

## AC centrifugal fan

forward-curved, single-intake

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**Nominal data**

Type	R2E085-AA01-05		
Motor	M2E042-CA		
Phase		1~	1~
Nominal voltage	VAC	230	230
Frequency	Hz	50	60
Method of obtaining data		fa	fa
Valid for approval/standard		CE	CE
Speed (rpm)	min <sup>-1</sup>	2350	2800
Power consumption	W	32	30
Current draw	A	0.15	0.14
Capacitor	µF	1	1
Capacitor voltage	VDB	400	400
Capacitor standard		S2 (CE)	S2 (CE)
Min. back pressure	Pa	0	0
Min. back pressure	in. wg	0	0
Min. ambient temperature	°C	-25	-25
Max. ambient temperature	°C	50	70
Starting current	A	0.2	0.2

ml = Max. load · me = Max. efficiency · fa = Free air · cs = Customer specification · ce = Customer equipment  
Subject to change



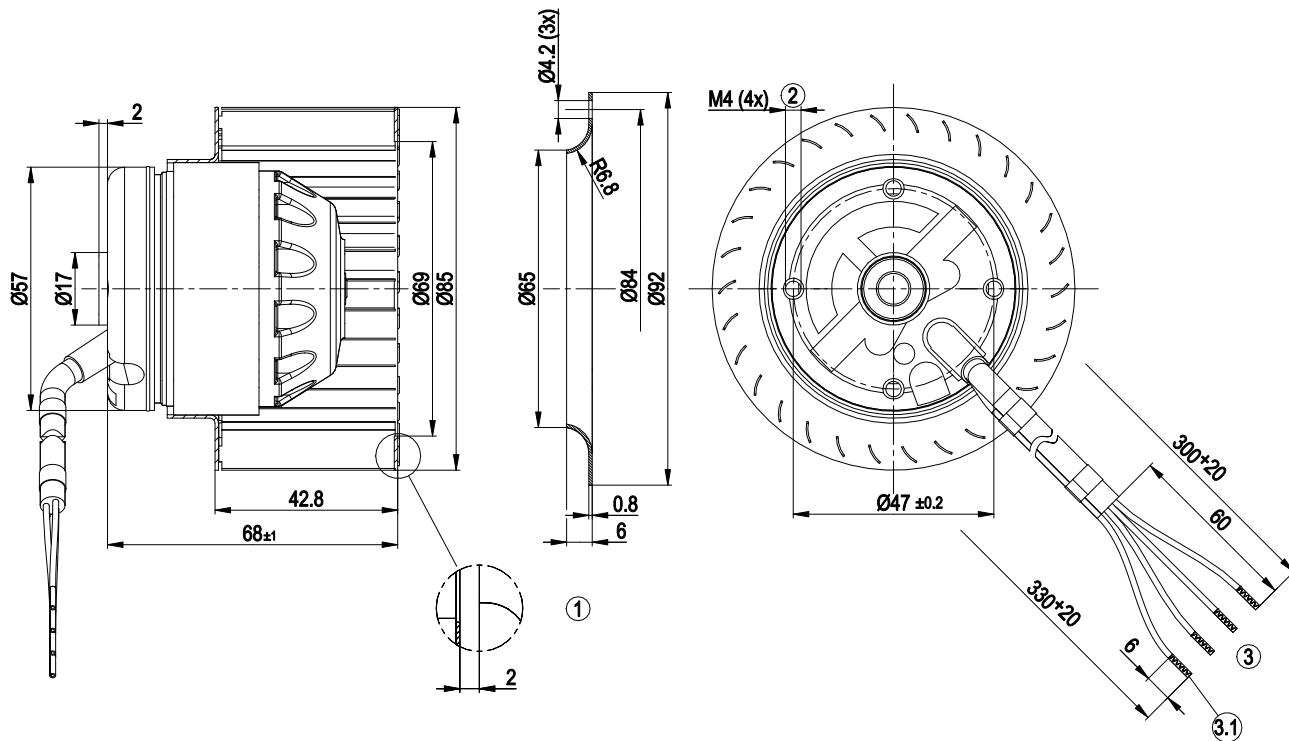
**Technical description**

<b>Weight</b>	0.5 kg
<b>Fan size</b>	85 mm
<b>Impeller material</b>	Sheet steel, galvanized
<b>Direction of rotation</b>	Clockwise, viewed toward rotor
<b>Degree of protection</b>	IP44; installation- and position-dependent
<b>Insulation class</b>	"B"
<b>Max. permitted ambient temp. for motor (transport/storage)</b>	+ 80 °C
<b>Min. permitted ambient temp. for motor (transport/storage)</b>	- 40 °C
<b>Installation position</b>	Any
<b>Condensation drainage holes</b>	None
<b>Mode</b>	S1
<b>Motor bearing</b>	Ball bearing
<b>Touch current according to IEC 60990 (measuring circuit Fig. 4, TN system)</b>	< 0.75 mA
<b>Motor protection</b>	Thermal overload protector (TOP) internally connected
<b>With cable</b>	Axial
<b>Protection class</b>	I (with customer connection of protective earth)
<b>Conformity with standards</b>	EN 60335-1; CE

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## Product drawing

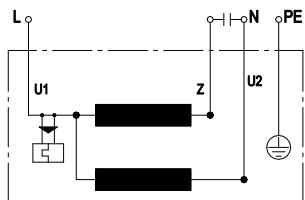


1 Accessory part: inlet ring 09560-2-4013, not included in scope of delivery

2 Max. clearance for screw 5 mm

3 Cable PVC 3G 0.5 mm<sup>2</sup>, 3x crimped splices

3.1 Cable AWG20 (green/yellow), 1x crimped splice

**Connection diagram**

U1

blue

Z

brown

U2

black

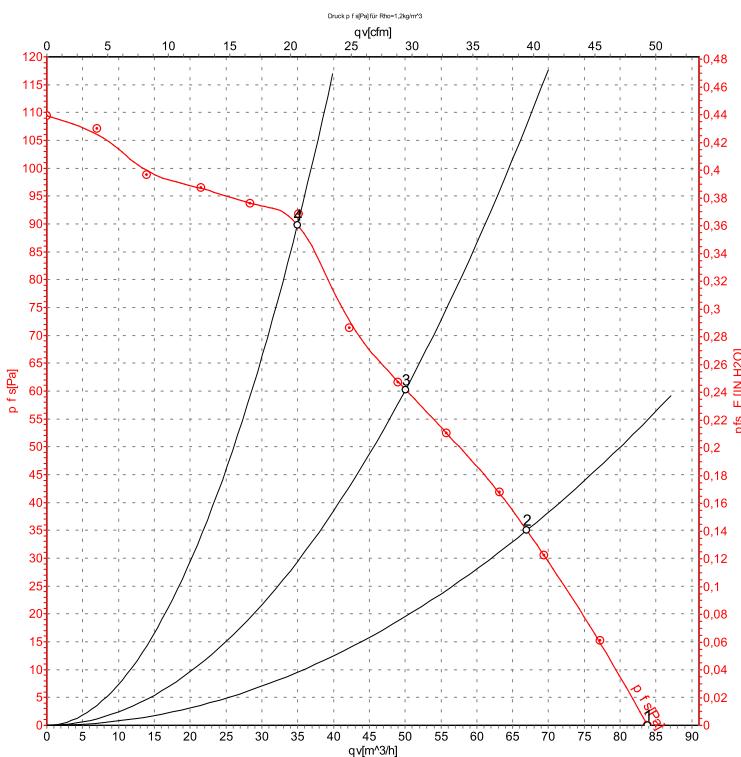
PE

green/yellow

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## Curves: Air performance 50 Hz



## Measured values

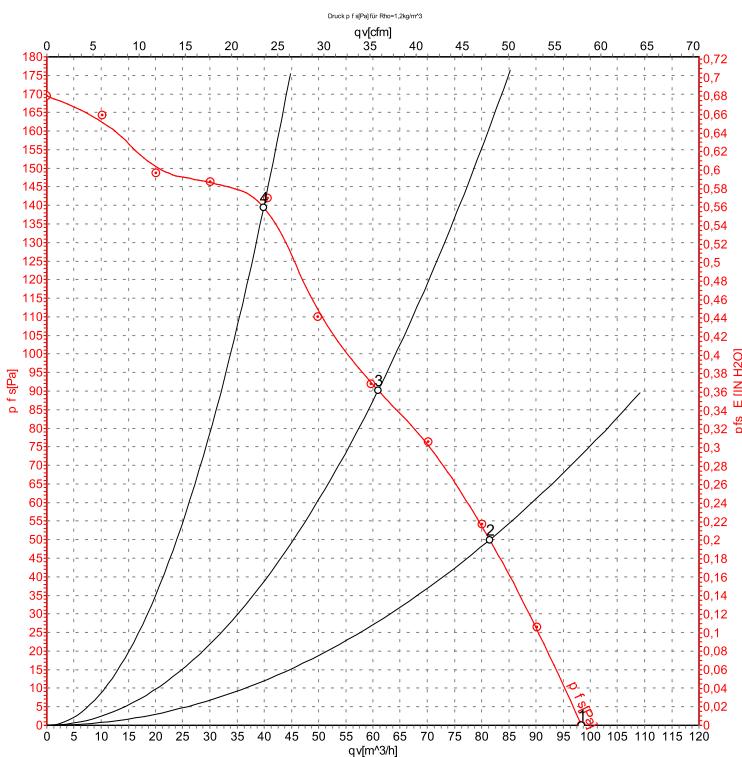
	U	f	n	$P_e$	I	$q_v$	$p_{fs}$	$q_v$	$p_{fs}$
	V	Hz	$\text{min}^{-1}$	W	A	$\text{m}^3/\text{h}$	Pa	cfm	in. wg
1	230	50	2350	32	0.15	85	0	50	0.00
2	230	50	2425	32	0.15	65	35	40	0.14
3	230	50	2515	31	0.14	50	60	30	0.24
4	230	50	2580	31	0.14	35	90	20	0.36

U = Power supply · f = Frequency · n = Speed (rpm) ·  $P_e$  = Power consumption · I = Current draw ·  $q_v$  = Air flow ·  $p_{fs}$  = Pressure increase

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## Curves: Air performance 60 Hz



## Measured values

	U	f	n	P <sub>e</sub>	I	q <sub>v</sub>	p <sub>fs</sub>	q <sub>v</sub>	p <sub>fs</sub>
	V	Hz	min <sup>-1</sup>	W	A	m <sup>3</sup> /h	Pa	cfm	in. wg
1	230	60	2800	30	0.14	100	0	60	0.00
2	230	60	2885	29	0.13	80	50	50	0.20
3	230	60	3040	28	0.12	60	90	35	0.36
4	230	60	3150	26	0.12	40	140	25	0.56

U = Power supply · f = Frequency · n = Speed (rpm) · P<sub>e</sub> = Power consumption · I = Current draw · q<sub>v</sub> = Air flow · p<sub>fs</sub> = Pressure increase

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