W1G250-HH37-45

EC axial compact fan

sickled blades (S series)

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Nominal data

Type	**W1G250-HH37-45**	
Motor	**M1G074-BF**	
Nominal voltage	[VDC]	24
Nominal voltage range	[VDC]	16 .. 28
Type of data definition		rfa
Speed	[min^{-1}]	2750
Power input	[W]	105
Current draw	[A]	5,0
Min. ambient temperature	[°C]	- 25
Max. ambient temperature	[°C]	+60
Air flow	[m^3/h]	1920
Back pressure	[Pa]	0

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

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Technical features

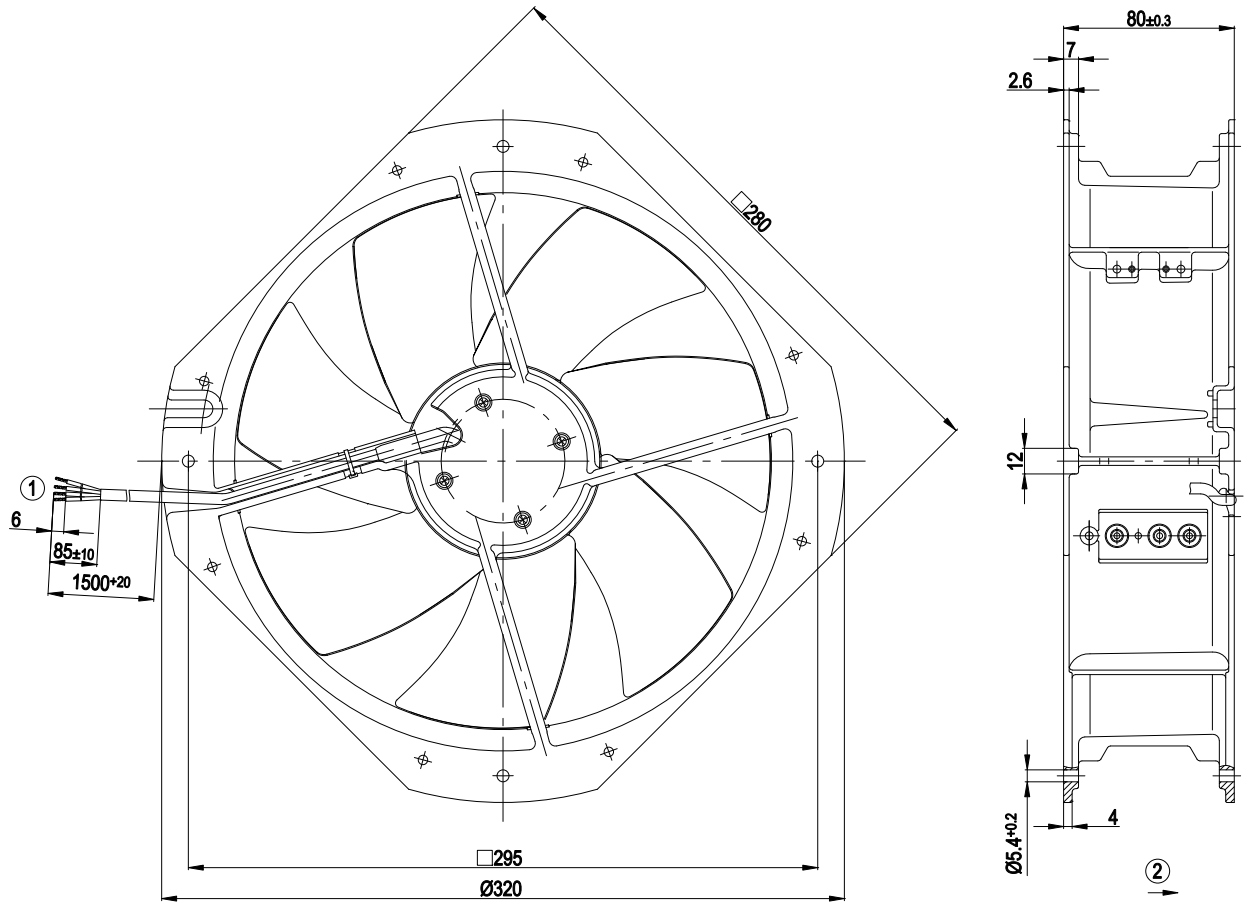
Leackage current	<= 0,25 mA
Size	250 mm
Operation mode	S1
Direction of rotation	Counter-clockwise, seen on rotor
Mounting position	Any
EMC interference emission	Acc. to EN 61000-6-3 (household environment)
EMC interference immunity	Acc. to EN 61000-6-2 (industrial environment)
Direction of air flow	"V"
Insulation class	"B"
Cable exit	Lateral
Condensate discharge holes	None
Bearing motor	Ball bearing
Mass	2.8 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 60950-1
Surface of rotor	Coated in black
Number of blades	7
Type of protection	IP 44 - depending on position
Protection class	I
Technical features	- Control input 0-10 VDC / PWM - Tach output - Motor current limit - Soft start
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

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Product drawing



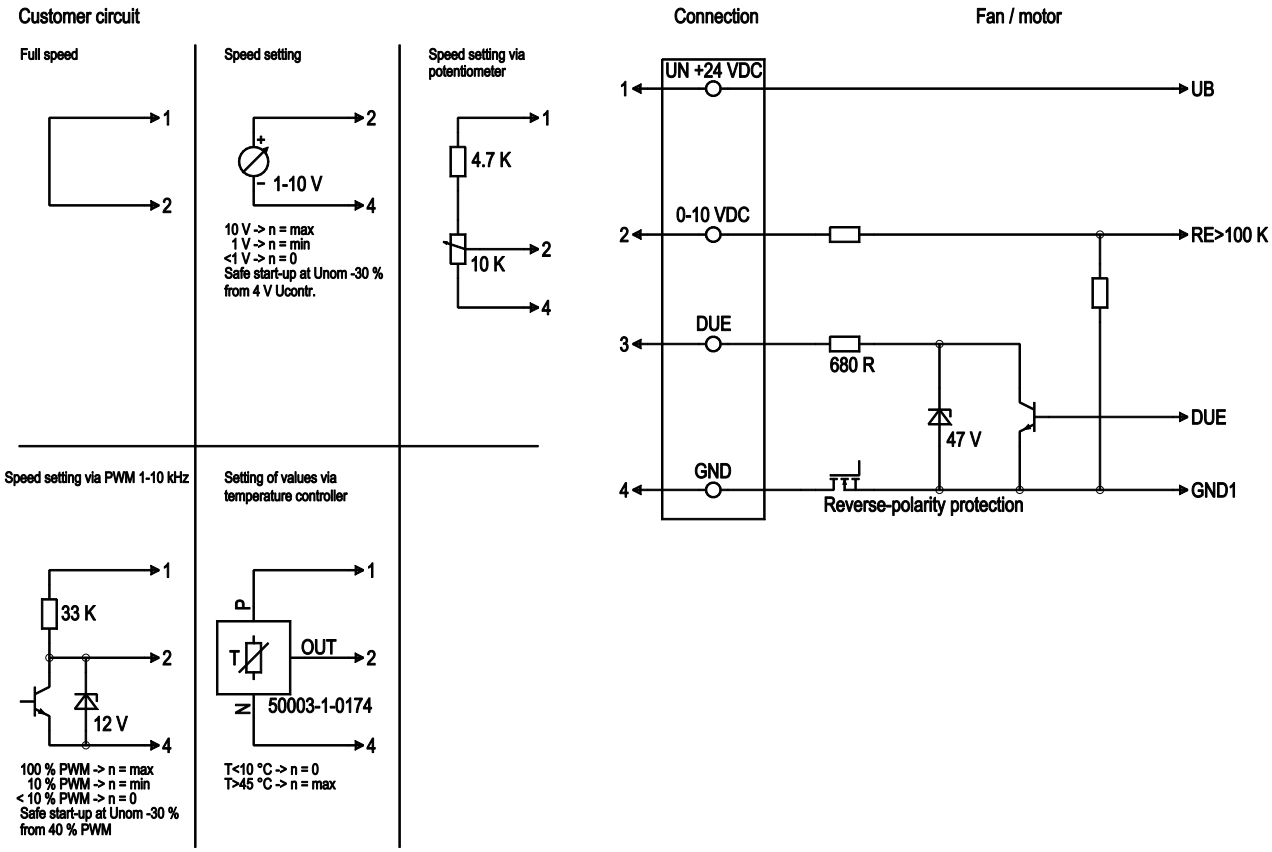
1	Connection line AWG20, 4 x brass lead tips crimped
2	Direction of air flow "V"

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Connection screen



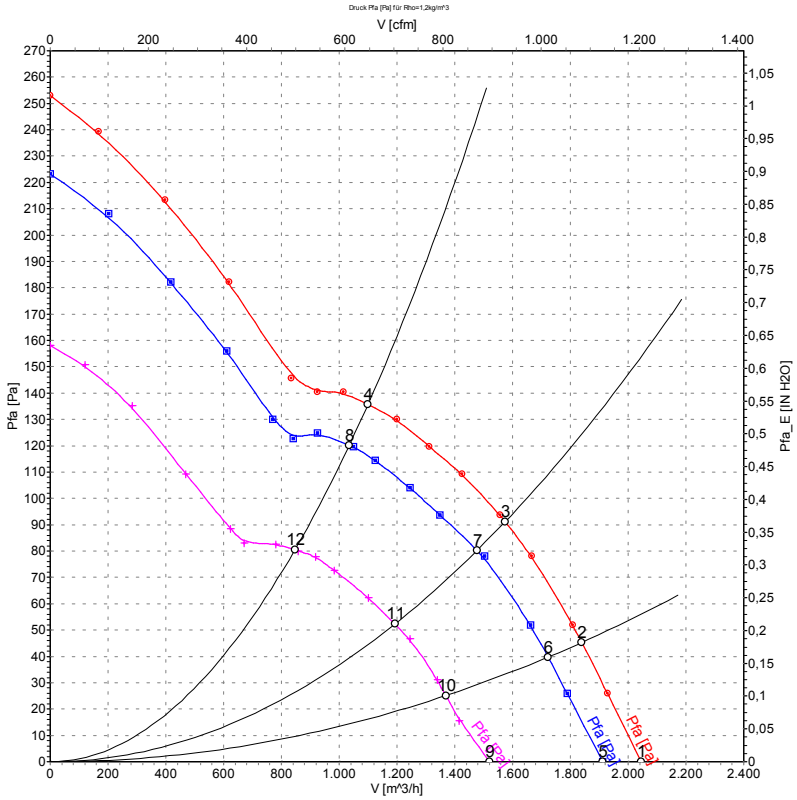
Line	No.	Signal	Colour	Function / assignment
1	1	Un +24 VDC	red	Power supply 24 VDC, residual ripple 3.5 %
1	2	0-10 VDC	yellow	Control input Re > 100 K
1	3	DUE	white	Speed monitoring output, 3 pulses per rotation, Isink max = 10 mA
1	4	GND	blue	Reference mass

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Charts: Air flow



Measurement: LU-54187
Measurement: LU-54186
Measurement: LU-54185

Measured values

	U	n	P_1	I	$\dot{V}$	p_{fa}
	[V]	[min^{-1}]	[W]	[A]	[m^3/h]	[Pa]
1	28	2905	125	5.31	2045	0
2	28	2785	128	5.51	1840	46
3	28	2660	131	5.76	1575	91
4	28	2580	134	5.93	1100	136
5	24	2750	105	5.00	1920	0
6	24	2615	106	5.11	1725	40
7	24	2510	108	5.29	1475	81
8	24	2420	110	5.47	1035	120
9	16	2180	53	3.74	1520	0
10	16	2120	56	3.91	1370	25
11	16	2050	59	4.12	1195	52
12	16	1995	61	4.29	845	80

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