R1G250-AI05-26

EC centrifugal fan

backward curved, single inlet

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Nominal data

Type	**R1G250-AI05-26**	
Motor	**M1G074-CF**	
Nominal voltage	[VDC]	52
Nominal voltage range	[VDC]	32 .. 57
Type of data definition		rfa
Speed	[min^{-1}]	2700
Power input	[W]	120
Current draw	[A]	2,7
Min. ambient temperature	[°C]	- 25
Max. ambient temperature	[°C]	40

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

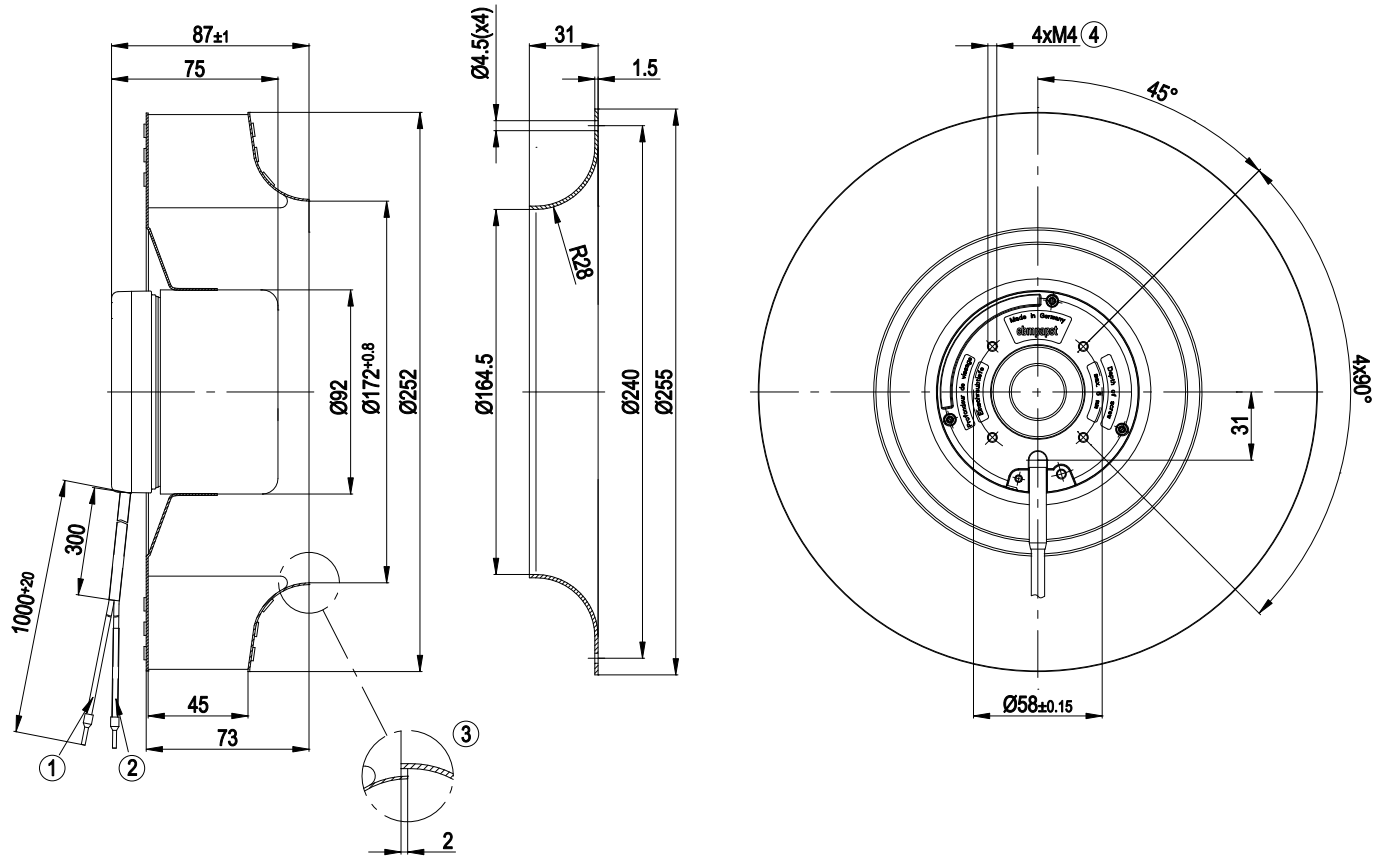
Leackage current	<= 0,25 mA
Size	250 mm
Operation mode	S1
Direction of rotation	Clockwise, seen on rotor
Mounting position	Shaft horizontal or rotor on bottom; rotor on top on request
EMC interference emission	Acc. to EN 55022 (Class B)
EMC interference immunity	Acc. to EN 61000-6-2 (industrial environment)
Insulation class	"B"
Cable exit	Variable
Condensate discharge holes	None
Bearing motor	Ball bearing
Mass	2.3 kg
Material of impeller	Sheet steel, hot-galvanised
Motor protection	Reverse polarity and locked-rotor protection
Surface of rotor	Coated in black
Number of blades	11
Type of protection	IP 42
Protection class	I
Technical features	- Line undervoltage detection - 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



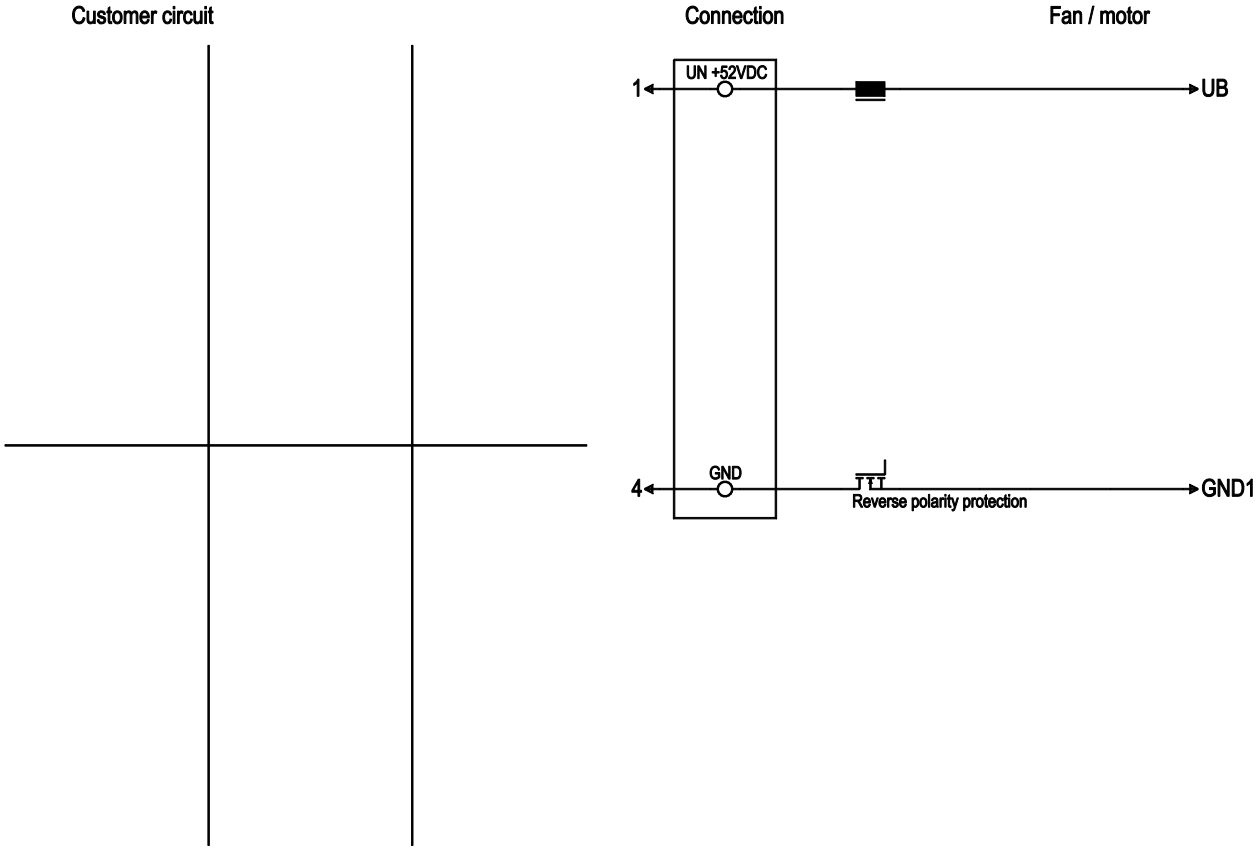
1	Cable 1.5 mm² (red), with core-end sleeve
2	Cable 1.5 mm² (blue), with core-end sleeve
3	Accessory part: Inlet nozzle 96359-2-4013, not included in the standard scope of delivery
4	Depth of screw max. 6 mm

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Connection screen



Drawing preliminary!

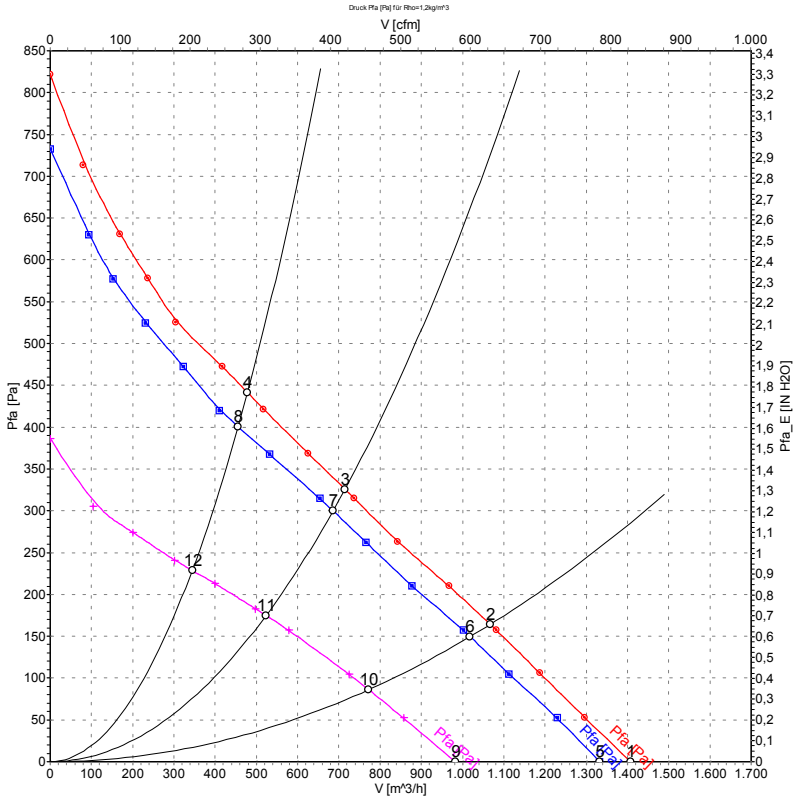
Line	No.	Signal	Colour	Function / assignment
	1	Un +52 VDC	red	Power supply 52 VDC, residual ripple 3.5 %
	4	GND	blue	Reference mass

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Charts: Air flow



Measurement: LU-65835
Measurement: LU-65834
Measurement: LU-65837

Measured values

	U	n	P_1	I	$\dot{V}$	p_{fa}
	[V]	[min^{-1}]	[W]	[A]	[m^3/h]	[Pa]
1	57	2830	130	2.83	1405	0
2	57	2560	136	3.02	1065	164
3	57	2465	139	3.12	715	326
4	57	2550	136	3.04	480	441
5	52	2700	120	2.70	1335	0
6	52	2475	122	2.89	1020	150
7	52	2355	124	2.96	685	300
8	52	2450	122	2.89	455	400
9	32	1955	47	1.74	985	0
10	32	1880	52	1.92	770	86
11	32	1820	55	2.03	525	175
12	32	1870	53	1.94	345	229

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