

A4E400-AR01-11 ebmpapst Datasheet FansCo

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Nominal data

Type	A4E400-AR01-11		
Motor	M4E074-GA		
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 ⁻¹	1420	1650
Power consumption	W	200	275
Current draw	A	0.98	1.20
Capacitor	μF	7	7
Capacitor voltage	VDB	400	400
Capacitor standard		S0 (CE)	S0 (CE)
Min. ambient temperature	°C	-25	-25
Max. ambient temperature	°C	60	70
Starting current	A	2.8	2.6

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

Data according to ErP Directive

		Actual	Req. 2015
01 Overall efficiency η_{es}	%	30.6	29.7
02 Measurement category		A	
03 Efficiency category		Static	
04 Efficiency grade N		41	40
05 Variable speed drive		No	

Data obtained at optimum efficiency level.
The ErP data is determined using a motor-impeller combination in a standardized measurement setup.

09 Power consumption P_e	kW	0.23
09 Air flow q_v	m ³ /h	2600
09 Pressure increase p_{fs}	Pa	99
10 Speed (rpm) n	min ⁻¹	1395
11 Specific ratio*		1.00

* Specific ratio = $1 + p_{fs} / 100\,000\text{ Pa}$

LU-77071



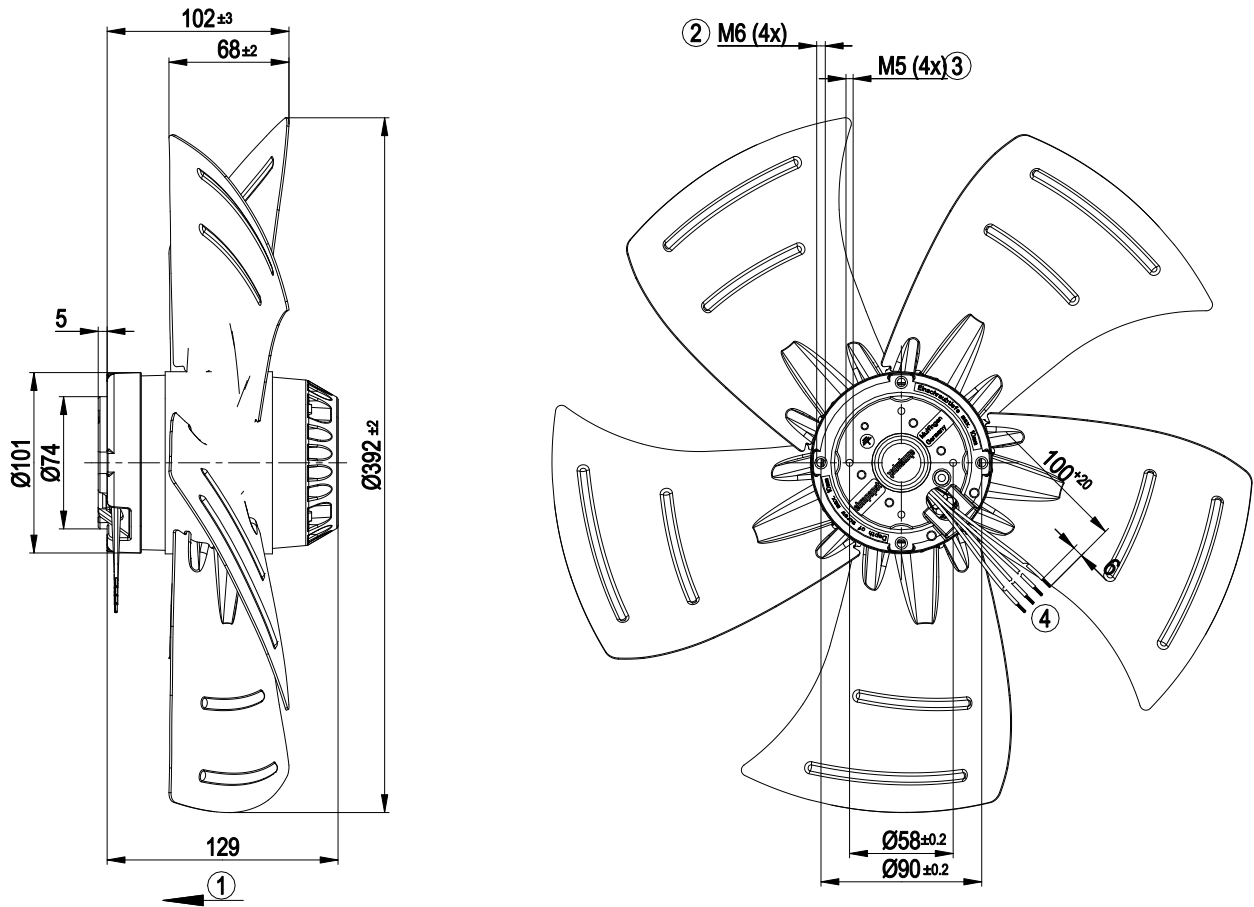
Technical description

Weight	4.7 kg
Fan size	400 mm
Rotor surface	Painted black
Blade material	Sheet steel, painted black
Number of blades	5
Airflow direction	"V"
Direction of rotation	Counterclockwise, viewed toward rotor
Degree of protection	IP44; installation- and position-dependent as per EN 60034-5. The degree of protection is only assured when the intended cable guard and terminal box are installed.
Insulation class	"F"
Moisture (F) / Environmental (H) protection class	F2-2
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 bearing	Ball bearing
Touch current according to IEC 60990 (measuring circuit Fig. 4, TN system)	< 0.75 mA
Electrical hookup	Prepared for terminal box installation
Motor protection	Thermal overload protector (TOP) internally connected
With cable	Variable
Protection class	I (with customer connection of protective earth)
Motor capacitor according to EN 60252-1 in safety protection class	S0
Conformity with standards	EN 60335-1; CE
Approval	CSA C22.2 No. 100; UL 1004-1

AC axial fan

sickle-shaped blades (S series), single-intake

Product drawing



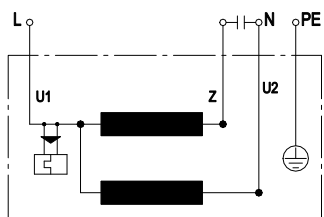
1	Direction of air flow "V"
2	Max. clearance for screw 10 mm
3	Max. clearance for screw 8 mm
4	Cable halogen-silicone-free 4x 0.5 mm ² , 4x crimped splices



AC axial fan

sickle-shaped blades (S series), single-intake

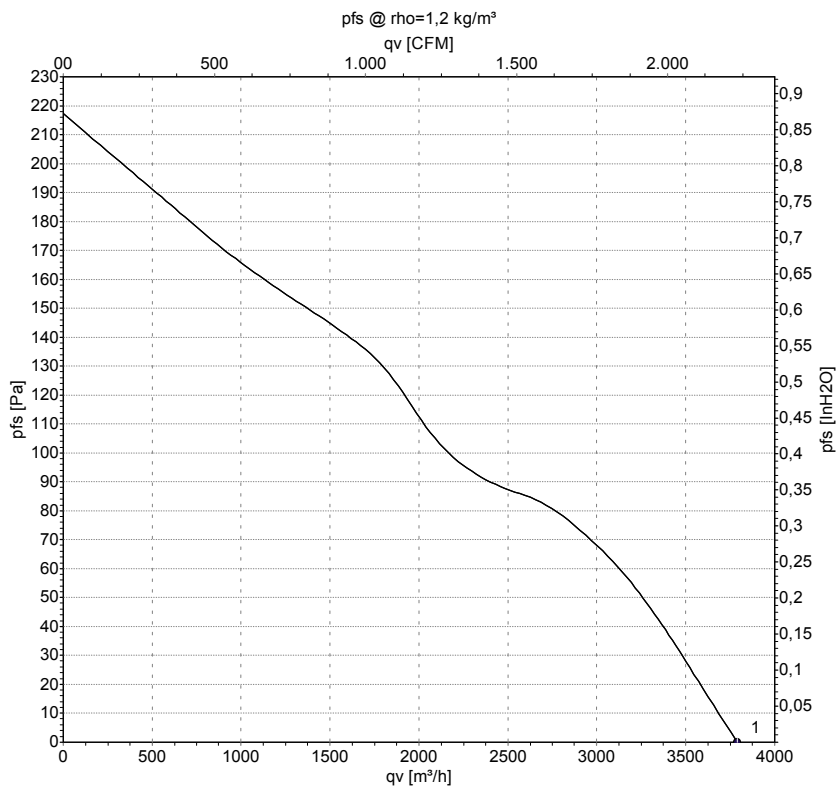
Connection diagram



U1	blue	Z	brown	U2	black
PE	green/yellow				



Curves: Air performance 50 Hz



Measurement: LU-69415-1

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.

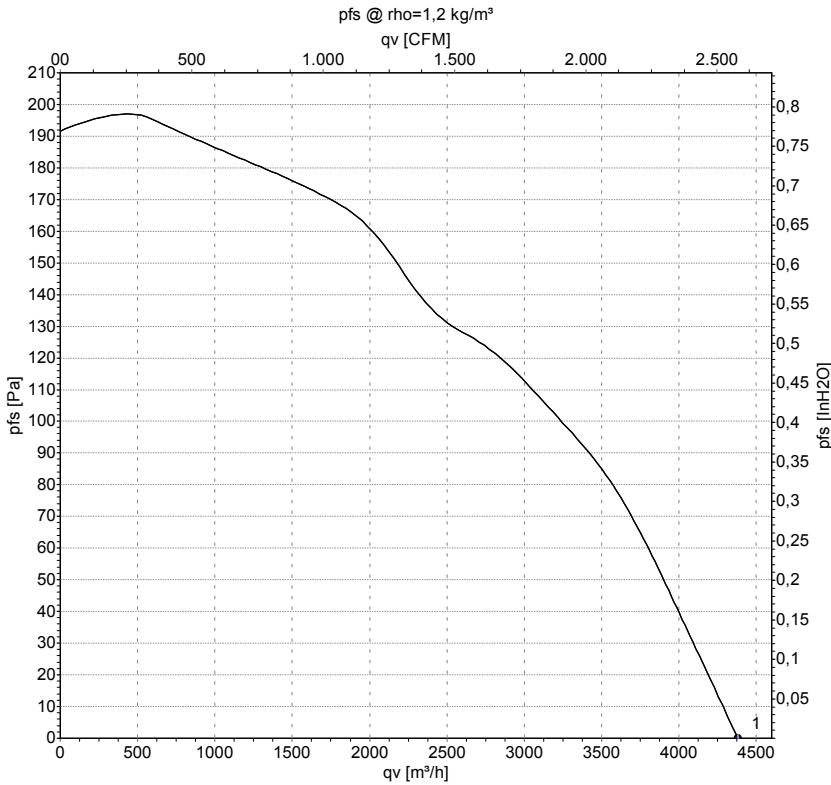
Measured values

	U	f	n	P _e	I	q _v	q _v	P _{fs}
	V	Hz	min ⁻¹	W	A	m ³ /h	cfm	inH2O
1	230	50	1420	200	0.98	3790	2230	0.00

U = Power supply · f = Frequency · n = Speed (rpm) · P_e = Power consumption · I = Current draw · q_v = Air flow



Curves: Air performance 60 Hz



Measurement: LU-69416-1

Air performance measured according to ISO 5801 installation category A. For detailed information on the measurement setup, contact ebmpapst. 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	q _v	q _v	P _{fs}
	V	Hz	min ⁻¹	W	A	m ³ /h	cfm	inH2O
1	230	60	1650	275	1.20	4380	2580	0.00

U = Power supply · f = Frequency · n = Speed (rpm) · P_e = Power consumption · I = Current draw · q_v = Air flow

