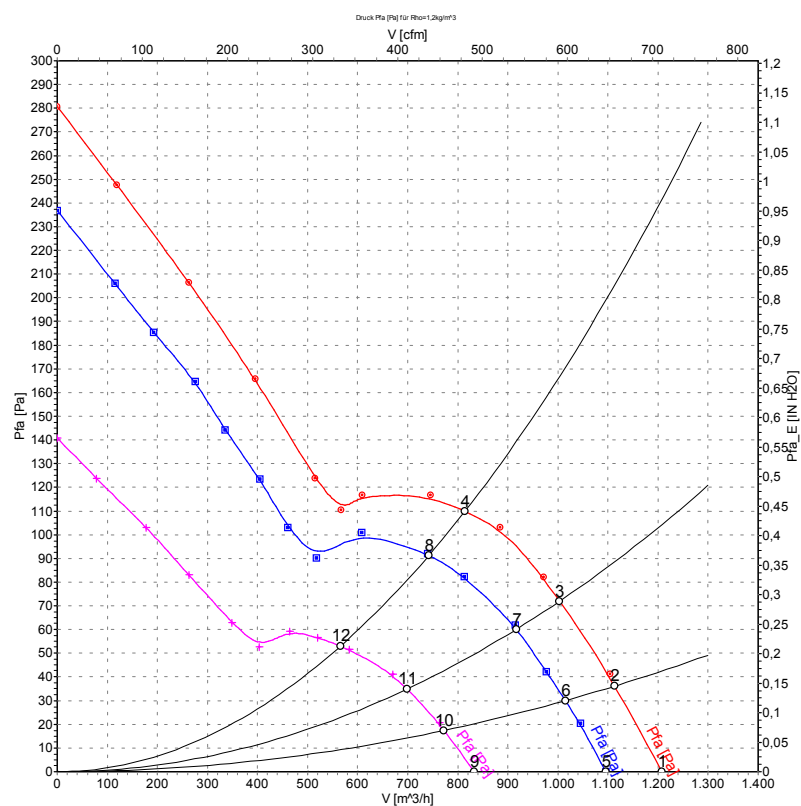
2 Direction of air flow "V"

Connection screen



Line	No.	Signal	Colour	Function / assignment
1	1	Un +24 VDC	red	Power supply 24 VDC, residual ripple 3.5 %
1	2	0-10 VDC	yellow	Control input Re > 100 K
1	3	DUE	white	Speed monitoring output, 3 pulses per rotation, Isink max = 10 mA
1	4	GND	blue	Reference mass

Charts: Air flow



Measurement: LU-48037
Measurement: LU-48036
Measurement: LU-48038

Measured values

	U	n	P ₁	I	$\dot{V}$	p _{fa}
	[V]	[min ⁻¹]	[W]	[A]	[m ³ /h]	[Pa]
1	28	3285	73	2.91	1205	0
2	28	3190	76	3.01	1115	38
3	28	3095	78	3.10	1005	72
4	28	3065	82	3.26	815	110
5	24	2950	55	2.60	1095	0
6	24	2915	57	2.67	1015	30
7	24	2860	60	2.76	915	60
8	24	2785	62	2.88	740	90
9	16	2285	28	2.08	835	0
10	16	2245	28	2.09	770	18
11	16	2200	29	2.13	700	35
12	16	2145	30	2.18	565	53