A2E250-AB05-65

AC axial fan

straight blades (A series), single inlet

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Nominal data

Type	**A2E250-AB05-65**
Motor	**M2E068-DF**

Phase		1~	1~
Nominal voltage	VAC	220	220
Frequency	Hz	50	60
Type of data definition		fa	fa
Valid for approval / standard		-	-
Speed	min^{-1}	2500	2700
Power input	W	135	175
Current draw	A	0.62	0.8
Motor capacitor	µF	4	4
Capacitor voltage	VDB	400	400
Capacitor standard		P0 (CE)	P0 (CE)
Min. ambient temperature	°C	-40	-40
Max. ambient temperature	°C	40	40

ml = Max. load · me = Max. efficiency · fa = Running at free air · cs = Customer specs · cu = Customer unit
Subject to alterations

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Technical features

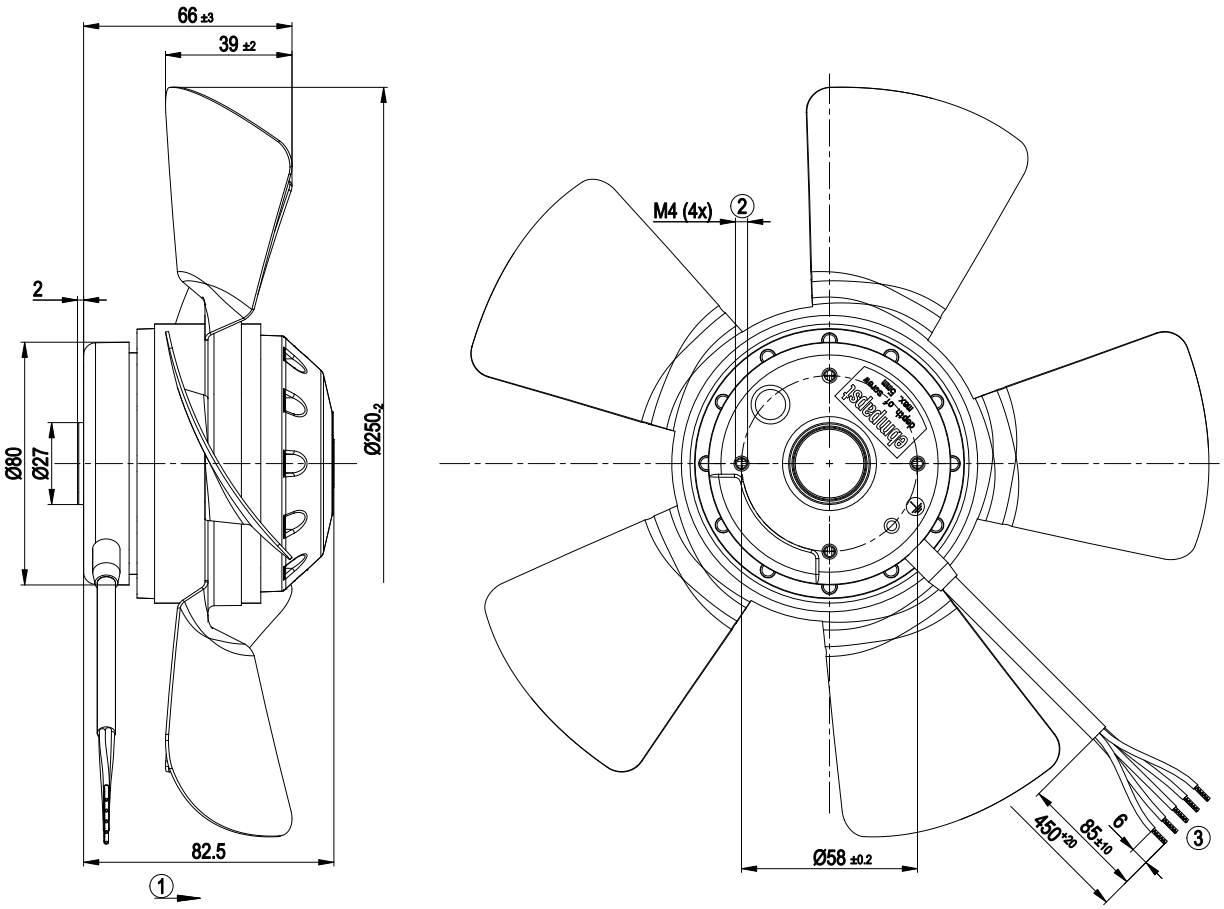
Mass	2.2 kg
Size	250 mm
Surface of rotor	Coated in black
Material of blades	Sheet steel, coated in black
Number of blades	5
Direction of air flow	"A"
Direction of rotation	Clockwise, seen on rotor
Type of protection	IP 54
Insulation class	"B"
Humidity class	F2-2
Max. permissible ambient motor temp. (transp./ storage)	+ 70 °C
Min. permissible ambient motor temp. (transp./storage)	- 40 °C
Mounting position	Shaft horizontal or rotor on bottom; rotor on top on request
Condensate discharge holes	Rotor-side
Operation mode	S1
Motor bearing	Ball bearing with anti-freezing grease
Touch current acc. IEC 60990 (measuring network Fig. 4, TN system)	< 0.75 mA
Cable exit	Lateral
Protection class	I (if protective earth is connected by customer)
Product conforming to standard	EN 60335-1, motor does not have factory-installed overheating protection

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Product drawing



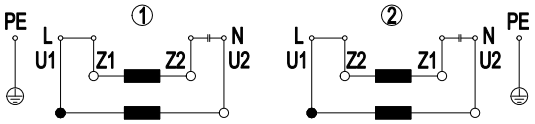
1	Direction of air flow "A"
2	Thread reach max. 5 mm
3	Connection line silicone 5G x 0.5 mm², 5x lead tips crimped

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Connection screen



Single-phase AC motor with operating capacitor

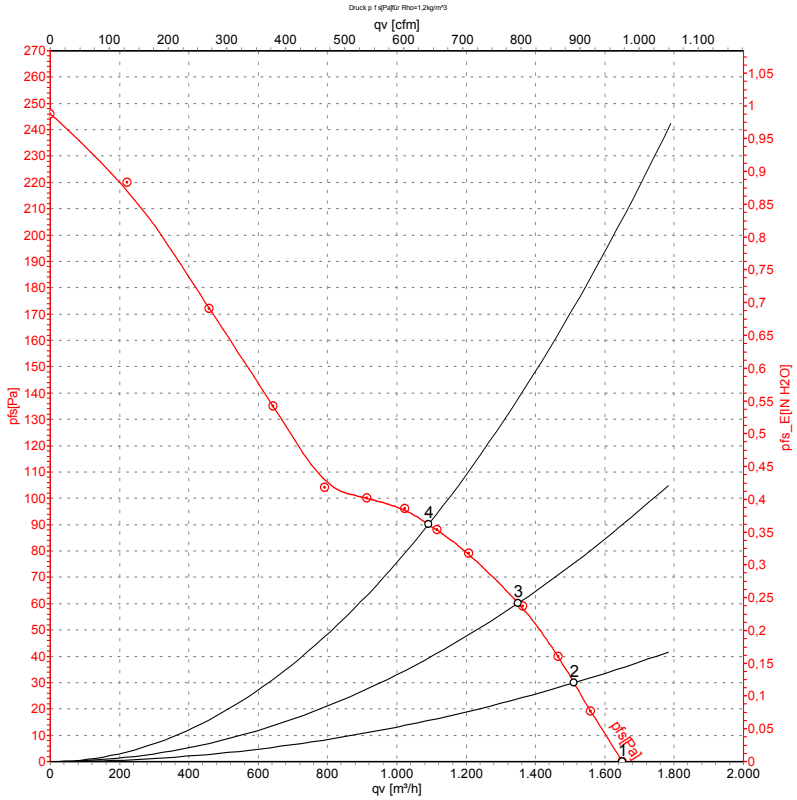
1	Clockwise operation
2	Counter-clockwise operation
U1	black
U2	grey
Z1	blue
Z2	brown
PE	green/yellow

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Charts: Air flow 50 Hz



Measurement: LU-9316

Air performance measured as per ISO 5801 Installation category A. For detailed information on the measuring set-up, please contact ebm-papst. Suction-side noise levels: LwA measured as per ISO 13347 / LpA measured with 1m distance to fan axis. The values given are valid under the measuring conditions mentioned above and may vary according to the actual installation situation. With any deviation from the standard set-up, the specific values have to be checked and reviewed with the unit installed.

Measured values

	U	f	n	P_e	I	qv	p_{fs}
	V	Hz	min^{-1}	W	A	m^3/h	Pa
1	220	50	2500	135	0.62	1650	0
2	220	50	2480	135	0.62	1510	30
3	220	50	2445	136	0.62	1350	60
4	220	50	2440	138	0.62	1090	90

U = Supply voltage · f = Frequency · n = Speed · P_e = Power input · I = Current draw · qv = Air flow · p_{fs} = Pressure increase

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