

AC axial fan

sickle-shaped blades (S series)

with round full nozzle

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Amtsgericht (court of registration) Stuttgart · HRB 590142

Nominal data

Type	W4E420-CU05-37	
Motor	M4E094-EA	
Phase		1~
Nominal voltage	VAC	115
Frequency	Hz	60
Method of obtaining data		ml
Valid for approval/standard		CE
Speed	min ⁻¹	1480
Power consumption	W	380
Current draw	A	3.31
Capacitor	µF	30
Capacitor voltage	VDB	220
Min. ambient temperature	°C	-40
Max. ambient temperature	°C	70

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

Subject to change



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Technical description

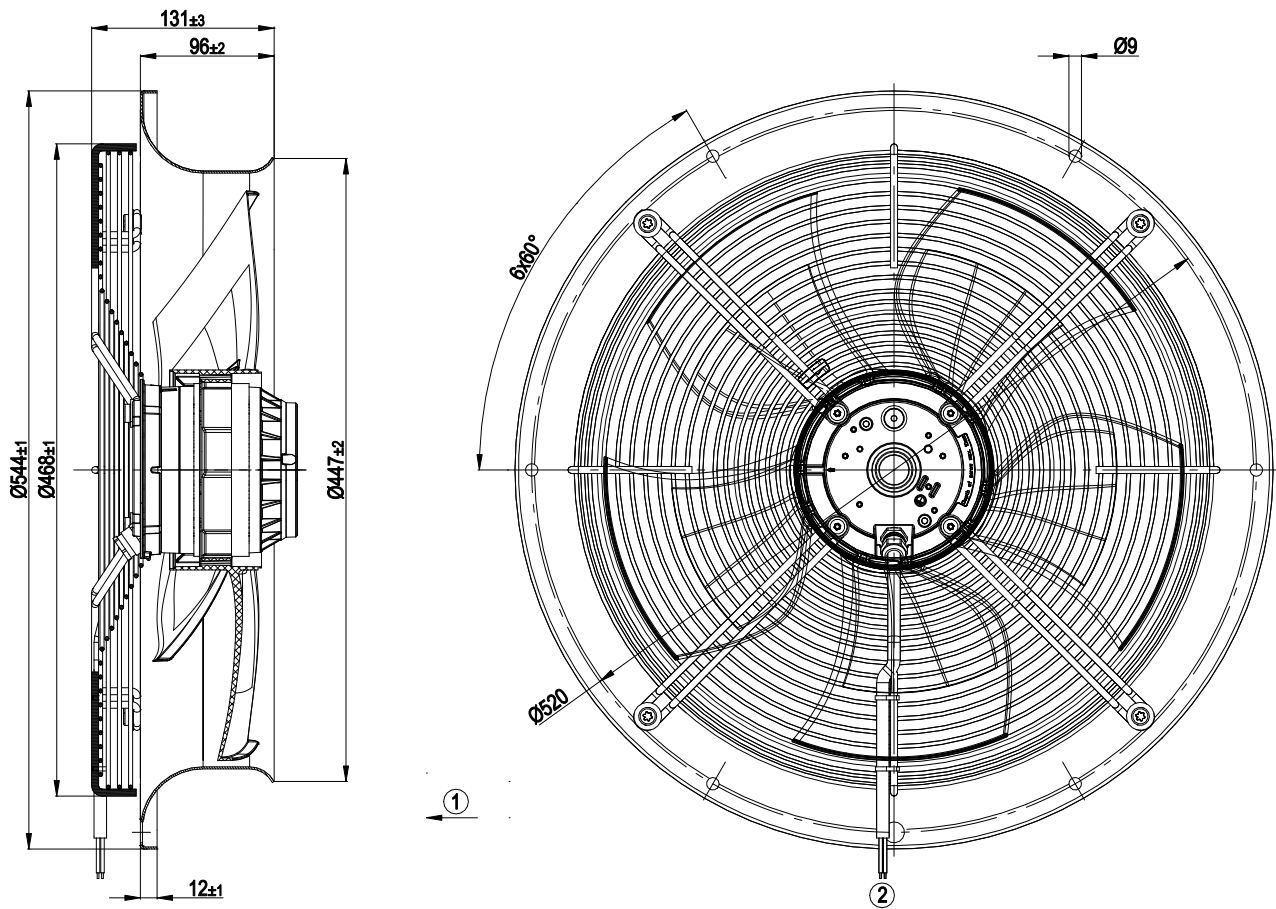
Weight	8.7 kg
Fan size	420 mm
Rotor surface	Painted black
Impeller material	PA66 plastic, glass-fiber reinforced
Fan housing material	Sheet steel, pre-galvanized and coated with black plastic
Guard grille material	Steel, phosphated and coated with black plastic
Number of blades	5
Airflow direction	"V"
Direction of rotation	Counterclockwise, viewed toward rotor
Degree of protection	IP54
Insulation class	"F"
Moisture (F) / Environmental (H) protection class	F4-1
Max. permitted ambient temp. for motor (transport/storage)	+80 °C
Min. permitted ambient temp. for motor (transport/storage)	-40 °C
Installation position	Shaft horizontal or rotor on bottom; rotor on top on request
Condensation drainage holes	On rotor side
Mode	S1
Motor storage	Ball bearing
Touch current according to IEC 60990 (measuring circuit Fig. 4, TN system)	<= 3.5 mA
Motor protection	Thermal overload protector (TOP) internally connected
With cable	Variable
Conformity with standards	CE
Approval	UL 1004-1; CSA C22.2 No. 100



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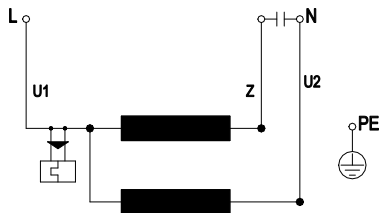
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Product drawing



- | | |
|---|---------------------------|
| 1 | Direction of air flow "V" |
| 2 | Cable FEP AWG20 |

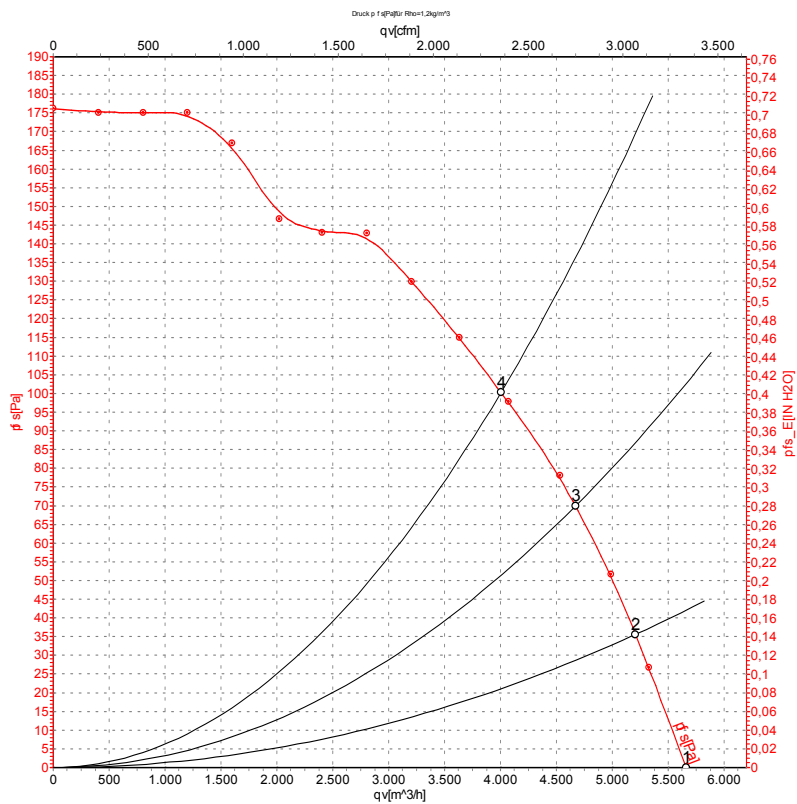
Connection diagram



U1	blue	Z	brown	U2	black
PE	green/yellow				



Curves: Air performance 60 Hz



Measurement: LU-69165

Air performance measured according to ISO 5801 installation category A. For detailed information on the measurement setup, contact ebm-papst. Intake sound level: Sound power level according to ISO 13347 / sound pressure level measured at 1 m distance from fan axis. The values given are valid under the specified measuring conditions and may vary due to conditions of installation. For deviations from the standard configuration, the parameters have to be checked on the installed unit.

Measured values

	U	f	n	P _e	I	qv	p _{is}
	V	Hz	min ⁻¹	W	A	m³/h	Pa
1	115	60	1615	334	2.93	5660	0
2	115	60	1585	355	3.10	5205	36
3	115	60	1560	371	3.24	4670	70
4	115	60	1530	380	3.31	4005	100

U = Power supply · f = Frequency · n = Speed · P_e = Power consumption · I = Current draw · qv = Air flow · p_{is} = Pressure increase