

R3G400-AD23-24

# EC centrifugal fan

backward curved, single inlet

## ASIA PACIFIC SHENGRUI LIMITED

Phone +00852 56261528

info@apacfan.com

www.apacfan.com

### Nominal data

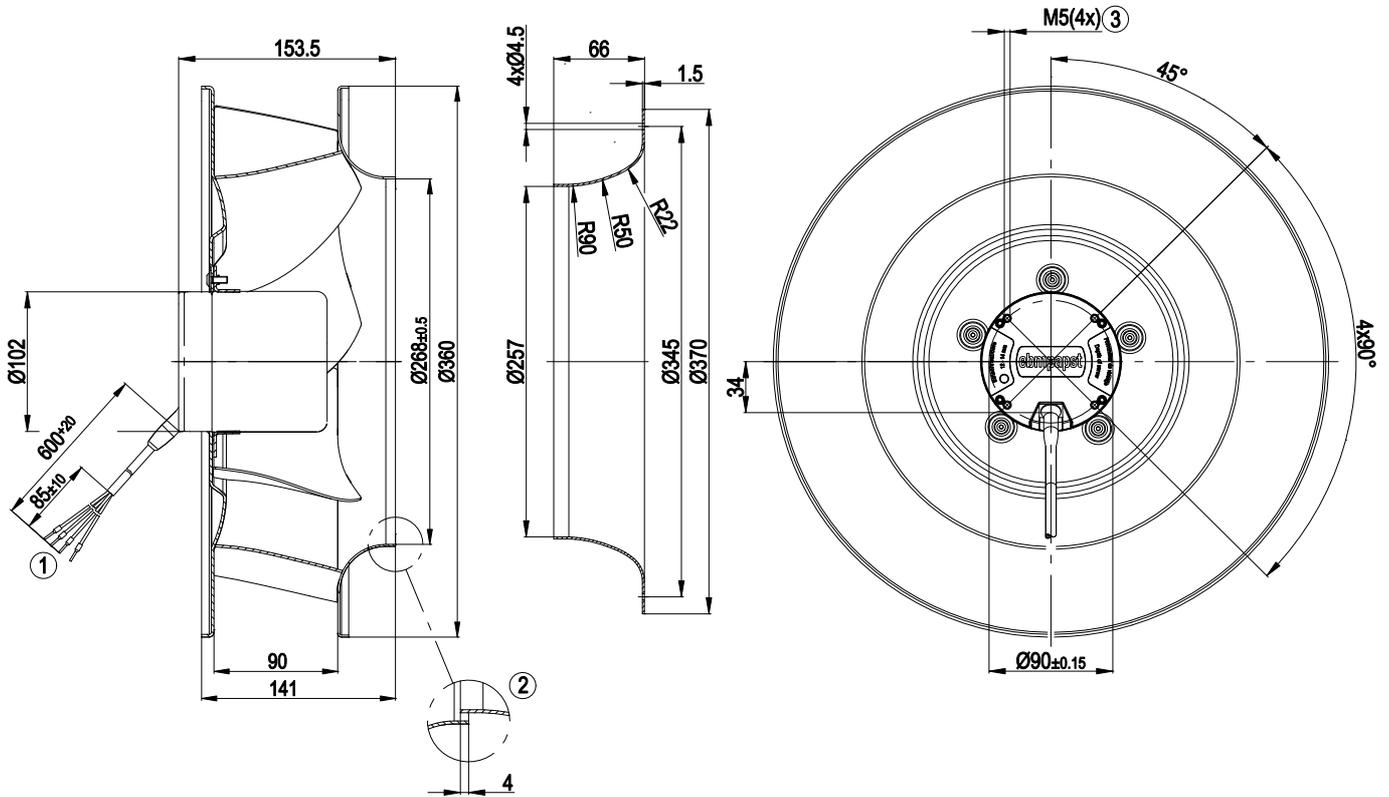
Type	R3G400-AD23-24	
Motor	M3G084-FA	
Nominal voltage	[VDC]	48
Nominal voltage range	[VDC]	36 .. 57
Type of data definition		rfa
Speed	[min <sup>-1</sup> ]	1650
Power input	[W]	380
Current draw	[A]	8.0
Min. ambient temperature	[°C]	- 25
Max. ambient temperature	[°C]	+40

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

## Technical features

<b>Size</b>	400 mm
<b>Operation mode</b>	S1
<b>Direction of rotation</b>	Clockwise, seen on rotor
<b>Mounting position</b>	Shaft horizontal or rotor on top; rotor on bottom on request
<b>EMC interference emission</b>	Acc. to EN 55022 (Class B)
<b>EMC interference immunity</b>	Acc. to EN 61000-6-2
<b>Insulation class</b>	"B"
<b>Cable exit</b>	Variable
<b>Condensate discharge holes</b>	None
<b>Bearing motor</b>	Ball bearing
<b>Mass</b>	5.3 kg
<b>Material of electronics housing</b>	Die-cast aluminium
<b>Material of impeller</b>	Aluminium sheet
<b>Motor protection</b>	Thermal overload protector (TOP) wired internally
<b>Surface of rotor</b>	Coated in black
<b>Number of blades</b>	6
<b>Type of protection</b>	IP 20
<b>Technical features</b>	<ul style="list-style-type: none"> <li>- Control input 0-10 VDC / PWM</li> <li>- Tach output</li> <li>- Over-temperature protected motor</li> <li>- Motor current limit</li> <li>- Soft start</li> </ul>
<b>Max. permissible ambient motor temp. (transp./ storage)</b>	+80 °C
<b>Min. permissible ambient motor temp. (transp./storage)</b>	-40 °C
<b>Approval</b>	CCC; CSA C22.2 Nr.77; UL 2111

Product drawing

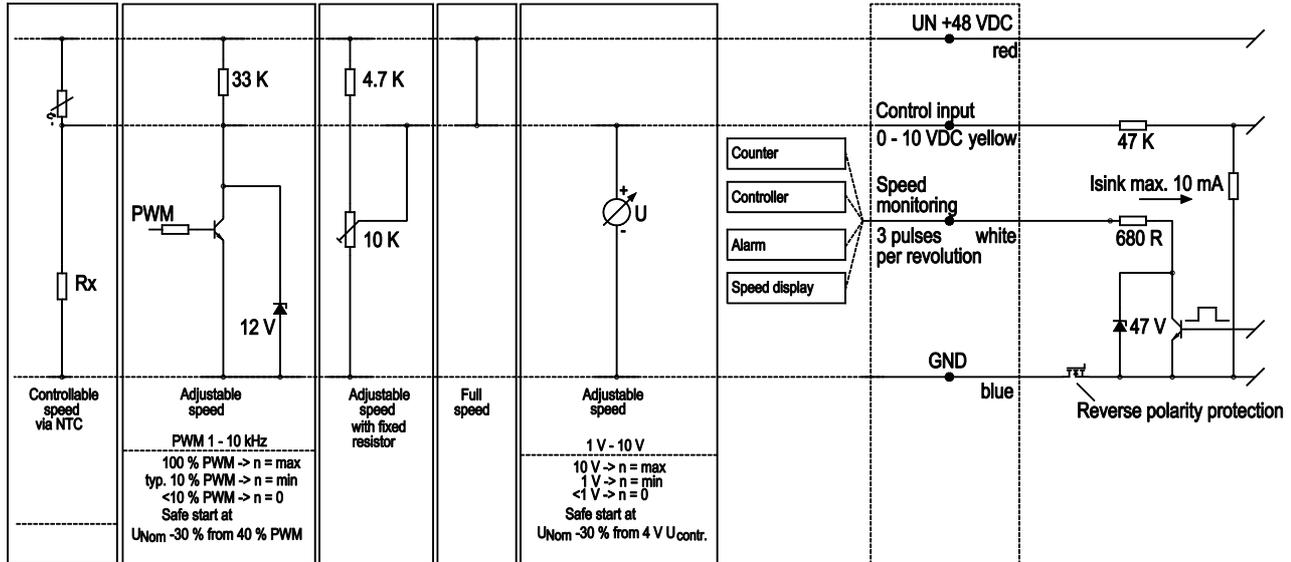


1	Connection line AWG 16, 4 x crimped core-end sleeves
2	Accessory part: inlet nozzle 54476-2-4013 not included in the standard scope of delivery; other inlet nozzles on request
3	Depth of screw 12 - 14 mm

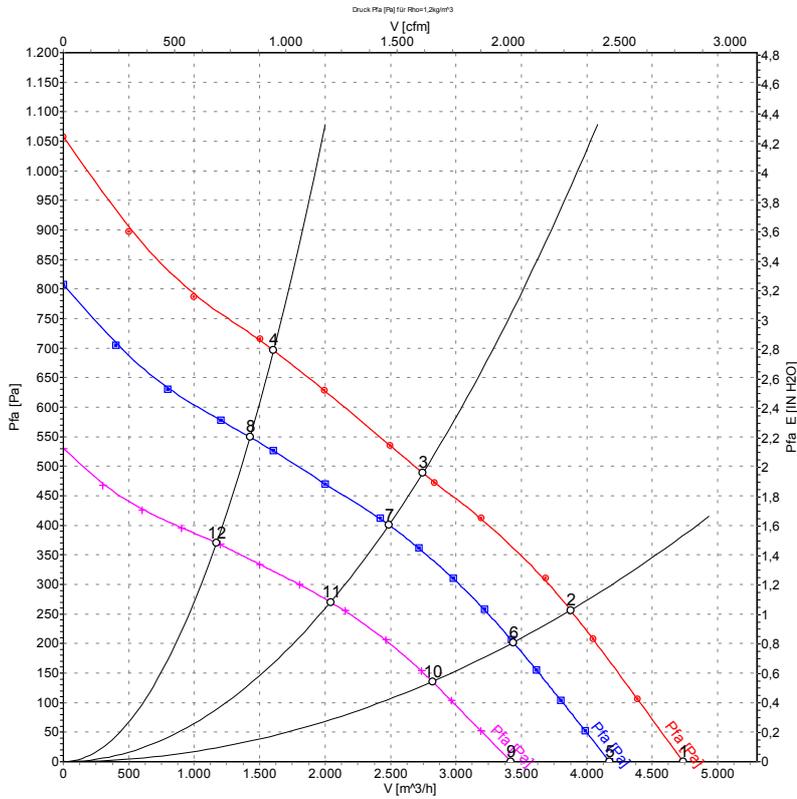
## Connection screen

### Customer circuit

Notes on various control possibilities and their applications



## Charts: Air flow



Measurement: LU-114865  
Measurement: LU-114862  
Measurement: LU-114868

## Measured values

	U	n	P <sub>1</sub>	I	$\hat{V}$	p <sub>fa</sub>
	[V]	[min <sup>-1</sup> ]	[W]	[A]	[m <sup>3</sup> /h]	[Pa]
1	57	1930	588	10.54	4735	0
2	57	1850	673	12.15	3875	256
3	57	1780	702	12.70	2745	488
4	57	1845	671	12.10	1605	697
5	48	1650	380	8.00	4175	0
6	48	1640	456	9.70	3440	200
7	48	1605	497	10.59	2485	400
8	48	1640	458	9.72	1425	550
9	36	1390	215	5.87	3420	0
10	36	1350	251	6.87	2820	136
11	36	1320	274	7.50	2040	270
12	36	1345	252	6.88	1170	371